# Chapter 9 Connecting PHP and MYSQL

# PART - I

# I. Choose The Correct Answer

#### Ouestion 1.

Which one of the following statements instantiates the mysqli class?

- (a) mysqli = new mysqli()
- (b) \$mysqli = new mysqli()
- (c) \$mysqli->new.mysqli()
- (d) mysqli->new.mysqli()

#### Answer:

(b) \$mysqli = new mysqli()

#### Ouestion 2.

which one is correct way, we can retrieve the data in the result set of MySQL using PHP?

- (a) mysql\_fetch\_row
- (b) mysql\_fetch\_array
- (c) mysql\_fetch\_object
- (d) All the above

#### Answer:

(d) All the above

#### Question 3.

How Can we Create a Database Using PHP and MySQL?

- (a) mysqli\_create\_db("Database Name")
- (b) mysqli\_create\_db("Data")
- (c) create\_db("Database Name")
- (d) create db("Data")

#### Answer:

(a) mysqli\_create\_db("Database Name")

#### Question 4.

Which is the correct function to execute the SQL queries in PHP?

- (a) mysqli\_query("Connection Object", "SQL Query")
- (b) query("Connection Object", "SQL Query")
- (c) mysql\_query("Connection Object", "SQL Query")
- (d) mysql\_query("SQL Query")

#### Answer:

(a) mysqli\_query("Connection Object", "SQL Query")

#### Question 5.

Which is the correct function Closing Connection in PHP?

- (a) mysqli\_close("Connection Object")
- (b) close("Connection Object");
- (c) mysql\_close("Connection Object")
- (d) mysqli close("Database Object");

#### Answer:

(a) mysqli\_close("Connection Object")

#### Question 6.

Which is the correct function-to establish Connection in PHP?

- (a) mysqli\_connect("Server Name","User Name","Password","DB Name");
- (b) connect("Server Name", "User Name", "Password", "DB Name");
- (c) mysql\_connect("Server Name","User Name","Password","DB Name");
- (d) mysqli connect ("Database Object");

#### Answer:

(a) mysqli\_connect("Server Name","User Name","Password","DB Name");

#### Question 7.

Which is the not a correct MySQL Function in PHP?

- (a) Mysqli\_connect() Function
- (b) Mysqli\_close() Function
- (c) mysqli\_Select\_data() Function
- (d) mysqli\_affected\_rows() Function

#### Answer:

(c) mysqli\_Select\_data() Function

#### **Question** 8.

How many parameter are required for MYSQLi connect function in PHP?

- (a) 2
- (b) 3
- (c) 4
- (d)5

#### Answer:

(c) 4

#### Question 9.

How many parameter are required for MYSQLi query function in PHP?

- (a) 2
- (b) 3
- (c) 4
- (d) 5

#### Answer:

(a) 2

#### Question 10.

How many parameter are required for MYSQLi Close function in PHP?

- (a) 1
- (b) 2
- (c) 3
- (d) 5

#### Answer:

(a) 1

#### Question 11.

Which version of PHP supports MySQLi functions?

- (a) Version 2.0
- (b) Version 3.0
- (c) Version 4.0
- (d) Version 5.0

#### Answer:

(d) Version 5.0

## PART - II

# **II. Short Answer**

#### Question 1.

What are the MySQLi function available PHP?

#### Answer:

- 1. Mysqli\_connect() Function
- 2. Mysqli\_close() Function
- 3. mysqli\_select\_db() Function
- 4. mysqli\_affected\_rows() Function
- 5. mysqli\_connect\_error() Function
- 6. mysqlifetchassoc() Function

#### Question 2.

What is MySQLi function?

#### Answer:

MySQLi functions:

- 1. The Mysqli functions allows you to access MySQL database servers.
- 2. For the MySQL functions to be available, you must compile PHP with support for the MySQLi extension.

#### Question 3.

What are the types MySQLi function available PHP?

#### Answer:

Types of MySQL Functions in PHP:

- 1. Database connections
- 2. Managing Database connections
- 3. Performing Queries
- 4. Closing connection

#### Question 4.

Difference between Connection and Close function?

#### Answer:

Connection:

- 1. Before accessing MySQL Database, connect to Database Server machine via PHP scripting language using Mysqli\_connect() Function.
- 2. This function requires 4 parameters.

#### Close function:

- 1. mysqli close() Function is used to close an existing opened database connection between PHP scripting and MySQL Database Server.
- 2. This function requires only one parameter.

#### Question 5.

Give few examples of MySQLi Queries?

#### Answer:

\$sql="SELECT student\_name,student\_age FROM student";mysqli\_query(\$con,\$sql); sql
stmt = "SELECT \* FROM my contacts";
\$result = mysqli\_query(\$connection,\$sql\_stmt).

#### Question 6.

What is Connection string?

#### Answer:

The variables are used to connect to the Database server. They are

- 1. \$servername → Database Server IP address
- 2. \$usemame → Database Server User Name
- 3. \$password → Database Server Password
- 4. \$DB Name → Database Name

The mysqli connect function uses these variables and connect Database server from PHP scripting. If connection gets fail, output will be printed with MySQL error code. Otherwise connection is success.

