Create MySQL Database at the Localhost
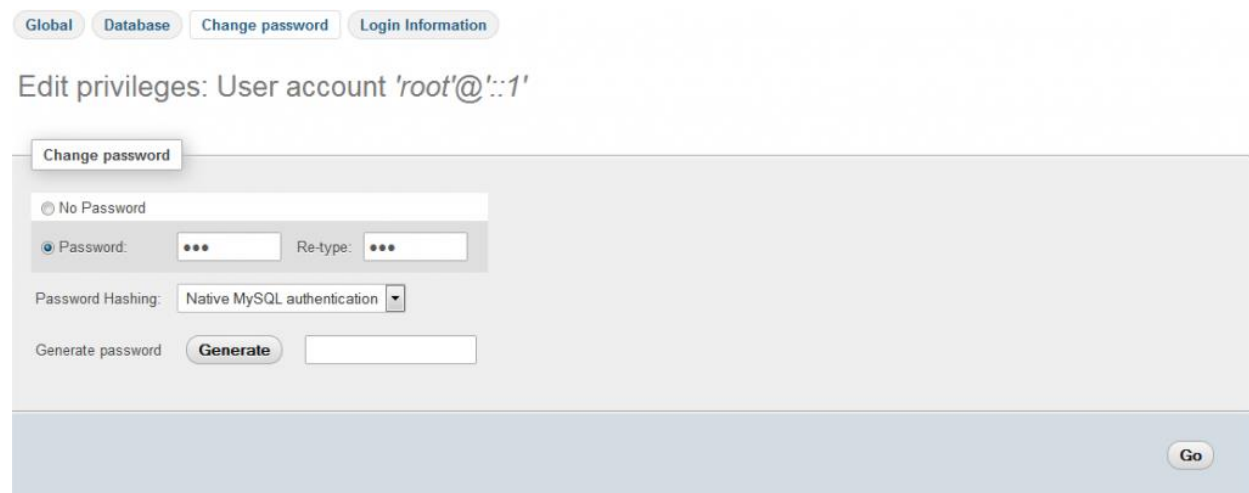
PHPMyAdmin is a control panel from where you can manage the database that you've created. Open your browser and go to localhost/PHPMyAdmin or click "Admin" in XAMPP UI.

When you first installed XAMPP, it will only created the username for it to be accessed, you now have to add a password to it by yourself. For this, you have to go to User account where the user is the same as the one shown in this picture:
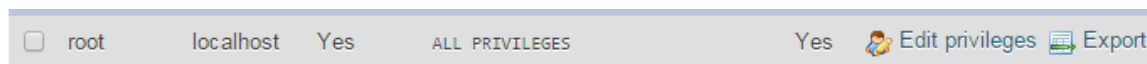

Now click *Edit privileges* and go to Change Admin password, type your password there and save it. Remember this password as it will be used to connect to your Database.

Note: It is not necessary to change the password to access databases on the localhost. It is a good practice and that is why we have used a password.

Create Database

Now return to the homepage of PHPMyAdmin. Click the *New* button to create a new database.
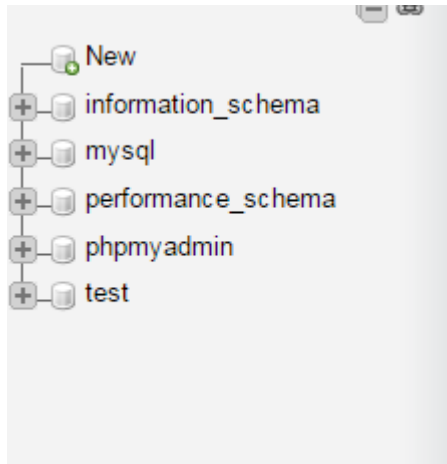
In the new window, name your database as per your need, I am naming it "**practice**". Now select Collation as utf8_general_ci, as we are using it for learning purposes and it will handle all of our queries and data that will be covered in this tutorial series. Now click on *Create* and your database will be created.
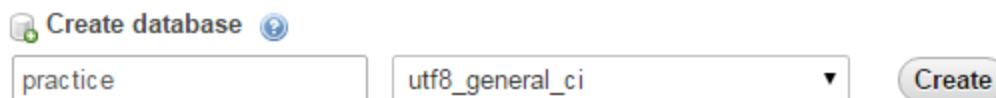
The newly created database will be empty now, as there are no tables in it. I will be covering that in the upcoming series where we will learn how to create tables and insert data in it. In this tutorial, we are going to connect this database to localhost using PHP.

