

MySQL and PHP

MySQL and PHP Reference

Abstract

This manual describes the PHP extensions and interfaces that can be used with MySQL.

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For additional documentation on MySQL products, including translations of the documentation into other languages, and downloadable versions in variety of formats, including HTML, CHM and PDF formats, see [MySQL Documentation Library](#).

MySQL PHP API

PHP is a server-side, HTML-embedded scripting language that may be used to create dynamic Web pages. It is available for most operating systems and Web servers, and can access most common databases, including MySQL. PHP may be run as a separate program or compiled as a module for use with the Apache Web server.

PHP actually provides two different MySQL API extensions:

- `mysql`: Available for PHP versions 4 and 5, this extension is intended for use with MySQL versions prior to MySQL 4.1. This extension does not support the improved authentication protocol used in MySQL 4.1, nor does it support prepared statements or multiple statements. If you wish to use this extension with MySQL 4.1, you will likely want to configure the MySQL server to use the `-old-passwords` option (see [Client does not support authentication protocol](#)). This extension is documented on the PHP Web site at <http://php.net/mysql>.
- [Chapter 2, MySQL Improved Extension \(Mysqli\)](#) - Stands for “MySQL, Improved”; this extension is available only in PHP 5. It is intended for use with MySQL 4.1.1 and later. This extension fully supports the authentication protocol used in MySQL 5.0, as well as the Prepared Statements and Multiple Statements APIs. In addition, this extension provides an advanced, object-oriented programming interface. You can read the documentation for the `mysqli` extension at <http://php.net/mysqli>. Helpful article can be found at <http://devzone.zend.com/node/view/id/686> and <http://devzone.zend.com/node/view/id/687>.

If you're experiencing problems with enabling both the `mysql` and the `mysqli` extension when building PHP on Linux yourself, see [Enabling Both mysql and mysqli in PHP](#).

The PHP distribution and documentation are available from the [PHP Web site](#).

MySQL Enterprise

MySQL Enterprise subscribers will find more information about MySQL and PHP in the Knowledge Base articles found at [PHP](#). Access to the MySQL Knowledge Base collection of articles is one of the advantages of subscribing to MySQL Enterprise. For more information see <http://www.mysql.com/products/enterprise/knowledgebase.html>.

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Chapter 1. MySQL

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These functions allow you to access MySQL database servers. More information about MySQL can be found at <http://www.mysql.com/>.

Documentation for MySQL can be found at <http://dev.mysql.com/doc/>.

1.1. Installing/Configuring

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1.1.1. Requirements

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In order to have these functions available, you must compile PHP with MySQL support.

1.1.2. Installation

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For compiling, simply use the `--with-mysql[=DIR]` configuration option where the optional `[DIR]` points to the MySQL installation directory.

Although this MySQL extension is compatible with MySQL 4.1.0 and greater, it doesn't support the extra functionality that these versions provide. For that, use the [MySQLi](#) extension.

If you would like to install the `mysql` extension along with the `mysqli` extension you have to use the same client library to avoid any conflicts.

1.1.2.1. Installation on Linux Systems

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1.1.2.1.1. PHP 4

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The option `--with-mysql` is enabled by default. This default behavior may be disabled with the `--without-mysql` configure option. If MySQL is enabled without specifying the path to the MySQL install DIR, PHP will use the bundled MySQL client libraries.

Users who run other applications that use MySQL (for example, `auth-mysql`) should not use the bundled library, but rather specify the path to MySQL's install directory, like so: `--with-mysql=/path/to/mysql`. This will force PHP to use the client libraries installed by MySQL, thus avoiding any conflicts.

1.1.2.1.2. PHP 5+

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MySQL is not enabled by default, nor is the MySQL library bundled with PHP. Read this [FAQ](#) for details on why. Use the `--with-mysql[=DIR]` configure option to include MySQL support. You can download *headers and libraries* from [MySQL](#).

1.1.2.2. Installation on Windows Systems

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1.1.2.2.1. PHP 4

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The PHP MySQL extension is compiled into PHP.

1.1.2.2.2. PHP 5+

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MySQL is no longer enabled by default, so the `php_mysql.dll` DLL must be enabled inside of `php.ini`. Also, PHP needs access to the MySQL client library. A file named `libmysql.dll` is included in the Windows PHP distribution and in order for PHP to talk to MySQL this file needs to be available to the Windows systems `PATH`. See the FAQ titled "[How do I add my PHP directory to the PATH on Windows](#)" for information on how to do this. Although copying `libmysql.dll` to the Windows system directory also works (because the system directory is by default in the system's `PATH`), it's not recommended.

As with enabling any PHP extension (such as `php_mysql.dll`), the PHP directive `extension_dir` should be set to the directory where the PHP extensions are located. See also the [Manual Windows Installation Instructions](#). An example `extension_dir` value for PHP 5 is `c:\php\ext`

Note

If when starting the web server an error similar to the following occurs: "Unable to load dynamic library '`./php_mysql.dll`' ", this is because `php_mysql.dll` and/or `libmysql.dll` cannot be found by the system.

1.1.2.3. MySQL Installation Notes

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Warning

Crashes and startup problems of PHP may be encountered when loading this extension in conjunction with the `recode` extension. See the [recode](#) extension for more information.

Note

If you need charsets other than *latin* (default), you have to install external (not bundled) `libmysql` with compiled charset support.

1.1.3. Runtime Configuration

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The behaviour of these functions is affected by settings in `php.ini`.

Table 1.1. MySQL Configuration Options

Name	Default	Changeable	Changelog
<code>mysql.allow_persistent</code>	"1"	PHP_INI_SYSTEM	
<code>mysql.max_persistent</code>	"-1"	PHP_INI_SYSTEM	
<code>mysql.max_links</code>	"-1"	PHP_INI_SYSTEM	
<code>mysql.trace_mode</code>	"0"	PHP_INI_ALL	Available since PHP 4.3.0.
<code>mysql.default_port</code>	NULL	PHP_INI_ALL	
<code>mysql.default_socket</code>	NULL	PHP_INI_ALL	Available since PHP 4.0.1.
<code>mysql.default_host</code>	NULL	PHP_INI_ALL	
<code>mysql.default_user</code>	NULL	PHP_INI_ALL	
<code>mysql.default_password</code>	NULL	PHP_INI_ALL	
<code>mysql.connect_timeout</code>	"60"	PHP_INI_ALL	PHP_INI_SYSTEM in PHP <= 4.3.2. Available since PHP 4.3.0.

For further details and definitions of the `PHP_INI_*` constants, see the <http://www.php.net/manual/en/ini.php>.

Here's a short explanation of the configuration directives.

<code>mysql.allow_persistent</code> boolean	Whether to allow persistent connections to MySQL.
<code>mysql.max_persistent</code> integer	The maximum number of persistent MySQL connections per process.
<code>mysql.max_links</code> integer	The maximum number of MySQL connections per process, including persistent connections.
<code>mysql.trace_mode</code> boolean	Trace mode. When <code>mysql.trace_mode</code> is enabled, warnings for table/index scans, non free result sets, and SQL-Errors will be displayed. (Introduced in PHP 4.3.0)
<code>mysql.default_port</code> string	The default TCP port number to use when connecting to the database server if no other port is specified. If no default is specified, the port will be obtained from the <code>MYSQL_TCP_PORT</code> environment variable, the <code>mysql-tcp</code> entry in <code>/etc/services</code> or the compile-time <code>MYSQL_PORT</code> constant, in that order. Win32 will only use the <code>MYSQL_PORT</code> constant.
<code>mysql.default_socket</code> string	The default socket name to use when connecting to a local database server if no other socket name is specified.
<code>mysql.default_host</code> string	The default server host to use when connecting to the database server if no other host is specified. Doesn't apply in SQL safe mode .
<code>mysql.default_user</code> string	The default user name to use when connecting to the database server if no other name is specified. Doesn't apply in SQL safe mode .
<code>mysql.default_password</code> string	The default password to use when connecting to the database server if no other password is specified. Doesn't apply in SQL safe mode .
<code>mysql.connect_timeout</code> integer	Connect timeout in seconds. On Linux this timeout is also used for waiting for the first answer from the server.

1.1.4. Resource Types

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There are two resource types used in the MySQL module. The first one is the link identifier for a database connection, the second a resource which holds the result of a query.

1.2. Predefined Constants

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The constants below are defined by this extension, and will only be available when the extension has either been compiled into PHP or dynamically loaded at runtime.

Since PHP 4.3.0 it is possible to specify additional client flags for the `mysql_connect` and `mysql_pconnect` functions. The following constants are defined:

Table 1.2. MySQL client constants

Constant	Description
<code>MYSQL_CLIENT_COMPRESS</code>	Use compression protocol
<code>MYSQL_CLIENT_IGNORE_SPACE</code>	Allow space after function names
<code>MYSQL_CLIENT_INTERACTIVE</code>	Allow <code>interactive_timeout</code> seconds (instead of <code>wait_timeout</code>) of inactivity before closing the connection.
<code>MYSQL_CLIENT_SSL</code>	Use SSL encryption. This flag is only available with version 4.x of the MySQL client library or newer. Version 3.23.x is bundled both with PHP 4 and Windows binaries of PHP 5.

The function `mysql_fetch_array` uses a constant for the different types of result arrays. The following constants are defined:

Table 1.3. MySQL fetch constants

Constant	Description
MYSQL_ASSOC	Columns are returned into the array having the fieldname as the array index.
MYSQL_BOTH	Columns are returned into the array having both a numerical index and the fieldname as the array index.
MYSQL_NUM	Columns are returned into the array having a numerical index to the fields. This index starts with 0, the first field in the result.

1.3. Examples

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1.3.1. Basic

This simple example shows how to connect, execute a query, print resulting rows and disconnect from a MySQL database.

Example 1.1. MySQL extension overview example

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```
<?php
// Connecting, selecting database
$link = mysql_connect('mysql_host', 'mysql_user', 'mysql_password')
    or die('Could not connect: ' . mysql_error());
echo 'Connected successfully';
mysql_select_db('my_database') or die('Could not select database');
// Performing SQL query
$query = 'SELECT * FROM my_table';
$result = mysql_query($query) or die('Query failed: ' . mysql_error());
// Printing results in HTML
echo "<table>\n";
while ($line = mysql_fetch_array($result, MYSQL_ASSOC)) {
    echo "\t<tr>\n";
    foreach ($line as $col_value) {
        echo "\t\t<td>$col_value</td>\n";
    }
    echo "\t</tr>\n";
}
echo "</table>\n";
// Free resultset
mysql_free_result($result);
// Closing connection
mysql_close($link);
?>
```

1.4. MySQL Functions

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Note

Most MySQL functions accept *link_identifier* as the last optional parameter. If it is not provided, last opened connection is used. If it doesn't exist, connection is tried to establish with default parameters defined in `php.ini`. If it is not successful, functions return `FALSE`.

1.4.1. `mysql_affected_rows`

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- `mysql_affected_rows`

Get number of affected rows in previous MySQL operation

Description

```
int mysql_affected_rows(resource link_identifier);
```

Get the number of affected rows by the last INSERT, UPDATE, REPLACE or DELETE query associated with *link_identifier*.

Parameters

link_identifier The MySQL connection. If the link identifier is not specified, the last link opened by `mysql_connect` is assumed. If no such link is found, it will try to create one as if `mysql_connect` was called with no arguments. If by chance no connection is found or established, an `E_WARNING` level error is generated.

Return Values

Returns the number of affected rows on success, and -1 if the last query failed.

If the last query was a DELETE query with no WHERE clause, all of the records will have been deleted from the table but this function will return zero with MySQL versions prior to 4.1.2.

When using UPDATE, MySQL will not update columns where the new value is the same as the old value. This creates the possibility that `mysql_affected_rows` may not actually equal the number of rows matched, only the number of rows that were literally affected by the query.

The REPLACE statement first deletes the record with the same primary key and then inserts the new record. This function returns the number of deleted records plus the number of inserted records.

Examples

Example 1.2. `mysql_affected_rows` example

```
<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
if (!$link) {
    die('Could not connect: ' . mysql_error());
}
mysql_select_db('mydb');
/* this should return the correct numbers of deleted records */
mysql_query('DELETE FROM mytable WHERE id < 10');
printf("Records deleted: %d\n", mysql_affected_rows());
/* with a where clause that is never true, it should return 0 */
mysql_query('DELETE FROM mytable WHERE 0');
printf("Records deleted: %d\n", mysql_affected_rows());
?>
```

The above example will output something similar to:

```
Records deleted: 10
Records deleted: 0
```

Example 1.3. `mysql_affected_rows` example using transactions

```
<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
if (!$link) {
    die('Could not connect: ' . mysql_error());
}
mysql_select_db('mydb');
/* Update records */
mysql_query("UPDATE mytable SET used=1 WHERE id < 10");
printf ("Updated records: %d\n", mysql_affected_rows());
mysql_query("COMMIT");
?>
```

The above example will output something similar to:

```
Updated Records: 10
```

Notes**Transactions**

If you are using transactions, you need to call `mysql_affected_rows` after your INSERT, UPDATE, or DELETE query, not after the COMMIT.

SELECT Statements

To retrieve the number of rows returned by a SELECT, it is possible to use `mysql_num_rows`.

See Also

`mysql_num_rows`
`mysql_info`

1.4.2. `mysql_change_user`

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- `mysql_change_user`

Change logged in user of the active connection

Description

```
int mysql_change_user(string user,
                     string password,
                     string database,
                     resource link_identifier);
```

`mysql_change_user` changes the logged in user of the current active connection, or the connection given by the optional `link_identifier` parameter. If a database is specified, this will be the current database after the user has been changed. If the new user and password authorization fails, the current connected user stays active.

This function is deprecated and no longer exists in PHP.

Parameters

<i>user</i>	The new MySQL username.
<i>password</i>	The new MySQL password.
<i>database</i>	The MySQL database. If not specified, the current selected database is used.
<i>link_identifier</i>	The MySQL connection. If the link identifier is not specified, the last link opened by <code>mysql_connect</code> is assumed. If no such link is found, it will try to create one as if <code>mysql_connect</code> was called with no arguments. If by chance no connection is found or established, an <code>E_WARNING</code> level error is generated.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

ChangeLog

Version	Description
3.0.14	This function was removed from PHP.

Notes**Requirements**

This function requires MySQL 3.23.3 or higher.

See Also

`mysql_connect`
`mysql_select_db`
`mysql_query`

1.4.3. `mysql_client_encoding`

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- `mysql_client_encoding`

Returns the name of the character set

Description

```
string mysql_client_encoding(resource link_identifier);
```

Retrieves the `character_set` variable from MySQL.

Parameters

<i>link_identifier</i>	The MySQL connection. If the link identifier is not specified, the last link opened by <code>mysql_connect</code> is assumed. If no such link is found, it will try to create one as if <code>mysql_connect</code> was called with no arguments. If by chance no connection is found or established, an <code>E_WARNING</code> level error is generated.
------------------------	--

Return Values

Returns the default character set name for the current connection.

Examples

Example 1.4. `mysql_client_encoding` example

```
<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
$charset = mysql_client_encoding($link);
echo "The current character set is: $charset\n";
?>
```

The above example will output something similar to:

```
The current character set is: latin1
```

See Also

`mysql_set_charset`
`mysql_real_escape_string`

1.4.4. `mysql_close`

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- `mysql_close`

Close MySQL connection

Description

```
bool mysql_close(resource link_identifier);
```

`mysql_close` closes the non-persistent connection to the MySQL server that's associated with the specified link identifier. If `link_identifier` isn't specified, the last opened link is used.

Using `mysql_close` isn't usually necessary, as non-persistent open links are automatically closed at the end of the script's execution. See also [freeing resources](#).

Parameters

link_identifier

The MySQL connection. If the link identifier is not specified, the last link opened by `mysql_connect` is assumed. If no such link is found, it will try to create one as if `mysql_connect` was called with no arguments. If by chance no connection is found or established, an `E_WARNING` level error is generated.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Examples

Example 1.5. `mysql_close` example

```
<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
if (!$link) {
    die('Could not connect: ' . mysql_error());
}
echo 'Connected successfully';
mysql_close($link);
?>
```

The above example will output:

```
Connected successfully
```

Notes

Note

`mysql_close` will not close persistent links created by `mysql_pconnect`.

See Also

[mysql_connect](#)
[mysql_free_result](#)

1.4.5. `mysql_connect`

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- [mysql_connect](#)

Open a connection to a MySQL Server

Description

```
resource mysql_connect(string server,
                       string username,
                       string password,
                       bool new_link,
                       int client_flags);
```

Opens or reuses a connection to a MySQL server.

Parameters

server

The MySQL server. It can also include a port number. e.g. "hostname:port" or a path to a local socket e.g. ":/path/to/socket" for the localhost.

If the PHP directive `mysql.default_host` is undefined (default), then the default value is 'localhost:3306'. In [SQL safe mode](#), this parameter is ignored and value 'localhost:3306' is always used.

username

The username. Default value is defined by `mysql.default_user`. In [SQL safe mode](#), this parameter is ignored and the name of the user that owns the server process is used.

<i>password</i>	The password. Default value is defined by <code>mysql.default_password</code> . In SQL safe mode , this parameter is ignored and empty password is used.
<i>new_link</i>	If a second call is made to <code>mysql_connect</code> with the same arguments, no new link will be established, but instead, the link identifier of the already opened link will be returned. The <i>new_link</i> parameter modifies this behavior and makes <code>mysql_connect</code> always open a new link, even if <code>mysql_connect</code> was called before with the same parameters. In SQL safe mode , this parameter is ignored.
<i>client_flags</i>	The <i>client_flags</i> parameter can be a combination of the following constants: 128 (enable <code>LOAD DATA LOCAL</code> handling), <code>MYSQL_CLIENT_SSL</code> , <code>MYSQL_CLIENT_COMPRESS</code> , <code>MYSQL_CLIENT_IGNORE_SPACE</code> or <code>MYSQL_CLIENT_INTERACTIVE</code> . Read the section about Table 1.2, “MySQL client constants” for further information. In SQL safe mode , this parameter is ignored.

Return Values

Returns a MySQL link identifier on success, or `FALSE` on failure.

ChangeLog

Version	Description
4.3.0	Added the <i>client_flags</i> parameter.
4.2.0	Added the <i>new_link</i> parameter.
3.0.10	Added support for <code>"/path/to/socket"</code> with <i>server</i> .
3.0.0	Added support for <code>":port"</code> with <i>server</i> .

Examples

Example 1.6. `mysql_connect` example

```
<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
if (!$link) {
    die('Could not connect: ' . mysql_error());
}
echo 'Connected successfully';
mysql_close($link);
?>
```

Example 1.7. `mysql_connect` example using `hostname:port` syntax

```
<?php
// we connect to example.com and port 3307
$link = mysql_connect('example.com:3307', 'mysql_user', 'mysql_password');
if (!$link) {
    die('Could not connect: ' . mysql_error());
}
echo 'Connected successfully';
mysql_close($link);
// we connect to localhost at port 3307
$link = mysql_connect('127.0.0.1:3307', 'mysql_user', 'mysql_password');
if (!$link) {
    die('Could not connect: ' . mysql_error());
}
echo 'Connected successfully';
mysql_close($link);
?>
```

Example 1.8. `mysql_connect` example using `"/path/to/socket"` syntax

```
<?php
// we connect to localhost and socket e.g. /tmp/mysql.sock
//variant 1: ommit localhost
$link = mysql_connect('/:tmp/mysql', 'mysql_user', 'mysql_password');
if (!$link) {
    die('Could not connect: ' . mysql_error());
}
echo 'Connected successfully';
mysql_close($link);
// variant 2: with localhost
$link = mysql_connect('localhost:/tmp/mysql.sock', 'mysql_user', 'mysql_password');
if (!$link) {
    die('Could not connect: ' . mysql_error());
}
echo 'Connected successfully';
mysql_close($link);
?>
```

Notes**Note**

Whenever you specify "localhost" or "localhost:port" as server, the MySQL client library will override this and try to connect to a local socket (named pipe on Windows). If you want to use TCP/IP, use "127.0.0.1" instead of "localhost". If the MySQL client library tries to connect to the wrong local socket, you should set the correct path as <http://www.php.net/manual/en/ini.mysql.default-host.php> in your PHP configuration and leave the server field blank.

Note

The link to the server will be closed as soon as the execution of the script ends, unless it's closed earlier by explicitly calling `mysql_close`.

Note

You can suppress the error message on failure by prepending a `@` to the function name.

Note

Error "Can't create TCP/IP socket (10106)" usually means that the `variables_order` configure directive doesn't contain character `E`. On Windows, if the environment is not copied the `SYSTEMROOT` environment variable won't be available and PHP will have problems loading Winsock.

See Also

[mysql_pconnect](#)
[mysql_close](#)

1.4.6. `mysql_create_db`

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- [mysql_create_db](#)

Create a MySQL database

Description

```
bool mysql_create_db(string database_name,
                    resource link_identifier);
```

`mysql_create_db` attempts to create a new database on the server associated with the specified link identifier.

Parameters

<i>database_name</i>	The name of the database being created.
<i>link_identifier</i>	The MySQL connection. If the link identifier is not specified, the last link opened by <code>mysql_connect</code> is assumed. If no such link is found, it will try to create one as if <code>mysql_connect</code> was called with no arguments. If by chance no connection is found or established, an <code>E_WARNING</code> level error is generated.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Examples**Example 1.9. `mysql_create_db` alternative example**

The function `mysql_create_db` is deprecated. It is preferable to use `mysql_query` to issue a sql `CREATE DATABASE` statement instead.

```
<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
if (!$link) {
    die('Could not connect: ' . mysql_error());
}
$sql = 'CREATE DATABASE my_db';
if (mysql_query($sql, $link)) {
    echo "Database my_db created successfully\n";
} else {
    echo 'Error creating database: ' . mysql_error() . "\n";
}
?>
```

The above example will output something similar to:

```
Database my_db created successfully
```

Notes**Note**

For backward compatibility, the following deprecated alias may be used: `mysql_createdb`

Note

This function will not be available if the MySQL extension was built against a MySQL 4.x client library.

See Also

```
mysql_query
mysql_select_db
```

1.4.7. mysql_data_seek

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- `mysql_data_seek`

Move internal result pointer

Description

```
bool mysql_data_seek(resource result,
                    int row_number);
```

`mysql_data_seek` moves the internal row pointer of the MySQL result associated with the specified result identifier to point to the specified row number. The next call to a MySQL fetch function, such as `mysql_fetch_assoc`, would return that row.

`row_number` starts at 0. The `row_number` should be a value in the range from 0 to `mysql_num_rows - 1`. However if the result set is empty (`mysql_num_rows == 0`), a seek to 0 will fail with a **E_WARNING** and `mysql_data_seek` will return **FALSE**.

Parameters

`result` The result resource that is being evaluated. This result comes from a call to `mysql_query`.

`row_number` The desired row number of the new result pointer.

Return Values

Returns **TRUE** on success or **FALSE** on failure.

Examples

Example 1.10. mysql_data_seek example

```
<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
if (!$link) {
    die('Could not connect: ' . mysql_error());
}
$db_selected = mysql_select_db('sample_db');
if (!$db_selected) {
    die('Could not select database: ' . mysql_error());
}
$query = 'SELECT last_name, first_name FROM friends';
$result = mysql_query($query);
if (!$result) {
    die('Query failed: ' . mysql_error());
}
/* fetch rows in reverse order */
for ($i = mysql_num_rows($result) - 1; $i >= 0; $i--) {
    if (!mysql_data_seek($result, $i)) {
        echo "Cannot seek to row $i: " . mysql_error() . "\n";
        continue;
    }
    if (!$row = mysql_fetch_assoc($result)) {
        continue;
    }
    echo $row['last_name'] . ' ' . $row['first_name'] . "<br />\n";
}
mysql_free_result($result);
?>
```

Notes

Note

The function `mysql_data_seek` can be used in conjunction only with `mysql_query`, not with `mysql_unbuffered_query`.

See Also

`mysql_query`
`mysql_num_rows`
`mysql_fetch_row`
`mysql_fetch_assoc`
`mysql_fetch_array`
`mysql_fetch_object`

1.4.8. `mysql_db_name`

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- `mysql_db_name`

Get result data

Description

```
string mysql_db_name(resource result,  
                    int row,  
                    mixed field);
```

Retrieve the database name from a call to `mysql_list_dbs`.

Parameters

<i>result</i>	The result pointer from a call to <code>mysql_list_dbs</code> .
<i>row</i>	The index into the result set.
<i>field</i>	The field name.

Return Values

Returns the database name on success, and `FALSE` on failure. If `FALSE` is returned, use `mysql_error` to determine the nature of the error.

Examples

Example 1.11. `mysql_db_name` example

```
<?php  
error_reporting(E_ALL);  
$link = mysql_connect('dbhost', 'username', 'password');  
$db_list = mysql_list_dbs($link);  
$i = 0;  
$cnt = mysql_num_rows($db_list);  
while ($i < $cnt) {  
    echo mysql_db_name($db_list, $i) . "\n";  
    $i++;  
}  
?>
```

Notes**Note**

For backward compatibility, the following deprecated alias may be used: `mysql_dbname`

See Also

`mysql_list_dbs`
`mysql_tablename`

1.4.9. `mysql_db_query`

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- `mysql_db_query`

Send a MySQL query

Description

```
resource mysql_db_query(string database,
                       string query,
                       resource link_identifier);
```

`mysql_db_query` selects a database, and executes a query on it.

Parameters

<i>database</i>	The name of the database that will be selected.
<i>query</i>	The MySQL query.
<i>link_identifier</i>	The MySQL connection. If the link identifier is not specified, the last link opened by <code>mysql_connect</code> is assumed. If no such link is found, it will try to create one as if <code>mysql_connect</code> was called with no arguments. If by chance no connection is found or established, an <code>E_WARNING</code> level error is generated.

Return Values

Returns a positive MySQL result resource to the query result, or `FALSE` on error. The function also returns `TRUE` / `FALSE` for `INSERT/UPDATE/DELETE` queries to indicate success/failure.

ChangeLog

Version	Description
5.3.0	This function now throws an <code>E_DEPRECATED</code> notice.
4.0.6	This function is deprecated, do not use this function. Use <code>mysql_select_db</code> and <code>mysql_query</code> instead.

Examples

Example 1.12. `mysql_db_query` alternative example

```

<?php
if (!$link = mysql_connect('mysql_host', 'mysql_user', 'mysql_password')) {
    echo 'Could not connect to mysql';
    exit;
}
if (!$mysql_select_db('mysql_dbname', $link)) {
    echo 'Could not select database';
    exit;
}
$sql = 'SELECT foo FROM bar WHERE id = 42';
$result = mysql_query($sql, $link);
if (!$result) {
    echo "DB Error, could not query the database\n";
    echo 'MySQL Error: ' . mysql_error();
    exit;
}
while ($row = mysql_fetch_assoc($result)) {
    echo $row['foo'];
}
mysql_free_result($result);
?>

```

Notes**Note**

Be aware that this function does *NOT* switch back to the database you were connected before. In other words, you can't use this function to *temporarily* run a sql query on another database, you would have to manually switch back. Users are strongly encouraged to use the `database.table` syntax in their sql queries or `mysql_select_db` instead of this function.

See Also

`mysql_query`
`mysql_select_db`

1.4.10. `mysql_drop_db`

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- `mysql_drop_db`

Drop (delete) a MySQL database

Description

```

bool mysql_drop_db(string database_name,
                  resource link_identifier);

```

`mysql_drop_db` attempts to drop (remove) an entire database from the server associated with the specified link identifier. This function is deprecated, it is preferable to use `mysql_query` to issue a sql `DROP DATABASE` statement instead.

Parameters

database_name

The name of the database that will be deleted.

link_identifier

The MySQL connection. If the link identifier is not specified, the last link opened by `mysql_connect` is assumed. If no such link is found, it will try to create one as if `mysql_connect` was called with no arguments. If by chance no connection is found or estab-

lished, an `E_WARNING` level error is generated.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Examples

Example 1.13. `mysql_drop_db` alternative example

```
<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
if (!$link) {
    die('Could not connect: ' . mysql_error());
}
$sql = 'DROP DATABASE my_db';
if (mysql_query($sql, $link)) {
    echo "Database my_db was successfully dropped\n";
} else {
    echo 'Error dropping database: ' . mysql_error() . "\n";
}
?>
```

Notes

Warning

This function will not be available if the MySQL extension was built against a MySQL 4.x client library.

Note

For backward compatibility, the following deprecated alias may be used: `mysql_dropdb`

See Also

[mysql_query](#)

1.4.11. `mysql_errno`

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- [mysql_errno](#)

Returns the numerical value of the error message from previous MySQL operation

Description

```
int mysql_errno(resource link_identifier);
```

Returns the error number from the last MySQL function.

Errors coming back from the MySQL database backend no longer issue warnings. Instead, use `mysql_errno` to retrieve the error code. Note that this function only returns the error code from the most recently executed MySQL function (not including `mysql_error` and `mysql_errno`), so if you want to use it, make sure you check the value before calling another MySQL function.

Parameters

link_identifier

The MySQL connection. If the link identifier is not specified, the last link opened by `mysql_connect` is assumed. If no such link is found, it will try to create one as if `mysql_connect` was called with no arguments. If by chance no connection is found or established, an `E_WARNING` level error is generated.

Return Values

Returns the error number from the last MySQL function, or 0 (zero) if no error occurred.

Examples

Example 1.14. `mysql_errno` example

```
<?php
$link = mysql_connect("localhost", "mysql_user", "mysql_password");
if (!mysql_select_db("nonexistentdb", $link)) {
    echo mysql_errno($link) . ": " . mysql_error($link) . "\n";
}
mysql_select_db("kossu", $link);
if (!mysql_query("SELECT * FROM nonexistenttable", $link)) {
    echo mysql_errno($link) . ": " . mysql_error($link) . "\n";
}
?>
```

The above example will output something similar to:

```
1049: Unknown database 'nonexistentdb'
1146: Table 'kossu.nonexistenttable' doesn't exist
```

See Also

[mysql_error](#)
[MySQL error codes](#)

1.4.12. `mysql_error`

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- [mysql_error](#)

Returns the text of the error message from previous MySQL operation

Description

```
string mysql_error(resource link_identifier);
```

Returns the error text from the last MySQL function. Errors coming back from the MySQL database backend no longer issue warnings. Instead, use `mysql_error` to retrieve the error text. Note that this function only returns the error text from the most recently executed MySQL function (not including `mysql_error` and `mysql_errno`), so if you want to use it, make sure you check the value before calling another MySQL function.

Parameters

link_identifier

The MySQL connection. If the link identifier is not specified, the last link opened by `mysql_connect` is assumed. If no such link is found, it will try to create one as if `mysql_connect` was called with no arguments. If by chance no connection is found or established, an `E_WARNING` level error is generated.

Return Values

Returns the error text from the last MySQL function, or '' (empty string) if no error occurred.

Examples

Example 1.15. `mysql_error` example

```
<?php
$link = mysql_connect("localhost", "mysql_user", "mysql_password");
mysql_select_db("nonexistentdb", $link);
echo mysql_errno($link) . ": " . mysql_error($link) . "\n";
mysql_select_db("kossu", $link);
mysql_query("SELECT * FROM nonexistenttable", $link);
echo mysql_errno($link) . ": " . mysql_error($link) . "\n";
?>
```

The above example will output something similar to:

```
1049: Unknown database 'nonexistentdb'
1146: Table 'kossu.nonexistenttable' doesn't exist
```

See Also

[mysql_errno](#)
[MySQL error codes](#)

1.4.13. `mysql_escape_string`

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- [mysql_escape_string](#)

Escapes a string for use in a `mysql_query`

Description

```
string mysql_escape_string(string unescaped_string);
```

This function will escape the *unescaped_string*, so that it is safe to place it in a `mysql_query`. This function is deprecated.

This function is identical to `mysql_real_escape_string` except that `mysql_real_escape_string` takes a connection handler and escapes the string according to the current character set. `mysql_escape_string` does not take a connection argument and does not respect the current charset setting.

Parameters

`unescaped_string` The string that is to be escaped.

Return Values

Returns the escaped string.

ChangeLog

Version	Description
5.3.0	This function now throws an E_DEPRECATED notice.
4.3.0	This function became deprecated, do not use this function. Instead, use <code>mysql_real_escape_string</code> .

Examples

Example 1.16. `mysql_escape_string` example

```
<?php
$item = "Zak's Laptop";
$escaped_item = mysql_escape_string($item);
printf("Escaped string: %s\n", $escaped_item);
?>
```

The above example will output:

```
Escaped string: Zak\'s Laptop
```

Notes

Note

`mysql_escape_string` does not escape `%` and `_`.

See Also

`mysql_real_escape_string`
`addslashes`
 The `magic_quotes_gpc` directive.

1.4.14. `mysql_fetch_array`

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- `mysql_fetch_array`

Fetch a result row as an associative array, a numeric array, or both

Description

```
array mysql_fetch_array(resource result,
                        int result_type);
```

Returns an array that corresponds to the fetched row and moves the internal data pointer ahead.

Parameters

<i>result</i>	The result resource that is being evaluated. This result comes from a call to <code>mysql_query</code> .
<i>result_type</i>	The type of array that is to be fetched. It's a constant and can take the following values: <code>MYSQL_ASSOC</code> , <code>MYSQL_NUM</code> , and the default value of <code>MYSQL_BOTH</code> .

Return Values

Returns an array of strings that corresponds to the fetched row, or `FALSE` if there are no more rows. The type of returned array depends on how *result_type* is defined. By using `MYSQL_BOTH` (default), you'll get an array with both associative and number indices. Using `MYSQL_ASSOC`, you only get associative indices (as `mysql_fetch_assoc` works), using `MYSQL_NUM`, you only get number indices (as `mysql_fetch_row` works).

If two or more columns of the result have the same field names, the last column will take precedence. To access the other column(s) of the same name, you must use the numeric index of the column or make an alias for the column. For aliased columns, you cannot access the contents with the original column name.

Examples

Example 1.17. Query with aliased duplicate field names

