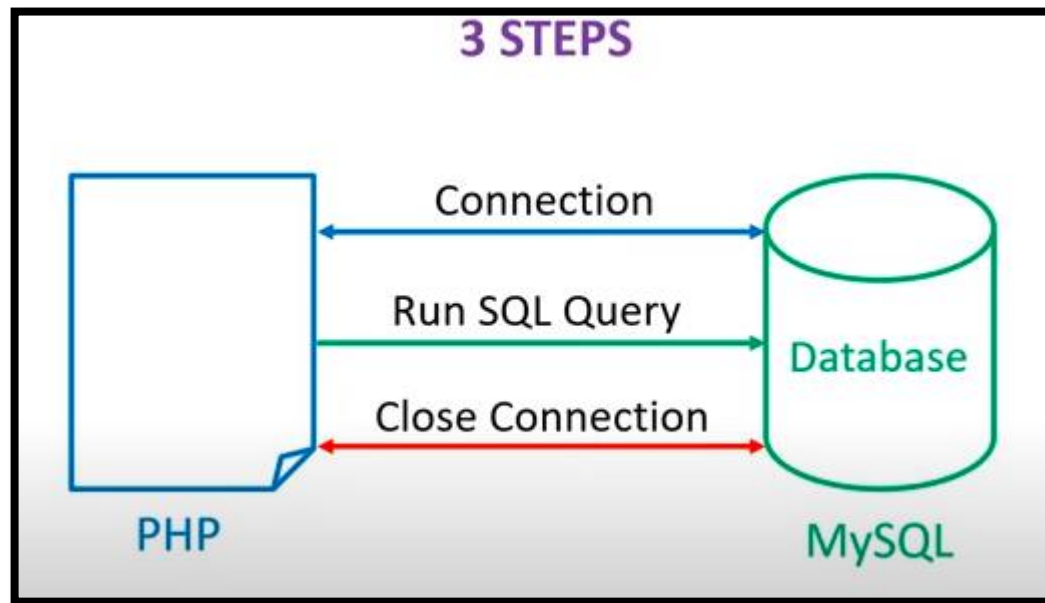


PHP AND MYSQL

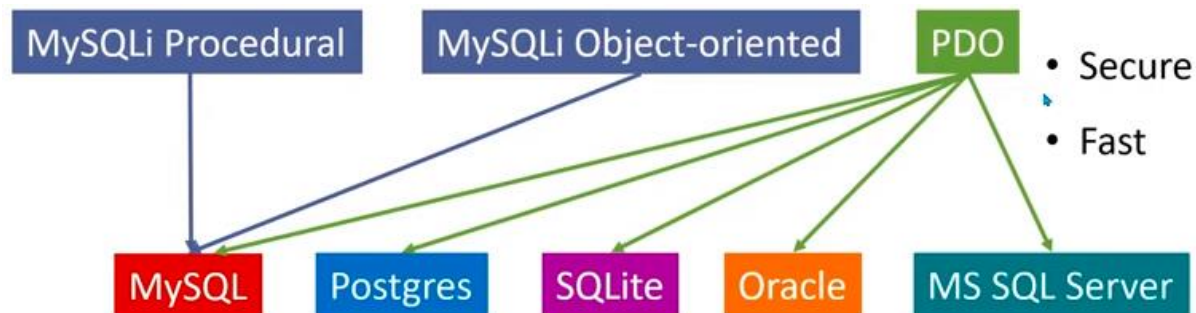
Module 5

PHP MySQL Connection



Methods

- MySQLi Procedural
 - MySQLi Object-oriented
 - PDO
-
- PDO (PHP Data Object)
 - It will work on 12 different database systems,
 - whereas MySQLi will only work with MySQL databases.



Steps to Connect PHP-Mysql

1) Connection

```
$db_name = "mysql:host=localhost;dbname=Database;";  
$conn = new PDO($db_name, User Name, Password);
```