Create a Folder in htdocs

Now, locate the folder where you installed XAMPP and open the htdocs folder (usually c:/xampp). Create a new folder inside c:/xampp/htdocs/ and name it "practice" we will place web files in this folder. Why we have created a folder in htdocs? XAMPP uses folders in htdocs to execute and run your PHP sites.

Note: If you are using WAMP, then add your practice folder in c:/wamp/www folder.

Create Database Connection File In PHP

Create a new PHP file and name it *db_connnection.php* and save it. Why am I creating a separate database connection file? Because if you have created multiple files in which you want to insert data or select data from the databases, you don't need to write the code for database connection every time. You just have to include it by using PHP custom function *include* (include 'connection.php') on the top of your code and call its function and use it. It also helps when you are moving your project location from one PC to another and you have to change the values on the single file and all the changes will be applied to all the other files automatically. Write the following code in your db_connection file.

```php
1. <?php
2.
3. function OpenCon()
4. {
5. $dbhost = "localhost";
6. $dbuser = "root";
7. $dbpass = "1234";
8. $db = "example";
9.
10.
11. $conn = new mysqli($dbhost, $dbuser, $dbpass,$db) or die("Connect
    failed: %s\n". $conn -> error);
```

```
12.
13.
14. return $conn;
15. }
16.
17. function CloseCon($conn)
18. {
19. $conn -> close();
20. }
21.
22. ?>
```

Here is the explanation of the variable that we have used in our db_connection file:

1. `$dbhost` will be the host where your server is running it is usually localhost.

2. `$dbuser` will be the username i.e. **root** and $dbpass will be the password which is the same that you used to access your PHPMyAdmin.

3. `$dbname` will be the name of your database which we have created in this tutorial.

Create a new PHP file to check your database connection

Create a new PHP file to connect to your database. Name it index.php and add this code in this file.

```
1. <?php
2. include 'db_connection.php';
3.
4. $conn = OpenCon();
5.
6. echo "Connected Successfully";
7.
8. CloseCon($conn);
9.
10. ?>
```

Now open your browser and goto localhost/practice/index.php and you should see this screen:
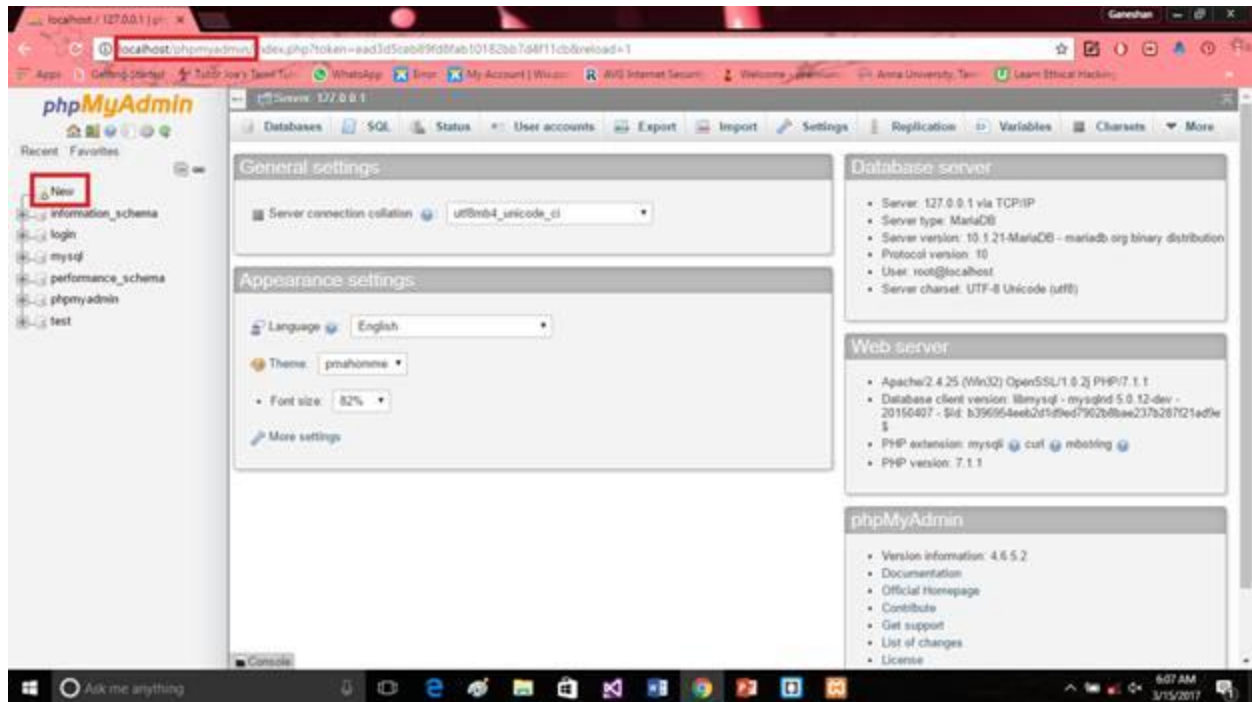
connected successfully

