OBJECT ORIENTED STYLE : MYSQLi

Sisoft Technologies Pvt Ltd
SRC E7, Shipra Riviera Bazar, Gyan Khand-3, Indirapuram, Ghaziabad
Website: www.sisoft.in, Email:info@sisoft.in
Phone: +91-9999-283-283

LEARNING TOPICS

- Connections
- Executing Statements
- Prepared statements
- Multiple Statements
- API Support for Transactions
- Metadata
- MYSQLi
- MYSQLi_stmt
- MYSQLi_result
- MYSQLi_driver
- MYSQLi_warning

mysqli Class

Object oriented style :- int *$mysqli->affected_rows*;

```
<?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);
```

The MySQLi Extension Function Summary

mysqli Class

Object oriented style

```
/* 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();
?>
```

mysqli::$connect_errno

int *$mysqli->connect_errno*;

```
<?php
$mysqli = @new mysqli('localhost', 'fake_user', 'my_password', 'my_db'
);

if ($mysqli->connect_errno) {
    die('Connect Error: ' . $mysqli->connect_errno);
}
?>
```

mysqli::$connect_error

string *$mysqli->connect_error*;

```
<?php
$mysqli = @new mysqli('localhost', 'fake_user', 'my_password', 'my_db');

// Works as of PHP 5.2.9 and 5.3.0.
if ($mysqli->connect_error) {
    die('Connect Error: ' . $mysqli->connect_error);
}
?>
```

mysqli::$errno

int *$mysqli->errno*;

```
<?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();
?>
```

mysqli::$error

string *$mysqli->error*;

```
<?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("Error message: %s\n", $mysqli->error);
}

/* close connection */
$mysqli->close();
?>
```

mysqli::$field_count

int *$mysqli->field_count*;

```
<?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();
?>
```

mysqli::$insert_id

mixed *$mysqli->insert_id*;

The mysqli_insert_id() function returns the ID generated by a query (usually INSERT) on a table with a column having the AUTO_INCREMENT attribute. If no INSERT or UPDATE statements were sent via this connection, or if the modified table does not have a column with the AUTO_INCREMENT attribute, this function will return zero.

```
<?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();
?>
```

mysqli::autocommit

mysqli::autocommit (bool $mode) : bool

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*.

```php
<?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();
?>
```

mysqli::query

mysqli::query (string $query [, int $resultmode = MYSQLI_STORE_RESULT]) : mixed

```
<?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();
}
```

mysqli::query continued…

mysqli::query (string $query [, int $resultmode = MYSQLI_STORE_RESULT]) : mixed

```
/* If we have to retrieve large amount of data we use MYSQLI_USE_RESU
LT */
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();
?>
```

mysqli::multi_query

mysqli::multi_query (string $query) : bool

```php
<?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();
?>
```

mysqli::select_db

mysqli::select_db (string $dbname) : bool

```php
<?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();
?>
```

Summary of mysqli_stmt methods

mysqli_stmt::$affected_rows

int *$mysqli_stmt->affected_rows*;

```
<?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 ?";
```

mysqli_stmt::$affected_rows continued….

int *$mysqli_stmt->affected_rows*;

```
/* 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();
?>
```

mysqli_stmt::$errno

int *$mysqli_stmt->errno*;

Returns the error code for the most recently invoked statement function that can succeed or fail.

```
<?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)) {
```

mysqli_stmt::$errno continued…

int *$mysqli_stmt->errno*;

```
/* 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();
?>
```

mysqli_stmt::$error

string *$mysqli_stmt->error*;

Returns a string containing the error message for the most recently invoked statement function that can succeed or fail.

```
<?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)) {
```

mysqli_stmt::$error continued…..

string *$mysqli_stmt->error*;

```
 /* 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();
?>
```

mysqli_stmt::num_rows

int *$mysqli_stmt->num_rows*;

```
<?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();
}
$query = "SELECT Name, CountryCode FROM City ORDER BY Name LI
MIT 20";
if ($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();
?>
```

FOR OTHER SQLI METHODS AND STATEMENTS SUMMARY PLEASE CHECK THE BELOW LINK AND IMPLEMENT THEM

https://www.php.net/manual/en/mysqli.summary.php

THANK YOU