2) Run SQL Query

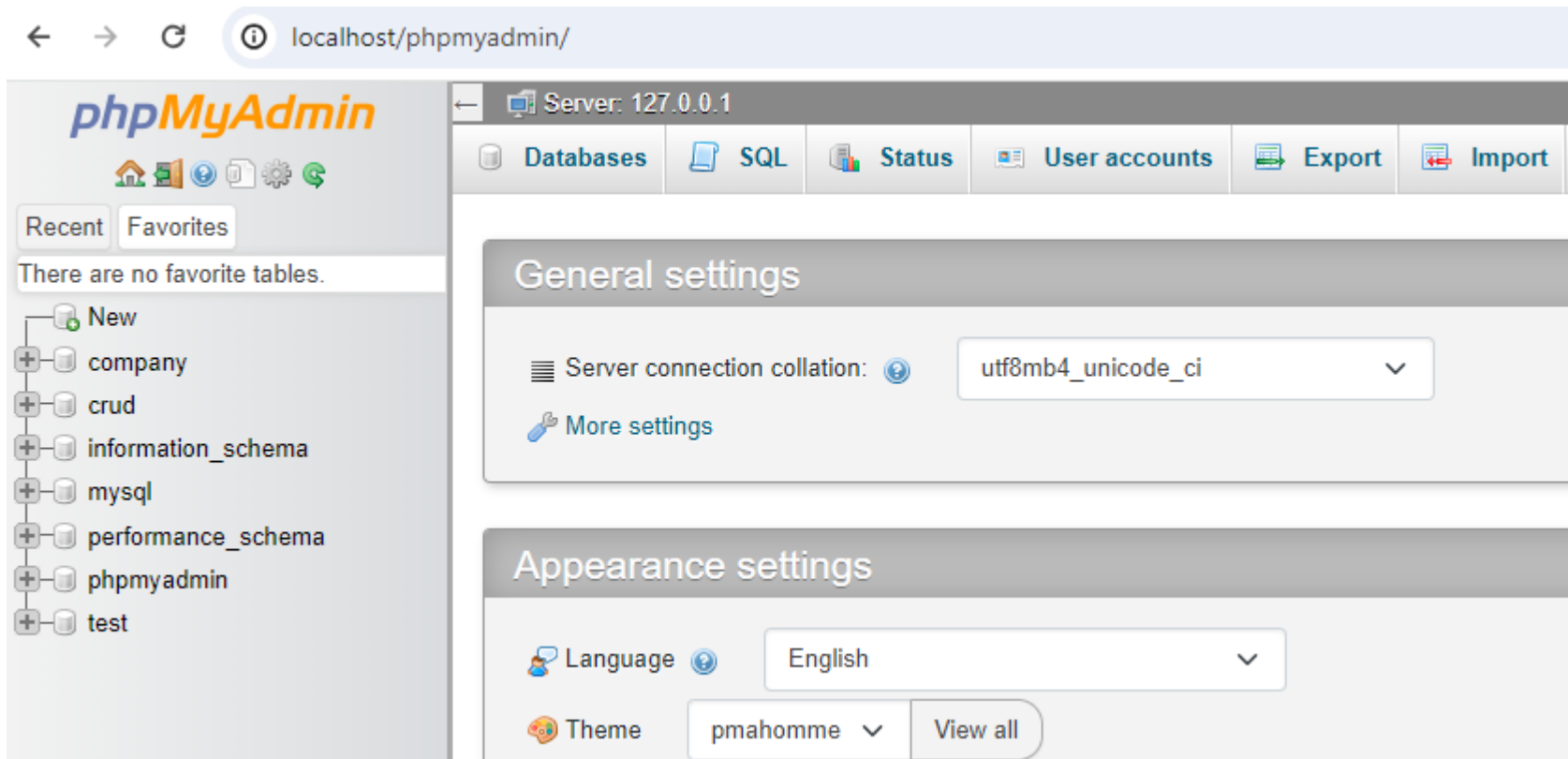
```
$conn->query(SQL Query)  
or  
$conn->prepare(SQL Query)
```

3) Close Connection

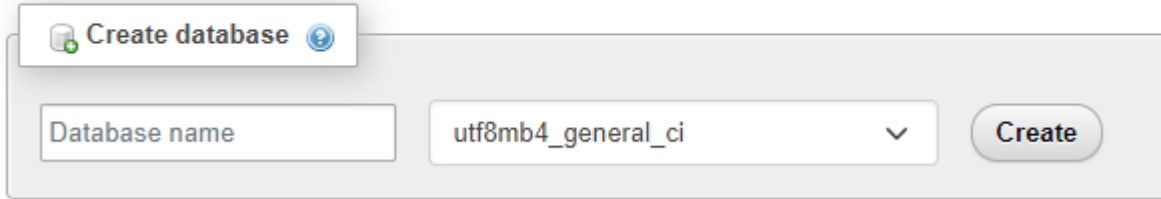
```
$conn = null;
```

Steps to create database

- Go to browser and type URL- localhost/phpmyadmin



- Click on New-
Databases



Create database ?