```
SELECT table1.field AS foo, table2.field AS bar FROM table1, table2
```

Example 1.18. `mysql_fetch_array` with `MYSQL_NUM`

```
<?php
mysql_connect("localhost", "mysql_user", "mysql_password") or
    die("Could not connect: " . mysql_error());
mysql_select_db("mydb");
$result = mysql_query("SELECT id, name FROM mytable");
while ($row = mysql_fetch_array($result, MYSQL_NUM)) {
    printf("ID: %s Name: %s", $row[0], $row[1]);
}
mysql_free_result($result);
?>
```

Example 1.19. `mysql_fetch_array` with `MYSQL_ASSOC`

```
<?php
mysql_connect("localhost", "mysql_user", "mysql_password") or
    die("Could not connect: " . mysql_error());
mysql_select_db("mydb");
$result = mysql_query("SELECT id, name FROM mytable");
while ($row = mysql_fetch_array($result, MYSQL_ASSOC)) {
    printf("ID: %s Name: %s", $row["id"], $row["name"]);
}
mysql_free_result($result);
?>
```

Example 1.20. `mysql_fetch_array` with `MYSQL_BOTH`

```
<?php
mysql_connect("localhost", "mysql_user", "mysql_password") or
die("Could not connect: " . mysql_error());
mysql_select_db("mydb");
$result = mysql_query("SELECT id, name FROM mytable");
while ($row = mysql_fetch_array($result, MYSQL_BOTH)) {
    printf ("ID: %s Name: %s", $row[0], $row["name"]);
}
mysql_free_result($result);
?>
```

Notes

Performance

An important thing to note is that using `mysql_fetch_array` is *not significantly* slower than using `mysql_fetch_row`, while it provides a significant added value.

Note

Field names returned by this function are *case-sensitive*.

Note

This function sets NULL fields to the PHP `NULL` value.

See Also

`mysql_fetch_row`
`mysql_fetch_assoc`
`mysql_data_seek`
`mysql_query`

1.4.15. `mysql_fetch_assoc`

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- `mysql_fetch_assoc`

Fetch a result row as an associative array

Description

```
array mysql_fetch_assoc(resource result);
```

Returns an associative array that corresponds to the fetched row and moves the internal data pointer ahead. `mysql_fetch_assoc` is equivalent to calling `mysql_fetch_array` with `MYSQL_ASSOC` for the optional second parameter. It only returns an associative array.

Parameters

result The result resource that is being evaluated. This result comes from a call to `mysql_query`.

Return Values

Returns an associative array of strings that corresponds to the fetched row, or `FALSE` if there are no more rows.

If two or more columns of the result have the same field names, the last column will take precedence. To access the other column(s) of the same name, you either need to access the result with numeric indices by using `mysql_fetch_row` or add alias names. See the example at the `mysql_fetch_array` description about aliases.

Examples

Example 1.21. An expanded `mysql_fetch_assoc` example

```
<?php
$conn = mysql_connect("localhost", "mysql_user", "mysql_password");
if (!$conn) {
    echo "Unable to connect to DB: " . mysql_error();
    exit;
}

if (!mysql_select_db("mydbname")) {
    echo "Unable to select mydbname: " . mysql_error();
    exit;
}

$sql = "SELECT id as userid, fullname, userstatus
      FROM   sometable
      WHERE  userstatus = 1";
$result = mysql_query($sql);
if (!$result) {
    echo "Could not successfully run query ($sql) from DB: " . mysql_error();
    exit;
}

if (mysql_num_rows($result) == 0) {
    echo "No rows found, nothing to print so am exiting";
    exit;
}

// While a row of data exists, put that row in $row as an associative array
// Note: If you're expecting just one row, no need to use a loop
// Note: If you put extract($row); inside the following loop, you'll
//       then create $userid, $fullname, and $userstatus
while ($row = mysql_fetch_assoc($result)) {
    echo $row["userid"];
    echo $row["fullname"];
    echo $row["userstatus"];
}
mysql_free_result($result);
?>
```

Notes

Performance

An important thing to note is that using `mysql_fetch_assoc` is *not significantly* slower than using `mysql_fetch_row`, while it provides a significant added value.

Note

Field names returned by this function are *case-sensitive*.

Note

This function sets NULL fields to the PHP `NULL` value.

See Also

`mysql_fetch_row`
`mysql_fetch_array`
`mysql_data_seek`
`mysql_query`
`mysql_error`

1.4.16. `mysql_fetch_field`

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- `mysql_fetch_field`

Get column information from a result and return as an object

Description

```
object mysql_fetch_field(resource result,  
                        int field_offset);
```

Returns an object containing field information. This function can be used to obtain information about fields in the provided query result.

Parameters

<code>result</code>	The result resource that is being evaluated. This result comes from a call to <code>mysql_query</code> .
<code>field_offset</code>	The numerical field offset. If the field offset is not specified, the next field that was not yet retrieved by this function is retrieved. The <code>field_offset</code> starts at 0.

Return Values

Returns an object containing field information. The properties of the object are:

- `name` - column name
- `table` - name of the table the column belongs to
- `def` - default value of the column
- `max_length` - maximum length of the column
- `not_null` - 1 if the column cannot be `NULL`
- `primary_key` - 1 if the column is a primary key
- `unique_key` - 1 if the column is a unique key
- `multiple_key` - 1 if the column is a non-unique key
- `numeric` - 1 if the column is numeric
- `blob` - 1 if the column is a BLOB
- `type` - the type of the column
- `unsigned` - 1 if the column is unsigned
- `zerofill` - 1 if the column is zero-filled

Examples

Example 1.22. `mysql_fetch_field` example

```

<?php
$conn = mysql_connect('localhost', 'mysql_user', 'mysql_password');
if (!$conn) {
    die('Could not connect: ' . mysql_error());
}
mysql_select_db('database');
$result = mysql_query('select * from table');
if (!$result) {
    die('Query failed: ' . mysql_error());
}
/* get column metadata */
$i = 0;
while ($i < mysql_num_fields($result)) {
    echo "Information for column $i:<br />\n";
    $meta = mysql_fetch_field($result, $i);
    if (!$meta) {
        echo "No information available<br />\n";
    }
    echo "<pre>
blob:          $meta->blob
max_length:    $meta->max_length
multiple_key:  $meta->multiple_key
name:          $meta->name
not_null:      $meta->not_null
numeric:       $meta->numeric
primary_key:   $meta->primary_key
table:         $meta->table
type:          $meta->type
default:       $meta->def
unique_key:    $meta->unique_key
unsigned:      $meta->unsigned
zerofill:      $meta->zerofill
</pre>";
    $i++;
}
mysql_free_result($result);
?>

```

Notes

Note

Field names returned by this function are *case-sensitive*.

See Also

[mysql_field_seek](#)

1.4.17. [mysql_fetch_lengths](#)

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- [mysql_fetch_lengths](#)

Get the length of each output in a result

Description

```
array mysql_fetch_lengths(resource result);
```

Returns an array that corresponds to the lengths of each field in the last row fetched by MySQL.

[mysql_fetch_lengths](#) stores the lengths of each result column in the last row returned by [mysql_fetch_row](#), [mysql_fetch_assoc](#), [mysql_fetch_array](#), and [mysql_fetch_object](#) in an array, starting at offset 0.

Parameters

`result` The result resource that is being evaluated. This result comes from a call to `mysql_query`.

Return Values

An array of lengths on success, or `FALSE` on failure.

Examples

Example 1.23. A `mysql_fetch_lengths` example

```
<?php
$result = mysql_query("SELECT id,email FROM people WHERE id = '42'");
if (!$result) {
    echo 'Could not run query: ' . mysql_error();
    exit;
}
$row      = mysql_fetch_assoc($result);
$lengths = mysql_fetch_lengths($result);
print_r($row);
print_r($lengths);
?>
```

The above example will output something similar to:

```
Array
(
    [id] => 42
    [email] => user@example.com
)
Array
(
    [0] => 2
    [1] => 16
)
```

See Also

`mysql_field_len`
`mysql_fetch_row`
`strlen`

1.4.18. `mysql_fetch_object`

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- `mysql_fetch_object`

Fetch a result row as an object

Description

```
object mysql_fetch_object(resource result,
                          string class_name,
                          array params);
```

Returns an object with properties that correspond to the fetched row and moves the internal data pointer ahead.

Parameters

<code>result</code>	The result resource that is being evaluated. This result comes from a call to <code>mysql_query</code> .
<code>class_name</code>	The name of the class to instantiate, set the properties of and return. If not specified, a <code>stdClass</code> object is returned.
<code>params</code>	An optional array of parameters to pass to the constructor for <code>class_name</code> objects.

Return Values

Returns an object with string properties that correspond to the fetched row, or `FALSE` if there are no more rows.

`mysql_fetch_row` fetches one row of data from the result associated with the specified result identifier. The row is returned as an array. Each result column is stored in an array offset, starting at offset 0.

ChangeLog

Version	Description
5.0.0	Added the ability to return as a different object.

Examples

Example 1.24. `mysql_fetch_object` example

```
<?php
mysql_connect("hostname", "user", "password");
mysql_select_db("mydb");
$result = mysql_query("select * from mytable");
while ($row = mysql_fetch_object($result)) {
    echo $row->user_id;
    echo $row->fullname;
}
mysql_free_result($result);
?>
```

Example 1.25. `mysql_fetch_object` example

```
<?php
class foo {
    public $name;
}
mysql_connect("hostname", "user", "password");
mysql_select_db("mydb");
$result = mysql_query("select name from mytable limit 1");
$obj = mysql_fetch_object($result, 'foo');
var_dump($obj);
?>
```

Notes

Performance

Speed-wise, the function is identical to `mysql_fetch_array`, and almost as quick as `mysql_fetch_row` (the difference is insignificant).

Note

`mysql_fetch_object` is similar to `mysql_fetch_array`, with one difference - an object is returned, instead of an array. Indirectly, that means that you can only access the data by the field names, and not by their offsets (numbers are illegal property names).

Note

Field names returned by this function are *case-sensitive*.

Note

This function sets NULL fields to the PHP `NULL` value.

See Also

`mysql_fetch_array`
`mysql_fetch_assoc`
`mysql_fetch_row`
`mysql_data_seek`
`mysql_query`

1.4.19. `mysql_fetch_row`

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- `mysql_fetch_row`

Get a result row as an enumerated array

Description

```
array mysql_fetch_row(resource result);
```

Returns a numerical array that corresponds to the fetched row and moves the internal data pointer ahead.

Parameters

result

The result resource that is being evaluated. This result comes from a call to `mysql_query`.

Return Values

Returns an numerical array of strings that corresponds to the fetched row, or `FALSE` if there are no more rows.

`mysql_fetch_row` fetches one row of data from the result associated with the specified result identifier. The row is returned as an array. Each result column is stored in an array offset, starting at offset 0.

Examples**Example 1.26. Fetching one row with `mysql_fetch_row`**

```
<?php
$result = mysql_query("SELECT id,email FROM people WHERE id = '42'");
if (!$result) {
    echo 'Could not run query: ' . mysql_error();
    exit;
}
$row = mysql_fetch_row($result);
```

```
echo $row[0]; // 42
echo $row[1]; // the email value
?>
```

Notes

Note

This function sets NULL fields to the PHP `NULL` value.

See Also

```
mysql_fetch_array
mysql_fetch_assoc
mysql_fetch_object
mysql_data_seek
mysql_fetch_lengths
mysql_result
```

1.4.20. `mysql_field_flags`

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- `mysql_field_flags`

Get the flags associated with the specified field in a result

Description

```
string mysql_field_flags(resource result,
                        int field_offset);
```

`mysql_field_flags` returns the field flags of the specified field. The flags are reported as a single word per flag separated by a single space, so that you can split the returned value using `explode`.

Parameters

<code>result</code>	The result resource that is being evaluated. This result comes from a call to <code>mysql_query</code> .
<code>field_offset</code>	The numerical field offset. The <code>field_offset</code> starts at 0. If <code>field_offset</code> does not exist, an error of level <code>E_WARNING</code> is also issued.

Return Values

Returns a string of flags associated with the result, or `FALSE` on failure.

The following flags are reported, if your version of MySQL is current enough to support them: "not_null", "primary_key", "unique_key", "multiple_key", "blob", "unsigned", "zerofill", "binary", "enum", "auto_increment" and "timestamp".

Examples

Example 1.27. A `mysql_field_flags` example

```
<?php
```

```
$result = mysql_query("SELECT id,email FROM people WHERE id = '42'");
if (!$result) {
    echo 'Could not run query: ' . mysql_error();
    exit;
}
$flags = mysql_field_flags($result, 0);
echo $flags;
print_r(explode(' ', $flags));
?>
```

The above example will output something similar to:

```
not_null primary_key auto_increment
Array
(
    [0] => not_null
    [1] => primary_key
    [2] => auto_increment
)
```

Notes

Note

For backward compatibility, the following deprecated alias may be used: `mysql_fieldflags`

See Also

`mysql_field_type`
`mysql_field_len`

1.4.21. `mysql_field_len`

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- `mysql_field_len`

Returns the length of the specified field

Description

```
int mysql_field_len(resource result,
                    int field_offset);
```

`mysql_field_len` returns the length of the specified field.

Parameters

result

The result resource that is being evaluated. This result comes from a call to `mysql_query`.

field_offset

The numerical field offset. The *field_offset* starts at 0. If *field_offset* does not exist, an error of level `E_WARNING` is also issued.

Return Values

The length of the specified field index on success, or `FALSE` on failure.

Examples

Example 1.28. `mysql_field_len` example

```
<?php
$result = mysql_query("SELECT id,email FROM people WHERE id = '42'");
if (!$result) {
    echo 'Could not run query: ' . mysql_error();
    exit;
}
// Will get the length of the id field as specified in the database
// schema.
$length = mysql_field_len($result, 0);
echo $length;
?>
```

Notes

Note

For backward compatibility, the following deprecated alias may be used: `mysql_fieldlen`

See Also

`mysql_fetch_lengths`
`strlen`

1.4.22. `mysql_field_name`

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- `mysql_field_name`

Get the name of the specified field in a result

Description

```
string mysql_field_name(resource result,
                        int field_offset);
```

`mysql_field_name` returns the name of the specified field index.

Parameters

result

The result resource that is being evaluated. This result comes from a call to `mysql_query`.

field_offset

The numerical field offset. The *field_offset* starts at 0. If *field_offset* does not exist, an error of level `E_WARNING` is also issued.

Return Values

The name of the specified field index on success, or `FALSE` on failure.

Examples

Example 1.29. `mysql_field_name` example

```
<?php
/* The users table consists of three fields:
 * user_id
 * username
 * password.
 */
$link = @mysql_connect('localhost', 'mysql_user', 'mysql_password');
if (!$link) {
    die('Could not connect to MySQL server: ' . mysql_error());
}
$dbname = 'mydb';
$db_selected = mysql_select_db($dbname, $link);
if (!$db_selected) {
    die("Could not set $dbname: " . mysql_error());
}
$res = mysql_query('select * from users', $link);
echo mysql_field_name($res, 0) . "\n";
echo mysql_field_name($res, 2);
?>
```

The above example will output:

```
user_id
password
```

Notes**Note**

Field names returned by this function are *case-sensitive*.

Note

For backward compatibility, the following deprecated alias may be used: `mysql_fieldname`

See Also

`mysql_field_type`
`mysql_field_len`

1.4.23. `mysql_field_seek`

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- `mysql_field_seek`

Set result pointer to a specified field offset

Description

```
bool mysql_field_seek(resource result,
                    int field_offset);
```

Seeks to the specified field offset. If the next call to `mysql_fetch_field` doesn't include a field offset, the field offset specified in `mysql_field_seek` will be returned.

Parameters

<i>result</i>	The result resource that is being evaluated. This result comes from a call to <code>mysql_query</code> .
<i>field_offset</i>	The numerical field offset. The <i>field_offset</i> starts at 0. If <i>field_offset</i> does not exist, an error of level <code>E_WARNING</code> is also issued.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

See Also

`mysql_fetch_field`

1.4.24. `mysql_field_table`

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- `mysql_field_table`

Get name of the table the specified field is in

Description

```
string mysql_field_table(resource result,
                        int field_offset);
```

Returns the name of the table that the specified field is in.

Parameters

<i>result</i>	The result resource that is being evaluated. This result comes from a call to <code>mysql_query</code> .
<i>field_offset</i>	The numerical field offset. The <i>field_offset</i> starts at 0. If <i>field_offset</i> does not exist, an error of level <code>E_WARNING</code> is also issued.

Return Values

The name of the table on success.

Examples**Example 1.30. A `mysql_field_table` example**

```
<?php
$query = "SELECT account.*, country.* FROM account, country WHERE country.name = 'Portugal' AND account.country_id = count.
// get the result from the DB
$result = mysql_query($query);
// Lists the table name and then the field name
for ($i = 0; $i < mysql_num_fields($result); ++$i) {
    $table = mysql_field_table($result, $i);
    $field = mysql_field_name($result, $i);
    echo "$table: $field\n";
}
?>
```

Notes**Note**

For backward compatibility, the following deprecated alias may be used: `mysql_fieldtable`

See Also

`mysql_list_tables`

1.4.25. `mysql_field_type`

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- `mysql_field_type`

Get the type of the specified field in a result

Description

```
string mysql_field_type(resource result,
                       int field_offset);
```

`mysql_field_type` is similar to the `mysql_field_name` function. The arguments are identical, but the field type is returned instead.

Parameters

<code>result</code>	The result resource that is being evaluated. This result comes from a call to <code>mysql_query</code> .
<code>field_offset</code>	The numerical field offset. The <code>field_offset</code> starts at 0. If <code>field_offset</code> does not exist, an error of level <code>E_WARNING</code> is also issued.

Return Values

The returned field type will be one of "int", "real", "string", "blob", and others as detailed in the [MySQL documentation](#).

Examples**Example 1.31. `mysql_field_type` example**

```
<?php
mysql_connect("localhost", "mysql_username", "mysql_password");
mysql_select_db("mysql");
$result = mysql_query("SELECT * FROM func");
$fields = mysql_num_fields($result);
$rows   = mysql_num_rows($result);
$table  = mysql_field_table($result, 0);
echo "Your '" . $table . "' table has " . $fields . " fields and " . $rows . " record(s)\n";
echo "The table has the following fields:\n";
for ($i=0; $i < $fields; $i++) {
    $type = mysql_field_type($result, $i);
    $name = mysql_field_name($result, $i);
    $len  = mysql_field_len($result, $i);
    $flags = mysql_field_flags($result, $i);
    echo $type . " " . $name . " " . $len . " " . $flags . "\n";
}
mysql_free_result($result);
mysql_close();
?>
```

The above example will output something similar to:

```
Your 'func' table has 4 fields and 1 record(s)
The table has the following fields:
string name 64 not_null primary_key binary
int ret 1 not_null
string dl 128 not_null
string type 9 not_null enum
```

Notes

Note

For backward compatibility, the following deprecated alias may be used: `mysql_fieldtype`

See Also

`mysql_field_name`
`mysql_field_len`

1.4.26. `mysql_free_result`

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- `mysql_free_result`

Free result memory

Description

```
bool mysql_free_result(resource result);
```

`mysql_free_result` will free all memory associated with the result identifier `result`.

`mysql_free_result` only needs to be called if you are concerned about how much memory is being used for queries that return large result sets. All associated result memory is automatically freed at the end of the script's execution.

Parameters

`result` The result resource that is being evaluated. This result comes from a call to `mysql_query`.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

If a non-resource is used for the `result`, an error of level `E_WARNING` will be emitted. It's worth noting that `mysql_query` only returns a resource for `SELECT`, `SHOW`, `EXPLAIN`, and `DESCRIBE` queries.

Examples

Example 1.32. A `mysql_free_result` example

```
<?php
$result = mysql_query("SELECT id,email FROM people WHERE id = '42'");
```

```
if (!$result) {
    echo 'Could not run query: ' . mysql_error();
    exit;
}
/* Use the result, assuming we're done with it afterwards */
$row = mysql_fetch_assoc($result);
/* Now we free up the result and continue on with our script */
mysql_free_result($result);
echo $row['id'];
echo $row['email'];
?>
```

Notes

Note

For backward compatibility, the following deprecated alias may be used: `mysql_freeresult`

See Also

[mysql_query](#)
[is_resource](#)

1.4.27. `mysql_get_client_info`

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- [mysql_get_client_info](#)

Get MySQL client info

Description

```
string mysql_get_client_info();
```

`mysql_get_client_info` returns a string that represents the client library version.

Return Values

The MySQL client version.

Examples

Example 1.33. `mysql_get_client_info` example

```
<?php
printf("MySQL client info: %s\n", mysql_get_client_info());
?>
```

The above example will output something similar to:

```
MySQL client info: 3.23.39
```

See Also

[mysql_get_host_info](#)
[mysql_get_proto_info](#)
[mysql_get_server_info](#)

1.4.28. [mysql_get_host_info](#)

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- [mysql_get_host_info](#)

Get MySQL host info

Description

```
string mysql_get_host_info(resource link_identifier);
```

Describes the type of connection in use for the connection, including the server host name.

Parameters

link_identifier

The MySQL connection. If the link identifier is not specified, the last link opened by [mysql_connect](#) is assumed. If no such link is found, it will try to create one as if [mysql_connect](#) was called with no arguments. If by chance no connection is found or established, an [E_WARNING](#) level error is generated.

Return Values

Returns a string describing the type of MySQL connection in use for the connection or [FALSE](#) on failure.

Examples**Example 1.34. [mysql_get_host_info](#) example**

```
<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
if (!$link) {
    die('Could not connect: ' . mysql_error());
}
printf("MySQL host info: %s\n", mysql_get_host_info());
?>
```

The above example will output something similar to:

```
MySQL host info: Localhost via UNIX socket
```

See Also

[mysql_get_client_info](#)
[mysql_get_proto_info](#)

`mysql_get_server_info`

1.4.29. `mysql_get_proto_info`

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- `mysql_get_proto_info`

Get MySQL protocol info

Description

```
int mysql_get_proto_info(resource link_identifier);
```

Retrieves the MySQL protocol.

Parameters

link_identifier

The MySQL connection. If the link identifier is not specified, the last link opened by `mysql_connect` is assumed. If no such link is found, it will try to create one as if `mysql_connect` was called with no arguments. If by chance no connection is found or established, an `E_WARNING` level error is generated.

Return Values

Returns the MySQL protocol on success, or `FALSE` on failure.

Examples

Example 1.35. `mysql_get_proto_info` example

```
<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
if (!$link) {
    die('Could not connect: ' . mysql_error());
}
printf("MySQL protocol version: %s\n", mysql_get_proto_info());
?>
```

The above example will output something similar to:

```
MySQL protocol version: 10
```

See Also

`mysql_get_client_info`
`mysql_get_host_info`
`mysql_get_server_info`

1.4.30. `mysql_get_server_info`

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- [mysql_get_server_info](#)

Get MySQL server info

Description

```
string mysql_get_server_info(resource link_identifier);
```

Retrieves the MySQL server version.

Parameters

link_identifier

The MySQL connection. If the link identifier is not specified, the last link opened by [mysql_connect](#) is assumed. If no such link is found, it will try to create one as if [mysql_connect](#) was called with no arguments. If by chance no connection is found or established, an `E_WARNING` level error is generated.

Return Values

Returns the MySQL server version on success, or `FALSE` on failure.

Examples

Example 1.36. [mysql_get_server_info](#) example

```
<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
if (!$link) {
    die('Could not connect: ' . mysql_error());
}
printf("MySQL server version: %s\n", mysql_get_server_info());
?>
```

The above example will output something similar to:

```
MySQL server version: 4.0.1-alpha
```

See Also

[mysql_get_client_info](#)
[mysql_get_host_info](#)
[mysql_get_proto_info](#)
[phpversion](#)

1.4.31. [mysql_info](#)

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- [mysql_info](#)

Get information about the most recent query

Description

```
string mysql_info(resource link_identifier);
```

Returns detailed information about the last query.

Parameters

link_identifier The MySQL connection. If the link identifier is not specified, the last link opened by `mysql_connect` is assumed. If no such link is found, it will try to create one as if `mysql_connect` was called with no arguments. If by chance no connection is found or established, an `E_WARNING` level error is generated.

Return Values

Returns information about the statement on success, or `FALSE` on failure. See the example below for which statements provide information, and what the returned value may look like. Statements that are not listed will return `FALSE`.

Examples**Example 1.37. Relevant MySQL Statements**

Statements that return string values. The numbers are only for illustrating purpose; their values will correspond to the query.

```
INSERT INTO ... SELECT ...
String format: Records: 23 Duplicates: 0 Warnings: 0
INSERT INTO ... VALUES (...),(...),(...)...
String format: Records: 37 Duplicates: 0 Warnings: 0
LOAD DATA INFILE ...
String format: Records: 42 Deleted: 0 Skipped: 0 Warnings: 0
ALTER TABLE
String format: Records: 60 Duplicates: 0 Warnings: 0
UPDATE
String format: Rows matched: 65 Changed: 65 Warnings: 0
```

Notes**Note**

`mysql_info` returns a non-`FALSE` value for the `INSERT ... VALUES` statement only if multiple value lists are specified in the statement.

See Also

`mysql_affected_rows`
`mysql_insert_id`
`mysql_stat`

1.4.32. `mysql_insert_id`

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- `mysql_insert_id`

Get the ID generated from the previous `INSERT` operation

Description

```
int mysql_insert_id(resource link_identifier);
```

Retrieves the ID generated for an AUTO_INCREMENT column by the previous INSERT query.

Parameters

link_identifier The MySQL connection. If the link identifier is not specified, the last link opened by `mysql_connect` is assumed. If no such link is found, it will try to create one as if `mysql_connect` was called with no arguments. If by chance no connection is found or established, an `E_WARNING` level error is generated.

Return Values

The ID generated for an AUTO_INCREMENT column by the previous INSERT query on success, 0 if the previous query does not generate an AUTO_INCREMENT value, or `FALSE` if no MySQL connection was established.

Examples

Example 1.38. `mysql_insert_id` example

```
<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
if (!$link) {
    die('Could not connect: ' . mysql_error());
}
mysql_select_db('mydb');
mysql_query("INSERT INTO mytable (product) values ('kossu')");
printf("Last inserted record has id %d\n", mysql_insert_id());
?>
```

Notes

Caution

`mysql_insert_id` converts the return type of the native MySQL C API function `mysql_insert_id()` to a type of `long` (named `int` in PHP). If your AUTO_INCREMENT column has a column type of `BIGINT`, the value returned by `mysql_insert_id` will be incorrect. Instead, use the internal MySQL SQL function `LAST_INSERT_ID()` in an SQL query.

Note

Because `mysql_insert_id` acts on the last performed query, be sure to call `mysql_insert_id` immediately after the query that generates the value.

Note

The value of the MySQL SQL function `LAST_INSERT_ID()` always contains the most recently generated AUTO_INCREMENT value, and is not reset between queries.

See Also

`mysql_query`
`mysql_info`

1.4.33. `mysql_list_dbs`

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- `mysql_list_dbs`

List databases available on a MySQL server

Description

```
resource mysql_list_dbs(resource link_identifier);
```

Returns a result pointer containing the databases available from the current mysql daemon.

Parameters

link_identifier The MySQL connection. If the link identifier is not specified, the last link opened by `mysql_connect` is assumed. If no such link is found, it will try to create one as if `mysql_connect` was called with no arguments. If by chance no connection is found or established, an `E_WARNING` level error is generated.

Return Values

Returns a result pointer resource on success, or `FALSE` on failure. Use the `mysql_tablename` function to traverse this result pointer, or any function for result tables, such as `mysql_fetch_array`.

Examples

Example 1.39. `mysql_list_dbs` example

```
<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
$db_list = mysql_list_dbs($link);
while ($row = mysql_fetch_object($db_list)) {
    echo $row->Database . "\n";
}
?>
```

The above example will output something similar to:

```
database1
database2
database3
```

Notes

Note

For backward compatibility, the following deprecated alias may be used: `mysql_listdbs`

See Also

`mysql_db_name`
`mysql_select_db`

1.4.34. `mysql_list_fields`

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- `mysql_list_fields`

List MySQL table fields

Description

```
resource mysql_list_fields(string database_name,
                          string table_name,
                          resource link_identifier);
```

Retrieves information about the given table name.

This function is deprecated. It is preferable to use `mysql_query` to issue a SQL `SHOW COLUMNS FROM table [LIKE 'name']` statement instead.

Parameters

<code>database_name</code>	The name of the database that's being queried.
<code>table_name</code>	The name of the table that's being queried.
<code>link_identifier</code>	The MySQL connection. If the link identifier is not specified, the last link opened by <code>mysql_connect</code> is assumed. If no such link is found, it will try to create one as if <code>mysql_connect</code> was called with no arguments. If by chance no connection is found or established, an <code>E_WARNING</code> level error is generated.

Return Values

A result pointer resource on success, or `FALSE` on failure.

The returned result can be used with `mysql_field_flags`, `mysql_field_len`, `mysql_field_name` and `mysql_field_type`.

Examples

Example 1.40. Alternate to deprecated `mysql_list_fields`

```
<?php
$result = mysql_query("SHOW COLUMNS FROM sometable");
if (!$result) {
    echo 'Could not run query: ' . mysql_error();
    exit;
}
if (mysql_num_rows($result) > 0) {
    while ($row = mysql_fetch_assoc($result)) {
        print_r($row);
    }
}
?>
```

The above example will output something similar to:

```
Array
(
    [Field] => id
    [Type] => int(7)
```

```

[Null] =>
[Key] => PRI
[Default] =>
[Extra] => auto_increment
)
Array
(
    [Field] => email
    [Type] => varchar(100)
    [Null] =>
    [Key] =>
    [Default] =>
    [Extra] =>
)

```

Notes

Note

For backward compatibility, the following deprecated alias may be used: `mysql_listfields`

See Also

`mysql_field_flags`
`mysql_info`

1.4.35. `mysql_list_processes`

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- `mysql_list_processes`

List MySQL processes

Description

```
resource mysql_list_processes(resource link_identifier);
```

Retrieves the current MySQL server threads.

Parameters

link_identifier

The MySQL connection. If the link identifier is not specified, the last link opened by `mysql_connect` is assumed. If no such link is found, it will try to create one as if `mysql_connect` was called with no arguments. If by chance no connection is found or established, an `E_WARNING` level error is generated.

Return Values

A result pointer resource on success, or `FALSE` on failure.

Examples

Example 1.41. `mysql_list_processes` example

```

<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
$result = mysql_list_processes($link);

```

```
while ($row = mysql_fetch_assoc($result)){
    printf("%s %s %s %s %s\n", $row["Id"], $row["Host"], $row["db"],
        $row["Command"], $row["Time"]);
}
mysql_free_result($result);
?>
```

The above example will output something similar to:

```
1 localhost test Processlist 0
4 localhost mysql sleep 5
```

See Also

[mysql_thread_id](#)
[mysql_stat](#)

1.4.36. [mysql_list_tables](#)

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- [mysql_list_tables](#)

List tables in a MySQL database

Description

```
resource mysql_list_tables(string database,
                           resource link_identifier);
```

Retrieves a list of table names from a MySQL database.

This function is deprecated. It is preferable to use [mysql_query](#) to issue a SQL `SHOW TABLES [FROM db_name] [LIKE 'pattern']` statement instead.

Parameters

<i>database</i>	The name of the database
<i>link_identifier</i>	The MySQL connection. If the link identifier is not specified, the last link opened by mysql_connect is assumed. If no such link is found, it will try to create one as if mysql_connect was called with no arguments. If by chance no connection is found or established, an <code>E_WARNING</code> level error is generated.

Return Values

A result pointer resource on success, or `FALSE` on failure.

Use the [mysql_tablename](#) function to traverse this result pointer, or any function for result tables, such as [mysql_fetch_array](#).

ChangeLog

Version	Description
4.3.7	This function became deprecated.

Examples

Example 1.42. `mysql_list_tables` alternative example

```
<?php
$dbname = 'mysql_dbname';
if (!mysql_connect('mysql_host', 'mysql_user', 'mysql_password')) {
    echo 'Could not connect to mysql';
    exit;
}
$sql = "SHOW TABLES FROM $dbname";
$result = mysql_query($sql);
if (!$result) {
    echo "DB Error, could not list tables\n";
    echo 'MySQL Error: ' . mysql_error();
    exit;
}
while ($row = mysql_fetch_row($result)) {
    echo "Table: {$row[0]}\n";
}
mysql_free_result($result);
?>
```

Notes

Note

For backward compatibility, the following deprecated alias may be used: `mysql_listtables`

See Also

`mysql_list_dbs`
`mysql_tablename`

1.4.37. `mysql_num_fields`

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- `mysql_num_fields`

Get number of fields in result

Description

```
int mysql_num_fields(resource result);
```

Retrieves the number of fields from a query.

Parameters

`result` The result resource that is being evaluated. This result comes from a call to `mysql_query`.

Return Values

Returns the number of fields in the result set resource on success, or **FALSE** on failure.

Examples

Example 1.43. A `mysql_num_fields` example

