

## Creating Connection, Database and table using php

**Commented [WU1]:** It is also possible to create a database and table through the database interface

### Creating database connection

```
<?php
$servername = "localhost";
$username = "root";
$password = "";

// Create connection
$conn = mysqli_connect($servername, $username, $password);

// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

// Create database
$sql = "CREATE DATABASE myclass";
if (mysqli_query($conn, $sql)) {
    echo "Database created successfully";
} else {
    echo "Error creating database: " . mysqli_error($conn);
}

mysqli_close($conn);
?>
```

**OR** if you have a database "mydb" already you can use

```
$con = mysqli_connect('localhost','root','','myDB');
```

*Then you can write your query.*

### Creating Table

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "myDB";

// Create connection
$conn = mysqli_connect($servername, $username,
$password, $dbname);

// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

// sql to create table
$sql = "CREATE TABLE account (
    firstname VARCHAR(30) NOT NULL,
    lastname VARCHAR(30) NOT NULL,
    username VARCHAR(50),
    password VARCHAR(50)
)";

if (mysqli_query($conn, $sql)) {
    echo "User account Table created successfully";
} else {
    echo "Error creating table: " . mysqli_error($conn);
}

mysqli_close($conn);
?>
```

## User Registration with PHP Validation

```
<body> <?php
```

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

```
    $F_name=$_POST['F_name'];
```

```
    $L_name=$_POST['L_name'];
```

```
    $U_name=$_POST['uname'];
```

```
    $pass=$_POST['pass'];
```

```
    $conpass=$_POST['conpass'];
```

```
    $a=md5($pass);
```

```
    $con = mysqli_connect('localhost','root','myDB');
```

```
    if(strcmp($F_name,"")==0|| !ctype_alpha($F_name)|| strlen($F_name)>30|| strlen($F_name)<2){
```

```
        echo"<font color=#FF0000>Incorrect First Name! Please insert Again!</font>"; }
```

```
    else if(strcmp($L_name,"")==0|| !ctype_alpha($L_name)|| strlen($L_name)>30|| strlen($L_name)<2){
```

```
        echo"<font color=#FF0000>Incorrect Last Name! Please insert Again!</font>"; }
```

```
    else if(strcmp($U_name,"")==0|| !ctype_alpha($U_name)|| strlen($U_name)>30|| strlen($U_name)<2){
```

```
        echo"<font color=#FF0000>Incorrect User Name! Please insert Again!</font>"; }
```

```
    else if($L_name==$F_name)
```

```
        { echo"<font color=#FF0000>First Name must be different from Last Name</font>"; }
```

```
    else if(strcmp($pass,"")==0|| strlen($pass)<4|| strlen($pass)>30){
```

```
        echo"<font color=#FF0000>Password should be greater than 4 characters</font>"; }
```

```
    else if($pass!=$conpass){
```

```
        echo "<font color=#FF0000>Password should match!</font>"; }
```

```
    else{
```

```
        $quer="select username from account where username='$U_name' ";
```

```
        $res=mysqli_query($con,$quer)or die(mysqli_error($con));
```

```
        if($quer&& mysqli_num_rows($res)==1)
```

```
            { echo"<font color=#FF0000>User Name Exists, Try Another!</font>"; }
```

```
        else{
```

```
            $query="insert into account
```

```
            values('$F_name','$L_name','$U_name','$a')";
```

```
            $ba= mysqli_query($con,$query);
```

```
            if ($ba) { echo"<font color=#DDAA00>Successfully Registered!</font>"; }
```

```
        else { echo"<font color=#FF0000>You Are Not Registered! Please Insert Correct Data</font>"; }
```

```
    } } ?>
```

**Commented [WU2]:** Assigning values from a form to a php variable

**Commented [WU3]:** Encrypting a password written in a form

**Commented [WU4]:** Validating a form data before sending it to a database

**Commented [WU5]:** Retrieving username from a database which is similar to a username written in a form, considering username should be unique

**Commented [WU6]:** Storing data to a database

```
<form name="form1" method="post" action="userregistration.php">
  <table width="260">
    <tr>
      <td>First Name </td>
      <td>
        <input type="text" name="F_name" placeholder="Enter characters Only"/>
      </td>
    </tr>
    <tr>
      <td>Last Name </td>
      <td>
        <input type="text" name="L_name" placeholder="Enter Only character" />
      </td>
    </tr>
    <tr>
      <td>User Name </td>
      <td>
        <input type="text" name="uname" placeholder="Enter Only character" />
      </td>
    </tr>
    <tr>
      <td>Password </td>
      <td>
        <input type="password" name="pass" />
      </td>
    </tr>
    <tr>
      <td>Con Password </td>
      <td>
        <input type="password" name="conpass" />
      </td>
    </tr>
    <tr>
      <td>
        <input type="submit" name="Submit" value="Register" />
      </td>
      <td>
        <input name="Clear" type="reset" id="Clear" value="Clear" />
      </td>
    </tr>
  </table>
</form></body></html>
```

**Commented [WU7]:** Form to register a user

### Fetching data from a table/ Registered Users Report

```
<html>

<body>

<?php

$conn = mysqli_connect('localhost','root','','myDB')or die(mysql_error);

$sql="select* from account ";