Confirmation Message

Congratulations! You've successfully connected your database with your localhost! If you are not able to see this screen, then check if you have done everything right in your db_connection.php file.

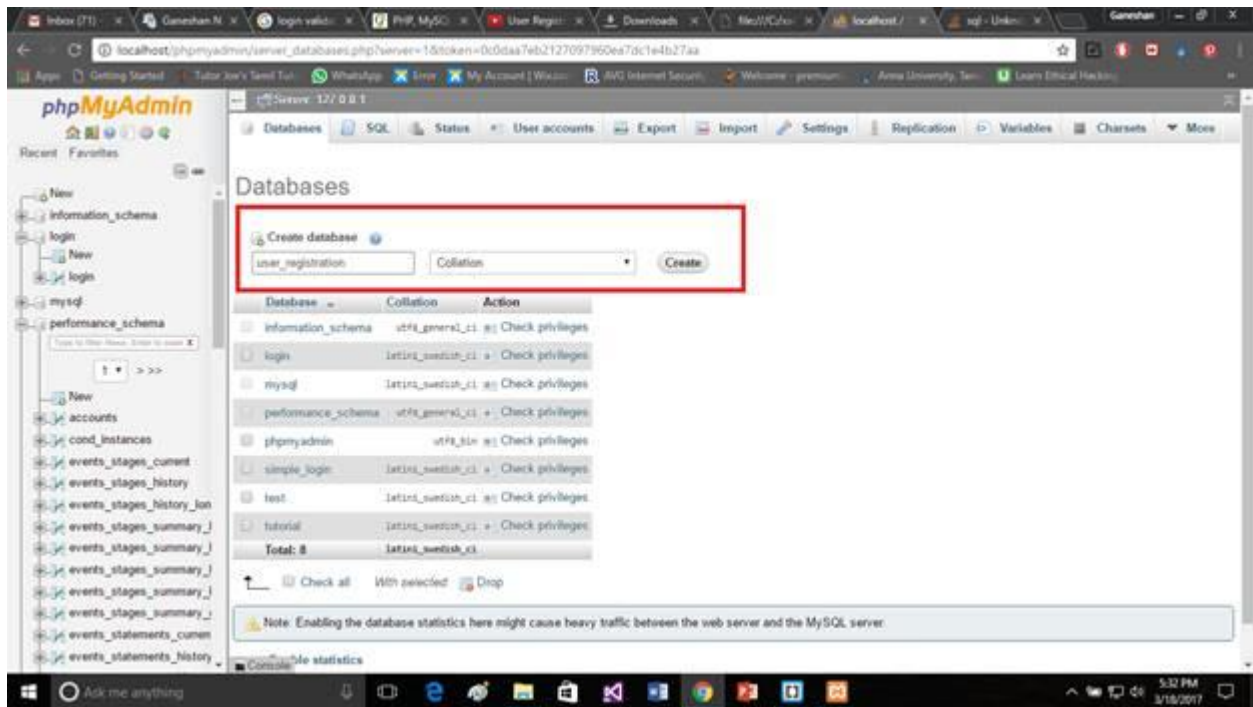# Create a Log in Page using PHP, MYSQl, XAMPP

Step 1

To create the new database, click New.