#### Question 7.

What is web Database?

#### Answer:

Web Database:

A web database is a wide term for managing data online. A web database gives you the ability to build your own databases.

Ex. Bank, airline and rental car reservation.

#### Question 8.

What is mysqli\_fetch\_assoc() Function?

#### Answer:

mysqli\_fetch\_assoc( );

Fetches a result row as an associative array.

Syntax:

mysqli\_fetch\_assoc(result);

#### Question 9.

Define mysqli\_connect\_error( ) Function?

#### Answer:

mysqli connect\_error( ):

It returns the error description from the last connection error.

Syntax:

mysqli\_connect\_ertror():

#### Question 10.

Define mysqii\_affected\_rows() Function?

#### Answer:

my sql i\_affected\_rows( ):

mysqli\_affected\_rows() returns the number of affected rows in the previous MYSQL operation.

#### Syntax:

mysgli affected rows(connection)

# PART - III

# III. Explain in Brief Answer

#### Question 1.

Write the Syntax for MySQLi Queries?

#### Answer:

Syntax:

mysqli\_query("Connection Object","SQL Query")

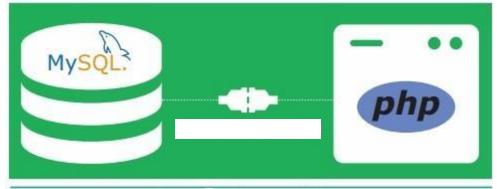
#### Question 2.

Write is the purpose of MySQLi function available?

#### Answer:

MySQL Function in PHP

In PHP Scripting language many functions are available for MySQL Database connectivity and executing SQL queries. MySQLi is extension in PHP scripting language which gives access to the MYSQL database. MySQLi extension was introduced version 5.0.0.



**Browser Button** 

The MySQLi extension contains the following important functions which are related to MySQL database connectivity and management.

- 1. Mysqli\_connect() Function
- 2. Mysqli\_close() Function
- 3. mysqli\_select\_db() Function
- $4. \ mysqli\_affected\_rows(\ )\ Function$
- 5. mysqli\_connect\_error() Function
- $6. \ mysqli\_fetch\_assoc(\ )\ Function$

#### Question 3.

Differentiate mysqli\_affected\_rows() Function and mysqli\_fetch\_assoc() Function? **Answer**:

Fetch assoc()

mysqli fetch assoc():

Fetches a result row as an associative array.

#### Syntax:

mysqli fetch\_assoc(result)

## Affected rows()

my sqli\_affected\_ro ws( ):

 $mysqli\ affected\_rows($  ) returns the number of affected rows in the previous MYSQL operation.

```
Syntax:
mysqli_affected_rows(connection)

Question 4.
Write MySQL Connection Syntax with example?
Answer:
Syntax:
mysqli_eonnect("Server Name", "User Name", "password", "DB Name");
Example:
<?php
Sservername = "localhost";
Susername = "username";
Spassword = "password";
$DB_name = "SchooLDB";
// Create connection
$conn = mysgli_connect($servemame, Susername, Spassword,$DB_name);
```

#### Question 5.

Write a note PHP MySQL database connection?

#### Answer:

**Database Connections:** 

Before accessing MySQL Database, connect to Database Server machine via PHP scripting language using Mysqli\_connect() Function.

#### Syntax:

mysqli\_connect("Server Name", "User Name", "Password", "DB Name"); This function requires four parameters to connect to database server. Database Server name, Database username, password and Database Name.

#### Managing Database Connections:

The below code snippet describes managing database connection methods and features. c?php

```
$servername = "localhost";
$username = "username";
$password = "password";
$DBname = "SchoolDB";
// Create connection
$conn = mysqli_connect($servemame, Susername, Spassword,$DB_name).
```

# PART – IV IV. Explain in detail

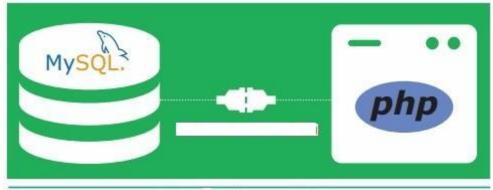
#### Question 1.

Discuss in detail about MySQL functions with example?

#### Answer:

MySQL Function in PHP:

In PHP Scripting language many functions are available for MySQL Database connectivity and executing SQL queries. MySQLi is extension in PHP scripting language which gives access to the MYSQL database. MySQLi extension was introduced version 5.0.0.



**Browser Button** 

The MySQLi extension contains the following important functions which are related to MySQL database connectivity and management.

- 1. Mysqli\_connect() Function
- 2. Mysqli\_close() Function
- 3. mysqli\_select\_db() Function
- 4. mysqli\_affected\_rows() Function
- 5. mysgli connect error() Function
- 6. mysqli\_fetch\_assoc() Function

#### 1. Database Connections:

Before accessing MySQL Database, connect to Database Server machine via PHP scripting language using Mysqli\_connect() Function.