```
<?php
$result = mysql_query("SELECT id,email FROM people WHERE id = '42'");
if (!$result) {
    echo 'Could not run query: ' . mysql_error();
    exit;
}
/* returns 2 because id,email === two fields */
echo mysql_num_fields($result);
?>
```

Notes

Note

For backward compatibility, the following deprecated alias may be used: `mysql_numfields`

See Also

`mysql_select_db`
`mysql_query`
`mysql_fetch_field`
`mysql_num_rows`

1.4.38. `mysql_num_rows`

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- `mysql_num_rows`

Get number of rows in result

Description

```
int mysql_num_rows(resource result);
```

Retrieves the number of rows from a result set. This command is only valid for statements like `SELECT` or `SHOW` that return an actual result set. To retrieve the number of rows affected by a `INSERT`, `UPDATE`, `REPLACE` or `DELETE` query, use `mysql_affected_rows`.

Parameters

result The result resource that is being evaluated. This result comes from a call to `mysql_query`.

Return Values

The number of rows in a result set on success, or **FALSE** on failure.

Examples

Example 1.44. `mysql_num_rows` example

```
<?php
$link = mysql_connect("localhost", "mysql_user", "mysql_password");
mysql_select_db("database", $link);
$result = mysql_query("SELECT * FROM table1", $link);
$num_rows = mysql_num_rows($result);
echo "$num_rows Rows\n";
?>
```

Notes

Note

If you use `mysql_unbuffered_query`, `mysql_num_rows` will not return the correct value until all the rows in the result set have been retrieved.

Note

For backward compatibility, the following deprecated alias may be used: `mysql_numrows`

See Also

```
mysql_affected_rows
mysql_connect
mysql_data_seek
mysql_select_db
mysql_query
```

1.4.39. `mysql_pconnect`

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- `mysql_pconnect`

Open a persistent connection to a MySQL server

Description

```
resource mysql_pconnect(string server,
                        string username,
                        string password,
                        int client_flags);
```

Establishes a persistent connection to a MySQL server.

`mysql_pconnect` acts very much like `mysql_connect` with two major differences.

First, when connecting, the function would first try to find a (persistent) link that's already open with the same host, username and password. If one is found, an identifier for it will be returned instead of opening a new connection.

Second, the connection to the SQL server will not be closed when the execution of the script ends. Instead, the link will remain open for future use (`mysql_close` will not close links established by `mysql_pconnect`).

This type of link is therefore called 'persistent'.

Parameters

<code>server</code>	The MySQL server. It can also include a port number. e.g. "hostname:port" or a path to a local socket e.g. ":/path/to/socket" for the localhost. If the PHP directive <code>mysql.default_host</code> is undefined (default), then the default value is 'localhost:3306'
<code>username</code>	The username. Default value is the name of the user that owns the server process.
<code>password</code>	The password. Default value is an empty password.
<code>client_flags</code>	The <code>client_flags</code> parameter can be a combination of the following constants: 128 (enable <code>LOAD DATA LOCAL</code> handling), <code>MYSQL_CLIENT_SSL</code> , <code>MYSQL_CLIENT_COMPRESS</code> , <code>MYSQL_CLIENT_IGNORE_SPACE</code> or <code>MYSQL_CLIENT_INTERACTIVE</code> .

Return Values

Returns a MySQL persistent link identifier on success, or `FALSE` on failure.

ChangeLog

Version	Description
4.3.0	Added the <code>client_flags</code> parameter.
3.0.10	Added support for ":/path/to/socket" with <code>server</code> .
3.0.0	Added support for ":port" with <code>server</code> .

Notes**Note**

Note, that these kind of links only work if you are using a module version of PHP. See the [Persistent Database Connections](#) section for more information.

Warning

Using persistent connections can require a bit of tuning of your Apache and MySQL configurations to ensure that you do not exceed the number of connections allowed by MySQL.

Note

You can suppress the error message on failure by prepending a `@` to the function name.

See Also

`mysql_connect`
[Persistent Database Connections](#)

1.4.40. `mysql_ping`

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- `mysql_ping`

Ping a server connection or reconnect if there is no connection

Description

```
bool mysql_ping(resource link_identifier);
```

Checks whether or not the connection to the server is working. If it has gone down, an automatic reconnection is attempted. This function can be used by scripts that remain idle for a long while, to check whether or not the server has closed the connection and reconnect if necessary.

Note

Since MySQL 5.0.13, automatic reconnection feature is disabled.

Parameters

link_identifier The MySQL connection. If the link identifier is not specified, the last link opened by `mysql_connect` is assumed. If no such link is found, it will try to create one as if `mysql_connect` was called with no arguments. If by chance no connection is found or established, an `E_WARNING` level error is generated.

Return Values

Returns `TRUE` if the connection to the server MySQL server is working, otherwise `FALSE`.

Examples**Example 1.45. A `mysql_ping` example**

```
<?php
set_time_limit(0);
$conn = mysql_connect('localhost', 'mysqluser', 'mypass');
$db   = mysql_select_db('mydb');
/* Assuming this query will take a long time */
$result = mysql_query($sql);
if (!$result) {
    echo 'Query #1 failed, exiting.';
    exit;
}
/* Make sure the connection is still alive, if not, try to reconnect */
if (!mysql_ping($conn)) {
    echo 'Lost connection, exiting after query #1';
    exit;
}
mysql_free_result($result);
/* So the connection is still alive, let's run another query */
$result2 = mysql_query($sql2);
?>
```

See Also

`mysql_thread_id`
`mysql_list_processes`

1.4.41. `mysql_query`

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- `mysql_query`

Send a MySQL query

Description

```
resource mysql_query(string query,
```

```
resource link_identifier);
```

`mysql_query` sends an unique query (multiple queries are not supported) to the currently active database on the server that's associated with the specified `link_identifier`.

Parameters

<code>query</code>	A SQL query The query string should not end with a semicolon.
<code>link_identifier</code>	The MySQL connection. If the link identifier is not specified, the last link opened by <code>mysql_connect</code> is assumed. If no such link is found, it will try to create one as if <code>mysql_connect</code> was called with no arguments. If by chance no connection is found or established, an <code>E_WARNING</code> level error is generated.

Return Values

For `SELECT`, `SHOW`, `DESCRIBE`, `EXPLAIN` and other statements returning resultset, `mysql_query` returns a resource on success, or `FALSE` on error.

For other type of SQL statements, `INSERT`, `UPDATE`, `DELETE`, `DROP`, etc, `mysql_query` returns `TRUE` on success or `FALSE` on error.

The returned result resource should be passed to `mysql_fetch_array`, and other functions for dealing with result tables, to access the returned data.

Use `mysql_num_rows` to find out how many rows were returned for a `SELECT` statement or `mysql_affected_rows` to find out how many rows were affected by a `DELETE`, `INSERT`, `REPLACE`, or `UPDATE` statement.

`mysql_query` will also fail and return `FALSE` if the user does not have permission to access the table(s) referenced by the query.

Examples

Example 1.46. Invalid Query

The following query is syntactically invalid, so `mysql_query` fails and returns `FALSE`.

```
<?php
$result = mysql_query('SELECT * WHERE 1=1');
if (!$result) {
    die('Invalid query: ' . mysql_error());
}
?>
```

Example 1.47. Valid Query

The following query is valid, so `mysql_query` returns a resource.

```
<?php
// This could be supplied by a user, for example
$firstname = 'fred';
$lastname = 'fox';
// Formulate Query
// This is the best way to perform a SQL query
// For more examples, see mysql_real_escape_string()
$query = sprintf("SELECT firstname, lastname, address, age FROM friends WHERE firstname='%s' AND lastname='%s'",
    mysql_real_escape_string($firstname),
```

```

mysql_real_escape_string($lastname));
// Perform Query
$result = mysql_query($query);
// Check result
// This shows the actual query sent to MySQL, and the error. Useful for debugging.
if (!$result) {
    $message = 'Invalid query: ' . mysql_error() . "\n";
    $message .= 'Whole query: ' . $query;
    die($message);
}
// Use result
// Attempting to print $result won't allow access to information in the resource
// One of the mysql result functions must be used
// See also mysql_result(), mysql_fetch_array(), mysql_fetch_row(), etc.
while ($row = mysql_fetch_assoc($result)) {
    echo $row['firstname'];
    echo $row['lastname'];
    echo $row['address'];
    echo $row['age'];
}
// Free the resources associated with the result set
// This is done automatically at the end of the script
mysql_free_result($result);
?>

```

See Also

[mysql_connect](#)
[mysql_error](#)
[mysql_real_escape_string](#)
[mysql_result](#)
[mysql_fetch_assoc](#)
[mysql_unbuffered_query](#)

1.4.42. mysql_real_escape_string

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- [mysql_real_escape_string](#)

Escapes special characters in a string for use in a SQL statement

Description

```

string mysql_real_escape_string(string unescaped_string,
                               resource link_identifier);

```

Escapes special characters in the *unescaped_string*, taking into account the current character set of the connection so that it is safe to place it in a [mysql_query](#). If binary data is to be inserted, this function must be used.

[mysql_real_escape_string](#) calls MySQL's library function `mysql_real_escape_string`, which prepends backslashes to the following characters: `\x00`, `\n`, `\r`, `\`, `'`, `"` and `\x1a`.

This function must always (with few exceptions) be used to make data safe before sending a query to MySQL.

Parameters

unescaped_string

The string that is to be escaped.

link_identifier

The MySQL connection. If the link identifier is not specified, the last link opened by [mysql_connect](#) is assumed. If no such link is found, it will try to create one as if [mysql_connect](#) was called with no arguments. If by chance no connection is found or established, an `E_WARNING` level error is generated.

Return Values

Returns the escaped string, or `FALSE` on error.

Examples

Example 1.48. Simple `mysql_real_escape_string` example

```
<?php
// Connect
$link = mysql_connect('mysql_host', 'mysql_user', 'mysql_password')
    OR die(mysql_error());
// Query
$query = sprintf("SELECT * FROM users WHERE user='%s' AND password='%s'",
    mysql_real_escape_string($user),
    mysql_real_escape_string($password));
?>
```

Example 1.49. An example SQL Injection Attack

```
<?php
// Query database to check if there are any matching users
$query = "SELECT * FROM users WHERE user='{$_POST['username']}' AND password='{$_POST['password']}'";
mysql_query($query);
// We didn't check $_POST['password'], it could be anything the user wanted! For example:
$_POST['username'] = 'aidan';
$_POST['password'] = "' OR ''='";
// This means the query sent to MySQL would be:
echo $query;
?>
```

The query sent to MySQL:

```
SELECT * FROM users WHERE user='aidan' AND password='' OR ''=''
```

This would allow anyone to log in without a valid password.

Example 1.50. A "Best Practice" query

Using `mysql_real_escape_string` around each variable prevents SQL Injection. This example demonstrates the "best practice" method for querying a database, independent of the [Magic Quotes](#) setting.

```
<?php
if (isset($_POST['product_name']) && isset($_POST['product_description']) && isset($_POST['user_id'])) {
    // Connect
    $link = mysql_connect('mysql_host', 'mysql_user', 'mysql_password');
    if(!is_resource($link)) {
        echo "Failed to connect to the server\n";
        // ... log the error properly
    } else {
        // Reverse magic_quotes_gpc/magic_quotes_sybase effects on those vars if ON.
        if(get_magic_quotes_gpc()) {
            $product_name = stripslashes($_POST['product_name']);
            $product_description = stripslashes($_POST['product_description']);
        } else {
```

```

        $product_name      = $_POST['product_name'];
        $product_description = $_POST['product_description'];
    }
    // Make a safe query
    $query = sprintf("INSERT INTO products (`name`, `description`, `user_id`) VALUES ('%s', '%s', %d)",
        mysql_real_escape_string($product_name, $link),
        mysql_real_escape_string($product_description, $link),
        $_POST['user_id']);
    mysql_query($query, $link);
    if (mysql_affected_rows($link) > 0) {
        echo "Product inserted\n";
    }
}
} else {
    echo "Fill the form properly\n";
}
?>

```

The query will now execute correctly, and SQL Injection attacks will not work.

Notes

Note

A MySQL connection is required before using `mysql_real_escape_string` otherwise an error of level `E_WARNING` is generated, and `FALSE` is returned. If `link_identifier` isn't defined, the last MySQL connection is used.

Note

If `magic_quotes_gpc` is enabled, first apply `stripslashes` to the data. Using this function on data which has already been escaped will escape the data twice.

Note

If this function is not used to escape data, the query is vulnerable to [SQL Injection Attacks](#).

Note

`mysql_real_escape_string` does not escape `%` and `_`. These are wildcards in MySQL if combined with `LIKE`, `GRANT`, or `REVOKE`.

See Also

`mysql_client_encoding`

`addslashes`

`stripslashes`

The `magic_quotes_gpc` directive

The `magic_quotes_runtime` directive

1.4.43. `mysql_result`

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- `mysql_result`

Get result data

Description

```

string mysql_result(resource result,
                    int row,
                    mixed field);

```

Retrieves the contents of one cell from a MySQL result set.

When working on large result sets, you should consider using one of the functions that fetch an entire row (specified below). As these functions return the contents of multiple cells in one function call, they're MUCH quicker than `mysql_result`. Also, note that specifying a numeric offset for the field argument is much quicker than specifying a fieldname or tablename.fieldname argument.

Parameters

<code>result</code>	The result resource that is being evaluated. This result comes from a call to <code>mysql_query</code> .
<code>row</code>	The row number from the result that's being retrieved. Row numbers start at 0.
<code>field</code>	The name or offset of the field being retrieved. It can be the field's offset, the field's name, or the field's table dot field name (tablename.fieldname). If the column name has been aliased ('select foo as bar from...'), use the alias instead of the column name. If undefined, the first field is retrieved.

Return Values

The contents of one cell from a MySQL result set on success, or `FALSE` on failure.

Examples

Example 1.51. `mysql_result` example

```
<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
if (!$link) {
    die('Could not connect: ' . mysql_error());
}
$result = mysql_query('SELECT name FROM work.employee');
if (!$result) {
    die('Could not query: ' . mysql_error());
}
echo mysql_result($result, 2); // outputs third employee's name
mysql_close($link);
?>
```

Notes

Note

Calls to `mysql_result` should not be mixed with calls to other functions that deal with the result set.

See Also

`mysql_fetch_row`
`mysql_fetch_array`
`mysql_fetch_assoc`
`mysql_fetch_object`

1.4.44. `mysql_select_db`

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- `mysql_select_db`

Select a MySQL database

Description

```
bool mysql_select_db(string database_name,  
                    resource link_identifier);
```

Sets the current active database on the server that's associated with the specified link identifier. Every subsequent call to `mysql_query` will be made on the active database.

Parameters

<code>database_name</code>	The name of the database that is to be selected.
<code>link_identifier</code>	The MySQL connection. If the link identifier is not specified, the last link opened by <code>mysql_connect</code> is assumed. If no such link is found, it will try to create one as if <code>mysql_connect</code> was called with no arguments. If by chance no connection is found or established, an <code>E_WARNING</code> level error is generated.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Examples

Example 1.52. `mysql_select_db` example

```
<?php  
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');  
if (!$link) {  
    die('Not connected : ' . mysql_error());  
}  
// make foo the current db  
$db_selected = mysql_select_db('foo', $link);  
if (!$db_selected) {  
    die ('Can\'t use foo : ' . mysql_error());  
}  
?>
```

Notes

Note

For backward compatibility, the following deprecated alias may be used: `mysql_selectdb`

See Also

`mysql_connect`
`mysql_pconnect`
`mysql_query`

1.4.45. `mysql_set_charset`

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- `mysql_set_charset`
Sets the client character set

Description

```
bool mysql_set_charset(string charset,  
                      resource link_identifier);
```

Sets the default character set for the current connection.

Parameters

<code>charset</code>	A valid character set name.
<code>link_identifier</code>	The MySQL connection. If the link identifier is not specified, the last link opened by <code>mysql_connect</code> is assumed. If no such link is found, it will try to create one as if <code>mysql_connect</code> was called with no arguments. If by chance no connection is found or established, an <code>E_WARNING</code> level error is generated.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Notes

Note

This function requires MySQL 5.0.7 or later.

Note

This is the preferred way to change the charset. Using `mysql_query` to execute `SET NAMES . . .` is not recommended.

See Also

`mysql_client_encoding`
[List of character sets that MySQL supports](#)

1.4.46. `mysql_stat`

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- `mysql_stat`
Get current system status

Description

```
string mysql_stat(resource link_identifier);
```

`mysql_stat` returns the current server status.

Parameters

<code>link_identifier</code>	The MySQL connection. If the link identifier is not specified, the last link opened by <code>mysql_connect</code> is assumed. If no such link is found, it will try to create one as if
------------------------------	---

`mysql_connect` was called with no arguments. If by chance no connection is found or established, an `E_WARNING` level error is generated.

Return Values

Returns a string with the status for uptime, threads, queries, open tables, flush tables and queries per second. For a complete list of other status variables, you have to use the `SHOW STATUS` SQL command. If `link_identifier` is invalid, `NULL` is returned.

Examples

Example 1.53. `mysql_stat` example

```
<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
$status = explode(' ', mysql_stat($link));
print_r($status);
?>
```

The above example will output something similar to:

```
Array
(
    [0] => Uptime: 5380
    [1] => Threads: 2
    [2] => Questions: 1321299
    [3] => Slow queries: 0
    [4] => Opens: 26
    [5] => Flush tables: 1
    [6] => Open tables: 17
    [7] => Queries per second avg: 245.595
)
```

Example 1.54. Alternative `mysql_stat` example

```
<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
$result = mysql_query('SHOW VARIABLES', $link);
while ($row = mysql_fetch_assoc($result)) {
    echo $row['Variable_name'] . ' = ' . $row['Value'] . "\n";
}
?>
```

The above example will output something similar to:

```
back_log = 50
basedir = /usr/local/
bdb_cache_size = 8388600
bdb_log_buffer_size = 32768
bdb_home = /var/db/mysql/
bdb_max_lock = 10000
bdb_logdir =
bdb_shared_data = OFF
bdb_tmpdir = /var/tmp/
...
```

See Also

`mysql_get_server_info`
`mysql_list_processes`

1.4.47. `mysql_tablename`

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- `mysql_tablename`

Get table name of field

Description

```
string mysql_tablename(resource result,  
                        int i);
```

Retrieves the table name from a *result*.

This function deprecated. It is preferable to use `mysql_query` to issue a SQL `SHOW TABLES [FROM db_name] [LIKE 'pattern']` statement instead.

Parameters

<code>result</code>	A result pointer resource that's returned from <code>mysql_list_tables</code> .
<code>i</code>	The integer index (row/table number)

Return Values

The name of the table on success, or `FALSE` on failure.

Use the `mysql_tablename` function to traverse this result pointer, or any function for result tables, such as `mysql_fetch_array`.

Examples

Example 1.55. `mysql_tablename` example

```
<?php  
mysql_connect("localhost", "mysql_user", "mysql_password");  
$result = mysql_list_tables("mydb");  
$num_rows = mysql_num_rows($result);  
for ($i = 0; $i < $num_rows; $i++) {  
    echo "Table: ", mysql_tablename($result, $i), "\n";  
}  
mysql_free_result($result);  
?>
```

Notes

Note

The `mysql_num_rows` function may be used to determine the number of tables in the result pointer.

See Also

`mysql_list_tables`
`mysql_field_table`
`mysql_db_name`

1.4.48. `mysql_thread_id`

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- `mysql_thread_id`

Return the current thread ID

Description

```
int mysql_thread_id(resource link_identifier);
```

Retrieves the current thread ID. If the connection is lost, and a reconnect with `mysql_ping` is executed, the thread ID will change. This means only retrieve the thread ID when needed.

Parameters

link_identifier The MySQL connection. If the link identifier is not specified, the last link opened by `mysql_connect` is assumed. If no such link is found, it will try to create one as if `mysql_connect` was called with no arguments. If by chance no connection is found or established, an `E_WARNING` level error is generated.

Return Values

The thread ID on success, or `FALSE` on failure.

Examples**Example 1.56. `mysql_thread_id` example**

```
<?php
$link = mysql_connect('localhost', 'mysql_user', 'mysql_password');
$thread_id = mysql_thread_id($link);
if ($thread_id){
    printf("current thread id is %d\n", $thread_id);
}
?>
```

The above example will output something similar to:

```
current thread id is 73
```

See Also

`mysql_ping`

`mysql_list_processes`

1.4.49. `mysql_unbuffered_query`

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- `mysql_unbuffered_query`

Send an SQL query to MySQL, without fetching and buffering the result rows

Description

```
resource mysql_unbuffered_query(string query,  
                               resource link_identifier);
```

`mysql_unbuffered_query` sends a SQL query *query* to MySQL, without fetching and buffering the result rows automatically, as `mysql_query` does. On the one hand, this saves a considerable amount of memory with SQL queries that produce large result sets. On the other hand, you can start working on the result set immediately after the first row has been retrieved: you don't have to wait until the complete SQL query has been performed. When using multiple DB-connects, you have to specify the optional parameter *link_identifier*.

Parameters

<i>query</i>	A SQL query
<i>link_identifier</i>	The MySQL connection. If the link identifier is not specified, the last link opened by <code>mysql_connect</code> is assumed. If no such link is found, it will try to create one as if <code>mysql_connect</code> was called with no arguments. If by chance no connection is found or established, an <code>E_WARNING</code> level error is generated.

Return Values

For SELECT, SHOW, DESCRIBE or EXPLAIN statements, `mysql_unbuffered_query` returns a resource on success, or `FALSE` on error.

For other type of SQL statements, UPDATE, DELETE, DROP, etc, `mysql_unbuffered_query` returns `TRUE` on success or `FALSE` on error.

Notes

Note

The benefits of `mysql_unbuffered_query` come at a cost: You cannot use `mysql_num_rows` and `mysql_data_seek` on a result set returned from `mysql_unbuffered_query`. You also have to fetch all result rows from an unbuffered SQL query, before you can send a new SQL query to MySQL.

See Also

`mysql_query`

Chapter 2. MySQL Improved Extension (`Mysqli`)

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The `mysqli` extension allows you to access the functionality provided by MySQL 4.1 and above. More information about the MySQL Database server can be found at <http://www.mysql.com/>

Documentation for MySQL can be found at <http://dev.mysql.com/doc/>.

Parts of this documentation included from MySQL manual with permissions of MySQL AB.

2.1. Examples

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All Examples in the `MySQLi` documentation use the world database from MySQL AB. The world database can be found at <http://dev.mysql.com/get/Downloads/Manual/world.sql.gz/from/pick>

2.2. Installing/Configuring

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2.2.1. Requirements

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In order to have these functions available, you must compile PHP with support for the `mysqli` extension.

Note

The `mysqli` extension is designed to work with the version 4.1.3 or above of MySQL. For previous versions, please see the `MySQL` extension documentation.

2.2.2. Installation

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To install the `mysqli` extension for PHP, use the `--with-mysqli=mysql_config_path/mysql_config` configuration option where `mysql_config_path` represents the location of the `mysql_config` program that comes with MySQL versions greater than 4.1.

If you would like to install the `mysql` extension along with the `mysqli` extension you have to use the same client library to avoid any conflicts.

2.2.2.1. Installation on Windows Systems

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`MySQLi` is not enabled by default, so the `php_mysqli.dll` DLL must be enabled inside of `php.ini`. Also, PHP needs access to the MySQL client library. A file named `libmysql.dll` is included in the Windows PHP distribution and in order for PHP to talk to MySQL this file needs to be available to the Windows systems `PATH`. See the FAQ titled "[How do I add my PHP directory to the PATH on Windows](#)" for information on how to do this. Although copying `libmysql.dll` to the Windows system directory also works (because the system directory is by default in the system's `PATH`), it's not recommended.

As with enabling any PHP extension (such as `php_mysqli.dll`), the PHP directive `extension_dir` should be set to the directory where the PHP extensions are located. See also the [Manual Windows Installation Instructions](#). An example `extension_dir` value for PHP 5 is `c:\php\ext`

Note

If when starting the web server an error similar to the following occurs: "`Unable to load dynamic library 'c:\php_mysqli.dll'`", this is because `php_mysqli.dll` and/or `libmysql.dll` cannot be found by the system.

2.2.3. Runtime Configuration

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The behaviour of these functions is affected by settings in `php.ini`.

Table 2.1. MySQLi Configuration Options

Name	Default	Changeable	Changelog
<code>mysqli.max_links</code>	"-1"	PHP_INI_SYSTEM	Available since PHP 5.0.0.
<code>mysqli.default_port</code>	"3306"	PHP_INI_ALL	Available since PHP 5.0.0.
<code>mysqli.default_socket</code>	NULL	PHP_INI_ALL	Available since PHP 5.0.0.
<code>mysqli.default_host</code>	NULL	PHP_INI_ALL	Available since PHP 5.0.0.
<code>mysqli.default_user</code>	NULL	PHP_INI_ALL	Available since PHP 5.0.0.
<code>mysqli.default_pw</code>	NULL	PHP_INI_ALL	Available since PHP 5.0.0.

For further details and definitions of the above `PHP_INI_*` constants, see the chapter on [configuration changes](#).

Here's a short explanation of the configuration directives.

<code>mysqli.max_links</code> integer	The maximum number of MySQL connections per process.
<code>mysqli.default_port</code> string	The default TCP port number to use when connecting to the database server if no other port is specified. If no default is specified, the port will be obtained from the <code>MYSQL_TCP_PORT</code> environment variable, the <code>mysql-tcp</code> entry in <code>/etc/services</code> or the compile-time <code>MYSQL_PORT</code> constant, in that order. Win32 will only use the <code>MYSQL_PORT</code> constant.
<code>mysqli.default_socket</code> string	The default socket name to use when connecting to a local database server if no other socket name is specified.
<code>mysqli.default_host</code> string	The default server host to use when connecting to the database server if no other host is specified. Doesn't apply in safe mode .
<code>mysqli.default_user</code> string	The default user name to use when connecting to the database server if no other name is specified. Doesn't apply in safe mode .
<code>mysqli.default_pw</code> string	The default password to use when connecting to the database server if no other password is specified. Doesn't apply in safe mode .

2.2.4. Resource Types

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This extension has no resource types defined.

2.3. Predefined Constants

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<code>MYSQLI_READ_DEFAULT_GROUP</code>	Read options from the named group from <code>my.cnf</code> or the file specified with <code>MYSQLI_READ_DEFAULT_FILE</code>
<code>MYSQLI_READ_DEFAULT_FILE</code>	Read options from the named option file instead of from <code>my.cnf</code>
<code>MYSQLI_OPT_CONNECT_TIMEOUT</code>	Connect timeout in seconds

<code>MYSQLI_OPT_LOCAL_INFILE</code>	Enables command <code>LOAD LOCAL INFILE</code>
<code>MYSQLI_INIT_COMMAND</code>	Command to execute when connecting to MySQL server. Will automatically be re-executed when reconnecting.
<code>MYSQLI_CLIENT_SSL</code>	Use SSL (encrypted protocol). This option should not be set by application programs; it is set internally in the MySQL client library
<code>MYSQLI_CLIENT_COMPRESS</code>	Use compression protocol
<code>MYSQLI_CLIENT_INTERACTIVE</code>	Allow <code>interactive_timeout</code> seconds (instead of <code>wait_timeout</code> seconds) of inactivity before closing the connection. The client's session <code>wait_timeout</code> variable will be set to the value of the session <code>interactive_timeout</code> variable.
<code>MYSQLI_CLIENT_IGNORE_SPACE</code>	Allow spaces after function names. Makes all functions names reserved words.
<code>MYSQLI_CLIENT_NO_SCHEMA</code>	Don't allow the <code>db_name.tbl_name.col_name</code> syntax.
<code>MYSQLI_CLIENT_MULTI_QUERIES</code>	Allows multiple semicolon-delimited queries in a single <code>mysqli_query</code> call.
<code>MYSQLI_STORE_RESULT</code>	For using buffered resultsets
<code>MYSQLI_USE_RESULT</code>	For using unbuffered resultsets
<code>MYSQLI_ASSOC</code>	Columns are returned into the array having the fieldname as the array index.
<code>MYSQLI_NUM</code>	Columns are returned into the array having an enumerated index.
<code>MYSQLI_BOTH</code>	Columns are returned into the array having both a numerical index and the fieldname as the associative index.
<code>MYSQLI_NOT_NULL_FLAG</code>	Indicates that a field is defined as <code>NOT NULL</code>
<code>MYSQLI_PRI_KEY_FLAG</code>	Field is part of a primary index
<code>MYSQLI_UNIQUE_KEY_FLAG</code>	Field is part of a unique index.
<code>MYSQLI_MULTIPLE_KEY_FLAG</code>	Field is part of an index.
<code>MYSQLI_BLOB_FLAG</code>	Field is defined as <code>BLOB</code>
<code>MYSQLI_UNSIGNED_FLAG</code>	Field is defined as <code>UNSIGNED</code>
<code>MYSQLI_ZEROFILL_FLAG</code>	Field is defined as <code>ZEROFILL</code>
<code>MYSQLI_AUTO_INCREMENT_FLAG</code>	Field is defined as <code>AUTO_INCREMENT</code>
<code>MYSQLI_TIMESTAMP_FLAG</code>	Field is defined as <code>TIMESTAMP</code>
<code>MYSQLI_SET_FLAG</code>	Field is defined as <code>SET</code>
<code>MYSQLI_NUM_FLAG</code>	Field is defined as <code>NUMERIC</code>
<code>MYSQLI_PART_KEY_FLAG</code>	Field is part of an multi-index
<code>MYSQLI_GROUP_FLAG</code>	Field is part of <code>GROUP BY</code>
<code>MYSQLI_TYPE_DECIMAL</code>	Field is defined as <code>DECIMAL</code>
<code>MYSQLI_TYPE_NEWDECIMAL</code>	Precision math <code>DECIMAL</code> or <code>NUMERIC</code> field (MySQL 5.0.3 and up)
<code>MYSQLI_TYPE_BIT</code>	Field is defined as <code>BIT</code> (MySQL 5.0.3 and up)
<code>MYSQLI_TYPE_TINY</code>	Field is defined as <code>TINYINT</code>
<code>MYSQLI_TYPE_SHORT</code>	Field is defined as <code>INT</code>

<code>MYSQLI_TYPE_LONG</code>	Field is defined as <code>INT</code>
<code>MYSQLI_TYPE_FLOAT</code>	Field is defined as <code>FLOAT</code>
<code>MYSQLI_TYPE_DOUBLE</code>	Field is defined as <code>DOUBLE</code>
<code>MYSQLI_TYPE_NULL</code>	Field is defined as <code>DEFAULT NULL</code>
<code>MYSQLI_TYPE_TIMESTAMP</code>	Field is defined as <code>TIMESTAMP</code>
<code>MYSQLI_TYPE_LONGLONG</code>	Field is defined as <code>BIGINT</code>
<code>MYSQLI_TYPE_INT24</code>	Field is defined as <code>MEDIUMINT</code>
<code>MYSQLI_TYPE_DATE</code>	Field is defined as <code>DATE</code>
<code>MYSQLI_TYPE_TIME</code>	Field is defined as <code>TIME</code>
<code>MYSQLI_TYPE_DATETIME</code>	Field is defined as <code>DATETIME</code>
<code>MYSQLI_TYPE_YEAR</code>	Field is defined as <code>YEAR</code>
<code>MYSQLI_TYPE_NEWDATE</code>	Field is defined as <code>DATE</code>
<code>MYSQLI_TYPE_ENUM</code>	Field is defined as <code>ENUM</code>
<code>MYSQLI_TYPE_SET</code>	Field is defined as <code>SET</code>
<code>MYSQLI_TYPE_TINY_BLOB</code>	Field is defined as <code>TINYBLOB</code>
<code>MYSQLI_TYPE_MEDIUM_BLOB</code>	Field is defined as <code>MEDIUMBLOB</code>
<code>MYSQLI_TYPE_LONG_BLOB</code>	Field is defined as <code>LOB</code>
<code>MYSQLI_TYPE_BLOB</code>	Field is defined as <code>BLOB</code>
<code>MYSQLI_TYPE_VAR_STRING</code>	Field is defined as <code>VARCHAR</code>
<code>MYSQLI_TYPE_STRING</code>	Field is defined as <code>CHAR</code>
<code>MYSQLI_TYPE_GEOMETRY</code>	Field is defined as <code>GEOMETRY</code>
<code>MYSQLI_NEED_DATA</code>	More data available for bind variable
<code>MYSQLI_NO_DATA</code>	No more data available for bind variable
<code>MYSQLI_DATA_TRUNCATED</code>	Data truncation occurred. Available since PHP 5.1.0 and MySQL 5.0.5.

2.4. The `MySQLi` class (`MySQLi`)

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Represents a connection between PHP and a MySQL database.