Step 2

Put the database name, which you want. Here, the database name is user-registration, followed by clicking create.

Step 3

Go to the SQL query tab, copy and paste the query given below. Click go. Afterward, your table (my table name: person) is created successfully.
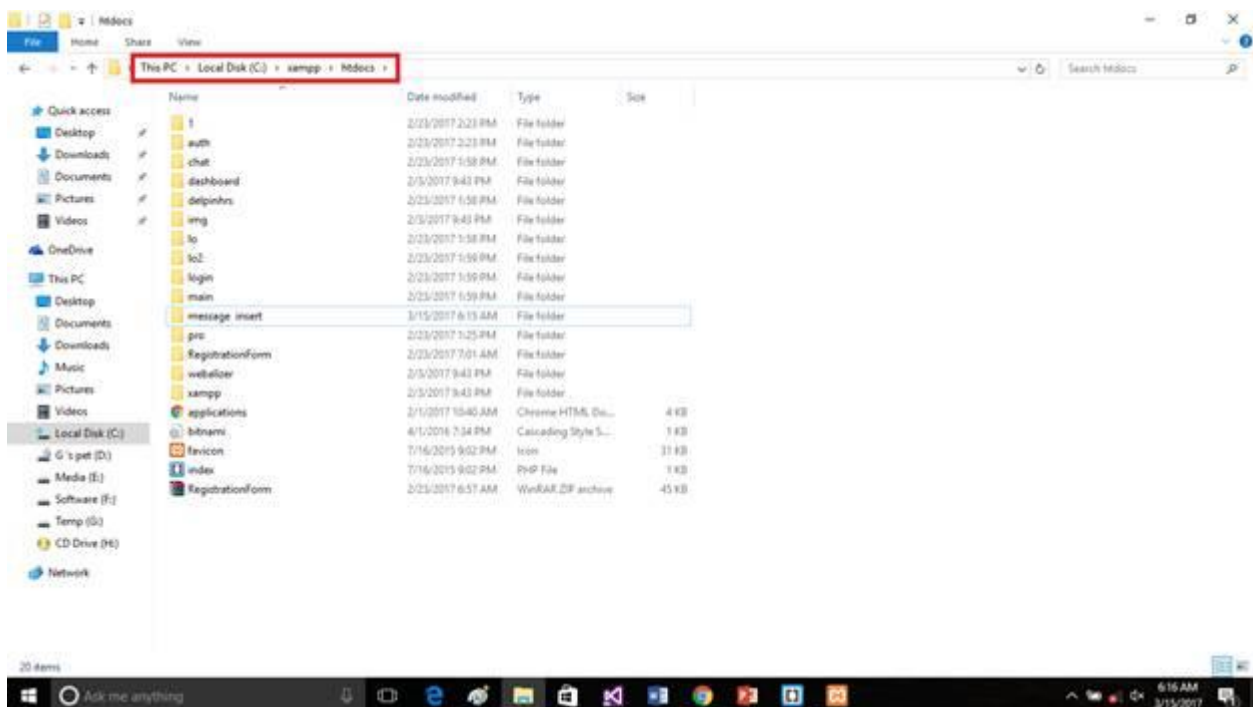
SQL query

```
1. CREATE TABLE IF NOT EXISTS `login` (
2.   `username` varchar(200) NOT NULL,
