

Web Development III

Block: IV



Block: IV - Agenda

- Database Connection in PHP
- Introduction to MySQL
- CRUD Operation
- Where, Order By

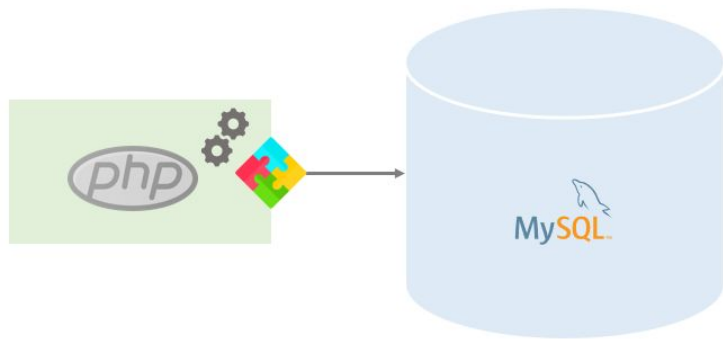


PHP MySQL Database

- With PHP, you can connect to and manipulate databases.
- MySQL is the most popular database system used with PHP.

What is MySQL?

- MySQL is a database system used on the web
- MySQL is a database system that runs on a server
- MySQL is ideal for both small and large applications
- MySQL is very fast, reliable, and easy to use
- MySQL uses standard SQL
- MySQL compiles on a number of platforms
- MySQL is free to download and use
- MySQL is developed, distributed, and supported by Oracle Corporation
- MySQL is named after co-founder Monty Widenius's daughter: My
- There are three ways of working with MySQL and PHP :
 - MySQLi (object-oriented)
 - MySQLi (procedural)
 - PDO



Create a MySQL Database Using MySQLi

- Before we can access data in the MySQL database, we need to be able to connect to the server:

```
<?php
```

```
$servername = "localhost";  
  
$username = "username";  
  
$password = "password";  
  
$db = "database";  
  
$conn = new mysqli($servername, $username, $password, $db);  
  
if ($conn->connect_error) {  
  
    die("Connection failed: " . $conn->connect_error);  
  
} echo "Connected successfully";  
  
$conn->close();
```

```
?>
```



PHP MySQL Create DB

```
<?php

// First Connection Open

include 'dbconnect.php';

$sql = "CREATE DATABASE myDB" ;

if ($conn->query($sql) === TRUE) {

    echo "Database created successfully" ;

}

else {

    echo "Error creating database: " . $conn->error;

}

// Last Connection Close

?>
```



PHP MySQL Create Table

```
<?php

// First Connection Open

include 'dbconnect.php';

$sql = "CREATE TABLE MyGuests (Id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
firstname VARCHAR(30) NOT NULL,lastname VARCHAR(30) NOT NULL,email VARCHAR(50),
reg_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP)" ;

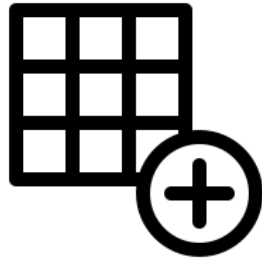
if ($conn->query($sql) === TRUE) {

    echo "Table MyGuests created successfully" ;

} else { echo "Error creating table: " . $conn->error;}

// Last Connection Close

?>
```



PHP MySQL Insert Data

```
<?php

// First Connection Open

include 'dbconnect.php';

$sql = "INSERT INTO MyGuests (firstname, lastname, email)
VALUES ('Soniya', 'Suthar', 'soniya@gmail.com')" ;

if ($conn->query($sql) === TRUE) {

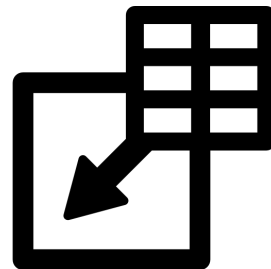
    $last_id = $conn->insert_id;

    echo "New record created successfully. Last inserted ID is: " . $last_id;;

} else { echo "Error: " . $sql . "<br>" . $conn->error; }

// Last Connection Close

?>
```



PHP MySQL Select Data

```
<?php

// First Connection Open

include 'dbconnect.php';

$sql = "SELECT id, firstname, lastname FROM MyGuests" ;

$result = $conn->query($sql);

if ($result->num_rows > 0) {

    while($row = $result->fetch_assoc()) {

        echo "id: " . $row["id"]. " - Name: " . $row["firstname"]. " " . $row["lastname"].
"<br>";

    }

} else {echo "0 results";}

// Last Connection Close

?>
```