Database name utf8mb4_general_ci

- Write database name and click on 'create' .
- Select database- click on New to create New table.
- Enter table name and no. of columns and click on 'go'.

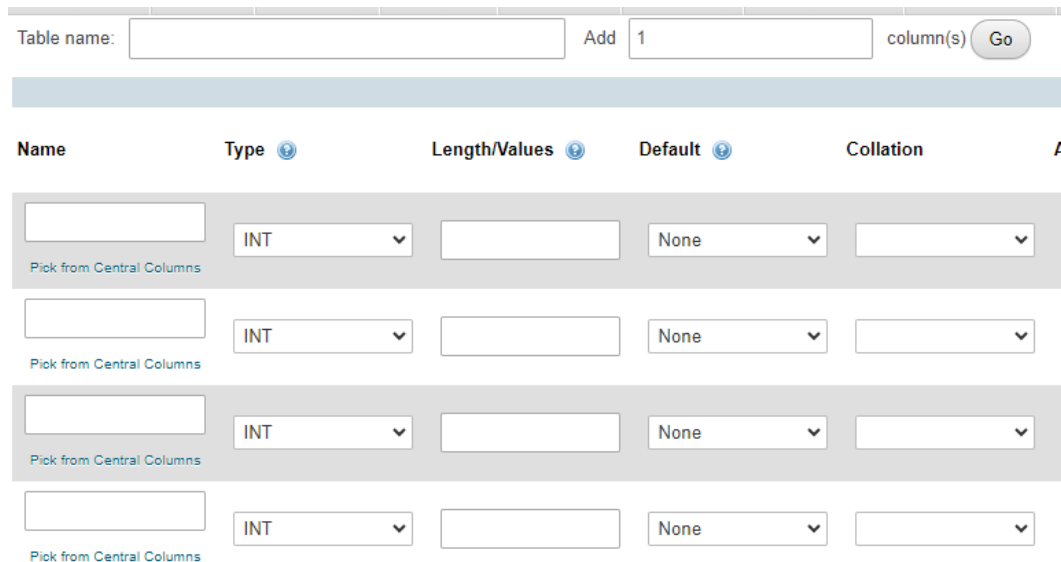


Table name: Add column(s)

Name	Type ?	Length/Values ?	Default ?	Collation	A
<input type="text"/> <small>Pick from Central Columns</small>	INT	<input type="text"/>	None	<input type="text"/>	
<input type="text"/> <small>Pick from Central Columns</small>	INT	<input type="text"/>	None	<input type="text"/>	
<input type="text"/> <small>Pick from Central Columns</small>	INT	<input type="text"/>	None	<input type="text"/>	
<input type="text"/> <small>Pick from Central Columns</small>	INT	<input type="text"/>	None	<input type="text"/>	

- You can see the structure of your table – select ‘Structure’ tab.

 Browse		 Structure		 SQL		 Search		 Insert		 Export	
#	Name	Type	Collation	Attributes	Null	Default	Extra				
<input type="checkbox"/> 1	<u>id</u>	int(4)			No	None	AUTO_INCR				
<input checked="" type="checkbox"/> 2	username	varchar(55)	utf8_general_ci		No	None					
<input type="checkbox"/> 3	password	varchar(44)	utf8_general_ci		No	None					
<input type="checkbox"/> 4	email	varchar(255)	utf8_general_ci		No	None					

Test the connection

```
<?php
$db_name="mysql:host=localhost;dbname=company";
$username="root";
$pass="";
$conn = new PDO($db_name, $username, $pass);

try {
    // set the PDO error mode to exception
    $conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
    echo "Connected successfully". "<br>";
} catch(PDOException $e) {
    echo "Connection failed: " . $e->getMessage();
}
```