3.   `password` varchar(200) NOT NULL,
4.   PRIMARY KEY (`username`)
5. ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```
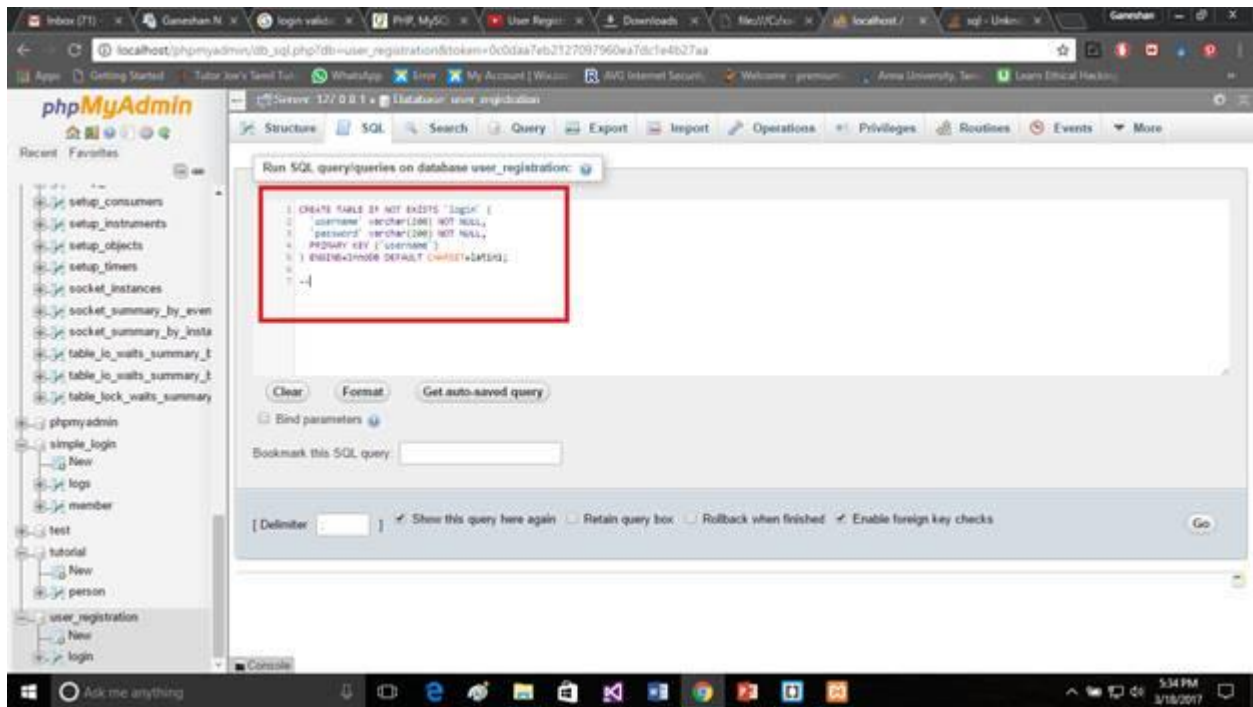
Step 4

Put your Webpage files into the destination folder. Default folder is c:/xampp/htdocs.

Step 5

Open the bracket(IDE) and create the login.php file. Copy the code given below and paste into login.php