```
MySQLi {
    MySQLi
        Properties

    int affected_rows ;

    string connect_errno ;

    string connect_error ;

    int errno ;
```

```
string error ;

int field_count ;

string host_info ;

string protocol_version ;

string server_info ;

int server_version ;

string info ;

int insert_id ;

string sqlstate ;

int thread_id ;

int warning_count ;

Methods

int mysqli_affected_rows(mysqli link);

bool mysqli::autocommit(bool mode);

bool mysqli::change_user(string user,
                        string password,
                        string database);

string mysqli::character_set_name();

bool mysqli::close();

bool mysqli::commit();

int mysqli_connect_errno();

string mysqli_connect_error();

mysqli mysqli_connect(string host,
                    string username,
                    string passwd,
                    string dbname,
                    int port,
                    string socket);

bool mysqli::debug(string message);

bool mysqli::dump_debug_info();

int mysqli_errno(mysqli link);

string mysqli_error(mysqli link);

int mysqli_field_count(mysqli link);
```

```
object mysqli::get_charset();

string mysqli::get_client_info();

int mysqli::get_client_version();

string mysqli_get_host_info(mysqli link);

int mysqli_get_proto_info(mysqli link);

string mysqli_get_server_info(mysqli link);

int mysqli_get_server_version(mysqli link);

object mysqli::get_warnings();

string mysqli_info(mysqli link);

mysqli init();

int mysqli_insert_id(mysqli link);

bool mysqli::kill(int processid);

bool mysqli::more_results();

bool mysqli::multi_query(string query);

bool mysqli::next_result();

bool mysqli::options(int option,
                    mixed value);

bool mysqli::ping();

mysqli_stmt prepare(string query);

mixed mysqli::query(string query,
                   int resultmode);

bool mysqli::real_connect(string host,
                        string username,
                        string passwd,
                        string dbname,
                        int port,
                        string socket,
                        int flags);

string mysqli::escape_string(string escapestr);

bool real_query(string query);

bool mysqli::rollback();

bool mysqli::select_db(string dbname);

bool mysqli::set_charset(string charset);
```

```
void mysqli_set_local_infile_default(mysqli link);

bool mysqli_set_local_infile_handler(mysqli link,
                                     callback read_func);

string mysqli_sqlstate(mysqli link);

bool mysqli::ssl_set(string key,
                   string cert,
                   string ca,
                   string capath,
                   string cipher);

string mysqli::stat();

mysqli_stmt stmt_init();

mysqli_result store_result();

int mysqli_thread_id(mysqli link);

bool mysqli_thread_safe();

mysqli_result use_result();

int mysqli_warning_count(mysqli link);
}
```

2.4.1. [mysqli->affected_rows](#), [mysqli_affected_rows](#)

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- [mysqli->affected_rows](#)
[mysqli_affected_rows](#)
Gets the number of affected rows in a previous MySQL operation

Description

Object oriented style (property):

```
mysqli {
    int affected_rows ;
}
```

Procedural style:

```
int mysqli_affected_rows(mysqli link);
```

Returns the number of rows affected by the last [INSERT](#), [UPDATE](#), [REPLACE](#) or [DELETE](#) query.

For [SELECT](#) statements [mysqli_affected_rows](#) works like [mysqli_num_rows](#).

Parameters

[link](#)Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

Return Values

An integer greater than zero indicates the number of rows affected or retrieved. Zero indicates that no records were updated for an UPDATE statement, no rows matched the [WHERE](#) clause in the query or that no query has yet been executed. -1 indicates that the query returned an error.

Note

If the number of affected rows is greater than maximal int value, the number of affected rows will be returned as a string.

Examples

Example 2.1. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* Insert rows */
$mysqli->query("CREATE TABLE Language SELECT * from CountryLanguage");
printf("Affected rows (INSERT): %d\n", $mysqli->affected_rows);
$mysqli->query("ALTER TABLE Language ADD Status int default 0");
/* update rows */
$mysqli->query("UPDATE Language SET Status=1 WHERE Percentage > 50");
printf("Affected rows (UPDATE): %d\n", $mysqli->affected_rows);
/* delete rows */
$mysqli->query("DELETE FROM Language WHERE Percentage < 50");
printf("Affected rows (DELETE): %d\n", $mysqli->affected_rows);
/* select all rows */
$result = $mysqli->query("SELECT CountryCode FROM Language");
printf("Affected rows (SELECT): %d\n", $mysqli->affected_rows);
$result->close();
/* Delete table Language */
$mysqli->query("DROP TABLE Language");
/* close connection */
$mysqli->close();
?>
```

Example 2.2. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
if (!$link) {
    printf("Can't connect to localhost. Error: %s\n", mysqli_connect_error());
    exit();
}
/* Insert rows */
mysqli_query($link, "CREATE TABLE Language SELECT * from CountryLanguage");
printf("Affected rows (INSERT): %d\n", mysqli_affected_rows($link));
mysqli_query($link, "ALTER TABLE Language ADD Status int default 0");
/* update rows */
mysqli_query($link, "UPDATE Language SET Status=1 WHERE Percentage > 50");
printf("Affected rows (UPDATE): %d\n", mysqli_affected_rows($link));
/* delete rows */
mysqli_query($link, "DELETE FROM Language WHERE Percentage < 50");
printf("Affected rows (DELETE): %d\n", mysqli_affected_rows($link));
/* select all rows */
$result = mysqli_query($link, "SELECT CountryCode FROM Language");
printf("Affected rows (SELECT): %d\n", mysqli_affected_rows($link));
mysqli_free_result($result);
/* Delete table Language */
mysqli_query($link, "DROP TABLE Language");
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Affected rows (INSERT): 984
Affected rows (UPDATE): 168
Affected rows (DELETE): 815
Affected rows (SELECT): 169
```

See Also

`mysqli_num_rows`
`mysqli_info`

2.4.2. `mysqli::autocommit`, `mysqli_autocommit`

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- `mysqli::autocommit`
`mysqli_autocommit`

Turns on or off auto-committing database modifications

Description

Object oriented style (method)

```
bool mysqli::autocommit(bool mode);
```

Procedural style:

```
bool mysqli_autocommit(mysqli link,
                        bool mode);
```

Turns on or off auto-commit mode on queries for the database connection.

To determine the current state of autocommit use the SQL command `SELECT @@autocommit`.

Parameters

link Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`
mode Whether to turn on auto-commit or not.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Notes

Note

This function doesn't work with non transactional table types (like MyISAM or ISAM).

Examples

Example 2.3. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* turn autocommit on */
$mysqli->autocommit(TRUE);
if ($result = $mysqli->query("SELECT @@autocommit")) {
    $row = $result->fetch_row();
    printf("Autocommit is %s\n", $row[0]);
    $result->free();
}
/* close connection */
$mysqli->close();
?>
```

Example 2.4. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
if (!$link) {
    printf("Can't connect to localhost. Error: %s\n", mysqli_connect_error());
    exit();
}
/* turn autocommit on */
mysqli_autocommit($link, TRUE);
if ($result = mysqli_query($link, "SELECT @@autocommit")) {
    $row = mysqli_fetch_row($result);
    printf("Autocommit is %s\n", $row[0]);
    mysqli_free_result($result);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Autocommit is 1
```

See Also

[mysqli_commit](#)
[mysqli_rollback](#)

2.4.3. [mysqli::change_user](#), [mysqli_change_user](#)

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- [mysqli::change_user](#)
[mysqli_change_user](#)

Changes the user of the specified database connection

Description

Object oriented style (method):

```
bool mysqli::change_user(string user,
                        string password,
                        string database);
```

Procedural style:

```
bool mysqli_change_user(mysqli link,
                        string user,
                        string password,
                        string database);
```

Changes the user of the specified database connection and sets the current database.

In order to successfully change users a valid *username* and *password* parameters must be provided and that user must have sufficient permissions to access the desired database. If for any reason authorization fails, the current user authentication will remain.

Parameters

link Procedural style only: A link identifier returned by *mysqli_connect* or *mysqli_init*

user The MySQL user name.

password The MySQL password.

database The database to change to.

If desired, the *NULL* value may be passed resulting in only changing the user and not selecting a database. To select a database in this case use the *mysqli_select_db* function.

Return Values

Returns *TRUE* on success or *FALSE* on failure.

Notes

Note

Using this command will always cause the current database connection to behave as if was a completely new database connection, regardless of if the operation was completed successfully. This reset includes performing a rollback on any active transactions, closing all temporary tables, and unlocking all locked tables.

Examples

Example 2.5. Object oriented style

```
<?php
/* connect database test */
$mysqli = new mysqli("localhost", "my_user", "my_password", "test");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* Set Variable a */
$mysqli->query("SET @a:=1");
/* reset all and select a new database */
$mysqli->change_user("my_user", "my_password", "world");
if ($result = $mysqli->query("SELECT DATABASE())) {
    $row = $result->fetch_row();
    printf("Default database: %s\n", $row[0]);
    $result->close();
}
if ($result = $mysqli->query("SELECT @a")) {
    $row = $result->fetch_row();
    if ($row[0] === NULL) {
        printf("Value of variable a is NULL\n");
    }
    $result->close();
}
```

```

}
/* close connection */
mysqli->close();
?>

```

Example 2.6. Procedural style

```

<?php
/* connect database test */
$link = mysqli_connect("localhost", "my_user", "my_password", "test");
/* check connection */
if (!$link) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* Set Variable a */
mysqli_query($link, "SET @a:=1");
/* reset all and select a new database */
mysqli_change_user($link, "my_user", "my_password", "world");
if ($result = mysqli_query($link, "SELECT DATABASE()")) {
    $row = mysqli_fetch_row($result);
    printf("Default database: %s\n", $row[0]);
    mysqli_free_result($result);
}
if ($result = mysqli_query($link, "SELECT @a")) {
    $row = mysqli_fetch_row($result);
    if ($row[0] === NULL) {
        printf("Value of variable a is NULL\n");
    }
    mysqli_free_result($result);
}
/* close connection */
mysqli_close($link);
?>

```

The above example will output:

```

Default database: world
Value of variable a is NULL

```

See Also

[mysqli_connect](#)
[mysqli_select_db](#)

2.4.4. [mysqli::character_set_name](#), [mysqli_character_set_name](#)

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- [mysqli::character_set_name](#)
[mysqli_character_set_name](#)

Returns the default character set for the database connection

Description

Object oriented style (method):

```
string mysqli::character_set_name();
```

Procedural style:

```
string mysqli_character_set_name(mysqli link);
```

Returns the current character set for the database connection.

Parameters

link

Procedural style only: A link identifier returned by [mysqli_connect](#) or [mysqli_init](#)

Return Values

The default character set for the current connection

Examples

Example 2.7. Object oriented style

```
<?php
/* Open a connection */
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* Print current character set */
$charset = $mysqli->character_set_name();
printf ("Current character set is %s\n", $charset);
$mysqli->close();
?>
```

Example 2.8. Procedural style

```
<?php
/* Open a connection */
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (!$link) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* Print current character set */
$charset = mysqli_character_set_name($link);
printf ("Current character set is %s\n", $charset);
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Current character set is latin1_swedish_ci
```

See Also

[mysqli_client_encoding](#)
[mysqli_real_escape_string](#)

2.4.5. [mysqli::close](#), [mysqli_close](#)

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- [mysqli::close](#)
[mysqli_close](#)

Closes a previously opened database connection

Description

Object oriented style (method):

```
bool mysqli::close();
```

Procedural style:

```
bool mysqli_close(mysqli link);
```

Closes a previously opened database connection.

Parameters

link Procedural style only: A link identifier returned by [mysqli_connect](#) or [mysqli_init](#)

Return Values

Returns [TRUE](#) on success or [FALSE](#) on failure.

See Also

[mysqli_connect](#)
[mysqli_init](#)
[mysqli_real_connect](#)

2.4.6. [mysqli::commit](#), [mysqli_commit](#)

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- [mysqli::commit](#)
[mysqli_commit](#)

Commits the current transaction

Description

Object oriented style (method)

```
bool mysqli::commit();
```

Procedural style:

```
bool mysqli_commit(mysqli link);
```

Commits the current transaction for the database connection.

Parameters

link Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Examples

Example 2.9. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$mysqli->query("CREATE TABLE Language LIKE CountryLanguage Type=InnoDB");
/* set autocommit to off */
$mysqli->autocommit(FALSE);
/* Insert some values */
$mysqli->query("INSERT INTO Language VALUES ('DEU', 'Bavarian', 'F', 11.2)");
$mysqli->query("INSERT INTO Language VALUES ('DEU', 'Swabian', 'F', 9.4)");
/* commit transaction */
$mysqli->commit();
/* drop table */
$mysqli->query("DROP TABLE Language");
/* close connection */
$mysqli->close();
?>
```

Example 2.10. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "test");
/* check connection */
if (!$link) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* set autocommit to off */
mysqli_autocommit($link, FALSE);
mysqli_query($link, "CREATE TABLE Language LIKE CountryLanguage Type=InnoDB");
/* Insert some values */
mysqli_query($link, "INSERT INTO Language VALUES ('DEU', 'Bavarian', 'F', 11.2)");
mysqli_query($link, "INSERT INTO Language VALUES ('DEU', 'Swabian', 'F', 9.4)");
/* commit transaction */
mysqli_commit($link);
/* close connection */
mysqli_close($link);
?>
```

See Also

```
mysqli_autocommit  
mysqli_rollback
```

2.4.7. [mysqli->connect_errno](#), [mysqli_connect_errno](#)

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- [mysqli->connect_errno](#)
[mysqli_connect_errno](#)

Returns the error code from last connect call

Description

```
mysqli {  
    string connect_errno ;  
}
```

```
int mysqli_connect_errno();
```

Returns the last error code number from the last call to [mysqli_connect](#).

Note

Client error message numbers are listed in the MySQL [errmsg.h](#) header file, server error message numbers are listed in [mysqld_error.h](#). In the MySQL source distribution you can find a complete list of error messages and error numbers in the file [Docs/mysqld_error.txt](#).

Return Values

An error code value for the last call to [mysqli_connect](#), if it failed. zero means no error occurred.

Examples

Example 2.11. [mysqli_connect_errno](#) example

```
<?php  
$link = @mysqli_connect("localhost", "nonexisting_user", "");  
if (!$link) {  
    printf("Can't connect to localhost. Errorcode: %d\n", mysqli_connect_errno());  
}  
?>
```

See Also

```
mysqli_connect  
mysqli_connect_error  
mysqli_errno  
mysqli_error  
mysqli_sqlstate
```

2.4.8. [mysqli->connect_error](#), [mysqli_connect_error](#)

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- [mysqli->connect_error](#)
[mysqli_connect_error](#)

Returns a string description of the last connect error

Description

```
mysqli {  
    string connect_error ;  
}
```

```
string mysqli_connect_error();
```

Returns the last error message string from the last call to [mysqli_connect](#).

Return Values

A string that describes the error. An empty string if no error occurred.

Examples

Example 2.12. [mysqli_connect_error](#) example

```
<?php  
$link = @mysqli_connect("localhost", "nonexisting_user", "");  
if (!$link) {  
    printf("Can't connect to localhost. Error: %s\n", mysqli_connect_error());  
}  
?>
```

See Also

[mysqli_connect](#)
[mysqli_connect_errno](#)
[mysqli_errno](#)
[mysqli_error](#)
[mysqli_sqlstate](#)

2.4.9. [mysqli::__construct](#), [mysqli_connect](#)

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- [mysqli::__construct](#)
[mysqli_connect](#)

Open a new connection to the MySQL server

Description

Object oriented style (constructor):

```
mysqli::__construct(string host,  
                    string username,  
                    string passwd,
```

```
string dbname,
int port,
string socket);
```

Procedural style

```
mysqli mysqli_connect(string host,
string username,
string passwd,
string dbname,
int port,
string socket);
```

Opens a connection to the MySQL Server running on.

Parameters

<i>host</i>	Can be either a host name or an IP address. Passing the <code>NULL</code> value or the string "localhost" to this parameter, the local host is assumed. When possible, pipes will be used instead of the TCP/IP protocol.
<i>username</i>	The MySQL user name.
<i>passwd</i>	If not provided or <code>NULL</code> , the MySQL server will attempt to authenticate the user against those user records which have no password only. This allows one username to be used with different permissions (depending on if a password as provided or not).
<i>dbname</i>	If provided will specify the default database to be used when performing queries.
<i>port</i>	Specifies the port number to attempt to connect to the MySQL server.
<i>socket</i>	Specifies the socket or named pipe that should be used.

Note

Specifying the *socket* parameter will not explicitly determine the type of connection to be used when connecting to the MySQL server. How the connection is made to the MySQL database is determined by the *host* parameter.

Return Values

Returns a object which represents the connection to a MySQL Server.

Examples

Example 2.13. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if ($mysqli->connect_error) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
printf("Host information: %s\n", $mysqli->host_info);
/* close connection */
$mysqli->close();
?>
```

Example 2.14. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (!$link) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
printf("Host information: %s\n", mysqli_get_host_info($link));
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Host information: Localhost via UNIX socket
```

Notes

Note

OO syntax only: If a connection fails an object is still returned. To check if the connection failed then use the [mysqli->connect_error](#) property like in the examples above.

Note

Error "Can't create TCP/IP socket (10106)" usually means that the [variables_order](#) configure directive doesn't contain character **E**. On Windows, if the environment is not copied the [SYSTEMROOT](#) environment variable won't be available and PHP will have problems loading Winsock.

2.4.10. [mysqli::debug](#), [mysqli_debug](#)

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- [mysqli::debug](#)

[mysqli_debug](#)

Performs debugging operations

Description

Object oriented style (method):

```
bool mysqli::debug(string message);
```

Procedural style:

```
bool mysqli_debug(string message);
```

Performs debugging operations using the Fred Fish debugging library.

Parameters

message

A string representing the debugging operation to perform

Return Values

Returns [TRUE](#) .

Notes

Note

To use the [mysqli_debug](#) function you must compile the MySQL client library to support debugging.

Examples

Example 2.15. Generating a Trace File

```
<?php
/* Create a trace file in '/tmp/client.trace' on the local (client) machine: */
mysqli_debug("d:t:0,/tmp/client.trace");
?>
```

See Also

[mysqli_dump_debug_info](#)
[mysqli_report](#)

2.4.11. [mysqli::dump_debug_info](#), [mysqli_dump_debug_info](#)

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- [mysqli::dump_debug_info](#)
[mysqli_dump_debug_info](#)

Dump debugging information into the log

Description

Object oriented style (method):

```
bool mysqli::dump_debug_info();
```

Procedural style:

```
bool mysqli_dump_debug_info(mysqli link);
```

This function is designed to be executed by an user with the SUPER privilege and is used to dump debugging information into the log for the MySQL Server relating to the connection.

Parameters

[link](#) Procedural style only: A link identifier returned by [mysqli_connect](#) or [mysqli_init](#)

Return Values

Returns [TRUE](#) on success or [FALSE](#) on failure.

See Also

[mysqli_debug](#)

2.4.12. [mysqli->errno](#), [mysqli_errno](#)

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- [mysqli->errno](#)

[mysqli_errno](#)

Returns the error code for the most recent function call

Description

Object oriented style (property):

```
mysqli {
    int errno ;
}
```

Procedural style:

```
int mysqli_errno(mysqli link);
```

Returns the last error code for the most recent MySQLi function call that can succeed or fail.

Client error message numbers are listed in the MySQL [errmsg.h](#) header file, server error message numbers are listed in [mysqld_error.h](#). In the MySQL source distribution you can find a complete list of error messages and error numbers in the file [Docs/mysqld_error.txt](#).

Parameters

link

Procedural style only: A link identifier returned by [mysqli_connect](#) or [mysqli_init](#)

Return Values

An error code value for the last call, if it failed. zero means no error occurred.

Examples

Example 2.16. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
if (!$mysqli->query("SET a=1")) {
    printf("Errorcode: %d\n", $mysqli->errno);
}
/* close connection */
$mysqli->close();
?>
```

Example 2.17. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
if (!mysqli_query($link, "SET a=1")) {
    printf("Errorcode: %d\n", mysqli_errno($link));
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Errorcode: 1193
```

See Also

```
mysqli_connect_errno
mysqli_connect_error
mysqli_error
mysqli_sqlstate
```

2.4.13. [mysqli->error](#), [mysqli_error](#)

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- [mysqli->error](#)
[mysqli_error](#)

Returns a string description of the last error

Description

Object oriented style (property):

```
mysqli {
    string error ;
}
```

Procedural style:

```
string mysqli_error(mysqli link);
```

Returns the last error message for the most recent MySQLi function call that can succeed or fail.

Parameters

[link](#)

Procedural style only: A link identifier returned by [mysqli_connect](#) or [mysqli_init](#)

Return Values

A string that describes the error. An empty string if no error occurred.

Examples

Example 2.18. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
if (!$mysqli->query("SET a=1")) {
    printf("Errormessage: %s\n", $mysqli->error);
}
/* close connection */
$mysqli->close();
?>
```

Example 2.19. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
if (!mysqli_query($link, "SET a=1")) {
    printf("Errormessage: %s\n", mysqli_error($link));
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Errormessage: Unknown system variable 'a'
```

See Also

```
mysqli_connect_errno
mysqli_connect_error
mysqli_errno
mysqli_sqlstate
```

2.4.14. `mysqli->field_count`, `mysqli_field_count`

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- `mysqli->field_count`
`mysqli_field_count`

Returns the number of columns for the most recent query

Description

Object oriented style (property):

```
mysqli_result {
    int field_count ;
}
```

Procedural style:

```
int mysqli_field_count(mysqli link);
```

Returns the number of columns for the most recent query on the connection represented by the *link* parameter. This function can be useful when using the *mysqli_store_result* function to determine if the query should have produced a non-empty result set or not without knowing the nature of the query.

Parameters

link Procedural style only: A link identifier returned by *mysqli_connect* or *mysqli_init*

Return Values

An integer representing the number of fields in a result set.

Examples

Example 2.20. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "test");
$mysqli->query("DROP TABLE IF EXISTS friends");
$mysqli->query("CREATE TABLE friends (id int, name varchar(20))");
$mysqli->query("INSERT INTO friends VALUES (1,'Hartmut'), (2, 'Ulf')");
$mysqli->real_query("SELECT * FROM friends");
if ($mysqli->field_count) {
    /* this was a select/show or describe query */
    $result = $mysqli->store_result();
    /* process resultset */
    $row = $result->fetch_row();
    /* free resultset */
    $result->close();
}
/* close connection */
$mysqli->close();
?>
```

Example 2.21. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "test");
mysqli_query($link, "DROP TABLE IF EXISTS friends");
mysqli_query($link, "CREATE TABLE friends (id int, name varchar(20))");
mysqli_query($link, "INSERT INTO friends VALUES (1,'Hartmut'), (2, 'Ulf')");
mysqli_real_query($link, "SELECT * FROM friends");
if (mysqli_field_count($link)) {
    /* this was a select/show or describe query */
```

```

$result = mysqli_store_result($link);
/* process resultset */
$row = mysqli_fetch_row($result);
/* free resultset */
mysqli_free_result($result);
}
/* close connection */
mysqli_close($link);
?>

```

2.4.15. [mysqli::get_charset](#), [mysqli_get_charset](#)

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- [mysqli::get_charset](#)
[mysqli_get_charset](#)
Returns a character set object

Description

```
object mysqli::get_charset();
```

```
object mysqli_get_charset(mysqli link);
```

Returns a character set object providing several properties of the current active character set.

Parameters

link Procedural style only: A link identifier returned by [mysqli_connect](#) or [mysqli_init](#)

Return Values

The function returns a character set object with the following properties:

<i>charset</i>	Character set name
<i>collation</i>	Collation name
<i>dir</i>	Directory the charset description was fetched from (?) or "" for builtin character sets
<i>min_length</i>	Minimum character length in bytes
<i>max_length</i>	Maximum character length in bytes
<i>number</i>	Internal character set number
<i>state</i>	Character set status (?)

Examples

Example 2.22. Object oriented style

```

<?php
$db = mysqli_init();
$db->real_connect("localhost", "root", "", "test");

```

```
var_dump($db->get_charset());  
?>
```

Example 2.23. Procedural style

```
<?php  
$db = mysqli_init();  
mysqli_real_connect($db, "localhost", "root", "", "test");  
var_dump($db->get_charset());  
?>
```

The above example will output:

```
object(stdClass)#2 (7) {  
  ["charset"]=>  
  string(6) "latin1"  
  ["collation"]=>  
  string(17) "latin1_swedish_ci"  
  ["dir"]=>  
  string(0) ""  
  ["min_length"]=>  
  int(1)  
  ["max_length"]=>  
  int(1)  
  ["number"]=>  
  int(8)  
  ["state"]=>  
  int(801)  
}
```

See Also

[mysqli_characters_set_name](#)
[mysqli_set_charset](#)

2.4.16. [mysqli::get_client_info](#), [mysqli_get_client_info](#)

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- [mysqli::get_client_info](#)
[mysqli_get_client_info](#)

Returns the MySQL client version as a string

Description

```
string mysqli::get_client_info();
```

```
string mysqli_get_client_info();
```

The [mysqli_get_client_info](#) function is used to return a string representing the client version being used in the MySQLi extension.

Return Values

A string that represents the MySQL client library version

Examples

Example 2.24. `mysqli_get_client_info`

```
<?php
/* We don't need a connection to determine
   the version of mysql client library */
printf("Client library version: %s\n", mysqli_get_client_info());
?>
```

See Also

[mysqli_get_client_version](#)
[mysqli_get_server_info](#)
[mysqli_get_server_version](#)

2.4.17. [mysqli::get_client_version](#), [mysqli_get_client_version](#)

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- [mysqli::get_client_version](#)

[mysqli_get_client_version](#)

Get MySQL client info

Description

```
int mysqli::get_client_version();
```

```
int mysqli_get_client_version();
```

Returns client version number as an integer.

Return Values

A number that represents the MySQL client library version in format: `main_version*10000 + minor_version *100 + sub_version`. For example, 4.1.0 is returned as 40100.

This is useful to quickly determine the version of the client library to know if some capability exists.

Examples

Example 2.25. `mysqli_get_client_version`

```
<?php
/* We don't need a connection to determine
   the version of mysql client library */
printf("Client library version: %d\n", mysqli_get_client_version());
?>
```

See Also

[mysqli_get_client_info](#)
[mysqli_get_server_info](#)
[mysqli_get_server_version](#)

2.4.18. [mysqli->host_info](#), [mysqli_get_host_info](#)

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- [mysqli->host_info](#)
[mysqli_get_host_info](#)

Returns a string representing the type of connection used

Description

Object oriented style (property):

```
mysqli {  
    string host_info ;  
}
```

Procdural style:

```
string mysqli_get_host_info(mysqli link);
```

The [mysqli_get_host_info](#) function returns a string describing the connection represented by the *link* parameter is using (including the server host name).

Parameters

link Procedural style only: A link identifier returned by [mysqli_connect](#) or [mysqli_init](#)

Return Values

A character string representing the server hostname and the connection type.

Examples**Example 2.26. Object oriented style**

```
<?php  
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");  
/* check connection */  
if (mysqli_connect_errno()) {  
    printf("Connect failed: %s\n", mysqli_connect_error());  
    exit();  
}  
/* print host information */  
printf("Host info: %s\n", $mysqli->host_info);  
/* close connection */  
$mysqli->close();  
?>
```

Example 2.27. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* print host information */
printf("Host info: %s\n", mysqli_get_host_info($link));
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Host info: Localhost via UNIX socket
```

See Also

[mysqli_get_proto_info](#)

2.4.19. [mysqli->protocol_version](#), [mysqli_get_proto_info](#)

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- [mysqli->protocol_version](#)

[mysqli_get_proto_info](#)

Returns the version of the MySQL protocol used

Description

Object oriented style (property):

```
mysqli {
    string protocol_version ;
}
```

Procedural style:

```
int mysqli_get_proto_info(mysqli link);
```

Returns an integer representing the MySQL protocol version used by the connection represented by the [link](#) parameter.

Parameters

[link](#)

Procedural style only: A link identifier returned by [mysqli_connect](#) or [mysqli_init](#)

Return Values

Returns an integer representing the protocol version.

Examples

Example 2.28. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* print protocol version */
printf("Protocol version: %d\n", $mysqli->protocol_version);
/* close connection */
$mysqli->close();
?>
```

Example 2.29. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* print protocol version */
printf("Protocol version: %d\n", mysqli_get_proto_info($link));
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Protocol version: 10
```

See Also

[mysqli_get_host_info](#)

2.4.20. [mysqli->server_info](#), [mysqli_get_server_info](#)

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- [mysqli->server_info](#)
[mysqli_get_server_info](#)

Returns the version of the MySQL server

Description

Object oriented style (property):

```
mysqli {
    string server_info ;
}
```

Procedural style:

```
string mysqli_get_server_info(mysqli link);
```

Returns a string representing the version of the MySQL server that the MySQLi extension is connected to.

Parameters

link Procedural style only: A link identifier returned by [mysqli_connect](#) or [mysqli_init](#)

Return Values

A character string representing the server version.

Examples

Example 2.30. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* print server version */
printf("Server version: %s\n", $mysqli->server_info);
/* close connection */
$mysqli->close();
?>
```

Example 2.31. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* print server version */
printf("Server version: %s\n", mysqli_get_server_info($link));
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Server version: 4.1.2-alpha-debug
```

See Also

```
mysqli_get_client_info  
mysqli_get_client_version  
mysqli_get_server_version
```

2.4.21. `mysqli->server_version`, `mysqli_get_server_version`

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- `mysqli->server_version`
`mysqli_get_server_version`

Returns the version of the MySQL server as an integer

Description

Object oriented style (property):

```
mysqli {  
    int server_version ;  
}
```

Procedural style:

```
int mysqli_get_server_version(mysqli link);
```

The `mysqli_get_server_version` function returns the version of the server connected to (represented by the *link* parameter) as an integer.

Parameters

link Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

Return Values

An integer representing the server version.

The form of this version number is `main_version * 10000 + minor_version * 100 + sub_version` (i.e. version 4.1.0 is 40100).