Example

```
<?php
$db_name="mysql:host=localhost;dbname=company";
$username="root";
$pass="";
$conn = new PDO($db_name, $username, $pass);
$sql = $conn->query("SELECT * FROM EMPLOYEE");
WHILE($row=$sql->fetch()){
    echo "<pre>";
    print_r($row);
    echo "</pre>";
}
?>
```

```
Array
(
    [id] => 101
    [0] => 101
    [firstname] => Rakesh
    [1] => Rakesh
    [gender] => Male
    [2] => Male
    [email] => rakesh@gmail.com
    [3] => rakesh@gmail.com
    [passowrd] => kjsce
    [4] => kjsce
)
Array
(
    [id] => 102
    [0] => 102
    [firstname] => Sachhin
    [1] => Sachhin
    [gender] => Male
    [2] => Male
    [email] => sachin@gmail.com
    [3] => sachin@gmail.com
    [passowrd] => kjsce
    [4] => kjsce
)
```

FETCH style for fetch function

- PDO::FETCH_ASSOC
- PDO::FETCH_NUM
- PDO::FETCH_BOTH
- PDO::FETCH_OBJ

```
<?php
```

```
$db_name="mysql:host=localhost;dbname=company";
```

```
$username="root";
```

```
$pass="";
```

```
$conn = new PDO($db_name, $username, $pass);
```

```
$sql = $conn->query("SELECT * FROM EMPLOYEE");
```

```
WHILE($row=$sql->fetch(PDO::FETCH_ASSOC)){
```

```
echo "{$row['id']} - {$row['firstname']} - {$row['gender']} -  
        {$row['email']} - {$row['passowrd']}<br>";
```

```
}
```

```
?>
```

- FETCH_NUM
- `echo "${row[0]}-${row[1]}-${row[3]}
";`
- FETC_OBJ
- `echo "${row->'id'}-${row->firstname}-${row-gender}
";`

Insert new record

```
try {  
  
    // set the PDO error mode to exception  
    $conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);  
  
    $sql = "INSERT INTO employee (id, firstname, gender, email, password)  
VALUES (104, 'John', 'male', 'john@e.com', 'john')";  
    // use exec() because no results are returned  
  
    $conn->exec($sql);  
    echo "New record created successfully";  
} catch(PDOException $e) {  
    echo $sql . "<br>" . $e->getMessage();  
}  
  
$conn = null;
```

Insert record by using form

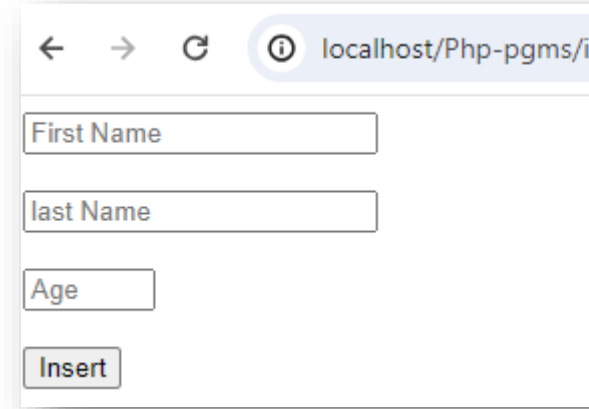
Insertrec.html

- <html>
- <head><title>
- <meta charset="utf-8">
- <title>PHP Insert Operations using PDO Extension </title>
- <meta name="viewport" content="width=device-width, initial-scale=1">
- </head>
- <body>
- <form action="insertrec.php" method="post">
- <input type="text" name="fname" required placeholder="First Name">

- <input type="text" name="lname" placeholder="last Name">

- <input type="number" name="age" placeholder="Age" min=10 max=90>

- <input type="submit" name="Insert" value="Insert">
- </form>
- </body>
- </html>



localhost/Php-pgms/i

First Name

last Name

Age

Insert

Insert data using form –

“insertrec.php”

```
• <?php
• if(isset($_POST['Insert']))
• {
•   try{
•     $servername = "localhost";
•     $username = "root";
•     $password = "";
•     $dbname =
"mysql:host=$servername;dbname=compa
ny";
•     $conn = new
PDO($dbname,$username,$password);
•   }
•   catch(PDOException $e) {
•     echo "connection failed" . $e-
>getMessage();
•     exit();
•   }
• }
```

```
• $fname=$_POST['fname'];
• $lname=$_POST['lname'];
• $age=$_POST['age'];

• $sql="INSERT INTO
student(fname,lname,age) VALUES
(:fname,:lname,:age)";
• $res=$conn->prepare($sql);
• $res->bindParam(':fname',$fname);
• $res->bindParam(':lname',$lname);
• $res->bindParam(':age',$age);
• $res->execute();

•   echo "Data inserted successfully";

• }
• $conn = null;
• ?>
```