PHP MySQL Update Data

```
<?php

// First Connection Open

include 'dbconnect.php';

$sql = "UPDATE MyGuests SET lastname='Gajjar' WHERE id=2" ;

if ($conn->query($sql) === TRUE) {

    echo "Record updated successfully" ;

} else {

    echo "Error updating record: " . $conn->error;

}

// Last Connection Close

?>
```



PHP MySQL Delete Data

```
<?php

// First Connection Open

include 'dbconnect.php';

$sql = "DELETE FROM MyGuests WHERE id=3" ;

if ($conn->query($sql) === TRUE) {

    echo "Record deleted successfully" ;

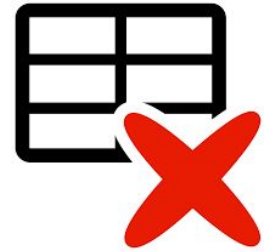
} else {

    echo "Error deleting record: " . $conn->error;

}

// Last Connection Close

?>
```



PHP MySQL - WHERE Clause

```
<?php

// First Connection Open

include 'dbconnect.php';

$sql = "SELECT id, firstname, lastname FROM MyGuests WHERE lastname='Suthar' " ;

$result = $conn->query($sql);

if ($result->num_rows > 0) {

    while($row = $result->fetch_assoc()) {

        echo "id: " . $row["id"]. " - Name: " . $row["firstname"]. " " . $row["lastname"].
"<br>";

    }

} else { echo "0 results"; }

// Last Connection Close

?>
```



PHP MySQL - ORDER BY Clause

```
<?php

// First Connection Open

include 'dbconnect.php';

$sql = "SELECT id, firstname, lastname FROM MyGuests ORDER BY lastname" ;

$result = $conn->query($sql);

if ($result->num_rows > 0) {

    while($row = $result->fetch_assoc()) {

        echo "id: " . $row["id"]. " - Name: " . $row["firstname"]. " " . $row["lastname"].
"<br>";

    }

} else { echo "0 results"; }

// Last Connection Close

?>
```



PHP MySQL - Login System

db.php

<?php

```
$con = mysqli_connect ("localhost","root","root","LoginSystem");

if (mysqli_connect_errno ()) {

    echo "Failed to connect to MySQL: " . mysqli_connect_error (); }

?>
```

auth_session.php

<?php

```
session_start ();

if (!isset ($_SESSION ["username"])) {

    header ("Location: login.php"); exit ();

}

?>
```



login.php

</html>

</body>

<?php

```
require ('db.php');
```

```
session_start ();
```

```
if (isset ($_POST ['username'])) {
```

```
$username = stripslashes ($_REQUEST ['username']);    // removes backslashes
```

```
$username = mysqli_real_escape_string ($con, $username);
```

```
$password = stripslashes ($_REQUEST ['password']);
```

```
$password = mysqli_real_escape_string ($con, $password);
```

```
$query      = "SELECT * FROM `users` WHERE username=' $username 'AND  
password='".md5 ($password)."'";
```





```
$result = mysqli_query($con, $query) or die(mysql_error());

$rows = mysqli_num_rows($result);

if ($rows == 1) {

    $_SESSION['username'] = $username;

    // Redirect to user dashboard page

    header("Location: dashboard.php");

}

else {

    echo "<div class='form'>

        <h3>Incorrect Username/password.</h3><br/>

        <p class='link'>Click here to <a href='login.php'>Login</a> again.</p>

        </div>" ;

}
```

```
} else {

?>

<form class="form" method="post" name="login">

    <h1 class="login-title">Login</h1>

    <input type="text" class="login-input" name="username" placeholder="Username"
autofocus="true"/>

    <input type="password" class="login-input" name="password" placeholder="Password"/>

    <input type="submit" value="Login" name="submit" class="login-button"/>

    <p class="link"><a href="registration.php">New Registration</a></p>

</form>

<?php

}

?>

</body>

</html>
```



dashboard.php

<?php

include ("auth_session.php");

?>

<html>

<body>

 <div class="form">

 <p>Hey, <?php echo \$_SESSION ['username']; ?>!</p>

 <p>You are now user dashboard page. </p>

 <p>Logout</p>

 </div>

</body>

</html>



logout.php

```
<?php
```

```
    session_start();
```

```
    // Destroy session
```

```
    if(session_destroy()) {
```

```
        // Redirecting To Home Page
```

```
        header("Location: login.php");
```

```
    }
```

```
?>
```