Examples**Example 2.32. Object oriented style**

```
<?php  
$mysqli = new mysqli("localhost", "my_user", "my_password");  
/* check connection */  
if (mysqli_connect_errno()) {  
    printf("Connect failed: %s\n", mysqli_connect_error());  
    exit();  
}  
/* print server version */  
printf("Server version: %d\n", $mysqli->server_version);  
/* close connection */  
$mysqli->close();  
?>
```

Example 2.33. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* print server version */
printf("Server version: %d\n", mysqli_get_server_version($link));
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Server version: 40102
```

See Also

[mysqli_get_client_info](#)
[mysqli_get_client_version](#)
[mysqli_get_server_info](#)

2.4.22. [mysqli::get_warnings](#), [mysqli_get_warnings](#)

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- [mysqli::get_warnings](#)
[mysqli_get_warnings](#)

Description

```
object mysqli::get_warnings();
```

```
object mysqli_get_warnings(mysqli link);
```

Warning

This function is currently not documented; only its argument list is available.

2.4.23. [mysqli->info](#), [mysqli_info](#)

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- [mysqli->info](#)
[mysqli_info](#)

Retrieves information about the most recently executed query

Description

Object oriented style (property)

```
mysqli {
    string info ;
}
```

Procedural style:

```
string mysqli_info(mysqli link);
```

The `mysqli_info` function returns a string providing information about the last query executed. The nature of this string is provided below:

Table 2.2. Possible `mysqli_info` return values

Query type	Example result string
INSERT INTO...SELECT...	Records: 100 Duplicates: 0 Warnings: 0
INSERT INTO...VALUES (...),(...),(...)	Records: 3 Duplicates: 0 Warnings: 0
LOAD DATA INFILE ...	Records: 1 Deleted: 0 Skipped: 0 Warnings: 0
ALTER TABLE ...	Records: 3 Duplicates: 0 Warnings: 0
UPDATE ...	Rows matched: 40 Changed: 40 Warnings: 0

Note

Queries which do not fall into one of the above formats are not supported. In these situations, `mysqli_info` will return an empty string.

Parameters

link Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

Return Values

A character string representing additional information about the most recently executed query.

Examples

Example 2.34. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$mysqli->query("CREATE TEMPORARY TABLE t1 LIKE City");
/* INSERT INTO .. SELECT */
$mysqli->query("INSERT INTO t1 SELECT * FROM City ORDER BY ID LIMIT 150");
printf("%s\n", $mysqli->info);
/* close connection */
$mysqli->close();
?>
```

Example 2.35. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
mysqli_query($link, "CREATE TEMPORARY TABLE t1 LIKE City");
/* INSERT INTO .. SELECT */
mysqli_query($link, "INSERT INTO t1 SELECT * FROM City ORDER BY ID LIMIT 150");
printf("%s\n", mysqli_info($link));
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Records: 150 Duplicates: 0 Warnings: 0
```

See Also

[mysqli_affected_rows](#)
[mysqli_warning_count](#)
[mysqli_num_rows](#)

2.4.24. [mysqli::init](#), [mysqli_init](#)

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- [mysqli::init](#)
[mysqli_init](#)

Initializes MySQLi and returns a resource for use with [mysqli_real_connect\(\)](#)

Description

Object oriented style (method):

```
mysqli init();
```

Procedural style:

```
mysqli mysqli_init();
```

Allocates or initializes a MYSQL object suitable for [mysqli_options](#) and [mysqli_real_connect](#).

Note

Any subsequent calls to any [mysqli](#) function (except [mysqli_options](#)) will fail until [mysqli_real_connect](#) was called.

Return Values

Returns an object.

See Also

[mysqli_options](#)
[mysqli_close](#)
[mysqli_real_connect](#)
[mysqli_connect](#)

2.4.25. `mysqli->insert_id`, `mysqli_insert_id`

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- `mysqli->insert_id`

`mysqli_insert_id`

Returns the auto generated id used in the last query

Description

Object oriented style (property):

```
mysqli {
    int insert_id ;
}
```

Procedural style:

```
int mysqli_insert_id(mysqli link);
```

The `mysqli_insert_id` function returns the ID generated by a query on a table with a column having the `AUTO_INCREMENT` attribute. If the last query wasn't an `INSERT` or `UPDATE` statement or if the modified table does not have a column with the `AUTO_INCREMENT` attribute, this function will return zero.

Note

Performing an `INSERT` or `UPDATE` statement using the `LAST_INSERT_ID()` function will also modify the value returned by the `mysqli_insert_id` function.

Parameters

link Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

Return Values

The value of the `AUTO_INCREMENT` field that was updated by the previous query. Returns zero if there was no previous query on the connection or if the query did not update an `AUTO_INCREMENT` value.

Note

If the number is greater than maximal int value, `mysqli_insert_id` will return a string.

Examples**Example 2.36. Object oriented style**

```
<?php
```

```

$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$mysqli->query("CREATE TABLE myCity LIKE City");
$query = "INSERT INTO myCity VALUES (NULL, 'Stuttgart', 'DEU', 'Stuttgart', 617000)";
$mysqli->query($query);
printf ("New Record has id %d.\n", $mysqli->insert_id);
/* drop table */
$mysqli->query("DROP TABLE myCity");
/* close connection */
$mysqli->close();
?>

```

Example 2.37. Procedural style

```

<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
mysqli_query($link, "CREATE TABLE myCity LIKE City");
$query = "INSERT INTO myCity VALUES (NULL, 'Stuttgart', 'DEU', 'Stuttgart', 617000)";
mysqli_query($link, $query);
printf ("New Record has id %d.\n", mysqli_insert_id($link));
/* drop table */
mysqli_query($link, "DROP TABLE myCity");
/* close connection */
mysqli_close($link);
?>

```

The above example will output:

```
New Record has id 1.
```

2.4.26. [mysqli::kill](#), [mysqli_kill](#)

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- [mysqli::kill](#)
- [mysqli_kill](#)

Asks the server to kill a MySQL thread

Description

Object oriented style (method)

```
bool mysqli::kill(int processid);
```

Procedural style:

```
bool mysqli_kill(mysqli link,
int processid);
```

This function is used to ask the server to kill a MySQL thread specified by the *processid* parameter. This value must be retrieved by calling the *mysqli_thread_id* function.

To stop a running query you should use the SQL command `KILL QUERY processid`.

Parameters

link Procedural style only: A link identifier returned by *mysqli_connect* or *mysqli_init*

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Examples

Example 2.38. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* determine our thread id */
$thread_id = $mysqli->thread_id;
/* Kill connection */
$mysqli->kill($thread_id);
/* This should produce an error */
if (!$mysqli->query("CREATE TABLE myCity LIKE City")) {
    printf("Error: %s\n", $mysqli->error);
    exit();
}
/* close connection */
$mysqli->close();
?>
```

Example 2.39. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* determine our thread id */
$thread_id = mysqli_thread_id($link);
/* Kill connection */
mysqli_kill($link, $thread_id);
/* This should produce an error */
if (!mysqli_query($link, "CREATE TABLE myCity LIKE City")) {
    printf("Error: %s\n", mysqli_error($link));
    exit();
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Error: MySQL server has gone away
```

See Also`mysqli_thread_id`**2.4.27. `mysqli::more_results`, `mysqli_more_results`**

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- `mysqli::more_results`

`mysqli_more_results`

Check if there are any more query results from a multi query

Description

```
bool mysqli::more_results();
```

```
bool mysqli_more_results(mysqli link);
```

Indicates if one or more result sets are available from a previous call to `mysqli_multi_query`.**Parameters**

link Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

Return ValuesReturns `TRUE` on success or `FALSE` on failure.**Examples**See `mysqli_multi_query`.**See Also**`mysqli_multi_query`
`mysqli_next_result`
`mysqli_store_result`
`mysqli_use_result`**2.4.28. `mysqli::multi_query`, `mysqli_multi_query`**

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- `mysqli::multi_query`

`mysqli_multi_query`

Performs a query on the database

Description

Object oriented style (method):

```
bool mysqli::multi_query(string query);
```

Procedural style:

```
bool mysqli_multi_query(mysqli link,
                        string query);
```

Executes one or multiple queries which are concatenated by a semicolon.

To retrieve the resultset from the first query you can use `mysqli_use_result` or `mysqli_store_result`. All subsequent query results can be processed using `mysqli_more_results` and `mysqli_next_result`.

Parameters

link Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

query The query, as a string.

Return Values

Returns `FALSE` if the first statement failed. To retrieve subsequent errors from other statements you have to call `mysqli_next_result` first.

Examples

Example 2.40. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT CURRENT_USER();";
$query .= "SELECT Name FROM City ORDER BY ID LIMIT 20, 5";
/* execute multi query */
if ($mysqli->multi_query($query)) {
    do {
        /* store first result set */
        if ($result = $mysqli->store_result()) {
            while ($row = $result->fetch_row()) {
                printf("%s\n", $row[0]);
            }
            $result->free();
        }
        /* print divider */
        if ($mysqli->more_results()) {
            printf("-----\n");
        }
    } while ($mysqli->next_result());
}
/* close connection */
$mysqli->close();
?>
```

Example 2.41. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
```

```
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT CURRENT_USER()";
$query .= "SELECT Name FROM City ORDER BY ID LIMIT 20, 5";
/* execute multi query */
if (mysqli_multi_query($link, $query)) {
    do {
        /* store first result set */
        if ($result = mysqli_store_result($link)) {
            while ($row = mysqli_fetch_row($result)) {
                printf("%s\n", $row[0]);
            }
            mysqli_free_result($result);
        }
        /* print divider */
        if (mysqli_more_results($link)) {
            printf("-----\n");
        }
    } while (mysqli_next_result($link));
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output something similar to:

```
my_user@localhost
-----
Amersfoort
Maastricht
Dordrecht
Leiden
Haarlemmermeer
```

See Also

[mysqli_use_result](#)
[mysqli_store_result](#)
[mysqli_next_result](#)
[mysqli_more_results](#)

2.4.29. [mysqli::next_result](#), [mysqli_next_result](#)

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- [mysqli::next_result](#)

[mysqli_next_result](#)

Prepare next result from multi_query

Description

```
bool mysqli::next_result();
```

```
bool mysqli_next_result(mysqli link);
```

Prepares next result set from a previous call to [mysqli_multi_query](#) which can be retrieved by [mysqli_store_result](#) or [mysqli_use_result](#).

Parameters

link Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Examples

See `mysqli_multi_query`.

See Also

`mysqli_multi_query`
`mysqli_more_results`
`mysqli_store_result`
`mysqli_use_result`

2.4.30. `mysqli::options`, `mysqli_options`

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- `mysqli::options`

`mysqli_options`

Set options

Description

Object oriented style (method)

```
bool mysqli::options(int option,
                    mixed value);
```

Procedural style:

```
bool mysqli_options(mysqli link,
                    int option,
                    mixed value);
```

Used to set extra connect options and affect behavior for a connection.

This function may be called multiple times to set several options.

`mysqli_options` should be called after `mysqli_init` and before `mysqli_real_connect`.

Parameters

link Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

option The option that you want to set. It can be one of the following values:

Table 2.3. Valid options

Name	Description
<code>MYSQLI_OPT_CONNECT_TIMEOUT</code>	connection timeout in seconds
<code>MYSQLI_OPT_LOCAL_INFILE</code>	enable/disable use of <code>LOAD LOCAL INFILE</code>

Name	Description
<code>MYSQLI_INIT_COMMAND</code>	command to execute after when connecting to MySQL server
<code>MYSQLI_READ_DEFAULT_FILE</code>	Read options from named option file instead of <code>my.cnf</code>
<code>MYSQLI_READ_DEFAULT_GROUP</code>	Read options from the named group from <code>my.cnf</code> or the file specified with <code>MYSQLI_READ_DEFAULT_FILE</code> .

value The value for the option.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Examples

See `mysqli_real_connect`.

See Also

`mysqli_init`
`mysqli_real_connect`

2.4.31. `mysqli::ping`, `mysqli_ping`

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- `mysqli::ping`
`mysqli_ping`

Pings a server connection, or tries to reconnect if the connection has gone down

Description

Object oriented style (method):

```
bool mysqli::ping();
```

Procedural style:

```
bool mysqli_ping(mysqli link);
```

Checks whether the connection to the server is working. If it has gone down, and global option `mysqli.reconnect` is enabled an automatic reconnection is attempted.

This function can be used by clients that remain idle for a long while, to check whether the server has closed the connection and reconnect if necessary.

Parameters

link Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Examples

Example 2.42. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* check if server is alive */
if ($mysqli->ping()) {
    printf ("Our connection is ok!\n");
} else {
    printf ("Error: %s\n", $mysqli->error);
}
/* close connection */
$mysqli->close();
?>
```

Example 2.43. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* check if server is alive */
if (mysqli_ping($link)) {
    printf ("Our connection is ok!\n");
} else {
    printf ("Error: %s\n", mysqli_error($link));
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Our connection is ok!
```

2.4.32. [mysqli::prepare](#), [mysqli_prepare](#)

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- [mysqli::prepare](#)

[mysqli_prepare](#)

Prepare a SQL statement for execution

Description

Object oriented style (method)

```
mysqli_stmt prepare(string query);
```

Procedure style:

```
mysqli_stmt mysqli_prepare(mysqli link,
                          string query);
```

Prepares the SQL query pointed to by the null-terminated string query, and returns a statement handle to be used for further operations on the statement. The query must consist of a single SQL statement.

The parameter markers must be bound to application variables using `mysqli_stmt_bind_param` and/or `mysqli_stmt_bind_result` before executing the statement or fetching rows.

Parameters

link Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

query The query, as a string.

Note

You should not add a terminating semicolon or `\g` to the statement.

This parameter can include one or more parameter markers in the SQL statement by embedding question mark (?) characters at the appropriate positions.

Note

The markers are legal only in certain places in SQL statements. For example, they are allowed in the `VALUES()` list of an `INSERT` statement (to specify column values for a row), or in a comparison with a column in a `WHERE` clause to specify a comparison value.

However, they are not allowed for identifiers (such as table or column names), in the select list that names the columns to be returned by a `SELECT` statement, or to specify both operands of a binary operator such as the `=` equal sign. The latter restriction is necessary because it would be impossible to determine the parameter type. It's not allowed to compare marker with `NULL` by `? IS NULL` too. In general, parameters are legal only in Data Manipulation Language (DML) statements, and not in Data Definition Language (DDL) statements.

Return Values

`mysqli_prepare` returns a statement object or `FALSE` if an error occurred.

Examples

Example 2.44. Object oriented style

```
<?php
mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$city = "Amersfoort";
/* create a prepared statement */
if ($stmt = $mysqli->prepare("SELECT District FROM City WHERE Name=?")) {
    /* bind parameters for markers */
    $stmt->bind_param("s", $city);
    /* execute query */
    $stmt->execute();
    /* bind result variables */
    $stmt->bind_result($district);
    /* fetch value */
    $stmt->fetch();
    printf("%s is in district %s\n", $city, $district);
    /* close statement */
    $stmt->close();
}
/* close connection */
```

```
$mysqli->close();  
?>
```

Example 2.45. Procedural style

```
<?php  
$link = mysqli_connect("localhost", "my_user", "my_password", "world");  
/* check connection */  
if (mysqli_connect_errno()) {  
    printf("Connect failed: %s\n", mysqli_connect_error());  
    exit();  
}  
$city = "Amersfoort";  
/* create a prepared statement */  
if ($stmt = mysqli_prepare($link, "SELECT District FROM City WHERE Name=?")) {  
    /* bind parameters for markers */  
    mysqli_stmt_bind_param($stmt, "s", $city);  
    /* execute query */  
    mysqli_stmt_execute($stmt);  
    /* bind result variables */  
    mysqli_stmt_bind_result($stmt, $district);  
    /* fetch value */  
    mysqli_stmt_fetch($stmt);  
    printf("%s is in district %s\n", $city, $district);  
    /* close statement */  
    mysqli_stmt_close($stmt);  
}  
/* close connection */  
mysqli_close($link);  
?>
```

The above example will output:

```
Amersfoort is in district Utrecht
```

See Also

```
mysqli_stmt_execute  
mysqli_stmt_fetch  
mysqli_stmt_bind_param  
mysqli_stmt_bind_result  
mysqli_stmt_close
```

2.4.33. [mysqli::query](#), [mysqli_query](#)

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- [mysqli::query](#)
[mysqli_query](#)

Performs a query on the database

Description

Object oriented style (method):

```
mixed mysqli::query(string query,  
                    int resultmode);
```

Procedural style:

```
mixed mysqli_query(mysqli link,
                  string query,
                  int resultmode);
```

Performs a *query* against the database.

Functionally, using this function is identical to calling `mysqli_real_query` followed either by `mysqli_use_result` or `mysqli_store_result`.

Parameters

<i>link</i>	Procedural style only: A link identifier returned by <code>mysqli_connect</code> or <code>mysqli_init</code>
<i>query</i>	The query string.
<i>resultmode</i>	Either the constant <code>MYSQLI_USE_RESULT</code> or <code>MYSQLI_STORE_RESULT</code> depending on the desired behavior. By default, <code>MYSQLI_STORE_RESULT</code> is used. If you use <code>MYSQLI_USE_RESULT</code> all subsequent calls will return error <code>Commands out of sync</code> unless you call <code>mysqli_free_result</code>

Return Values

Returns `TRUE` on success or `FALSE` on failure. For `SELECT`, `SHOW`, `DESCRIBE` or `EXPLAIN` `mysqli_query` will return a result object.

Examples

Example 2.46. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* Create table doesn't return a resultset */
if ($mysqli->query("CREATE TEMPORARY TABLE myCity LIKE City") === TRUE) {
    printf("Table myCity successfully created.\n");
}
/* Select queries return a resultset */
if ($result = $mysqli->query("SELECT Name FROM City LIMIT 10")) {
    printf("Select returned %d rows.\n", $result->num_rows);
    /* free result set */
    $result->close();
}
/* If we have to retrieve large amount of data we use MYSQLI_USE_RESULT */
if ($result = $mysqli->query("SELECT * FROM City", MYSQLI_USE_RESULT)) {
    /* Note, that we can't execute any functions which interact with the
    server until result set was closed. All calls will return an
    'out of sync' error */
    if (!$mysqli->query("SET @a:='this will not work'")) {
        printf("Error: %s\n", $mysqli->error);
    }
    $result->close();
}
$mysqli->close();
?>
```

Example 2.47. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* Create table doesn't return a resultset */
if (mysqli_query($link, "CREATE TEMPORARY TABLE myCity LIKE City") === TRUE) {
    printf("Table myCity successfully created.\n");
}
/* Select queries return a resultset */
if ($result = mysqli_query($link, "SELECT Name FROM City LIMIT 10")) {
    printf("Select returned %d rows.\n", mysqli_num_rows($result));
    /* free result set */
    mysqli_free_result($result);
}
/* If we have to retrieve large amount of data we use MYSQLI_USE_RESULT */
if ($result = mysqli_query($link, "SELECT * FROM City", MYSQLI_USE_RESULT)) {
    /* Note, that we can't execute any functions which interact with the
    server until result set was closed. All calls will return an
    'out of sync' error */
    if (!mysqli_query($link, "SET @a:='this will not work'")) {
        printf("Error: %s\n", mysqli_error($link));
    }
    mysqli_free_result($result);
}
mysqli_close($link);
?>
```

The above example will output:

```
Table myCity successfully created.
Select returned 10 rows.
Error: Commands out of sync; You can't run this command now
```

See Also

[mysqli_real_query](#)
[mysqli_multi_query](#)
[mysqli_free_result](#)

2.4.34. [mysqli::real_connect](#), [mysqli_real_connect](#)

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- [mysqli::real_connect](#)

[mysqli_real_connect](#)

Opens a connection to a mysql server

Description

Object oriented style (method)

```
bool mysqli::real_connect(string host,
                          string username,
                          string passwd,
                          string dbname,
                          int port,
                          string socket,
                          int flags);
```

Procedural style

```
bool mysqli_real_connect(mysqli link,
                        string host,
                        string username,
                        string passwd,
                        string dbname,
                        int port,
                        string socket,
                        int flags);
```

Establish a connection to a MySQL database engine.

This function differs from `mysqli_connect`:

- `mysqli_real_connect` needs a valid object which has to be created by function `mysqli_init`.
- With function `mysqli_options` you can set various options for connection.
- There is a `flags` parameter.

Parameters

<code>link</code>	Procedural style only: A link identifier returned by <code>mysqli_connect</code> or <code>mysqli_init</code>
<code>host</code>	Can be either a host name or an IP address. Passing the <code>NULL</code> value or the string "localhost" to this parameter, the local host is assumed. When possible, pipes will be used instead of the TCP/IP protocol.
<code>username</code>	The MySQL user name.
<code>passwd</code>	If provided or <code>NULL</code> , the MySQL server will attempt to authenticate the user against those user records which have no password only. This allows one username to be used with different permissions (depending on if a password as provided or not).
<code>dbname</code>	If provided will specify the default database to be used when performing queries.
<code>port</code>	Specifies the port number to attempt to connect to the MySQL server.
<code>socket</code>	Specifies the socket or named pipe that should be used.

Note

Specifying the `socket` parameter will not explicitly determine the type of connection to be used when connecting to the MySQL server. How the connection is made to the MySQL database is determined by the `host` parameter.

With the parameter `flags` you can set different connection options:

Table 2.4. Supported flags

Name	Description
<code>MYSQLI_CLIENT_COMPRESS</code>	Use compression protocol
<code>MYSQLI_CLIENT_FOUND_ROWS</code>	return number of matched rows, not the number of affected rows
<code>MYSQLI_CLIENT_IGNORE_SPACE</code>	Allow spaces after function names. Makes all function names reserved words.
<code>MYSQLI_CLIENT_INTERACTIVE</code>	Allow <code>interactive_timeout</code> seconds (instead of <code>wait_timeout</code> seconds) of inactivity before closing the connection
<code>MYSQLI_CLIENT_SSL</code>	Use SSL (encryption)

Note

For security reasons the `MULTI_STATEMENT` flag is not supported in PHP. If you want to execute multiple queries use the `mysqli_multi_query` function.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Examples

Example 2.48. Object oriented style

```
<?php
/* create a connection object which is not connected */
$mysqli = mysqli_init();
/* set connection options */
$mysqli->options(MYSQLI_INIT_COMMAND, "SET AUTOCOMMIT=0");
$mysqli->options(MYSQLI_OPT_CONNECT_TIMEOUT, 5);
/* connect to server */
$mysqli->real_connect('localhost', 'my_user', 'my_password', 'world');
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
printf ("Connection: %s\n.", $mysqli->host_info);
$mysqli->close();
?>
```

Example 2.49. Procedural style

```
<?php
/* create a connection object which is not connected */
$link = mysqli_init();
/* set connection options */
mysqli_options($link, MYSQLI_INIT_COMMAND, "SET AUTOCOMMIT=0");
mysqli_options($link, MYSQLI_OPT_CONNECT_TIMEOUT, 5);
/* connect to server */
mysqli_real_connect($link, 'localhost', 'my_user', 'my_password', 'world');
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
printf ("Connection: %s\n.", mysqli_get_host_info($link));
mysqli_close($link);
?>
```

The above example will output:

```
Connection: Localhost via UNIX socket
```

See Also

[mysqli_connect](#)
[mysqli_init](#)
[mysqli_options](#)
[mysqli_ssl_set](#)
[mysqli_close](#)

2.4.35. `mysqli::real_escape_string`, `mysqli_real_escape_string`

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- `mysqli::real_escape_string`

`mysqli_real_escape_string`

Escapes special characters in a string for use in a SQL statement, taking into account the current charset of the connection

Description

Object oriented style (both methods are equivalent):

```
string mysqli::escape_string(string escapestr);
```

```
string mysqli_real_escape_string(string escapestr);
```

Procedural style:

```
string mysqli_real_escape_string(mysqli link,
                                string escapestr);
```

This function is used to create a legal SQL string that you can use in an SQL statement. The given string is encoded to an escaped SQL string, taking into account the current character set of the connection.

Parameters

<i>link</i>	Procedural style only: A link identifier returned by <code>mysqli_connect</code> or <code>mysqli_init</code>
<i>escapestr</i>	The string to be escaped. Characters encoded are NUL (ASCII 0), <code>\n</code> , <code>\r</code> , <code>\</code> , <code>'</code> , <code>"</code> , and Control-Z.

Return Values

Returns an escaped string.

Examples

Example 2.50. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$mysqli->query("CREATE TEMPORARY TABLE myCity LIKE City");
$city = " 's Hertogenbosch";
/* this query will fail, cause we didn't escape $city */
if (!$mysqli->query("INSERT into myCity (Name) VALUES ('$city')")) {
    printf("Error: %s\n", $mysqli->sqlstate);
}
$city = $mysqli->real_escape_string($city);
/* this query with escaped $city will work */
if ($mysqli->query("INSERT into myCity (Name) VALUES ('$city')")) {
    printf("%d Row inserted.\n", $mysqli->affected_rows);
}
$mysqli->close();
?>
```

Example 2.51. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
mysqli_query($link, "CREATE TEMPORARY TABLE myCity LIKE City");
$city = "'s Hertogenbosch";
/* this query will fail, cause we didn't escape $city */
if (!mysqli_query($link, "INSERT into myCity (Name) VALUES ('$city')")) {
    printf("Error: %s\n", mysqli_sqlstate($link));
}
$city = mysqli_real_escape_string($link, $city);
/* this query with escaped $city will work */
if (mysqli_query($link, "INSERT into myCity (Name) VALUES ('$city')")) {
    printf("%d Row inserted.\n", mysqli_affected_rows($link));
}
mysqli_close($link);
?>
```

The above example will output:

```
Error: 42000
1 Row inserted.
```

See Also

[mysqli_character_set_name](#)

2.4.36. [mysqli::real_query](#), [mysqli_real_query](#)

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- [mysqli::real_query](#)
[mysqli_real_query](#)

Execute an SQL query

Description

Object oriented style (method):

```
bool real_query(string query);
```

Procedural style

```
bool mysqli_real_query(mysqli link,
                       string query);
```

Executes a single query against the database whose result can then be retrieved or stored using the [mysqli_store_result](#) or [mysqli_use_result](#) functions.

In order to determine if a given query should return a result set or not, see [mysqli_field_count](#).

Parameters

`link` Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

`query` The query, as a string.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

See Also

`mysqli_query`
`mysqli_store_result`
`mysqli_use_result`

2.4.37. `mysqli::rollback`, `mysqli_rollback`

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- `mysqli::rollback`
`mysqli_rollback`
 Rolls back current transaction

Description

Object oriented style (method):

```
bool mysqli::rollback();
```

Procedural style:

```
bool mysqli_rollback(mysqli link);
```

Rollbacks the current transaction for the database.

Parameters

`link` Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Examples**Example 2.52. Object oriented style**

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* disable autocommit */
$mysqli->autocommit(FALSE);
```

```

$mysqli->query("CREATE TABLE myCity LIKE City");
$mysqli->query("ALTER TABLE myCity Type=InnoDB");
$mysqli->query("INSERT INTO myCity SELECT * FROM City LIMIT 50");
/* commit insert */
$mysqli->commit();
/* delete all rows */
$mysqli->query("DELETE FROM myCity");
if ($result = $mysqli->query("SELECT COUNT(*) FROM myCity")) {
    $row = $result->fetch_row();
    printf("%d rows in table myCity.\n", $row[0]);
    /* Free result */
    $result->close();
}
/* Rollback */
$mysqli->rollback();
if ($result = $mysqli->query("SELECT COUNT(*) FROM myCity")) {
    $row = $result->fetch_row();
    printf("%d rows in table myCity (after rollback).\n", $row[0]);
    /* Free result */
    $result->close();
}
/* Drop table myCity */
$mysqli->query("DROP TABLE myCity");
$mysqli->close();
?>

```

Example 2.53. Procedural style

```

<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* disable autocommit */
mysqli_autocommit($link, FALSE);
mysqli_query($link, "CREATE TABLE myCity LIKE City");
mysqli_query($link, "ALTER TABLE myCity Type=InnoDB");
mysqli_query($link, "INSERT INTO myCity SELECT * FROM City LIMIT 50");
/* commit insert */
mysqli_commit($link);
/* delete all rows */
mysqli_query($link, "DELETE FROM myCity");
if ($result = mysqli_query($link, "SELECT COUNT(*) FROM myCity")) {
    $row = mysqli_fetch_row($result);
    printf("%d rows in table myCity.\n", $row[0]);
    /* Free result */
    mysqli_free_result($result);
}
/* Rollback */
mysqli_rollback($link);
if ($result = mysqli_query($link, "SELECT COUNT(*) FROM myCity")) {
    $row = mysqli_fetch_row($result);
    printf("%d rows in table myCity (after rollback).\n", $row[0]);
    /* Free result */
    mysqli_free_result($result);
}
/* Drop table myCity */
mysqli_query($link, "DROP TABLE myCity");
mysqli_close($link);
?>

```

The above example will output:

```

0 rows in table myCity.
50 rows in table myCity (after rollback).

```

See Also

```
mysqli_commit
mysqli_autocommit
```

2.4.38. `mysqli::select_db`, `mysqli_select_db`

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- `mysqli::select_db`
`mysqli_select_db`

Selects the default database for database queries

Description

Object oriented style (method):

```
bool mysqli::select_db(string dbname);
```

Procedural style:

```
bool mysqli_select_db(mysqli link,
                      string dbname);
```

Selects the default database to be used when performing queries against the database connection.

Note

This function should only be used to change the default database for the connection. You can select the default database with 4th parameter in `mysqli_connect`.

Parameters

link Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

dbname The database name.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Examples

Example 2.54. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "test");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* return name of current default database */
if ($result = $mysqli->query("SELECT DATABASE()")) {
    $row = $result->fetch_row();
    printf("Default database is %s.\n", $row[0]);
    $result->close();
}
/* change db to world db */
$mysqli->select_db("world");
/* return name of current default database */
if ($result = $mysqli->query("SELECT DATABASE()")) {
```

```
$row = $result->fetch_row();
printf("Default database is %s.\n", $row[0]);
$result->close();
}
$mysqli->close();
?>
```

Example 2.55. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "test");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* return name of current default database */
if ($result = mysqli_query($link, "SELECT DATABASE()")) {
    $row = mysqli_fetch_row($result);
    printf("Default database is %s.\n", $row[0]);
    mysqli_free_result($result);
}
/* change db to world db */
mysqli_select_db($link, "world");
/* return name of current default database */
if ($result = mysqli_query($link, "SELECT DATABASE()")) {
    $row = mysqli_fetch_row($result);
    printf("Default database is %s.\n", $row[0]);
    mysqli_free_result($result);
}
mysqli_close($link);
?>
```

The above example will output:

```
Default database is test.
Default database is world.
```

See Also

[mysqli_connect](#)
[mysqli_real_connect](#)

2.4.39. [mysqli::set_charset](#), [mysqli_set_charset](#)

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- [mysqli::set_charset](#)
[mysqli_set_charset](#)

Sets the default client character set

Description

Object oriented style (method):

```
bool mysqli::set_charset(string charset);
```

Procedural style:

```
bool mysqli_set_charset(mysqli link,
                       string charset);
```

Sets the default character set to be used when sending data from and to the database server.

Parameters

link Procedural style only: A link identifier returned by [mysqli_connect](#) or [mysqli_init](#)

charset The charset to be set as default.

Return Values

Returns [TRUE](#) on success or [FALSE](#) on failure.

Notes

Note

To use this function on a Windows platform you need MySQL client library version 4.1.11 or above (for MySQL 5.0 you need 5.0.6 or above).

Note

This is the preferred way to change the charset. Using [mysqli::query](#) to execute `SET NAMES ..` is not recommended.

Examples

Example 2.56. Object oriented style

```
<?php
$link = new mysqli("localhost", "my_user", "my_password", "test");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* change character set to utf8 */
if (!$link->set_charset("utf8")) {
    printf("Error loading character set utf8: %s\n", $link->error);
} else {
    printf("Current character set: %s\n", $link->character_set_name());
}
$link->close();
?>
```

Example 2.57. Procedural style

```
<?php
$link = mysqli_connect('localhost', 'my_user', 'my_password', 'test');
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* change character set to utf8 */
if (!mysqli_set_charset($link, "utf8")) {
    printf("Error loading character set utf8: %s\n", mysqli_error($link));
} else {
    printf("Current character set: %s\n", mysqli_character_set_name($link));
}
```

```
}  
mysqli_close($link);  
?>
```

The above example will output:

```
Current character set: utf8
```

See Also

[mysqli_character_set_name](#)
[mysqli_real_escape_string](#)
[List of character sets that MySQL supports](#)

2.4.40. [mysqli::set_local_infile_default](#), [mysqli_set_local_infile_default](#)

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- [mysqli::set_local_infile_default](#)
[mysqli_set_local_infile_default](#)
Unsets user defined handler for load local infile command

Description

```
void mysqli_set_local_infile_default(mysqli link);
```

Deactivates a `LOAD DATA INFILE LOCAL` handler previously set with [mysqli_set_local_infile_handler](#).

Parameters

link Procedural style only: A link identifier returned by [mysqli_connect](#) or [mysqli_init](#)

Return Values

No value is returned.

Examples

See [mysqli_set_local_infile_handler](#) examples

See Also

[mysqli_set_local_infile_handler](#)

2.4.41. [mysqli::set_local_infile_handler](#), [mysqli_set_local_infile_handler](#)

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- `mysqli::set_local_infile_handler`
`mysqli_set_local_infile_handler`

Set callback function for LOAD DATA LOCAL INFILE command

Description

```
bool mysqli_set_local_infile_handler(mysqli link,
                                     callback read_func);
```

Object oriented style (method)

```
mysqli {
    bool set_local_infile_handler(mysqli link,
                                 callback read_func);
}
```

Set callback function for LOAD DATA LOCAL INFILE command

The callback's task is to read input from the file specified in the `LOAD DATA LOCAL INFILE` and to reformat it into the format understood by `LOAD DATA INFILE`.

The returned data needs to match the format specified in the `LOAD DATA`

Parameters

<i>link</i>	Procedural style only: A link identifier returned by <code>mysqli_connect</code> or <code>mysqli_init</code>
<i>read_func</i>	A callback function or object method taking the following parameters:
<i>stream</i>	A PHP stream associated with the SQL commands INFILE
<i>&buffer</i>	A string buffer to store the rewritten input into
<i>buflen</i>	The maximum number of characters to be stored in the buffer
<i>&errmsg</i>	If an error occurs you can store an error message in here

The callback function should return the number of characters stored in the *buffer* or a negative value if an error occurred.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Examples

Example 2.58. Object oriented style

```
<?php
$db = mysqli_init();
$db->real_connect("localhost","root","","test");
function callme($stream, &$buffer, $buflen, &$errmsg)
{
    $buffer = fgets($stream);
    echo $buffer;
    // convert to upper case and replace "," delimiter with [TAB]
    $buffer = strtoupper(str_replace(",","\\t", $buffer));
    return strlen($buffer);
}
echo "Input:\\n";
$db->set_local_infile_handler("callme");
```

```
$db->query("LOAD DATA LOCAL INFILE 'input.txt' INTO TABLE t1");
$db->set_local_infile_default();
$res = $db->query("SELECT * FROM t1");
echo "\nResult:\n";
while ($row = $res->fetch_assoc()) {
    echo join(", ", $row)."\n";
}
?>
```

Example 2.59. Procedural style

```
<?php
$db = mysqli_init();
mysqli_real_connect($db, "localhost", "root", "", "test");
function callme($stream, &$buffer, $buflen, &$errmsg)
{
    $buffer = fgets($stream);
    echo $buffer;
    // convert to upper case and replace ", " delimiter with [TAB]
    $buffer = strtoupper(str_replace(", ", "\t", $buffer));
    return strlen($buffer);
}
echo "Input:\n";
mysqli_set_local_infile_handler($db, "callme");
mysqli_query($db, "LOAD DATA LOCAL INFILE 'input.txt' INTO TABLE t1");
mysqli_set_local_infile_default($db);
$res = mysqli_query($db, "SELECT * FROM t1");
echo "\nResult:\n";
while ($row = mysqli_fetch_assoc($res)) {
    echo join(", ", $row)."\n";
}
?>
```

The above example will output:

```
Input:
23,foo
42,bar
Output:
23,FOO
42,BAR
```

See Also

[mysqli_set_local_infile_default](#)

2.4.42. [mysqli->sqlstate](#), [mysqli_sqlstate](#)

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- [mysqli->sqlstate](#)

[mysqli_sqlstate](#)

Returns the SQLSTATE error from previous MySQL operation

Description

Object oriented style (property):

```
mysqli {
    string sqlstate ;
}
```

Procedural style:

```
string mysqli_sqlstate(mysqli link);
```

Returns a string containing the SQLSTATE error code for the last error. The error code consists of five characters. '00000' means no error. The values are specified by ANSI SQL and ODBC. For a list of possible values, see <http://dev.mysql.com/doc/mysql/en/error-handling.html>.

Note

Note that not all MySQL errors are yet mapped to SQLSTATE's. The value `HY000` (general error) is used for unmapped errors.

Parameters

link

Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

Return Values

Returns a string containing the SQLSTATE error code for the last error. The error code consists of five characters. '00000' means no error.

Examples

Example 2.60. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* Table City already exists, so we should get an error */
if (!$mysqli->query("CREATE TABLE City (ID INT, Name VARCHAR(30))")) {
    printf("Error - SQLSTATE %s.\n", $mysqli->sqlstate);
}
$mysqli->close();
?>
```