#### Syntax:

mysqli\_connect("Server Name","User Name","Password","DB Name");

This function requires four parameters to connect to database server. Database Server name, Database username, password and Database Name.

#### 2. Managing Database Connections:

The below code snippet describes managing database connection methods and features. <?php

```
$servemame = "localhost";
$usemame = "username";
$password = "password";
$DB_name = "School_DB";
// Create connection
$conn = mysqli_connect($servemame, Susemame, $password,$DB_name);
```

The mysqli connect function uses these variables and connect Database server from PHP scripting. If connection gets fail, output will be printed with MySQL error code. Otherwise connection is success.

### 3. Performing Queries:

The main goal of MySQL and PHP connectivity is to retrieve and manipulate the data from MySQL database server. The SQL query statements are helping with PHP MySQL extension to achieve the objective of MySQL and PHP connection, "mysqliquery" is a function, helps to execute the SQL query statements in PHP scripting language.

Syntax:

```
mysqli_query("Connection Object","SQL Query")
```

#### Example:

```
$con=mysqli_connect("localhost","my_user","my_password","Student_DB ");
$sql="SELECT student_name,student_age FROM student";mysqli_query($con,$sql);
```

#### 4. Closing Connection:

mysqli\_close() Function is used to close an existing opened database connection between PHP scripting and MySQL Database Server.

#### Question 2.

Explain the Database error handling and management process in PHP?

#### Answer:

Managing Database Connections:

The below code snippet describes managing database connection methods and features. <?php

```
$servemame = "localhost";
$username = "username";
$password = "password";
$DBname = "SchoolDB";
// Create connection
Sconn = mysqli_connect($servemame, Susername, Spassword,SDBname);
// Check connection
if (! Sconn) {
die("Connection failed: ". mysqli_connect_error());
}.
echo "Connected successfully";
```

In the above code snippet, three variables are used to connect to the Database server. They are

- 1. \$servemame → Database Server IP address
- 2. \$usemame → Database Server User Name
- 3. \$password → Database Server Password

#### 4. \$DB Name → Database Name

The mysqli\_connect function uses these variables and connect Database server from PHP scripting. If connection gets fail, output will be printed with MySQL error code. Otherwise connection is success.

#### Question 3.

Explain in details types of MySQL connection method in PHP?

#### Answer:

**Database Connections:** 

Before accessing MySQL Database, connect to Database Server machine via PHP scripting language using Mysqli\_connect() Function.

#### Syntax:

```
mysqli_connect("Server Name","User Name","Password","DB Name");
```

This function requires four parameters to connect to database server. Database Server name, Database username, password and Database Name.

#### Managing Database Connections:

The below code snippet describes managing database connection methods and features. <?php

```
$servemame = "localhost";
$usemame = "username";
$password = "password";
$DB_name = "SchoolDB";
// Create connection
$conn = mysqli_connect($servemame, Susemame, Spassword,$DB_name);
// Check connection
if(!$conn){
die("Connection failed: ". mysqli_connect_error());
}
echo "Connected successfully";
```

In the above code snippet, three variables are used to connect to the Database server. They are

- 1. \$servemame → Database Server Server IP address
- 2. \$username → Database Server User Name
- 3. \$password → Database Server Password
- 4. \$DBName → Database Name

The mysqli\_connect function uses these variables and connect Database server from PHP scripting. If connection gets fail, output will be printed with MySQL error code. Otherwise connection is success.

#### Question 4.

Explain MySQLi Queries with examples?

#### Answer:

Performing Queries:

The main goal of MySQL and PHP connectivity is to retrieve and manipulate the data from MySQL database server. The SQL query statements are helping with PHP MySQL extension ^to achieve the objective of MySQL and PHP connection. "mysqli\_query" is a function, helps to execute the SQL query statements in PHP scripting language.

```
Syntax:
```

mysqli\_query("Connection Object" "SQL Query")

Example:

\$con=mysqli\_connect("localhost","my\_user","my\_password","Student\_DB"); \$sql="SELECT
student\_name,student\_age FROM student";mysqli\_query(\$con,\$sql);

#### **Closing Connection:**

mysqli\_close() Function is used to close an existing opened database connection between. PHP scripting and MySQL Database Server.

```
Syntax:
mysqli close("Connection Object");
<?php
$con=mysqli_connect("localhost","$user","$password","$CHOOLDB");
// ....some PHP code... mysqli close($con);
Example of PHP and MySQL Program:
<?php.
$servemame = "localhost";
$usemame = "username";
$password = "password";
$dbname = "schoolDB";
$connection = mysqli connect("$servemame", "$usemame", "$password" "$dbname");
if (mysqli_connect_error ( ))
echo "Failed to connect to MySQL:"
mysqli connect error();
}
sql stmt = "SELECT * FROM mycontacts"; //SQL select query
$result = mysqli_query($connection,$sql_stmt);//execute SQL statement$rows =
mysqli num r°ws($result);// get number of rows returned
if($rows) {
while ($row = mysqli_fetch_array($result)) {
echo 'ID:'. $row['id']. '<br>';
```