

Short Answers

1. What are the MySQLi function available PHP?

The following important functions which are related to MySQL database connectivity and management.

- Mysql_connect() Function
- Mysql_close() Function
- mysql_select_db() Function
- mysql_affected_rows() Function
- mysql_connect_error() Function
- mysql_fetch_assoc() Function

2. What is MySQLi function?

In PHP Scripting language many functions are available for MySQL Database connectivity and executing SQL queries. (the "i" stands for improved)

MySQLi is extension in PHP scripting language which gives access to the MYSQL database.

MySQLi extension was introduced version 5.0.0,

3. What are the types MySQLi function available PHP?

REFER SHORT ANSWER QUESTION NO: 1

4. Difference between Connection and Close function?

Connection function	Close function
Before accessing MySQL Database, connect to Database Server machine via PHP scripting language	mysql_close() Function is used to close an existing opened database connection between PHP scripting and MySQL Database Server.
Using Mysql_connect() Function	Mysql_close() Function
Syntax: mysql_connect("Server Name", "User Name", "Password", "DB Name");	Syntax: mysql_close("Connection Object");

5. Give few examples of MySQLi Queries.

The mysql_query function is used to execute SQL queries:

- Insert • Select • Update • Delete

Example: sql_stmt = "SELECT * FROM my_contacts";

6. What is Connection string?

Syntax:

mysql_connect(host,username,password,dbname,port,socket);

Parameter	Description
host	Optional. Database Server IP address
username	Optional. Database Server MySQL username
password	Optional. Database Server MySQL password
dbname	Optional. Database Name
port	Optional. Specifies the port number to attempt to connect to the MySQL server
socket	Optional. Specifies the socket or named pipe to be used

7. What is web Database?

- All the light databases that supports the web applications are also known as Web Databases.
- MySQL is the most commonly used database in the world due to its ease of use.

8. What is mysql_fetch_assoc() Function?

The **mysql_fetch_assoc()** function is used to return an associative array representing the next row in the result set for the result represented by the *result* parameter, where each key in the array represents the name of one of the result set's columns.

9. Define mysql_connect_error() Function.

Mysql_connect() Function:

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

10. Define mysql_affected_rows() Function.

The mysql_affected_rows() function returns the number of affected rows in the previous SELECT, INSERT, UPDATE, REPLACE, or DELETE query.

Syntax:

mysql_affected_rows(connection);

Parameter	Description
connection	Required. Specifies the MySQL connection to use

Part - III

Explain in Brief Answer**1. Write the Syntax for MySQLi Queries.**

"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);
```

2. Write is the purpose of MySQLi function available.

- PHP has built-in function which is easily connect to MySQL database
- The mysqli_query function is used to execute SQL queries.
- The function can be used to execute the following query types; Insert. Select. Update.
- MySQLi supports prepared statements, transactions and multiple statements
- The old MySQL extension is deprecated as of PHP 5.5.0

3. Differentiate mysqli_affected_rows() Function and mysqli_fetch_assoc() Function.

mysqli_affected_rows()	mysqli_fetch_assoc()
mysqli_affected_rows() function / mysqli::\$affected_rows returns the number of affected rows in the previous SELECT, INSERT, UPDATE, REPLACE, or DELETE query.	The mysqli_fetch_assoc() function is used to return an associative array representing the next row in the result set for the result represented by the <i>result</i> parameter, where each key in the array represents the name of one of the result set's columns.

4. Write MySQL Connection Syntax with example.**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.

5. Write a note PHP MySQL database connection.

Mysqli_connect() Function:

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

Part - IV

Explain in detail**1. Discuss in detail about MySQL functions with example.**

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

- Mysqli_connect() Function
- Mysqli_close() Function
- mysqli_select_db() Function
- mysqli_affected_rows() Function
- mysqli_connect_error() Function
- mysqli_fetch_assoc() Function

PHP MySQLi = PHP MySQL Improved!

Database Connections: (Mysqli_connect() Function)

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.

Closing Connection: (Mysqli_close() Function)

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

Syntax:

```
mysqli_close("Connection Object");
```

SELECT DATABASE Connection: (mysqli_select_db() Function)

The mysqli_select_db() function is used to change the default database for the connection.

Syntax:

```
mysqli_select_db(connection,dbname);
```

Parameter	Description
<i>connection</i>	Required. Specifies the MySQL connection to use
<i>dbname</i>	Required. Specifies the default database to be used

affected_rows Connection: (mysqli_affected_rows() Function)

The mysqli_affected_rows() function returns the number of affected rows in the previous SELECT, INSERT, UPDATE, REPLACE, or DELETE query.

Syntax

mysqli_affected_rows(connection);

Parameter	Description
connection	Required. Specifies the MySQL connection to use

Error Connection: (mysqli_connect_error() Function)

The mysqli_connect_error() function returns the error description from the last connection error, if any.

Syntax:

mysqli_connect_error();

associative array Function: (mysqli_fetch_assoc() Function)

The mysqli_fetch_assoc() function fetches a result row as an associative array.

Note: Fieldnames returned from this function are case-sensitive.

Syntax:

mysqli_fetch_assoc(result);

Parameter	Description
result	Required. Specifies a result set identifier returned by mysqli_query(), mysqli_store_result() or mysqli_use_result()

2. Explain the Database error handling and management process in PHP?

When creating scripts and web applications, error handling is an important part. If your code lacks error checking code, your program may look very unprofessional and you may be open to security risks.

This tutorial contains some of the most common error checking methods in PHP.

We will show different error handling methods:

- Simple "die()" statements
- Custom errors and error triggers
- Error reporting

Basic Error Handling: Using the die() function

The first example shows a simple script that opens a text file:

Set Error Handler

- The default error handler for PHP is the built in error handler. We are going to make the function above the default error handler for the duration of the script.
- It is possible to change the error handler to apply for only some errors, that way the script can handle different errors in different ways. However, in this example we are going to use our custom error handler for all errors:
set_error_handler("customError");
- Since we want our custom function to handle all errors, the set_error_handler() only needed one parameter, a second parameter could be added to specify an error level.

3. Explain in details types of MySQL connection method in PHP. -----**Database Connections:** (Mysqli_connect() Function)

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.

Parameter	Description
host	Optional. Database Server Server IP address
username	Optional. Database Server MySQL username
password	Optional. Database Server MySQL password
dbname	Optional. Database Name
port	Optional. Specifies the port number to attempt to connect to the MySQL server
socket	Optional. Specifies the socket or named pipe to be used

4. Explain MySQLi Queries with examples.'

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")

The mysqli_query function is used to execute SQL queries:

- Insert
- Select
- Update
- Delete

Example: sql_stmt = "SELECT * FROM my_contacts";

Example:

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

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