Example 2.61. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* Table City already exists, so we should get an error */
if (!$mysqli_query($link, "CREATE TABLE City (ID INT, Name VARCHAR(30))")) {
    printf("Error - SQLSTATE %s.\n", mysqli_sqlstate($link));
}
mysqli_close($link);
?>
```

The above example will output:

```
Error - SQLSTATE 42S01.
```

See Also

[mysqli_errno](#)
[mysqli_error](#)

2.4.43. [mysqli::ssl_set](#), [mysqli_ssl_set](#)

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- [mysqli::ssl_set](#)
[mysqli_ssl_set](#)

Used for establishing secure connections using SSL

Description

Object oriented style (method):

```
bool mysqli::ssl_set(string key,  
                    string cert,  
                    string ca,  
                    string capath,  
                    string cipher);
```

Procedural style:

```
bool mysqli_ssl_set(mysqli link,  
                    string key,  
                    string cert,  
                    string ca,  
                    string capath,  
                    string cipher);
```

Used for establishing secure connections using SSL. It must be called before [mysqli_real_connect](#). This function does nothing unless OpenSSL support is enabled.

Parameters

<i>link</i>	Procedural style only: A link identifier returned by mysqli_connect or mysqli_init
<i>key</i>	The path name to the key file.
<i>cert</i>	The path name to the certificate file.
<i>ca</i>	The path name to the certificate authority file.
<i>capath</i>	The pathname to a directory that contains trusted SSL CA certificates in PEM format.
<i>cipher</i>	A list of allowable ciphers to use for SSL encryption.

Any unused SSL parameters may be given as [NULL](#)

Return Values

This function always returns `TRUE` value. If SSL setup is incorrect `mysqli_real_connect` will return an error when you attempt to connect.

See Also

`mysqli_options`
`mysqli_real_connect`

2.4.44. `mysqli::stat`, `mysqli_stat`

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- `mysqli::stat`

`mysqli_stat`

Gets the current system status

Description

Object oriented style (method):

```
string mysqli::stat();
```

Procedural style:

```
string mysqli_stat(mysqli link);
```

`mysqli_stat` returns a string containing information similar to that provided by the 'mysqladmin status' command. This includes up-time in seconds and the number of running threads, questions, reloads, and open tables.

Parameters

link Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

Return Values

A string describing the server status. `FALSE` if an error occurred.

Examples

Example 2.62. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
printf ("System status: %s\n", $mysqli->stat());
$mysqli->close();
?>
```

Example 2.63. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
printf("System status: %s\n", mysqli_stat($link));
mysqli_close($link);
?>
```

The above example will output:

```
System status: Uptime: 272  Threads: 1  Questions: 5340  Slow queries: 0
Opens: 13  Flush tables: 1  Open tables: 0  Queries per second avg: 19.632
Memory in use: 8496K  Max memory used: 8560K
```

See Also

[mysqli_get_server_info](#)

2.4.45. [mysqli::stmt_init](#), [mysqli_stmt_init](#)

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- [mysqli::stmt_init](#)
[mysqli_stmt_init](#)

Initializes a statement and returns an object for use with [mysqli_stmt_prepare](#)

Description

Object oriented style (property):

```
mysqli {
    mysqli_stmt stmt_init();
}
```

Procedural style :

```
mysqli_stmt mysqli_stmt_init(mysqli link);
```

Allocates and initializes a statement object suitable for [mysqli_stmt_prepare](#).

Note

Any subsequent calls to any [mysqli_stmt](#) function will fail until [mysqli_stmt_prepare](#) was called.

Parameters

link Procedural style only: A link identifier returned by [mysqli_connect](#) or [mysqli_init](#)

Return Values

Returns an object.

See Also

`mysqli_stmt_prepare`

2.4.46. `mysqli::store_result`, `mysqli_store_result`

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- `mysqli::store_result`
`mysqli_store_result`

Transfers a result set from the last query

Description

Object oriented style (method):

```
mysqli_result store_result();
```

Procedural style:

```
mysqli_result mysqli_store_result(mysqli link);
```

Transfers the result set from the last query on the database connection represented by the `link` parameter to be used with the `mysqli_data_seek` function.

Parameters

`link` Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

Return Values

Returns a buffered result object or `FALSE` if an error occurred.

Note

`mysqli_store_result` returns `FALSE` in case the query didn't return a result set (if the query was, for example an INSERT statement). This function also returns `FALSE` if the reading of the result set failed. You can check if you have got an error by checking if `mysqli_error` doesn't return an empty string, if `mysqli_errno` returns a non zero value, or if `mysqli_field_count` returns a non zero value. Also possible reason for this function returning `FALSE` after successful call to `mysqli_query` can be too large result set (memory for it cannot be allocated). If `mysqli_field_count` returns a non-zero value, the statement should have produced a non-empty result set.

Notes

Note

Although it is always good practice to free the memory used by the result of a query using the `mysqli_free_result` function, when transferring large result sets using the `mysqli_store_result` this becomes particularly important.

Examples

See `mysqli_multi_query`.

See Also

```
mysqli_real_query  
mysqli_use_result
```

2.4.47. [mysqli::thread_id](#), [mysqli_thread_id](#)

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- [mysqli::thread_id](#)
[mysqli_thread_id](#)

Returns the thread ID for the current connection

Description

Object oriented style (property):

```
mysqli {  
    int thread_id ;  
}
```

Procedural style:

```
int mysqli_thread_id(mysqli link);
```

The [mysqli_thread_id](#) function returns the thread ID for the current connection which can then be killed using the [mysqli_kill](#) function. If the connection is lost and you reconnect with [mysqli_ping](#), the thread ID will be other. Therefore you should get the thread ID only when you need it.

Note

The thread ID is assigned on a connection-by-connection basis. Hence, if the connection is broken and then re-established a new thread ID will be assigned.

To kill a running query you can use the SQL command `KILL QUERY processid`.

Parameters

link Procedural style only: A link identifier returned by [mysqli_connect](#) or [mysqli_init](#)

Return Values

Returns the Thread ID for the current connection.

Examples

Example 2.64. Object oriented style

```
<?php  
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");  
/* check connection */  
if (mysqli_connect_errno()) {  
    printf("Connect failed: %s\n", mysqli_connect_error());  
    exit();  
}  
/* determine our thread id */  
$thread_id = $mysqli->thread_id;  
/* Kill connection */  
$mysqli->kill($thread_id);
```

```
/* This should produce an error */
if (!$mysqli->query("CREATE TABLE myCity LIKE City")) {
    printf("Error: %s\n", $mysqli->error);
    exit;
}
/* close connection */
$mysqli->close();
?>
```

Example 2.65. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* determine our thread id */
$thread_id = mysqli_thread_id($link);
/* Kill connection */
mysqli_kill($link, $thread_id);
/* This should produce an error */
if (!$mysqli_query($link, "CREATE TABLE myCity LIKE City")) {
    printf("Error: %s\n", mysqli_error($link));
    exit;
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Error: MySQL server has gone away
```

See Also

[mysqli_kill](#)

2.4.48. [mysqli::thread_safe](#), [mysqli_thread_safe](#)

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- [mysqli::thread_safe](#)
[mysqli_thread_safe](#)

Returns whether thread safety is given or not

Description

Procedural style:

```
bool mysqli_thread_safe();
```

Tells whether the client library is compiled as thread-safe.

Return Values

`TRUE` if the client library is thread-safe, otherwise `FALSE`.

2.4.49. `mysqli::use_result`, `mysqli_use_result`

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- `mysqli::use_result`

`mysqli_use_result`

Initiate a result set retrieval

Description

Object oriented style (method):

```
mysqli_result use_result();
```

Procedural style:

```
mysqli_result mysqli_use_result(mysqli link);
```

Used to initiate the retrieval of a result set from the last query executed using the `mysqli_real_query` function on the database connection.

Either this or the `mysqli_store_result` function must be called before the results of a query can be retrieved, and one or the other must be called to prevent the next query on that database connection from failing.

Note

The `mysqli_use_result` function does not transfer the entire result set from the database and hence cannot be used functions such as `mysqli_data_seek` to move to a particular row within the set. To use this functionality, the result set must be stored using `mysqli_store_result`. One should not use `mysqli_use_result` if a lot of processing on the client side is performed, since this will tie up the server and prevent other threads from updating any tables from which the data is being fetched.

Return Values

Returns an unbuffered result object or `FALSE` if an error occurred.

Examples

Example 2.66. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT CURRENT_USER();";
$query .= "SELECT Name FROM City ORDER BY ID LIMIT 20, 5";
/* execute multi query */
if ($mysqli->multi_query($query)) {
    do {
        /* store first result set */
        if ($result = $mysqli->use_result()) {
            while ($row = $result->fetch_row()) {
                printf("%s\n", $row[0]);
            }
            $result->close();
        }
        /* print divider */
        if ($mysqli->more_results()) {
            printf("-----\n");
        }
    }
}
```

```
    } while ($mysqli->next_result());
}
/* close connection */
$mysqli->close();
?>
```

Example 2.67. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT CURRENT_USER();";
$query .= "SELECT Name FROM City ORDER BY ID LIMIT 20, 5";
/* execute multi query */
if (mysqli_multi_query($link, $query)) {
    do {
        /* store first result set */
        if ($result = mysqli_use_result($link)) {
            while ($row = mysqli_fetch_row($result)) {
                printf("%s\n", $row[0]);
            }
            mysqli_free_result($result);
        }
        /* print divider */
        if (mysqli_more_results($link)) {
            printf("-----\n");
        }
    } while (mysqli_next_result($link));
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
my_user@localhost
-----
Amersfoort
Maastricht
Dordrecht
Leiden
Haarlemmermeer
```

See Also

[mysqli_real_query](#)
[mysqli_store_result](#)

2.4.50. [mysqli::warning_count](#), [mysqli_warning_count](#)

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- [mysqli::warning_count](#)
[mysqli_warning_count](#)

Returns the number of warnings from the last query for the given link

Description

Object oriented style (property):

```
mysqli {
    int warning_count ;
}
```

Procedural style:

```
int mysqli_warning_count(mysqli link);
```

Returns the number of warnings from the last query in the connection.

Note

For retrieving warning messages you can use the SQL command `SHOW WARNINGS [limit row_count]`.

Parameters

link Procedural style only: A link identifier returned by `mysqli_connect` or `mysqli_init`

Return Values

Number of warnings or zero if there are no warnings.

Examples**Example 2.68. Object oriented style**

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$mysqli->query("CREATE TABLE myCity LIKE City");
/* a remarkable city in Wales */
$query = "INSERT INTO myCity (CountryCode, Name) VALUES('GBR',
'Llanfairpwllgwyngyllgogerychwyrndrobwlllllantysiliogogoch)";
$mysqli->query($query);
if ($mysqli->warning_count) {
    if ($result = $mysqli->query("SHOW WARNINGS")) {
        $row = $result->fetch_row();
        printf("%s (%d): %s\n", $row[0], $row[1], $row[2]);
        $result->close();
    }
}
/* close connection */
$mysqli->close();
?>
```

Example 2.69. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
```

```
mysqli_query($link, "CREATE TABLE myCity LIKE City");
/* a remarkable long city name in Wales */
$query = "INSERT INTO myCity (CountryCode, Name) VALUES('GBR',
'Llanfairpwllgwyngyllgogerychwyrndrobwlllllantysiliogogoch)";
mysqli_query($link, $query);
if (mysqli_warning_count($link)) {
    if ($result = mysqli_query($link, "SHOW WARNINGS")) {
        $row = mysqli_fetch_row($result);
        printf("%s (%d): %s\n", $row[0], $row[1], $row[2]);
        mysqli_free_result($result);
    }
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Warning (1264): Data truncated for column 'Name' at row 1
```

See Also

[mysqli_errno](#)
[mysqli_error](#)
[mysqli_sqlstate](#)

2.5. The `MySQLi_STMT` class ([MySQLi_STMT](#))

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Represents a prepared statement.

```
MySQLi_STMT {
    MySQLi_STMT
        Properties

    int affected_rows ;

    int errno ;

    string error ;

    int field_count ;

    int insert_id ;

    int num_rows ;

    int param_count ;

    string sqlstate ;

    Methods

    int mysqli_stmt_affected_rows(mysqli_stmt stmt);

    int mysqli_stmt_attr_get(mysqli_stmt stmt,
        int attr);

    bool mysqli_stmt_attr_set(mysqli_stmt stmt,
```

```
        int attr,
        int mode);

bool mysqli_stmt::bind_param(string types,
                             mixed var1,
                             mixed ...);

bool mysqli_stmt::bind_result(mixed var1,
                              mixed ...);

bool mysqli_stmt::close();

void mysqli_stmt::data_seek(int offset);

int mysqli_stmt_errno(mysqli_stmt stmt);

string mysqli_stmt_error(mysqli_stmt stmt);

bool mysqli_stmt::execute();

bool mysqli_stmt::fetch();

int mysqli_stmt_field_count(mysqli_stmt stmt);

void mysqli_stmt::free_result();

object mysqli_stmt::get_warnings(mysqli_stmt stmt);

mixed mysqli_stmt_insert_id(mysqli_stmt stmt);

int mysqli_stmt_num_rows(mysqli_stmt stmt);

int mysqli_stmt_param_count(mysqli_stmt stmt);

mixed mysqli_stmt::prepare(string query);

bool mysqli_stmt::reset();

mysqli_result mysqli_stmt::result_metadata();

bool mysqli_stmt::send_long_data(int param_nr,
                                string data);

string mysqli_stmt_sqlstate(mysqli_stmt stmt);

bool mysqli_stmt::store_result();
}
```

2.5.1. [mysqli_stmt->affected_rows](#), [mysqli_stmt_affected_rows](#)

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- [mysqli_stmt->affected_rows](#)
[mysqli_stmt_affected_rows](#)

Returns the total number of rows changed, deleted, or inserted by the last executed statement

Description

Object oriented style (property):

```
mysqli_stmt {
    int affected_rows ;
}
```

Procedural style :

```
int mysqli_stmt_affected_rows(mysqli_stmt stmt);
```

Returns the number of rows affected by [INSERT](#), [UPDATE](#), or [DELETE](#) query.

This function only works with queries which update a table. In order to get the number of rows from a [SELECT](#) query, use [mysqli_stmt_num_rows](#) instead.

Parameters

stmt Procedural style only: A statement identifier returned by [mysqli_stmt_init](#).

Return Values

An integer greater than zero indicates the number of rows affected or retrieved. Zero indicates that no records were updated for an [UPDATE](#)/[DELETE](#) statement, no rows matched the [WHERE](#) clause in the query or that no query has yet been executed. -1 indicates that the query has returned an error.

Note

If the number of affected rows is greater than maximal PHP int value, the number of affected rows will be returned as a string value.

Examples

Example 2.70. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* create temp table */
$mysqli->query("CREATE TEMPORARY TABLE myCountry LIKE Country");
$query = "INSERT INTO myCountry SELECT * FROM Country WHERE Code LIKE ?";
/* prepare statement */
if ($stmt = $mysqli->prepare($query)) {
    /* Bind variable for placeholder */
    $code = 'A%';
    $stmt->bind_param("s", $code);
    /* execute statement */
    $stmt->execute();
    printf("rows inserted: %d\n", $stmt->affected_rows);
    /* close statement */
    $stmt->close();
}
/* close connection */
$mysqli->close();
?>
```

Example 2.71. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* create temp table */
mysqli_query($link, "CREATE TEMPORARY TABLE myCountry LIKE Country");
$query = "INSERT INTO myCountry SELECT * FROM Country WHERE Code LIKE ?";
/* prepare statement */
if ($stmt = mysqli_prepare($link, $query)) {
    /* Bind variable for placeholder */
    $code = 'A%';
    mysqli_stmt_bind_param($stmt, "s", $code);
    /* execute statement */
    mysqli_stmt_execute($stmt);
    printf("rows inserted: %d\n", mysqli_stmt_affected_rows($stmt));
    /* close statement */
    mysqli_stmt_close($stmt);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
rows inserted: 17
```

See Also

[mysqli_stmt_num_rows](#)
[mysqli_prepare](#)

2.5.2. [mysqli_stmt::attr_get](#), [mysqli_stmt_attr_get](#)

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- [mysqli_stmt::attr_get](#)
[mysqli_stmt_attr_get](#)

Description

```
int mysqli_stmt_attr_get(mysqli_stmt stmt,
                        int attr);
```

Warning

This function is currently not documented; only its argument list is available.

2.5.3. [mysqli_stmt::attr_set](#), [mysqli_stmt_attr_set](#)

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- [mysqli_stmt::attr_set](#)

`mysqli_stmt_attr_set`**Description**

```
bool mysqli_stmt_attr_set(mysqli_stmt stmt,
                          int attr,
                          int mode);
```

Warning

This function is currently not documented; only its argument list is available.

2.5.4. `mysqli_stmt::bind_param`, `mysqli_stmt_bind_param`

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- `mysqli_stmt::bind_param`

`mysqli_stmt_bind_param`

Binds variables to a prepared statement as parameters

Description

Object oriented style (method):

```
bool mysqli_stmt::bind_param(string types,
                             mixed var1,
                             mixed ...);
```

Procedural style:

```
bool mysqli_stmt_bind_param(mysqli_stmt stmt,
                             string types,
                             mixed var1,
                             mixed ...);
```

Bind variables for the parameter markers in the SQL statement that was passed to `mysqli_prepare`.

Note

If data size of a variable exceeds max. allowed packet size (`max_allowed_packet`), you have to specify `b` in `types` and use `mysqli_stmt_send_long_data` to send the data in packets.

Parameters`stmt`

Procedural style only: A statement identifier returned by `mysqli_stmt_init`.

`types`

A string that contains one or more characters which specify the types for the corresponding bind variables:

Table 2.5. Type specification chars

Character	Description
i	corresponding variable has type integer
d	corresponding variable has type double
s	corresponding variable has type string
b	corresponding variable is a blob and will be sent in packets

*var1*The number of variables and length of string *types* must match the parameters in the statement.**Return Values**Returns **TRUE** on success or **FALSE** on failure.**Examples****Example 2.72. Object oriented style**

```

<?php
$mysqli = new mysqli('localhost', 'my_user', 'my_password', 'world');
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$stmt = $mysqli->prepare("INSERT INTO CountryLanguage VALUES (?, ?, ?, ?)");
$stmt->bind_param('sssd', $code, $language, $official, $percent);
$code = 'DEU';
$language = 'Bavarian';
$official = "F";
$percent = 11.2;
/* execute prepared statement */
$stmt->execute();
printf("%d Row inserted.\n", $stmt->affected_rows);
/* close statement and connection */
$stmt->close();
/* Clean up table CountryLanguage */
$mysqli->query("DELETE FROM CountryLanguage WHERE Language='Bavarian'");
printf("%d Row deleted.\n", $mysqli->affected_rows);
/* close connection */
$mysqli->close();
?>

```

Example 2.73. Procedural style

```

<?php
$link = mysqli_connect('localhost', 'my_user', 'my_password', 'world');
/* check connection */
if (!$link) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$stmt = mysqli_prepare($link, "INSERT INTO CountryLanguage VALUES (?, ?, ?, ?)");
mysqli_stmt_bind_param($stmt, 'sssd', $code, $language, $official, $percent);
$code = 'DEU';
$language = 'Bavarian';
$official = "F";
$percent = 11.2;
/* execute prepared statement */
mysqli_stmt_execute($stmt);
printf("%d Row inserted.\n", mysqli_stmt_affected_rows($stmt));
/* close statement and connection */
mysqli_stmt_close($stmt);
/* Clean up table CountryLanguage */
mysqli_query($link, "DELETE FROM CountryLanguage WHERE Language='Bavarian'");
printf("%d Row deleted.\n", mysqli_affected_rows($link));
/* close connection */
mysqli_close($link);
?>

```

The above example will output:

1 Row inserted.

```
1 Row deleted.
```

See Also

```
mysqli_stmt_bind_result
mysqli_stmt_execute
mysqli_stmt_fetch
mysqli_prepare
mysqli_stmt_send_long_data
mysqli_stmt_errno
mysqli_stmt_error
```

2.5.5. `mysqli_stmt::bind_result`, `mysqli_stmt_bind_result`

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- `mysqli_stmt::bind_result`

```
mysqli_stmt_bind_result
```

Binds variables to a prepared statement for result storage

Description

Object oriented style (method):

```
bool mysqli_stmt::bind_result(mixed var1,
                             mixed ...);
```

Procedural style:

```
bool mysqli_stmt_bind_result(mysqli_stmt stmt,
                             mixed var1,
                             mixed ...);
```

Binds columns in the result set to variables.

When `mysqli_stmt_fetch` is called to fetch data, the MySQL client/server protocol places the data for the bound columns into the specified variables `var1`, `...`

Note

Note that all columns must be bound after `mysqli_stmt_execute` and prior to calling `mysqli_stmt_fetch`. Depending on column types bound variables can silently change to the corresponding PHP type.

A column can be bound or rebound at any time, even after a result set has been partially retrieved. The new binding takes effect the next time `mysqli_stmt_fetch` is called.

Parameters

`stmt` Procedural style only: A statement identifier returned by `mysqli_stmt_init`.

`var1` The variable to be bound.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Examples

Example 2.74. Object oriented style

```
<?php
mysqli = new mysqli("localhost", "my_user", "my_password", "world");
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* prepare statement */
if ($stmt = mysqli_prepare("SELECT Code, Name FROM Country ORDER BY Name LIMIT 5")) {
    $stmt->execute();
    /* bind variables to prepared statement */
    $stmt->bind_result($col1, $col2);
    /* fetch values */
    while ($stmt->fetch()) {
        printf("%s %s\n", $col1, $col2);
    }
    /* close statement */
    $stmt->close();
}
/* close connection */
mysqli->close();
?>
```

Example 2.75. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (!$link) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* prepare statement */
if ($stmt = mysqli_prepare($link, "SELECT Code, Name FROM Country ORDER BY Name LIMIT 5")) {
    mysqli_stmt_execute($stmt);
    /* bind variables to prepared statement */
    mysqli_stmt_bind_result($stmt, $col1, $col2);
    /* fetch values */
    while (mysqli_stmt_fetch($stmt)) {
        printf("%s %s\n", $col1, $col2);
    }
    /* close statement */
    mysqli_stmt_close($stmt);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
AFG Afghanistan
ALB Albania
DZA Algeria
ASM American Samoa
AND Andorra
```

See Also

[mysqli_stmt_bind_param](#)
[mysqli_stmt_execute](#)

```
mysqli_stmt_fetch  
mysqli_prepare  
mysqli_stmt_prepare  
mysqli_stmt_init  
mysqli_stmt_errno  
mysqli_stmt_error
```

2.5.6. `mysqli_stmt::close`, `mysqli_stmt_close`

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- `mysqli_stmt::close`
`mysqli_stmt_close`
Closes a prepared statement

Description

Object oriented style (method):

```
bool mysqli_stmt::close();
```

Procedural style:

```
bool mysqli_stmt_close(mysqli_stmt stmt);
```

Closes a prepared statement. `mysqli_stmt_close` also deallocates the statement handle. If the current statement has pending or unread results, this function cancels them so that the next query can be executed.

Parameters

stmt Procedural style only: A statement identifier returned by `mysqli_stmt_init`.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

See Also

`mysqli_prepare`

2.5.7. `mysqli_stmt::data_seek`, `mysqli_stmt_data_seek`

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- `mysqli_stmt::data_seek`
`mysqli_stmt_data_seek`
Seeks to an arbitrary row in statement result set

Description

Object oriented style (method):

```
void mysqli_stmt::data_seek(int offset);
```

Procedural style:

```
void mysqli_stmt_data_seek(mysqli_stmt stmt,
                          int offset);
```

Seeks to an arbitrary result pointer in the statement result set.

Parameters

<i>stmt</i>	Procedural style only: A statement identifier returned by <code>mysqli_stmt_init</code> .
<i>offset</i>	Must be between zero and the total number of rows minus one (0.. <code>mysqli_stmt_num_rows</code> - 1).

Return Values

No value is returned.

Examples

Example 2.76. Object oriented style

```
<?php
/* Open a connection */
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, CountryCode FROM City ORDER BY Name";
if ($stmt = $mysqli->prepare($query)) {
    /* execute query */
    $stmt->execute();
    /* bind result variables */
    $stmt->bind_result($name, $code);
    /* store result */
    $stmt->store_result();
    /* seek to row no. 400 */
    $stmt->data_seek(399);
    /* fetch values */
    $stmt->fetch();
    printf("City: %s Countrycode: %s\n", $name, $code);
    /* close statement */
    $stmt->close();
}
/* close connection */
$mysqli->close();
?>
```

Example 2.77. Procedural style

```
<?php
/* Open a connection */
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, CountryCode FROM City ORDER BY Name";
if ($stmt = mysqli_prepare($link, $query)) {
    /* execute query */
    mysqli_stmt_execute($stmt);
    /* bind result variables */
    mysqli_stmt_bind_result($stmt, $name, $code);
    /* store result */
```

```
mysqli_stmt_store_result($stmt);
/* seek to row no. 400 */
mysqli_stmt_data_seek($stmt, 399);
/* fetch values */
mysqli_stmt_fetch($stmt);
printf ("City: %s Countrycode: %s\n", $name, $code);
/* close statement */
mysqli_stmt_close($stmt);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
City: Benin City Countrycode: NGA
```

See Also

[mysqli_prepare](#)

2.5.8. [mysqli_stmt->errno](#), [mysqli_stmt_errno](#)

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- [mysqli_stmt->errno](#)
[mysqli_stmt_errno](#)

Returns the error code for the most recent statement call

Description

Object oriented style (property):

```
mysqli_stmt {
    int errno ;
}
```

Procedural style :

```
int mysqli_stmt_errno(mysqli_stmt stmt);
```

Returns the error code for the most recently invoked statement function that can succeed or fail.

Client error message numbers are listed in the MySQL [errmsg.h](#) header file, server error message numbers are listed in [mysqld_error.h](#). In the MySQL source distribution you can find a complete list of error messages and error numbers in the file [Docs/mysqld_error.txt](#).

Parameters

stmt

Procedural style only: A statement identifier returned by [mysqli_stmt_init](#).

Return Values

An error code value. Zero means no error occurred.

Examples

Example 2.78. Object oriented style

```
<?php
/* Open a connection */
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$mysqli->query("CREATE TABLE myCountry LIKE Country");
$mysqli->query("INSERT INTO myCountry SELECT * FROM Country");
$query = "SELECT Name, Code FROM myCountry ORDER BY Name";
if ($stmt = $mysqli->prepare($query)) {
    /* drop table */
    $mysqli->query("DROP TABLE myCountry");
    /* execute query */
    $stmt->execute();
    printf("Error: %d.\n", $stmt->errno);
    /* close statement */
    $stmt->close();
}
/* close connection */
$mysqli->close();
?>
```

Example 2.79. Procedural style

```
<?php
/* Open a connection */
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
mysqli_query($link, "CREATE TABLE myCountry LIKE Country");
mysqli_query($link, "INSERT INTO myCountry SELECT * FROM Country");
$query = "SELECT Name, Code FROM myCountry ORDER BY Name";
if ($stmt = mysqli_prepare($link, $query)) {
    /* drop table */
    mysqli_query($link, "DROP TABLE myCountry");
    /* execute query */
    mysqli_stmt_execute($stmt);
    printf("Error: %d.\n", mysqli_stmt_errno($stmt));
    /* close statement */
    mysqli_stmt_close($stmt);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Error: 1146.
```

See Also

[mysqli_stmt_error](#)

`mysqli_stmt_sqlstate`

2.5.9. `mysqli_stmt->error`, `mysqli_stmt_error`

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- `mysqli_stmt->error`
`mysqli_stmt_error`

Returns a string description for last statement error

Description

Object oriented style (property):

```
mysqli_stmt {
    string error ;
}
```

Procedural style:

```
string mysqli_stmt_error(mysqli_stmt stmt);
```

Returns a containing the error message for the most recently invoked statement function that can succeed or fail.

Parameters

stmt

Procedural style only: A statement identifier returned by `mysqli_stmt_init`.

Return Values

A string that describes the error. An empty string if no error occurred.

Examples

Example 2.80. Object oriented style

```
<?php
/* Open a connection */
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$mysqli->query("CREATE TABLE myCountry LIKE Country");
$mysqli->query("INSERT INTO myCountry SELECT * FROM Country");
$query = "SELECT Name, Code FROM myCountry ORDER BY Name";
if ($stmt = $mysqli->prepare($query)) {
    /* drop table */
    $mysqli->query("DROP TABLE myCountry");
    /* execute query */
    $stmt->execute();
    printf("Error: %s.\n", $stmt->error);
    /* close statement */
    $stmt->close();
}
/* close connection */
$mysqli->close();
?>
```

Example 2.81. Procedural style

```
<?php
/* Open a connection */
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
mysqli_query($link, "CREATE TABLE myCountry LIKE Country");
mysqli_query($link, "INSERT INTO myCountry SELECT * FROM Country");
$query = "SELECT Name, Code FROM myCountry ORDER BY Name";
if ($stmt = mysqli_prepare($link, $query)) {
    /* drop table */
    mysqli_query($link, "DROP TABLE myCountry");
    /* execute query */
    mysqli_stmt_execute($stmt);
    printf("Error: %s.\n", mysqli_stmt_error($stmt));
    /* close statement */
    mysqli_stmt_close($stmt);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Error: Table 'world.myCountry' doesn't exist.
```

See Also

[mysqli_stmt_errno](#)
[mysqli_stmt_sqlstate](#)

2.5.10. [mysqli_stmt->execute](#), [mysqli_stmt_execute](#)

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- [mysqli_stmt->execute](#)

[mysqli_stmt_execute](#)

Executes a prepared Query

Description

Object oriented style (method):

```
bool mysqli_stmt::execute();
```

Procedural style:

```
bool mysqli_stmt_execute(mysqli_stmt stmt);
```

Executes a query that has been previously prepared using the [mysqli_prepare](#) function. When executed any parameter markers which exist will automatically be replaced with the appropriate data.

If the statement is [UPDATE](#), [DELETE](#), or [INSERT](#), the total number of affected rows can be determined by using the

`mysqli_stmt_affected_rows` function. Likewise, if the query yields a result set the `mysqli_stmt_fetch` function is used.

Note

When using `mysqli_stmt_execute`, the `mysqli_stmt_fetch` function must be used to fetch the data prior to performing any additional queries.

Parameters

stmt Procedural style only: A statement identifier returned by `mysqli_stmt_init`.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Examples

Example 2.82. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$mysqli->query("CREATE TABLE myCity LIKE City");
/* Prepare an insert statement */
$query = "INSERT INTO myCity (Name, CountryCode, District) VALUES (?, ?, ?)";
$stmt = $mysqli->prepare($query);
$stmt->bind_param("sss", $val1, $val2, $val3);
$val1 = 'Stuttgart';
$val2 = 'DEU';
$val3 = 'Baden-Wuerttemberg';
/* Execute the statement */
$stmt->execute();
$val1 = 'Bordeaux';
$val2 = 'FRA';
$val3 = 'Aquitaine';
/* Execute the statement */
$stmt->execute();
/* close statement */
$stmt->close();
/* retrieve all rows from myCity */
$query = "SELECT Name, CountryCode, District FROM myCity";
if ($result = $mysqli->query($query)) {
    while ($row = $result->fetch_row()) {
        printf("%s (%s,%s)\n", $row[0], $row[1], $row[2]);
    }
}
/* free result set */
$result->close();
}
/* remove table */
$mysqli->query("DROP TABLE myCity");
/* close connection */
$mysqli->close();
?>
```

Example 2.83. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
mysqli_query($link, "CREATE TABLE myCity LIKE City");
/* Prepare an insert statement */
```

```

$query = "INSERT INTO myCity (Name, CountryCode, District) VALUES (?, ?, ?)";
$stmt = mysqli_prepare($link, $query);
mysqli_stmt_bind_param($stmt, "sss", $val1, $val2, $val3);
$val1 = 'Stuttgart';
$val2 = 'DEU';
$val3 = 'Baden-Wuerttemberg';
/* Execute the statement */
mysqli_stmt_execute($stmt);
$val1 = 'Bordeaux';
$val2 = 'FRA';
$val3 = 'Aquitaine';
/* Execute the statement */
mysqli_stmt_execute($stmt);
/* close statement */
mysqli_stmt_close($stmt);
/* retrieve all rows from myCity */
$query = "SELECT Name, CountryCode, District FROM myCity";
if ($result = mysqli_query($link, $query)) {
    while ($row = mysqli_fetch_row($result)) {
        printf("%s (%s,%s)\n", $row[0], $row[1], $row[2]);
    }
    /* free result set */
    mysqli_free_result($result);
}
/* remove table */
mysqli_query($link, "DROP TABLE myCity");
/* close connection */
mysqli_close($link);
?>

```

The above example will output:

```

Stuttgart (DEU,Baden-Wuerttemberg)
Bordeaux (FRA,Aquitaine)

```

See Also

[mysqli_prepare](#)
[mysqli_stmt_bind_param](#)

2.5.11. [mysqli_stmt::fetch](#), [mysqli_stmt_fetch](#)

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- [mysqli_stmt::fetch](#)
[mysqli_stmt_fetch](#)

Fetch results from a prepared statement into the bound variables

Description

Object oriented style (method):

```
bool mysqli_stmt::fetch();
```

Procedural style:

```
bool mysqli_stmt_fetch(mysqli_stmt stmt);
```

Fetch the result from a prepared statement into the variables bound by [mysqli_stmt_bind_result](#).

■ Note

Note that all columns must be bound by the application before calling `mysqli_stmt_fetch`.

Parameters

`stmt` Procedural style only: A statement identifier returned by `mysqli_stmt_init`.

Return Values

Table 2.6. Return Values

Value	Description
TRUE	Success. Data has been fetched
FALSE	Error occurred
NULL	No more rows/data exists or data truncation occurred

Examples

Example 2.84. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, CountryCode FROM City ORDER by ID DESC LIMIT 150,5";
if ($stmt = $mysqli->prepare($query)) {
    /* execute statement */
    $stmt->execute();
    /* bind result variables */
    $stmt->bind_result($name, $code);
    /* fetch values */
    while ($stmt->fetch()) {
        printf ("%s (%s)\n", $name, $code);
    }
    /* close statement */
    $stmt->close();
}
/* close connection */
$mysqli->close();
?>
```

Example 2.85. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, CountryCode FROM City ORDER by ID DESC LIMIT 150,5";
if ($stmt = mysqli_prepare($link, $query)) {
    /* execute statement */
    mysqli_stmt_execute($stmt);
    /* bind result variables */
    mysqli_stmt_bind_result($stmt, $name, $code);
    /* fetch values */
    while (mysqli_stmt_fetch($stmt)) {
        printf ("%s (%s)\n", $name, $code);
    }
    /* close statement */
    mysqli_stmt_close($stmt);
}
```

```
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Rockford (USA)
Tallahassee (USA)
Salinas (USA)
Santa Clarita (USA)
Springfield (USA)
```

See Also

```
mysqli_prepare
mysqli_stmt_errno
mysqli_stmt_error
mysqli_stmt_bind_result
```

2.5.12. [mysqli_stmt->field_count](#), [mysqli_stmt_field_count](#)

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- [mysqli_stmt->field_count](#)
[mysqli_stmt_field_count](#)

Returns the number of field in the given statement

Description

```
mysqli_stmt {
    int field_count ;
}
```

```
int mysqli_stmt_field_count(mysqli_stmt stmt);
```

Warning

This function is currently not documented; only its argument list is available.

2.5.13. [stmt::free_result](#), [mysqli_stmt_free_result](#)

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- [stmt::free_result](#)
[mysqli_stmt_free_result](#)

Frees stored result memory for the given statement handle

Description

Object oriented style (method):

```
void mysqli_stmt::free_result();
```

Procedural style:

```
void mysqli_stmt_free_result(mysqli_stmt stmt);
```

Frees the result memory associated with the statement, which was allocated by `mysqli_stmt_store_result`.

Parameters

stmt Procedural style only: A statement identifier returned by `mysqli_stmt_init`.

Return Values

No value is returned.

See Also

`mysqli_stmt_store_result`

2.5.14. `mysqli_stmt::get_warnings`, `mysqli_stmt_get_warnings`

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- `mysqli_stmt::get_warnings`
`mysqli_stmt_get_warnings`

Description

```
object mysqli_stmt::get_warnings(mysqli_stmt stmt);
```

```
object mysqli_stmt_get_warnings(mysqli_stmt stmt);
```

Warning

This function is currently not documented; only its argument list is available.

2.5.15. `mysqli_stmt->insert_id`, `mysqli_stmt_insert_id`

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- `mysqli_stmt->insert_id`
`mysqli_stmt_insert_id`
Get the ID generated from the previous INSERT operation

Description

```
mysqli_stmt {  
    int insert_id ;  
}
```

```
mixed mysqli_stmt_insert_id(mysqli_stmt $stmt);
```

Warning

This function is currently not documented; only its argument list is available.

2.5.16. `mysqli_stmt::num_rows`, `mysqli_stmt_num_rows`

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- `mysqli_stmt::num_rows`
`mysqli_stmt_num_rows`

Return the number of rows in statements result set

Description

Object oriented style (property):

```
mysqli_stmt {
    int num_rows ;
}
```

Procedural style :

```
int mysqli_stmt_num_rows(mysqli_stmt $stmt);
```

Returns the number of rows in the result set. The use of `mysqli_stmt_num_rows` depends on whether or not you used `mysqli_stmt_store_result` to buffer the entire result set in the statement handle.

If you use `mysqli_stmt_store_result`, `mysqli_stmt_num_rows` may be called immediately.

Parameters

stmt Procedural style only: A statement identifier returned by `mysqli_stmt_init`.

Return Values

An integer representing the number of rows in result set.

Examples

Example 2.86. Object oriented style

```
<?php
/* Open a connection */
mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, CountryCode FROM City ORDER BY Name LIMIT 20";
if ($stmt = $mysqli->prepare($query)) {
    /* execute query */
    $stmt->execute();
    /* store result */
    $stmt->store_result();
    printf("Number of rows: %d.\n", $stmt->num_rows);
    /* close statement */
```

```
$stmt->close();
}
/* close connection */
mysqli->close();
?>
```

Example 2.87. Procedural style

```
<?php
/* Open a connection */
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, CountryCode FROM City ORDER BY Name LIMIT 20";
if ($stmt = mysqli_prepare($link, $query)) {
    /* execute query */
    mysqli_stmt_execute($stmt);
    /* store result */
    mysqli_stmt_store_result($stmt);
    printf("Number of rows: %d.\n", mysqli_stmt_num_rows($stmt));
    /* close statement */
    mysqli_stmt_close($stmt);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Number of rows: 20.
```

See Also

[mysqli_stmt_affected_rows](#)
[mysqli_prepare](#)
[mysqli_stmt_store_result](#)

2.5.17. [mysqli_stmt->param_count](#), [mysqli_stmt_param_count](#)

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- [mysqli_stmt->param_count](#)
[mysqli_stmt_param_count](#)

Returns the number of parameter for the given statement

Description

Object oriented style (property):

```
mysqli_stmt {
    int param_count ;
}
```

Procedural style:

```
int mysqli_stmt_param_count(mysqli_stmt stmt);
```

Returns the number of parameter markers present in the prepared statement.

Parameters

stmt Procedural style only: A statement identifier returned by `mysqli_stmt_init`.

Return Values

Returns an integer representing the number of parameters.

Examples

Example 2.88. Object oriented style

```
<?php
mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
if ($stmt = $mysqli->prepare("SELECT Name FROM Country WHERE Name=? OR Code=?")) {
    $marker = $stmt->param_count;
    printf("Statement has %d markers.\n", $marker);
    /* close statement */
    $stmt->close();
}
/* close connection */
$mysqli->close();
?>
```

Example 2.89. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
if ($stmt = mysqli_prepare($link, "SELECT Name FROM Country WHERE Name=? OR Code=?")) {
    $marker = mysqli_stmt_param_count($stmt);
    printf("Statement has %d markers.\n", $marker);
    /* close statement */
    mysqli_stmt_close($stmt);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Statement has 2 markers.
```

See Also[mysqli_prepare](#)**2.5.18. [mysqli_stmt::prepare](#), [mysqli_stmt_prepare](#)**

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- [mysqli_stmt::prepare](#)
[mysqli_stmt_prepare](#)

Prepare a SQL statement for execution

Description

Object oriented style (method)

```
mixed mysqli_stmt::prepare(string query);
```

Procedure style:

```
bool mysqli_stmt_prepare(mysqli_stmt stmt,  
string query);
```

Prepares the SQL query pointed to by the null-terminated string query.

The parameter markers must be bound to application variables using [mysqli_stmt_bind_param](#) and/or [mysqli_stmt_bind_result](#) before executing the statement or fetching rows.**Parameters***stmt*Procedural style only: A statement identifier returned by [mysqli_stmt_init](#).*query*

The query, as a string. It must consist of a single SQL statement.

You can include one or more parameter markers in the SQL statement by embedding question mark (?) characters at the appropriate positions.

NoteYou should not add a terminating semicolon or `\g` to the statement.**Note**The markers are legal only in certain places in SQL statements. For example, they are allowed in the `VALUES()` list of an `INSERT` statement (to specify column values for a row), or in a comparison with a column in a `WHERE` clause to specify a comparison value.However, they are not allowed for identifiers (such as table or column names), in the select list that names the columns to be returned by a `SELECT` statement), or to specify both operands of a binary operator such as the `=` equal sign. The latter restriction is necessary because it would be impossible to determine the parameter type. In general, parameters are legal only in Data Manipulation Language (DML) statements, and not in Data Definition Language (DDL) statements.**Return Values**Returns `TRUE` on success or `FALSE` on failure.**Examples**

Example 2.90. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$city = "Amersfoort";
/* create a prepared statement */
$stmt = $mysqli->stmt_init();
if ($stmt->prepare("SELECT District FROM City WHERE Name=?")) {
    /* bind parameters for markers */
    $stmt->bind_param("s", $city);
    /* execute query */
    $stmt->execute();
    /* bind result variables */
    $stmt->bind_result($district);
    /* fetch value */
    $stmt->fetch();
    printf("%s is in district %s\n", $city, $district);
    /* close statement */
    $stmt->close();
}
/* close connection */
$mysqli->close();
?>
```

Example 2.91. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$city = "Amersfoort";
/* create a prepared statement */
$stmt = mysqli_stmt_init($link);
if (mysqli_stmt_prepare($stmt, 'SELECT District FROM City WHERE Name=?')) {
    /* bind parameters for markers */
    mysqli_stmt_bind_param($stmt, "s", $city);
    /* execute query */
    mysqli_stmt_execute($stmt);
    /* bind result variables */
    mysqli_stmt_bind_result($stmt, $district);
    /* fetch value */
    mysqli_stmt_fetch($stmt);
    printf("%s is in district %s\n", $city, $district);
    /* close statement */
    mysqli_stmt_close($stmt);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Amersfoort is in district Utrecht
```

See Also

[mysqli_stmt_init](#), [mysqli_stmt_execute](#), [mysqli_stmt_fetch](#), [mysqli_stmt_bind_param](#), [mysqli_stmt_bind_result](#) [mysqli_stmt_close](#).

2.5.19. `mysqli_stmt::reset`, `mysqli_stmt_reset`

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- `mysqli_stmt::reset`
`mysqli_stmt_reset`
Resets a prepared statement

Description

Object oriented style (method):

```
bool mysqli_stmt::reset();
```

Procedural style:

```
bool mysqli_stmt_reset(mysqli_stmt stmt);
```

Resets a prepared statement on client and server to state after prepare.

For now this is mainly used to reset data sent with `mysqli_stmt_send_long_data`.

To prepare a statement with another query use function `mysqli_stmt_prepare`.

Parameters

stmt Procedural style only: A statement identifier returned by `mysqli_stmt_init`.

Return Values

Returns `TRUE` on success or `FALSE` on failure.

See Also

`mysqli_prepare`

2.5.20. `mysqli_stmt::result_metadata`, `mysqli_stmt_result_metadata`

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- `mysqli_stmt::result_metadata`
`mysqli_stmt_result_metadata`
Returns result set metadata from a prepared statement

Description

Object oriented style (method):

```
mysqli_result mysqli_stmt::result_metadata();
```

Procedural style:

```
mysqli_result mysqli_stmt_result_metadata(mysqli_stmt stmt);
```

If a statement passed to `mysqli_prepare` is one that produces a result set, `mysqli_stmt_result_metadata` returns the result object that can be used to process the meta information such as total number of fields and individual field information.

Note

This result set pointer can be passed as an argument to any of the field-based functions that process result set metadata, such as:

- `mysqli_num_fields`
- `mysqli_fetch_field`
- `mysqli_fetch_field_direct`
- `mysqli_fetch_fields`
- `mysqli_field_count`
- `mysqli_field_seek`
- `mysqli_field_tell`
- `mysqli_free_result`

The result set structure should be freed when you are done with it, which you can do by passing it to `mysqli_free_result`

Note

The result set returned by `mysqli_stmt_result_metadata` contains only metadata. It does not contain any row results. The rows are obtained by using the statement handle with `mysqli_stmt_fetch`.

Parameters

stmt Procedural style only: A statement identifier returned by `mysqli_stmt_init`.

Return Values

Returns a result object or `FALSE` if an error occurred.

Examples

Example 2.92. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "test");
$mysqli->query("DROP TABLE IF EXISTS friends");
$mysqli->query("CREATE TABLE friends (id int, name varchar(20))");
$mysqli->query("INSERT INTO friends VALUES (1, 'Hartmut'), (2, 'Ulf')");
$stmt = $mysqli->prepare("SELECT id, name FROM friends");
$stmt->execute();
/* get resultset for metadata */
$result = $stmt->result_metadata();
/* retrieve field information from metadata result set */
$field = $result->fetch_field();
printf("Fieldname: %s\n", $field->name);
/* close resultset */
$result->close();
/* close connection */
$mysqli->close();
?>
```

Example 2.93. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "test");
mysqli_query($link, "DROP TABLE IF EXISTS friends");
mysqli_query($link, "CREATE TABLE friends (id int, name varchar(20))");
mysqli_query($link, "INSERT INTO friends VALUES (1, 'Hartmut'), (2, 'Ulf')");
$stmt = mysqli_prepare($link, "SELECT id, name FROM friends");
mysqli_stmt_execute($stmt);
/* get resultset for metadata */
$result = mysqli_stmt_result_metadata($stmt);
/* retrieve field information from metadata result set */
$field = mysqli_fetch_field($result);
printf("Fieldname: %s\n", $field->name);
/* close resultset */
mysqli_free_result($result);
/* close connection */
mysqli_close($link);
?>
```

See Also

[mysqli_prepare](#)
[mysqli_free_result](#)

2.5.21. [mysqli_stmt::send_long_data](#), [mysqli_stmt_send_long_data](#)

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- [mysqli_stmt::send_long_data](#)
[mysqli_stmt_send_long_data](#)

Send data in blocks

Description

Object oriented style (method)

```
bool mysqli_stmt::send_long_data(int param_nr,
                                string data);
```

Procedural style:

```
bool mysqli_stmt_send_long_data(mysqli_stmt stmt,
                                int param_nr,
                                string data);
```

Allows to send parameter data to the server in pieces (or chunks), e.g. if the size of a blob exceeds the size of [max_allowed_packet](#). This function can be called multiple times to send the parts of a character or binary data value for a column, which must be one of the TEXT or BLOB datatypes.

Parameters

- | | |
|-----------------|---|
| <i>stmt</i> | Procedural style only: A statement identifier returned by mysqli_stmt_init . |
| <i>param_nr</i> | Indicates which parameter to associate the data with. Parameters are numbered beginning with 0. |
| <i>data</i> | A string containing data to be sent. |

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Examples

Example 2.94. Object oriented style

```
<?php
$stmt = $mysqli->prepare("INSERT INTO messages (message) VALUES (?)");
>null = NULL;
$stmt->bind_param("b", $null);
$fp = fopen("messages.txt", "r");
while (!feof($fp)) {
    $stmt->send_long_data(0, fread($fp, 8192));
}
fclose($fp);
$stmt->execute();
?>
```

See Also

`mysqli_prepare`
`mysqli_stmt_bind_param`

2.5.22. `mysqli_stmt::sqlstate`, `mysqli_stmt_sqlstate`

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- `mysqli_stmt::sqlstate`
`mysqli_stmt_sqlstate`

Returns SQLSTATE error from previous statement operation

Description

Object oriented style (property):

```
mysqli_stmt {
    string sqlstate ;
}
```

Procedural style:

```
string mysqli_stmt_sqlstate(mysqli_stmt stmt);
```

Returns a string containing the SQLSTATE error code for the most recently invoked prepared statement function that can succeed or fail. The error code consists of five characters. `'00000'` means no error. The values are specified by ANSI SQL and ODBC. For a list of possible values, see <http://dev.mysql.com/doc/mysql/en/error-handling.html>.

Parameters

`stmt`

Procedural style only: A statement identifier returned by `mysqli_stmt_init`.

Return Values

Returns a string containing the SQLSTATE error code for the last error. The error code consists of five characters. '00000' means no error.

Notes

Note

Note that not all MySQL errors are yet mapped to SQLSTATE's. The value `HY000` (general error) is used for unmapped errors.

Examples

Example 2.95. Object oriented style

```
<?php
/* Open a connection */
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$mysqli->query("CREATE TABLE myCountry LIKE Country");
$mysqli->query("INSERT INTO myCountry SELECT * FROM Country");
$query = "SELECT Name, Code FROM myCountry ORDER BY Name";
if ($stmt = $mysqli->prepare($query)) {
    /* drop table */
    $mysqli->query("DROP TABLE myCountry");
    /* execute query */
    $stmt->execute();
    printf("Error: %s.\n", $stmt->sqlstate);
    /* close statement */
    $stmt->close();
}
/* close connection */
$mysqli->close();
?>
```

Example 2.96. Procedural style

```
<?php
/* Open a connection */
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
mysqli_query($link, "CREATE TABLE myCountry LIKE Country");
mysqli_query($link, "INSERT INTO myCountry SELECT * FROM Country");
$query = "SELECT Name, Code FROM myCountry ORDER BY Name";
if ($stmt = mysqli_prepare($link, $query)) {
    /* drop table */
    mysqli_query($link, "DROP TABLE myCountry");
    /* execute query */
    mysqli_stmt_execute($stmt);
    printf("Error: %s.\n", mysqli_stmt_sqlstate($stmt));
    /* close statement */
    mysqli_stmt_close($stmt);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Error: 42S02.
```

See Also

```
mysqli_stmt_errno
mysqli_stmt_error
```

2.5.23. [mysqli_stmt::store_result](#), [mysqli_stmt_store_result](#)

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- [mysqli_stmt::store_result](#)
[mysqli_stmt_store_result](#)

Transfers a result set from a prepared statement

Description

Object oriented style (method):

```
bool mysqli_stmt::store_result();
```

Procedural style:

```
bool mysqli_stmt_store_result(mysqli_stmt $stmt);
```

You must call [mysqli_stmt_store_result](#) for every query that successfully produces a result set ([SELECT](#), [SHOW](#), [DESCRIBE](#), [EXPLAIN](#)), and only if you want to buffer the complete result set by the client, so that the subsequent [mysqli_stmt_fetch](#) call returns buffered data.

Note

It is unnecessary to call [mysqli_stmt_store_result](#) for other queries, but if you do, it will not harm or cause any notable performance in all cases. You can detect whether the query produced a result set by checking if [mysqli_stmt_result_metadata](#) returns NULL.

Parameters

stmt

Procedural style only: A statement identifier returned by [mysqli_stmt_init](#).

Return Values

Returns [TRUE](#) on success or [FALSE](#) on failure.

Examples**Example 2.97. Object oriented style**

```
<?php
/* Open a connection */
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, CountryCode FROM City ORDER BY Name LIMIT 20";
```

```

if ($stmt = $mysqli->prepare($query)) {
    /* execute query */
    $stmt->execute();
    /* store result */
    $stmt->store_result();
    printf("Number of rows: %d.\n", $stmt->num_rows);
    /* free result */
    $stmt->free_result();
    /* close statement */
    $stmt->close();
}
/* close connection */
$mysqli->close();
?>

```

Example 2.98. Procedural style

```

<?php
/* Open a connection */
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, CountryCode FROM City ORDER BY Name LIMIT 20";
if ($stmt = mysqli_prepare($link, $query)) {
    /* execute query */
    mysqli_stmt_execute($stmt);
    /* store result */
    mysqli_stmt_store_result($stmt);
    printf("Number of rows: %d.\n", mysqli_stmt_num_rows($stmt));
    /* free result */
    mysqli_stmt_free_result($stmt);
    /* close statement */
    mysqli_stmt_close($stmt);
}
/* close connection */
mysqli_close($link);
?>

```

The above example will output:

```
Number of rows: 20.
```

See Also

[mysqli_prepare](#)
[mysqli_stmt_result_metadata](#)
[mysqli_stmt_fetch](#)

2.6. The MySQLi_Result class ([MySQLi_Result](#))

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Represents the result set obtained from a query against the database.

```

MySQLi_Result {
    MySQLi_Result
    Properties

    int current_field ;

```

```
int field_count ;

array lengths ;

int num_rows ;
Methods
int mysqli_field_tell(mysqli_result result);

bool mysqli_result::data_seek(int offset);

mixed mysqli_result::fetch_array(int resulttype);

array mysqli_result::fetch_assoc();

object mysqli_result::fetch_field_direct(int fieldnr);

object mysqli_result::fetch_field();

array mysqli_result::fetch_fields();

object mysqli_result::fetch_object(string class_name,
                                   array params);

mixed mysqli_result::fetch_row();

int mysqli_num_fields(mysqli_result result);

bool mysqli_result::field_seek(int fieldnr);

void mysqli_result::free();

array mysqli_fetch_lengths(mysqli_result result);

int mysqli_num_rows(mysqli_result result);
}
```

2.6.1. [mysqli_result->current_field](#), [mysqli_field_tell](#)

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- [mysqli_result->current_field](#)
[mysqli_field_tell](#)

Get current field offset of a result pointer

Description

Object oriented style (property):

```
mysqli_result {
    int current_field ;
}
```

Procedural style:

```
int mysqli_field_tell(mysqli_result result);
```

Returns the position of the field cursor used for the last `mysqli_fetch_field` call. This value can be used as an argument to `mysqli_field_seek`.

Parameters

result Procedural style only: A result set identifier returned by `mysqli_query`, `mysqli_store_result` or `mysqli_use_result`.

Return Values

Returns current offset of field cursor.

Examples

Example 2.99. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, SurfaceArea from Country ORDER BY Code LIMIT 5";
if ($result = $mysqli->query($query)) {
    /* Get field information for all columns */
    while ($finfo = $result->fetch_field()) {
        /* get fieldpointer offset */
        $currentfield = $result->current_field;
        printf("Column %d:\n", $currentfield);
        printf("Name:      %s\n", $finfo->name);
        printf("Table:     %s\n", $finfo->table);
        printf("max. Len: %d\n", $finfo->max_length);
        printf("Flags:    %d\n", $finfo->flags);
        printf("Type:     %d\n\n", $finfo->type);
    }
    $result->close();
}
/* close connection */
$mysqli->close();
?>
```

Example 2.100. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, SurfaceArea from Country ORDER BY Code LIMIT 5";
if ($result = mysqli_query($link, $query)) {
    /* Get field information for all fields */
    while ($finfo = mysqli_fetch_field($result)) {
        /* get fieldpointer offset */
        $currentfield = mysqli_field_tell($result);
        printf("Column %d:\n", $currentfield);
        printf("Name:      %s\n", $finfo->name);
        printf("Table:     %s\n", $finfo->table);
        printf("max. Len: %d\n", $finfo->max_length);
        printf("Flags:    %d\n", $finfo->flags);
        printf("Type:     %d\n\n", $finfo->type);
    }
}

```

```
}
mysqli_free_result($result);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Column 1:
Name:     Name
Table:    Country
max. Len: 11
Flags:    1
Type:     254
Column 2:
Name:     SurfaceArea
Table:    Country
max. Len: 10
Flags:    32769
Type:     4
```

See Also

[mysqli_fetch_field](#)
[mysqli_field_seek](#)

2.6.2. [mysqli_result::data_seek](#), [mysqli_data_seek](#)

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- [mysqli_result::data_seek](#)

[mysqli_data_seek](#)

Adjusts the result pointer to an arbitrary row in the result

Description

Object oriented style (method):

```
bool mysqli_result::data_seek(int offset);
```

Procedural style:

```
bool mysqli_data_seek(mysqli_result result,
                      int offset);
```

The [mysqli_data_seek](#) function seeks to an arbitrary result pointer specified by the *offset* in the result set.

Parameters

result Procedural style only: A result set identifier returned by [mysqli_query](#), [mysqli_store_result](#) or [mysqli_use_result](#).

offset The field offset. Must be between zero and the total number of rows minus one (0..[mysqli_num_rows](#) - 1).

Return Values

Returns **TRUE** on success or **FALSE** on failure.

Notes

Note

This function can only be used with buffered results attained from the use of the [mysqli_store_result](#) or [mysqli_query](#) functions.

Examples

Example 2.101. Object oriented style

```

<?php
/* Open a connection */
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, CountryCode FROM City ORDER BY Name";
if ($result = $mysqli->query( $query)) {
    /* seek to row no. 400 */
    $result->data_seek(399);
    /* fetch row */
    $row = $result->fetch_row();
    printf ("City: %s Countrycode: %s\n", $row[0], $row[1]);
    /* free result set*/
    $result->close();
}
/* close connection */
$mysqli->close();
?>

```

Example 2.102. Procedural style

```

<?php
/* Open a connection */
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (!$link) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, CountryCode FROM City ORDER BY Name";
if ($result = mysqli_query($link, $query)) {
    /* seek to row no. 400 */
    mysqli_data_seek($result, 399);
    /* fetch row */
    $row = mysqli_fetch_row($result);
    printf ("City: %s Countrycode: %s\n", $row[0], $row[1]);
    /* free result set*/
    mysqli_free_result($result);
}
/* close connection */
mysqli_close($link);
?>

```

The above example will output:

```
City: Benin City Countrycode: NGA
```

See Also

```
mysqli_store_result
mysqli_fetch_row
mysqli_fetch_array
mysqli_fetch_assoc
mysqli_fetch_object
mysqli_query
mysqli_num_rows
```

2.6.3. `mysqli_result::fetch_array`, `mysqli_fetch_array`

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- `mysqli_result::fetch_array`

```
mysqli_fetch_array
```

Fetch a result row as an associative, a numeric array, or both

Description

Object oriented style (method):

```
mixed mysqli_result::fetch_array(int resulttype);
```

Procedural style:

```
mixed mysqli_fetch_array(mysqli_result result,
                        int resulttype);
```

Returns an array that corresponds to the fetched row or `NULL` if there are no more rows for the resultset represented by the *result* parameter.

`mysqli_fetch_array` is an extended version of the `mysqli_fetch_row` function. In addition to storing the data in the numeric indices of the result array, the `mysqli_fetch_array` function can also store the data in associative indices, using the field names of the result set as keys.

Note

Field names returned by this function are *case-sensitive*.

Note

This function sets `NULL` fields to the PHP `NULL` value.

If two or more columns of the result have the same field names, the last column will take precedence and overwrite the earlier data. In order to access multiple columns with the same name, the numerically indexed version of the row must be used.

Parameters

result

Procedural style only: A result set identifier returned by `mysqli_query`, `mysqli_store_result` or `mysqli_use_result`.

resulttype

This optional parameter is a constant indicating what type of array should be produced from the current row data. The possible values for this parameter are the constants `MYSQLI_ASSOC`, `MYSQLI_NUM`, or `MYSQLI_BOTH`. Defaults to `MYSQLI_BOTH`.

By using the `MYSQLI_ASSOC` constant this function will behave identically to the `mysqli_fetch_assoc`, while `MYSQLI_NUM` will behave identically to the

`mysqli_fetch_row` function. The final option `MYSQLI_BOTH` will create a single array with the attributes of both.

Return Values

Returns an array of strings that corresponds to the fetched row or `NULL` if there are no more rows in resultset.

Examples

Example 2.103. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, CountryCode FROM City ORDER by ID LIMIT 3";
$result = $mysqli->query($query);
/* numeric array */
$row = $result->fetch_array(MYSQLI_NUM);
printf ("%s (%s)\n", $row[0], $row[1]);
/* associative array */
$row = $result->fetch_array(MYSQLI_ASSOC);
printf ("%s (%s)\n", $row["Name"], $row["CountryCode"]);
/* associative and numeric array */
$row = $result->fetch_array(MYSQLI_BOTH);
printf ("%s (%s)\n", $row[0], $row["CountryCode"]);
/* free result set */
$result->close();
/* close connection */
$mysqli->close();
?>
```

Example 2.104. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, CountryCode FROM City ORDER by ID LIMIT 3";
$result = mysqli_query($link, $query);
/* numeric array */
$row = mysqli_fetch_array($result, MYSQLI_NUM);
printf ("%s (%s)\n", $row[0], $row[1]);
/* associative array */
$row = mysqli_fetch_array($result, MYSQLI_ASSOC);
printf ("%s (%s)\n", $row["Name"], $row["CountryCode"]);
/* associative and numeric array */
$row = mysqli_fetch_array($result, MYSQLI_BOTH);
printf ("%s (%s)\n", $row[0], $row["CountryCode"]);
/* free result set */
mysqli_free_result($result);
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Kabul (AFG)
Qandahar (AFG)
Herat (AFG)
```

See Also

```
mysqli_fetch_assoc  
mysqli_fetch_row  
mysqli_fetch_object  
mysqli_query  
mysqli_data_seek
```

2.6.4. `mysqli_result::fetch_assoc`, `mysqli_fetch_assoc`

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- `mysqli_result::fetch_assoc`
`mysqli_fetch_assoc`
Fetch a result row as an associative array

Description

Object oriented style (method):

```
array mysqli_result::fetch_assoc();
```

Procedural style:

```
array mysqli_fetch_assoc(mysqli_result result);
```

Returns an associative array that corresponds to the fetched row or `NULL` if there are no more rows.

Note

Field names returned by this function are *case-sensitive*.

Note

This function sets `NULL` fields to the PHP `NULL` value.

Parameters

result Procedural style only: A result set identifier returned by `mysqli_query`, `mysqli_store_result` or `mysqli_use_result`.

Return Values

Returns an associative array of strings representing the fetched row in the result set, where each key in the array represents the name of one of the result set's columns or `NULL` if there are no more rows in resultset.

If two or more columns of the result have the same field names, the last column will take precedence. To access the other column(s) of the same name, you either need to access the result with numeric indices by using `mysqli_fetch_row` or add alias names.

Examples**Example 2.105. Object oriented style**

```

<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, CountryCode FROM City ORDER by ID DESC LIMIT 50,5";
if ($result = $mysqli->query($query)) {
    /* fetch associative array */
    while ($row = $result->fetch_assoc()) {
        printf ("%s (%s)\n", $row["Name"], $row["CountryCode"]);
    }
    /* free result set */
    $result->close();
}
/* close connection */
$mysqli->close();
?>

```

Example 2.106. Procedural style

```

<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, CountryCode FROM City ORDER by ID DESC LIMIT 50,5";
if ($result = mysqli_query($link, $query)) {
    /* fetch associative array */
    while ($row = mysqli_fetch_assoc($result)) {
        printf ("%s (%s)\n", $row["Name"], $row["CountryCode"]);
    }
    /* free result set */
    mysqli_free_result($result);
}
/* close connection */
mysqli_close($link);
?>

```

The above example will output:

```

Pueblo (USA)
Arvada (USA)
Cape Coral (USA)
Green Bay (USA)
Santa Clara (USA)

```

See Also

```

mysqli_fetch_array
mysqli_fetch_row
mysqli_fetch_object
mysqli_query
mysqli_data_seek

```

2.6.5. [mysqli_result::fetch_field_direct](#), [mysqli_fetch_field_direct](#)

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- `mysqli_result::fetch_field_direct`

`mysqli_fetch_field_direct`

Fetch meta-data for a single field

Description

Object oriented style (method):

```
object mysqli_result::fetch_field_direct(int fieldnr);
```

Procedural style:

```
object mysqli_fetch_field_direct(mysqli_result result,
int fieldnr);
```

Returns an object which contains field definition informations from specified resultset.

Parameters

result

Procedural style only: A result set identifier returned by `mysqli_query`, `mysqli_store_result` or `mysqli_use_result`.

fieldnr

The field number. This value must be in the range from 0 to `number of fields - 1`.

Return Values

Returns an object which contains field definition information or `FALSE` if no field information for specified `fieldnr` is available.

