# PHP MySQL

PHP- MySQL

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# 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

### PHP Connect to MySQL

- MySQLi extension (the "i" stands for improved)
- PDO (PHP Data Objects)

#### MySQLi vs. PDO

- PDO will work on 12 different database systems, where as MySQLi will only work with MySQL databases.
  - if you have to switch your project to use another database, PDO makes the
    process easy. You only have to change the connection string and a few
    queries. With MySQLi, you will need to rewrite the entire code queries
    included.
- Both are object-oriented, but MySQLi also offers a procedural API.
- Both support Prepared Statements. Prepared Statements protect from SQL injection, and are very important for web application security.

### **Connecting To MySQL Server**

#### **Using MySQLi**

```
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";
// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {
  die("Connection failed: ".$conn->connect_error);
echo "Connected successfully";
?>
```

# **Using PDO**

```
<?php
$servername = "localhost";
$username = "username";
$password = "password";
deltade = "myDB";
try {
    $conn = new PDO("mysql:host=$servername;dbname=$dbname",
$username, $password);
    // set the PDO error mode to exception
    $conn->setAttribute(PDO::ATTR ERRMODE, PDO::ERRMODE EXCEPTION);
catch(PDOException $e)
    echo $e->getMessage();
?>
```

SAVE this file as dbconfig.php for later use

# **Executing MySQL Query (CREATE)**

```
<?php
Include "dbconfig.php"; //connect to the database and return $conn
try{
    $query = "CREATE TABLE `student` (
               ID int(11) NOT NULL,
               name varchar(120),
               password varchar(120)
    $stmt = $conn->prepare($query);
    if ($stmt->execute()) //
         echo "Table Created successfully";
  catch (Exception $ex)
       echo $ex->getMessage();
```

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### **Executing MySQL Query (INSERT)**

```
<?php
Include "dbconfig.php"; //connect to the database and return $conn
try{
    $query = "INSERT INTO student(id,name,password) VALUES
               (:stid,:stname,:stpassword)";
    $stmt = $conn->prepare($query);
    $stmt->bindParam(':stid', "100");
    $stmt->bindParam(':stname', "Ali");
    $stmt->bindParam(':stpassword', "AL1211@#1d%");
    if ($stmt->execute()) //
         echo "record added successfully";
  catch (Exception $ex)
       echo $ex->getMessage();
2>
```

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### **Executing MySQL Query (UPDATE)**

```
<?php
Include "dbconfig.php"; //connect to the database and return $conn
try{
    $query = "UPDATE student set name=:stname WHERE id=:stid";
    $stmt = $conn->prepare($query);
    $stmt->bindParam(':stid', "100");
    $stmt->bindParam(':stname', "Mohamed");
    if ($stmt->execute()) //
         echo "record updated successfully";
  catch (Exception $ex)
       echo $ex->getMessage();
2>
```

# **Executing MySQL Query (DELETE)**

```
<?php
Include "dbconfig.php"; //connect to the database and return $conn
try{
    $query = "DELETE FROM student WHERE id=:stid";
    $stmt = $conn->prepare($query);
    $stmt->bindParam(':stid', "100");
    if ($stmt->execute()) //
         echo "record Deleted Successfully";
 catch (Exception $ex)
       echo $ex->qetMessage();
2>
```

# **Executing MySQL Query (SELECT)**

```
<?php
Include "dbconfig.php"; //connect to the database and return $conn
try{
    $query = "SELECT * FROM student WHERE id=:stid";
    $stmt = $conn->prepare($query);
    $stmt->bindParam(':stid', "100");
    $stmt->execute();
    while($row=$stmt->fetch(PDO::FETCH ASSOC))
        echo "ID: ".$row['id']."<br>";
        echo "NAME: ".$row['name']."<br>";
  catch (Exception $ex)
       echo $ex->getMessage();
?>
```