```
1.  <!doctype html>
2.  <html>
3.  <head>
4.  <title>Login</title>
5.      <style>
6.          body{
7.
8.      margin-top: 100px;
9.      margin-bottom: 100px;
10.         margin-right: 150px;
11.         margin-left: 80px;
12.         background-color: azure ;
13.         color: palevioletred;
14.         font-family: verdana;
15.         font-size: 100%
16.
17.             }
18.                 h1 {
19.         color: indigo;
20.         font-family: verdana;
21.         font-size: 100%;
22.     }
23.             h3 {
24.         color: indigo;
25.         font-family: verdana;
26.         font-size: 100%;
27.     } </style>
28.     </head>
29.     <body>
30.         <center><h1>CREATE REGISTRATION AND LOGIN FORM USING PH
    P AND MYSQL</h1></center>
31.         <p><a href="register.php">Register</a> | <a href="login.p
    hp">Login</a></p>
32.     <h3>Login Form</h3>
33.     <form action="" method="POST">
34.     Username: <input type="text" name="user"><br />
35.     Password: <input type="password" name="pass"><br />
36.     <input type="submit" value="Login" name="submit" />
37.     </form>
```

```php
38.     <?php
39.     if(isset($_POST["submit"])){
40.
41.     if(!empty($_POST['user']) && !empty($_POST['pass'])) {
42.         $user=$_POST['user'];
43.         $pass=$_POST['pass'];
44.
45.         $con=mysql_connect('localhost','root','') or die(mysql_error());
46.         mysql_select_db('user_registration') or die("cannot select DB");
47.
48.         $query=mysql_query("SELECT * FROM login WHERE username='".$user."' AND password='".$pass."'");
49.         $numrows=mysql_num_rows($query);
50.         if($numrows!=0)
51.         {
52.         while($row=mysql_fetch_assoc($query))
53.         {
54.         $dbusername=$row['username'];
55.         $dbpassword=$row['password'];
56.         }
57.
58.         if($user == $dbusername && $pass == $dbpassword)
59.         {
60.         session_start();
61.         $_SESSION['sess_user']=$user;
62.
63.         /* Redirect browser */
64.         header("Location: member.php");
65.         }
66.         } else {
67.         echo "Invalid username or password!";
68.         }
69.
70.     } else {
71.         echo "All fields are required!";
72.     }
73.     }
74.     ?>
75.     </body>
76.     </html>
```
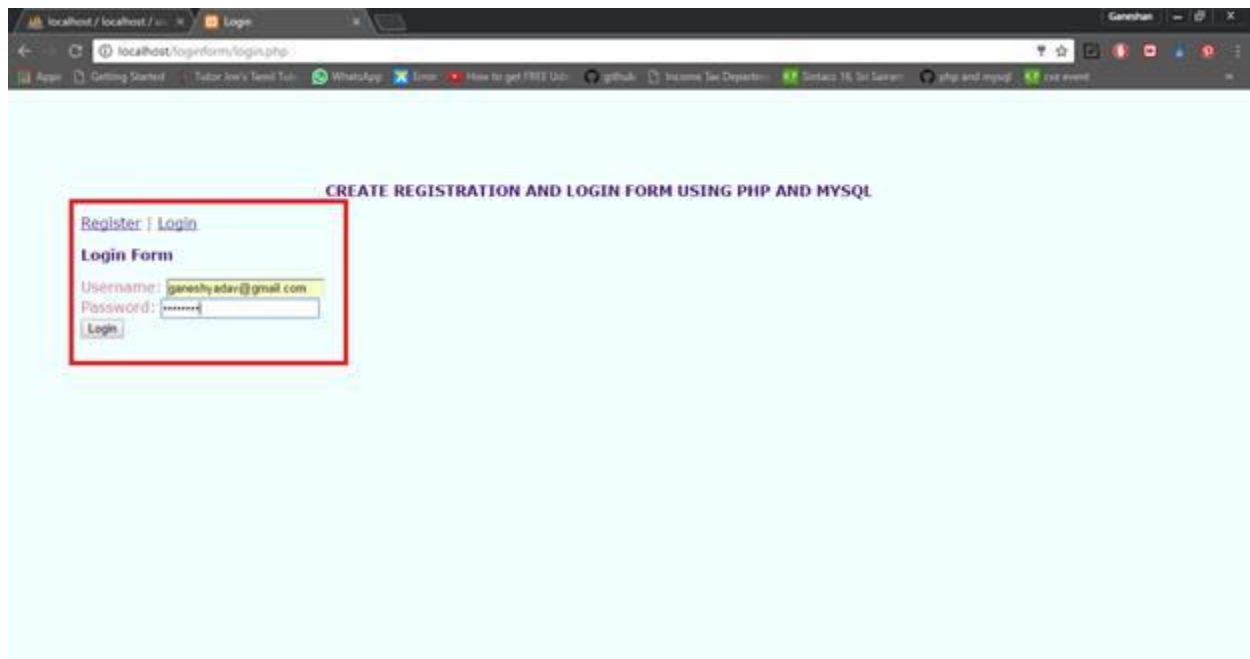
Step 6

Create the register.php file. Copy the code given below and paste it into register.php.

register.php

```
1. <!doctype html>
2. <html>
3. <head>
4. <title>Register</title>
5.     <style>
6.         body{
7.     margin-top: 100px;
8.     margin-bottom: 100px;
9.     margin-right: 150px;
10.         margin-left: 80px;
11.         background-color: azure ;
12.         color: palevioletred;
13.         font-family: verdana;
14.         font-size: 100%
15.
16.             }
17.             h1 {
18.         color: indigo;
19.         font-family: verdana;
20.         font-size: 100%;
```