Table 2.7. Object attributes

Attribute	Description
name	The name of the column
orgname	Original column name if an alias was specified
table	The name of the table this field belongs to (if not calculated)
orgtable	Original table name if an alias was specified
def	The default value for this field, represented as a string
max_length	The maximum width of the field for the result set.
length	The width of the field, as specified in the tabl definition.
charsetnr	The character set number for the field.
flags	An integer representing the bit-flags for the field.
type	The data type used for this field
decimals	The number of decimals used (for integer fields)

Examples

Example 2.107. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
```

```

    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, SurfaceArea from Country ORDER BY Name LIMIT 5";
if ($result = $mysqli->query($query)) {
    /* Get field information for column 'SurfaceArea' */
    $finfo = $result->fetch_field_direct(1);
    printf("Name:      %s\n", $finfo->name);
    printf("Table:     %s\n", $finfo->table);
    printf("max. Len:  %d\n", $finfo->max_length);
    printf("Flags:    %d\n", $finfo->flags);
    printf("Type:     %d\n", $finfo->type);
    $result->close();
}
/* close connection */
$mysqli->close();
?>

```

Example 2.108. Procedural style

```

<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, SurfaceArea from Country ORDER BY Name LIMIT 5";
if ($result = mysqli_query($link, $query)) {
    /* Get field information for column 'SurfaceArea' */
    $finfo = mysqli_fetch_field_direct($result, 1);
    printf("Name:      %s\n", $finfo->name);
    printf("Table:     %s\n", $finfo->table);
    printf("max. Len:  %d\n", $finfo->max_length);
    printf("Flags:    %d\n", $finfo->flags);
    printf("Type:     %d\n", $finfo->type);
    mysqli_free_result($result);
}
/* close connection */
mysqli_close($link);
?>

```

The above example will output:

```

Name:      SurfaceArea
Table:     Country
max. Len:  10
Flags:     32769
Type:      4

```

See Also

[mysqli_num_fields](#)
[mysqli_fetch_field](#)
[mysqli_fetch_fields](#)

2.6.6. [mysqli_result::fetch_field](#), [mysqli_fetch_field](#)

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- [mysqli_result::fetch_field](#)
[mysqli_fetch_field](#)

Returns the next field in the result set

Description

Object oriented style (method):

```
object mysqli_result::fetch_field();
```

Procedural style:

```
object mysqli_fetch_field(mysqli_result result);
```

Returns the definition of one column of a result set as an object. Call this function repeatedly to retrieve information about all columns in the result set.

Parameters

result Procedural style only: A result set identifier returned by `mysqli_query`, `mysqli_store_result` or `mysqli_use_result`.

Return Values

Returns an object which contains field definition information or `FALSE` if no field information is available.

Table 2.8. Object properties

Property	Description
name	The name of the column
orgname	Original column name if an alias was specified
table	The name of the table this field belongs to (if not calculated)
orgtable	Original table name if an alias was specified
def	The default value for this field, represented as a string
max_length	The maximum width of the field for the result set.
length	The width of the field, as specified in the table definition.
charsetnr	The character set number for the field.
flags	An integer representing the bit-flags for the field.
type	The data type used for this field
decimals	The number of decimals used (for integer fields)

Examples

Example 2.109. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, SurfaceArea from Country ORDER BY Code LIMIT 5";
if ($result = $mysqli->query($query)) {
    /* Get field information for all columns */
    while ($finfo = $result->fetch_field()) {
```

```
        printf("Name:      %s\n", $finfo->name);
        printf("Table:     %s\n", $finfo->table);
        printf("max. Len:  %d\n", $finfo->max_length);
        printf("Flags:    %d\n", $finfo->flags);
        printf("Type:     %d\n\n", $finfo->type);
    }
    $result->close();
}
/* close connection */
mysqli->close();
?>
```

Example 2.110. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, SurfaceArea from Country ORDER BY Code LIMIT 5";
if ($result = mysqli_query($link, $query)) {
    /* Get field information for all fields */
    while ($finfo = mysqli_fetch_field($result)) {
        printf("Name:      %s\n", $finfo->name);
        printf("Table:     %s\n", $finfo->table);
        printf("max. Len:  %d\n", $finfo->max_length);
        printf("Flags:    %d\n", $finfo->flags);
        printf("Type:     %d\n\n", $finfo->type);
    }
    mysqli_free_result($result);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Name:      Name
Table:     Country
max. Len:  11
Flags:     1
Type:      254
Name:      SurfaceArea
Table:     Country
max. Len:  10
Flags:     32769
Type:      4
```

See Also

[mysqli_num_fields](#)
[mysqli_fetch_field_direct](#)
[mysqli_fetch_fields](#)
[mysqli_field_seek](#)

2.6.7. [mysqli_result::fetch_fields](#), [mysqli_fetch_fields](#)

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- [mysqli_result::fetch_fields](#)

`mysqli_fetch_fields`

Returns an array of objects representing the fields in a result set

Description

Object oriented style (method):

```
array mysqli_result::fetch_fields();
```

Procedural Style:

```
array mysqli_fetch_fields(mysqli_result result);
```

This function serves an identical purpose to the `mysqli_fetch_field` function with the single difference that, instead of returning one object at a time for each field, the columns are returned as an array of objects.

Parameters

result Procedural style only: A result set identifier returned by `mysqli_query`, `mysqli_store_result` or `mysqli_use_result`.

Return Values

Returns an array of objects which contains field definition information or `FALSE` if no field information is available.

Table 2.9. Object properties

Property	Description
name	The name of the column
orgname	Original column name if an alias was specified
table	The name of the table this field belongs to (if not calculated)
orgtable	Original table name if an alias was specified
def	The default value for this field, represented as a string
max_length	The maximum width of the field for the result set.
length	The width of the field, as specified in the table definition.
charsetnr	The character set number for the field.
flags	An integer representing the bit-flags for the field.
type	The data type used for this field
decimals	The number of decimals used (for integer fields)

Examples**Example 2.111. Object oriented style**

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, SurfaceArea from Country ORDER BY Code LIMIT 5";
```

```

if ($result = $mysqli->query($query)) {
    /* Get field information for all columns */
    $finfo = $result->fetch_fields();
    foreach ($finfo as $sval) {
        printf("Name:      %s\n", $sval->name);
        printf("Table:     %s\n", $sval->table);
        printf("max. Len:  %d\n", $sval->max_length);
        printf("Flags:    %d\n", $sval->flags);
        printf("Type:     %d\n\n", $sval->type);
    }
    $result->close();
}
/* close connection */
$mysqli->close();
?>

```

Example 2.112. Procedural style

```

<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, SurfaceArea from Country ORDER BY Code LIMIT 5";
if ($result = mysqli_query($link, $query)) {
    /* Get field information for all columns */
    $finfo = mysqli_fetch_fields($result);
    foreach ($finfo as $sval) {
        printf("Name:      %s\n", $sval->name);
        printf("Table:     %s\n", $sval->table);
        printf("max. Len:  %d\n", $sval->max_length);
        printf("Flags:    %d\n", $sval->flags);
        printf("Type:     %d\n\n", $sval->type);
    }
    mysqli_free_result($result);
}
/* close connection */
mysqli_close($link);
?>

```

The above example will output:

```

Name:      Name
Table:     Country
max. Len:  11
Flags:     1
Type:      254
Name:      SurfaceArea
Table:     Country
max. Len:  10
Flags:     32769
Type:      4

```

See Also

[mysqli_num_fields](#)
[mysqli_fetch_field_direct](#)
[mysqli_fetch_field](#)

2.6.8. [mysqli_result::fetch_object](#), [mysqli_fetch_object](#)

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- `mysqli_result::fetch_object`

`mysqli_fetch_object`

Returns the current row of a result set as an object

Description

Object oriented style (method):

```
object mysqli_result::fetch_object(string class_name,
                                   array params);
```

Procedural style:

```
object mysqli_fetch_object(mysqli_result result,
                           string class_name,
                           array params);
```

The `mysqli_fetch_object` will return the current row result set as an object where the attributes of the object represent the names of the fields found within the result set.

Parameters

result Procedural style only: A result set identifier returned by `mysqli_query`, `mysqli_store_result` or `mysqli_use_result`.

class_name
params

Return Values

Returns an object with string properties that corresponds to the fetched row or `NULL` if there are no more rows in resultset.

Note

Field names returned by this function are *case-sensitive*.

Note

This function sets `NULL` fields to the PHP `NULL` value.

ChangeLog

Version	Description
5.0.0	Added the ability to return as a different object.

Examples

Example 2.113. Object oriented style

```
<?php
mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}

$query = "SELECT Name, CountryCode FROM City ORDER by ID DESC LIMIT 50,5";
if ($result = $mysqli->query($query)) {
```

```
/* fetch object array */
while ($obj = $result->fetch_object()) {
    printf ("%s (%s)\n", $obj->Name, $obj->CountryCode);
}
/* free result set */
$result->close();
}
/* close connection */
mysqli->close();
?>
```

Example 2.114. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, CountryCode FROM City ORDER by ID DESC LIMIT 50,5";
if ($result = mysqli_query($link, $query)) {
    /* fetch associative array */
    while ($obj = mysqli_fetch_object($result)) {
        printf ("%s (%s)\n", $obj->Name, $obj->CountryCode);
    }
    /* free result set */
    mysqli_free_result($result);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Pueblo (USA)
Arvada (USA)
Cape Coral (USA)
Green Bay (USA)
Santa Clara (USA)
```

See Also

[mysqli_fetch_array](#)
[mysqli_fetch_assoc](#)
[mysqli_fetch_row](#)
[mysqli_query](#)
[mysqli_data_seek](#)

2.6.9. [mysqli_result::fetch_row](#), [mysqli_fetch_row](#)

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- [mysqli_result::fetch_row](#)
[mysqli_fetch_row](#)

Get a result row as an enumerated array

Description

Object oriented style (method):

```
mixed mysqli_result::fetch_row();
```

Procedural style:

```
mixed mysqli_fetch_row(mysqli_result result);
```

Fetches one row of data from the result set and returns it as an enumerated array, where each column is stored in an array offset starting from 0 (zero). Each subsequent call to this function will return the next row within the result set, or `NULL` if there are no more rows.

Parameters

result Procedural style only: A result set identifier returned by `mysqli_query`, `mysqli_store_result` or `mysqli_use_result`.

Return Values

`mysqli_fetch_row` returns an array of strings that corresponds to the fetched row or `NULL` if there are no more rows in result set.

Note

This function sets `NULL` fields to the PHP `NULL` value.

Examples

Example 2.115. Object oriented style

```

<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, CountryCode FROM City ORDER by ID DESC LIMIT 50,5";
if ($result = $mysqli->query($query)) {
    /* fetch object array */
    while ($row = $result->fetch_row()) {
        printf ("%s (%s)\n", $row[0], $row[1]);
    }
    /* free result set */
    $result->close();
}
/* close connection */
$mysqli->close();
?>

```

Example 2.116. Procedural style

```

<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, CountryCode FROM City ORDER by ID DESC LIMIT 50,5";
if ($result = mysqli_query($link, $query)) {
    /* fetch associative array */
    while ($row = mysqli_fetch_row($result)) {

```

```
        printf ("%s (%s)\n", $row[0], $row[1]);
    }
    /* free result set */
    mysqli_free_result($result);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Pueblo (USA)
Arvada (USA)
Cape Coral (USA)
Green Bay (USA)
Santa Clara (USA)
```

See Also

[mysqli_fetch_array](#)
[mysqli_fetch_assoc](#)
[mysqli_fetch_object](#)
[mysqli_query](#)
[mysqli_data_seek](#)

2.6.10. [mysqli_result->field_count](#), [mysqli_num_fields](#)

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- [mysqli_result->field_count](#)

[mysqli_num_fields](#)

Get the number of fields in a result

Description

Object oriented style (property):

```
mysqli_result {
    int field_count ;
}
```

Procedural style:

```
int mysqli_num_fields(mysqli_result result);
```

Returns the number of fields from specified result set.

Parameters

result

Procedural style only: A result set identifier returned by [mysqli_query](#), [mysqli_store_result](#) or [mysqli_use_result](#).

Return Values

The number of fields from a result set.

Examples

Example 2.117. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
if ($result = $mysqli->query("SELECT * FROM City ORDER BY ID LIMIT 1")) {
    /* determine number of fields in result set */
    $field_cnt = $result->field_count;
    printf("Result set has %d fields.\n", $field_cnt);
    /* close result set */
    $result->close();
}
/* close connection */
$mysqli->close();
?>
```

Example 2.118. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
if ($result = mysqli_query($link, "SELECT * FROM City ORDER BY ID LIMIT 1")) {
    /* determine number of fields in result set */
    $field_cnt = mysqli_num_fields($result);
    printf("Result set has %d fields.\n", $field_cnt);
    /* close result set */
    mysqli_free_result($result);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Result set has 5 fields.
```

See Also

[mysqli_fetch_field](#)

2.6.11. [mysqli_result::field_seek](#), [mysqli_field_seek](#)

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- [mysqli_result::field_seek](#)

mysqli_field_seek

Set result pointer to a specified field offset

Description

Object oriented style (method):

```
bool mysqli_result::field_seek(int fieldnr);
```

Procedural style:

```
bool mysqli_field_seek(mysqli_result result,
                       int fieldnr);
```

Sets the field cursor to the given offset. The next call to *mysqli_fetch_field* will retrieve the field definition of the column associated with that offset.

Note

To seek to the beginning of a row, pass an offset value of zero.

Parameters

result

Procedural style only: A result set identifier returned by *mysqli_query*, *mysqli_store_result* or *mysqli_use_result*.

fieldnr

The field number. This value must be in the range from 0 to *number of fields - 1*.

Return Values

Returns *TRUE* on success or *FALSE* on failure.

Examples**Example 2.119. Object oriented style**

```
<?php
mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, SurfaceArea from Country ORDER BY Code LIMIT 5";
if ($result = $mysqli->query($query)) {
    /* Get field information for 2nd column */
    $result->field_seek(1);
    $finfo = $result->fetch_field();
    printf("Name:      %s\n", $finfo->name);
    printf("Table:     %s\n", $finfo->table);
    printf("max. Len:   %d\n", $finfo->max_length);
    printf("Flags:     %d\n", $finfo->flags);
    printf("Type:      %d\n\n", $finfo->type);
    $result->close();
}
/* close connection */
mysqli->close();
?>
```

Example 2.120. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT Name, SurfaceArea from Country ORDER BY Code LIMIT 5";
if ($result = mysqli_query($link, $query)) {
    /* Get field information for 2nd column */
    mysqli_field_seek($result, 1);
    $finfo = mysqli_fetch_field($result);
    printf("Name:      %s\n", $finfo->name);
    printf("Table:     %s\n", $finfo->table);
    printf("max. Len:  %d\n", $finfo->max_length);
    printf("Flags:    %d\n", $finfo->flags);
    printf("Type:     %d\n\n", $finfo->type);
    mysqli_free_result($result);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Name:      SurfaceArea
Table:     Country
max. Len:  10
Flags:    32769
Type:     4
```

See Also

[mysqli_fetch_field](#)

2.6.12. [mysqli_result::free](#), [mysqli_free_result](#)

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- [mysqli_result::free](#)
[mysqli_free_result](#)

Frees the memory associated with a result

Description

Object oriented style (all methods are equivalent):

```
void mysqli_result::free();
```

```
void mysqli_result::close();
```

```
void mysqli_result::free_result();
```

Procedural style:

```
void mysqli_free_result(mysqli_result result);
```

Frees the memory associated with the result.

Note

You should always free your result with `mysqli_free_result`, when your result object is not needed anymore.

Parameters

`result` Procedural style only: A result set identifier returned by `mysqli_query`, `mysqli_store_result` or `mysqli_use_result`.

Return Values

No value is returned.

See Also

`mysqli_query`
`mysqli_stmt_store_result`
`mysqli_store_result`
`mysqli_use_result`

2.6.13. `mysqli_result->lengths`, `mysqli_fetch_lengths`

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- `mysqli_result->lengths`

`mysqli_fetch_lengths`

Returns the lengths of the columns of the current row in the result set

Description

Object oriented style (property):

```
mysqli_result {  
    array lengths ;  
}
```

Procedural style:

```
array mysqli_fetch_lengths(mysqli_result result);
```

The `mysqli_fetch_lengths` function returns an array containing the lengths of every column of the current row within the result set.

Parameters

`result` Procedural style only: A result set identifier returned by `mysqli_query`, `mysqli_store_result` or `mysqli_use_result`.

Return Values

An array of integers representing the size of each column (not including any terminating null characters). `FALSE` if an error occurred.

`mysqli_fetch_lengths` is valid only for the current row of the result set. It returns `FALSE` if you call it before calling

`mysqli_fetch_row/array/object` or after retrieving all rows in the result.

Examples

Example 2.121. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT * from Country ORDER BY Code LIMIT 1";
if ($result = $mysqli->query($query)) {
    $row = $result->fetch_row();
    /* display column lengths */
    foreach ($result->lengths as $i => $val) {
        printf("Field %2d has Length %2d\n", $i+1, $val);
    }
    $result->close();
}
/* close connection */
$mysqli->close();
?>
```

Example 2.122. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
$query = "SELECT * from Country ORDER BY Code LIMIT 1";
if ($result = mysqli_query($link, $query)) {
    $row = mysqli_fetch_row($result);
    /* display column lengths */
    foreach (mysqli_fetch_lengths($result) as $i => $val) {
        printf("Field %2d has Length %2d\n", $i+1, $val);
    }
    mysqli_free_result($result);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Field 1 has Length 3
Field 2 has Length 5
Field 3 has Length 13
Field 4 has Length 9
Field 5 has Length 6
Field 6 has Length 1
Field 7 has Length 6
Field 8 has Length 4
Field 9 has Length 6
Field 10 has Length 6
Field 11 has Length 5
Field 12 has Length 44
Field 13 has Length 7
Field 14 has Length 3
Field 15 has Length 2
```

2.6.14. [mysqli_result->num_rows](#), [mysqli_num_rows](#)

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- [mysqli_result->num_rows](#)
[mysqli_num_rows](#)

Gets the number of rows in a result

Description

Object oriented style (property):

```
mysqli_result {
    int num_rows ;
}
```

Procedural style:

```
int mysqli_num_rows(mysqli_result result);
```

Returns the number of rows in the result set.

The use of [mysqli_num_rows](#) depends on whether you use buffered or unbuffered result sets. In case you use unbuffered resultsets [mysqli_num_rows](#) will not correct the correct number of rows until all the rows in the result have been retrieved.

Parameters

[result](#) Procedural style only: A result set identifier returned by [mysqli_query](#), [mysqli_store_result](#) or [mysqli_use_result](#).

Return Values

Returns number of rows in the result set.

Note

If the number of rows is greater than maximal int value, the number will be returned as a string.

Examples

Example 2.123. Object oriented style

```
<?php
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
if ($result = $mysqli->query("SELECT Code, Name FROM Country ORDER BY Name")) {
    /* determine number of rows result set */
    $row_cnt = $result->num_rows;
    printf("Result set has %d rows.\n", $row_cnt);
    /* close result set */
    $result->close();
}
/* close connection */
$mysqli->close();
?>
```

Example 2.124. Procedural style

```
<?php
$link = mysqli_connect("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
if ($result = mysqli_query($link, "SELECT Code, Name FROM Country ORDER BY Name")) {
    /* determine number of rows result set */
    $row_cnt = mysqli_num_rows($result);
    printf("Result set has %d rows.\n", $row_cnt);
    /* close result set */
    mysqli_free_result($result);
}
/* close connection */
mysqli_close($link);
?>
```

The above example will output:

```
Result set has 239 rows.
```

See Also

[mysqli_affected_rows](#)
[mysqli_store_result](#)
[mysqli_use_result](#)
[mysqli_query](#)

2.7. The `MySQLi_Driver` class ([MySQLi_Driver](#))

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MySQLi Driver.

```
MySQLi_Driver {
    MySQLi_Driver
        Properties

    public readonly string client_info ;

    public readonly string client_version ;

    public readonly string driver_version ;

    public readonly string embedded ;

    public bool reconnect ;

    public int report-mode ;

    Methods

    void mysqli_driver::embedded_server_end();

    bool mysqli_driver::embedded_server_start(bool start,
                                              array arguments,
                                              array groups);
```

```
}

```

<code>client_info</code>	The Client API header version
<code>client_version</code>	The Client version
<code>driver_version</code>	The MySQLi Driver version
<code>embedded</code>	Whether MySQLi Embedded support is enabled
<code>reconnect</code>	Allow or prevent reconnect (see the <code>mysqli.reconnect</code> INI directive)
<code>report_mode</code>	Set to <code>MYSQLI_REPORT_STRICT</code> to throw Exceptions for errors

2.7.1. `mysqli_driver::embedded_server_end`, `mysqli_embedded_server_end`

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- `mysqli_driver::embedded_server_end`
`mysqli_embedded_server_end`
Stop embedded server

Description

```
void mysqli_driver::embedded_server_end();
```

```
void mysqli_embedded_server_end();
```

Warning

This function is currently not documented; only its argument list is available.

2.7.2. `mysqli_driver::embedded_server_start`, `mysqli_embedded_server_start`

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- `mysqli_driver::embedded_server_start`
`mysqli_embedded_server_start`
Initialize and start embedded server

Description

```
bool mysqli_driver::embedded_server_start(bool start,
                                          array arguments,
                                          array groups);
```

```
bool mysqli_embedded_server_start(bool start,
                                   array arguments,
                                   array groups);
```

Warning

This function is currently not documented; only its argument list is available.

2.8. Aliases and deprecated Mysqli Functions

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2.8.1. `mysqli_bind_param`

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- `mysqli_bind_param`
Alias for `mysqli_stmt_bind_param`

Description

This function is an alias of `mysqli_stmt_bind_param`.

Notes

Note

`mysqli_bind_param` is deprecated and will be removed.

See Also

`mysqli_stmt_bind_param`

2.8.2. `mysqli_bind_result`

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- `mysqli_bind_result`
Alias for `mysqli_stmt_bind_result`

Description

This function is an alias of `mysqli_stmt_bind_result`.

Notes

Note

`mysqli_bind_result` is deprecated and will be removed.

See Also

`mysqli_stmt_bind_result`

2.8.3. `mysqli_client_encoding`

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- `mysqli_client_encoding`
Alias of `mysqli_character_set_name`

Description

This function is an alias of `mysqli_character_set_name`.

See Also

`mysqli_real_escape_string`

2.8.4. `mysqli_disable_reads_from_master`, `mysqli->disable_reads_from_master`

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- `mysqli_disable_reads_from_master`
`mysqli->disable_reads_from_master`

Disable reads from master

Description

Procedural style:

```
bool mysqli_disable_reads_from_master(mysqli link);
```

Object oriented style (method):

```
mysqli {  
    void disable_reads_from_master();  
}
```

Warning

This function is currently not documented; only its argument list is available.

Warning

This function has been *DEPRECATED* and *REMOVED* as of PHP 5.3.0.

2.8.5. `mysqli_disable_rpl_parse`

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- `mysqli_disable_rpl_parse`

Disable RPL parse

Description

```
bool mysqli_disable_rpl_parse(mysqli link);
```

Warning

This function is currently not documented; only its argument list is available.

Warning

This function has been *DEPRECATED* and *REMOVED* as of PHP 5.3.0.

2.8.6. [mysqli_enable_reads_from_master](#)

Copyright (c) 1997-2008 the PHP Documentation Group.

- [mysqli_enable_reads_from_master](#)

Enable reads from master

Description

```
bool mysqli_enable_reads_from_master(mysqli link);
```

Warning

This function is currently not documented; only its argument list is available.

Warning

This function has been *DEPRECATED* and *REMOVED* as of PHP 5.3.0.

2.8.7. [mysqli_enable_rpl_parse](#)

Copyright (c) 1997-2008 the PHP Documentation Group.

- [mysqli_enable_rpl_parse](#)

Enable RPL parse

Description

```
bool mysqli_enable_rpl_parse(mysqli link);
```

Warning

This function is currently not documented; only its argument list is available.

Warning

This function has been *DEPRECATED* and *REMOVED* as of PHP 5.3.0.

2.8.8. [mysqli_escape_string](#)

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- [mysqli_escape_string](#)

Alias of [mysqli_real_escape_string](#)

Description

This function is an alias of [mysqli_real_escape_string](#).

See Also

[mysqli_real_escape_string](#)

2.8.9. `mysqli_execute`

Copyright (c) 1997-2008 the PHP Documentation Group.

- `mysqli_execute`

Alias for `mysqli_stmt_execute`

Description

This function is an alias of `mysqli_stmt_execute`.

Notes

Note

`mysqli_execute` is deprecated and will be removed.

See Also

`mysqli_stmt_execute`

2.8.10. `mysqli_fetch`

Copyright (c) 1997-2008 the PHP Documentation Group.

- `mysqli_fetch`

Alias for `mysqli_stmt_fetch`

Description

This function is an alias of `mysqli_stmt_fetch`.

Notes

Note

`mysqli_fetch` is deprecated and will be removed.

See Also

`mysqli_stmt_fetch`

2.8.11. `mysqli_get_metadata`

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- `mysqli_get_metadata`

Alias for `mysqli_stmt_result_metadata`

Description

This function is an alias of `mysqli_stmt_result_metadata`.

Notes

Note

`mysqli_get_metadata` is deprecated and will be removed.

See Also

`mysqli_stmt_result_metadata`

2.8.12. [mysqli_master_query](#)

Copyright (c) 1997-2008 the PHP Documentation Group.

- `mysqli_master_query`

Enforce execution of a query on the master in a master/slave setup

Description

```
bool mysqli_master_query(mysqli link,  
                        string query);
```

Warning

This function is currently not documented; only its argument list is available.

Warning

This function has been *DEPRECATED* and *REMOVED* as of PHP 5.3.0.

2.8.13. [mysqli_param_count](#)

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- `mysqli_param_count`

Alias for `mysqli_stmt_param_count`

Description

This function is an alias of `mysqli_stmt_param_count`.

Notes**Note**

`mysqli_param_count` is deprecated and will be removed.

See Also

`mysqli_stmt_param_count`

2.8.14. [mysqli_report](#)

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- `mysqli_report`

Enables or disables internal report functions

Description

```
bool mysqli_report(int flags);
```

`mysqli_report` is a powerful function to improve your queries and code during development and testing phase. Depending on the flags it reports errors from `mysqli` function calls or queries which don't use an index (or use a bad index).

Parameters

flags

Table 2.10. Supported flags

Name	Description
<code>MYSQLI_REPORT_OFF</code>	Turns reporting off
<code>MYSQLI_REPORT_ERROR</code>	Report errors from <code>mysqli</code> function calls
<code>MYSQLI_REPORT_STRICT</code>	Report warnings from <code>mysqli</code> function calls
<code>MYSQLI_REPORT_INDEX</code>	Report if no index or bad index was used in a query
<code>MYSQLI_REPORT_ALL</code>	Set all options (report all)

Return Values

Returns `TRUE` on success or `FALSE` on failure.

Examples**Example 2.125. Object oriented style**

```
<?php
/* activate reporting */
mysqli_report(MYSQLI_REPORT_ALL);
$mysqli = new mysqli("localhost", "my_user", "my_password", "world");
/* check connection */
if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
}
/* this query should report an error */
$result = $mysqli->query("SELECT Name FROM Nonexistingtable WHERE population > 50000");
/* this query should report a warning */
$result = $mysqli->query("SELECT Name FROM City WHERE population > 50000");
$result->close();
$mysqli->close();
?>
```

See Also

[mysqli_debug](#)
[mysqli_dump_debug_info](#)

2.8.15. [mysqli_rpl_parse_enabled](#)

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- [mysqli_rpl_parse_enabled](#)

Check if RPL parse is enabled

Description

```
int mysqli_rpl_parse_enabled(mysqli link);
```

Warning

This function is currently not documented; only its argument list is available.

Warning

This function has been *DEPRECATED* and *REMOVED* as of PHP 5.3.0.

2.8.16. [mysqli_rpl_probe](#)

Copyright (c) 1997-2008 the PHP Documentation Group.

- [mysqli_rpl_probe](#)

RPL probe

Description

```
bool mysqli_rpl_probe(mysqli link);
```

Warning

This function is currently not documented; only its argument list is available.

Warning

This function has been *DEPRECATED* and *REMOVED* as of PHP 5.3.0.

2.8.17. [mysqli_rpl_query_type](#), [mysqli->rpl_query_type](#)

Copyright (c) 1997-2008 the PHP Documentation Group.

- [mysqli_rpl_query_type](#)
[mysqli->rpl_query_type](#)

Returns RPL query type

Description

Procedural style:

```
int mysqli_rpl_query_type(mysqli link,  
                           string query);
```

Object oriented style (method)

```
mysqli {  
    int rpl_query_type(string query);  
}
```

Returns `MYSQI_RPL_MASTER`, `MYSQI_RPL_SLAVE` or `MYSQI_RPL_ADMIN` depending on a query type. `INSERT`, `UPDATE` and similar are *master* queries, `SELECT` is *slave*, and `FLUSH`, `REPAIR` and similar are *admin*.

Warning

This function is currently not documented; only its argument list is available.

Warning

This function has been *DEPRECATED* and *REMOVED* as of PHP 5.3.0.

2.8.18. `mysqli_send_long_data`

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- `mysqli_send_long_data`

Alias for `mysqli_stmt_send_long_data`

Description

This function is an alias of `mysqli_stmt_send_long_data`.

Notes**Note**

`mysqli_send_long_data` is deprecated and will be removed.

See Also

`mysqli_stmt_send_long_data`

2.8.19. `mysqli_send_query`, `mysqli->send_query`

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- `mysqli_send_query`

`mysqli->send_query`

Send the query and return

Description

Procedural style:

```
bool mysqli_send_query(mysqli link,
                       string query);
```

Object oriented style (method)

```
mysqli {
    bool send_query(string query);
}
```

Warning

This function is currently not documented; only its argument list is available.

Warning

This function has been *DEPRECATED* and *REMOVED* as of PHP 5.3.0.

2.8.20. [mysqli_set_opt](#)

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- `mysqli_set_opt`

Alias of `mysqli_options`

Description

This function is an alias of `mysqli_options`.

2.8.21. [mysqli_slave_query](#)

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- `mysqli_slave_query`

Force execution of a query on a slave in a master/slave setup

Description

```
bool mysqli_slave_query(mysqli link,  
                        string query);
```

Warning

This function is currently not documented; only its argument list is available.

Warning

This function has been *DEPRECATED* and *REMOVED* as of PHP 5.3.0.

Chapter 3. MySQL Functions (PDO_MYSQL)

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PDO_MYSQL is a driver that implements the [PHP Data Objects \(PDO\) interface](#) to enable access from PHP to MySQL 3.x, 4.x and 5.x databases.

PDO_MYSQL will take advantage of native prepared statement support present in MySQL 4.1 and higher. If you're using an older version of the mysql client libraries, PDO will emulate them for you.

Warning

Beware: Some MySQL table types (storage engines) do not support transactions. When writing transactional database code using a table type that does not support transactions, MySQL will pretend that a transaction was initiated successfully. In addition, any DDL queries issued will implicitly commit any pending transactions.

The constants below are defined by this driver, and will only be available when the extension has been either compiled into PHP or dynamically loaded at runtime. In addition, these driver-specific constants should only be used if you are using this driver. Using mysql-specific attributes with the postgres driver may result in unexpected behaviour. `PDO::getAttribute` may be used to obtain the `PDO_ATTR_DRIVER_NAME` attribute to check the driver, if your code can run against multiple drivers.

`PDO::MYSQL_ATTR_USE_BUFFERED_QUERY` (integer) If this attribute is set to `TRUE` on a `PDOStatement`, the MySQL driver will use the buffered versions of the MySQL API. If you're writing portable code, you should use `PDOStatement::fetchAll` instead.

Example 3.1. Forcing queries to be buffered in mysql

```
<?php
if ($db->getAttribute(PDO::ATTR_DRIVER_NAME) == 'mysql') {
    $stmt = $db->prepare('select * from foo',
        array(PDO::MYSQL_ATTR_USE_BUFFERED_QUERY => true));
} else {
    die("my application only works with mysql; I should use \$stmt->fetchAll() instead");
}
?>
```

`PDO::MYSQL_ATTR_LOCAL_INFILE` (integer) Enable `LOAD LOCAL INFILE`.

`PDO::MYSQL_ATTR_INIT_COMMAND` (integer) Command to execute when connecting to the MySQL server. Will automatically be re-executed when reconnecting.

`PDO::MYSQL_ATTR_READ_DEFAULT_FILE` (integer) Read options from the named option file instead of from `my.cnf`.

`PDO::MYSQL_ATTR_READ_DEFAULT_GROUP` (integer) Read options from the named group from `my.cnf` or the file specified with `MYSQL_READ_DEFAULT_FILE`.

`PDO::MYSQL_ATTR_MAX_BUFFER_SIZE` (integer) Maximum buffer size. Defaults to 1 MiB.

`PDO::MYSQL_ATTR_DIRECT_QUERY` (integer) Perform direct queries, don't use prepared statements.

3.1. PDO_MYSQL DSN

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- `PDO_MYSQL DSN`

Connecting to MySQL databases

Description

The PDO_MYSQL Data Source Name (DSN) is composed of the following elements:

DSN prefix	The DSN prefix is <code>mysql:</code> .
<code>host</code>	The hostname on which the database server resides.
<code>port</code>	The port number where the database server is listening.
<code>dbname</code>	The name of the database.
<code>unix_socket</code>	The MySQL Unix socket (shouldn't be used with <code>host</code> or <code>port</code>).

Examples**Example 3.2. PDO_MYSQL DSN examples**

The following example shows a PDO_MYSQL DSN for connecting to MySQL databases:

```
mysql:host=localhost;dbname=testdb
```

More complete examples:

```
mysql:host=localhost;port=3307;dbname=testdb  
mysql:unix_socket=/tmp/mysql.sock;dbname=testdb
```

Chapter 4. Connector/PHP

The MySQL Connector/PHP is a version of the `mysql` and `mysql_i` extensions for PHP optimized for the Windows operating system. Later versions of the main PHP `mysql/mysql_i` drivers are compatible with Windows and a separate, Windows specific driver is no longer required.

For PHP for all platforms, including Windows, you should use the `mysql` or `mysql_i` extensions shipped with the PHP sources. See [MySQL PHP API](#).

Chapter 5. Common Problems with MySQL and PHP

- `Error: Maximum Execution Time Exceeded`: This is a PHP limit; go into the `php.ini` file and set the maximum execution time up from 30 seconds to something higher, as needed. It is also not a bad idea to double the RAM allowed per script to 16MB instead of 8MB.
- `Fatal error: Call to unsupported or undefined function mysql_connect() in ...`: This means that your PHP version isn't compiled with MySQL support. You can either compile a dynamic MySQL module and load it into PHP or recompile PHP with built-in MySQL support. This process is described in detail in the PHP manual.
- `Error: Undefined reference to 'uncompress'`: This means that the client library is compiled with support for a compressed client/server protocol. The fix is to add `-lz` last when linking with `-lmysqlclient`.
- `Error: Client does not support authentication protocol`: This is most often encountered when trying to use the older `mysql` extension with MySQL 4.1.1 and later. Possible solutions are: downgrade to MySQL 4.0; switch to PHP 5 and the newer `mysqli` extension; or configure the MySQL server with `--old-passwords`. (See `Client does not support authentication protocol`, for more information.)

Those with PHP4 legacy code can make use of a compatibility layer for the old and new MySQL libraries, such as this one: <http://www.coggeshall.org/oss/mysql2i>.