$result=mysqli_query($conn,$sql) or die(mysql_error());

if( mysqli_num_rows($result)>0){

echo "<center><h4><ul>User information</ul></h4></center> ";

echo "<center><table width='400' border='1'></center>";

echo "<center><tr><th>First_Name</th><th>Last_Name</th><th>USer_Name</th> </tr></center>";

    while ($row = mysqli_fetch_array($result))

    {

echo "<center><tr><td>". $row['firstname']. "</td><td>". $row['lastname']. "</td><td>". $row['username']. "</td></tr></center>";

    }

echo "<center></table></center>";

}

else{

echo "<font color=#FF0000>no user info in database</font>";

?>

</body>

</html>
```

**Commented [WU8]:** Selecting data from the user table and checking whether registered user is available or not!

**Commented [WU9]:** Designing a table for the data to be displayed

**Commented [WU10]:** Fetching and displaying data up to the end to a table designed for the report

### Fetching data from multiple table with a user choice

```
<html> <body>

<form id="form2" method="post" action="">

<h2>Report </h2>

    <label>Select Report

        <select name="select">

            <option>-select-</option>

            <option>User</option>

            <option>Student</option>

        </select>

    </label>

    <label>        <input type="submit" name="Submit" value="Show" />

</label>

</form>

<?php

$conn = mysqli_connect('localhost','root','','myDB')or die(mysql_error);

if(isset($_POST['Submit'])){

    $Select=$_POST['select'];

    if('User'==$Select){

        $sql="select* from account ";

        $result=mysqli_query($conn,$sql) or die(mysql_error());

        if( mysqli_num_rows($result)>0){

            echo "<center><h4><ul>User information</ul></h4></center> ";

            echo "<center><table width='400' border='1'></center>";

            echo "<center><tr><th>First_Name</th><th>Last_Name</th><th>User_Name</th></tr></center>";

                while ($row = mysqli_fetch_array($result))

                {

                    echo "<center><tr><td>". $row['firstname']. "</td><td>". $row['lastname']. "</td><td>". $row['username']. "</td></tr></center>";

                }

            echo "<center></table></center>";

        }

        else{

            echo "<font color=#FF0000>no user in database</font>";

        }

    }
```

**Commented [WU11]:** Form for a user to select type of report they want

**Commented [WU12]:** Posting the user option to a php variable

**Commented [WU13]:** If user selects Registered users report

```

else if('Student'==$Select){
$sql="select* from student ";
$result=mysqli_query($conn,$sql) or die(mysql_error());
if( mysqli_num_rows($result)>0){
echo "<center><h4><ul>Student information</ul></h4></center> ";
echo "<center><table width='600' border='1'></center>";
echo "<center><tr><th>Student_Name</th><th>Roll
ID</th><th>Email</th><th>Gender</th><th>Registratoin Date</th></tr></center>";

while ($row = mysqli_fetch_array($result))
{
echo "<center><tr><td>".$row['StudentName']. "</td><td>".$row['RollId']. "</td><td>".$row['StudentEmail']. "</td><td>".$row['Gender']. "</td><td>".$row['RegDate']. "</td></tr></center>";
}

echo "<center></table></center>";
}

else{
echo "<font color=#FF0000>no Students Record</font>";
}
}

?>

</body>

</html>

```

**Commented [WU14]:** If user want a student report

*If you want to fetch data from multiple tables and generate a single report you can use*

```
$sq=" select * from tablea,tableb where tablea.name='xx' and tablea.id=tableb.id";
```

### Updating data

```

<?php
if(isset($_POST['Submit'])){
$OUser_Name=$_POST['OUser_Name'];
$OPassword=$_POST['OPassword'];
$Uesr_Name=$_POST['Uesr_Name'];
$pass=$_POST['pass'];
$conpass=$_POST['conpass'];
$Opass=md5($OPassword);
$a=md5($pass);

```

```

if($pass!=$conpass){
    echo "verifay your password";
}
else{
    $con=mysqli_connect('localhost','root','','mydb')or die("unable to connect").mysqli_error();
    $quer="select * from account where username='$OUser_Name' and password='$Opass' ";
    $res=mysqli_query($con,$quer);
    if(mysqli_num_rows($res)==1)
    {
        $data="update account set username='$Uesr_Name',password='$a' where username='$OUser_Name' and
        password='$Opass' ";
        mysqli_query($con,$data);
        echo 'Successfull updated';
    }
    else{
        echo"<font color=#FF0000>insert correct account</font>";
    }
}
?>
<form id="form1" name="form1" method="post" action="">
<table width="327">
<tr>
<td width="155">Old User Name </td>
<td width="181"><input name="OUser_Name" type="text" id="OUser_Name" /></td> </tr>
<tr>
<td>Old Password </td>
<td><input name="OPassword" type="text" id="OPassword" /></td> </tr>
<tr>
<td>New User Name </td>
<td><input name="Uesr_Name" type="text" id="Uesr_Name" /></td> </tr>
<tr>
<td>New Password </td>
<td><input name="pass" type="text" id="pass" /></td> </tr>
<tr>
<td>Verify Password</td>
<td><input name="conpass" type="text" id="conpass" /></td> </tr>
<tr>
<td><input type="submit" name="Submit" value="Update" /></td>
<td><input name="rset" type="submit" id="rset" value="Cacel" /></td> </tr>
</table> </form>

```