```
21.        }
22.                h2 {
23.            color: indigo;
24.            font-family: verdana;
25.            font-size: 100%;
26.        }</style>
27.        </head>
28.        <body>
29.
30.            <center><h1>CREATE REGISTRATION AND LOGIN FORM USING PHP
    AND MYSQL</h1></center>
31.            <p><a href="register.php">Register</a> | <a href="login.p
    hp">Login</a></p>
32.            <center><h2>Registration Form</h2></center>
33.        <form action="" method="POST">
34.            <legend>
35.            <fieldset>
36.
37.        Username: <input type="text" name="user"><br />
38.        Password: <input type="password" name="pass"><br />
39.        <input type="submit" value="Register" name="submit" />
40.
41.                </fieldset>
42.                </legend>
43.        </form>
44.        <?php
45.        if(isset($_POST["submit"])){
46.        if(!empty($_POST['user']) && !empty($_POST['pass'])) {
47.            $user=$_POST['user'];
48.            $pass=$_POST['pass'];
49.            $con=mysql_connect('localhost','root','') or die(mysql_e
    rror());
50.            mysql_select_db('user_registration') or die("cannot sele
    ct DB");
51.
52.            $query=mysql_query("SELECT * FROM login WHERE username='
    ".$user."'");
53.            $numrows=mysql_num_rows($query);
54.            if($numrows==0)
55.            {
56.            $sql="INSERT INTO login(username,password) VALUES('$user
    ','$pass')";
57.
58.            $result=mysql_query($sql);
59.                if($result){
60.            echo "Account Successfully Created";
```
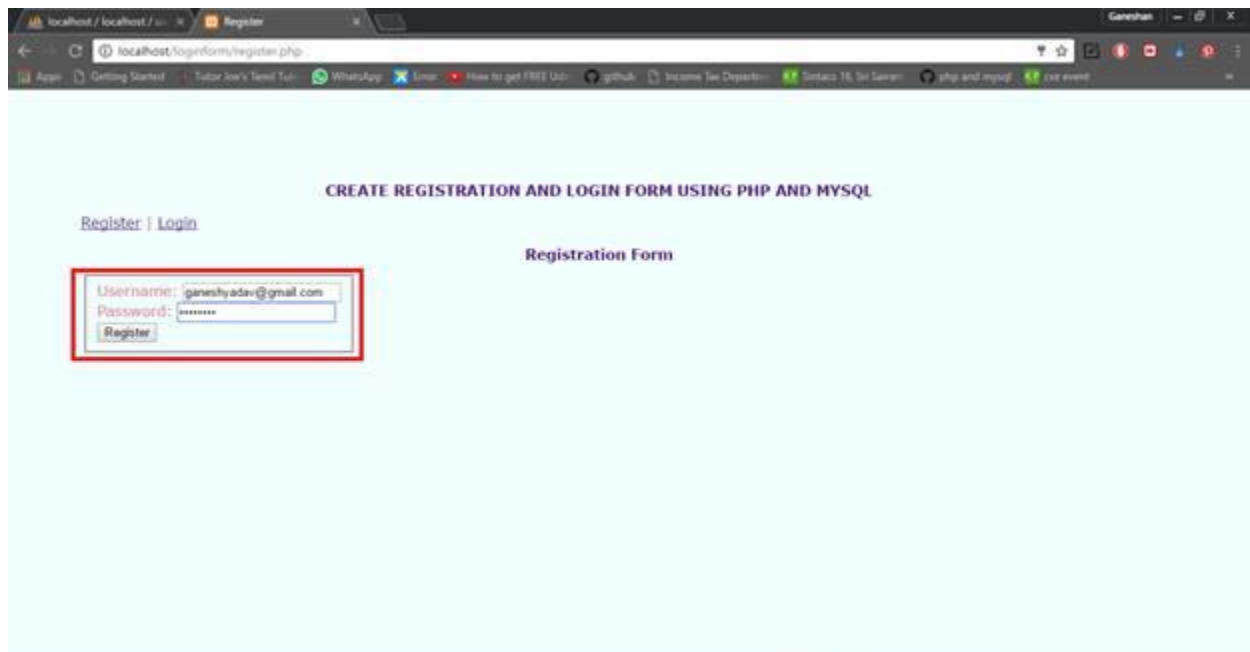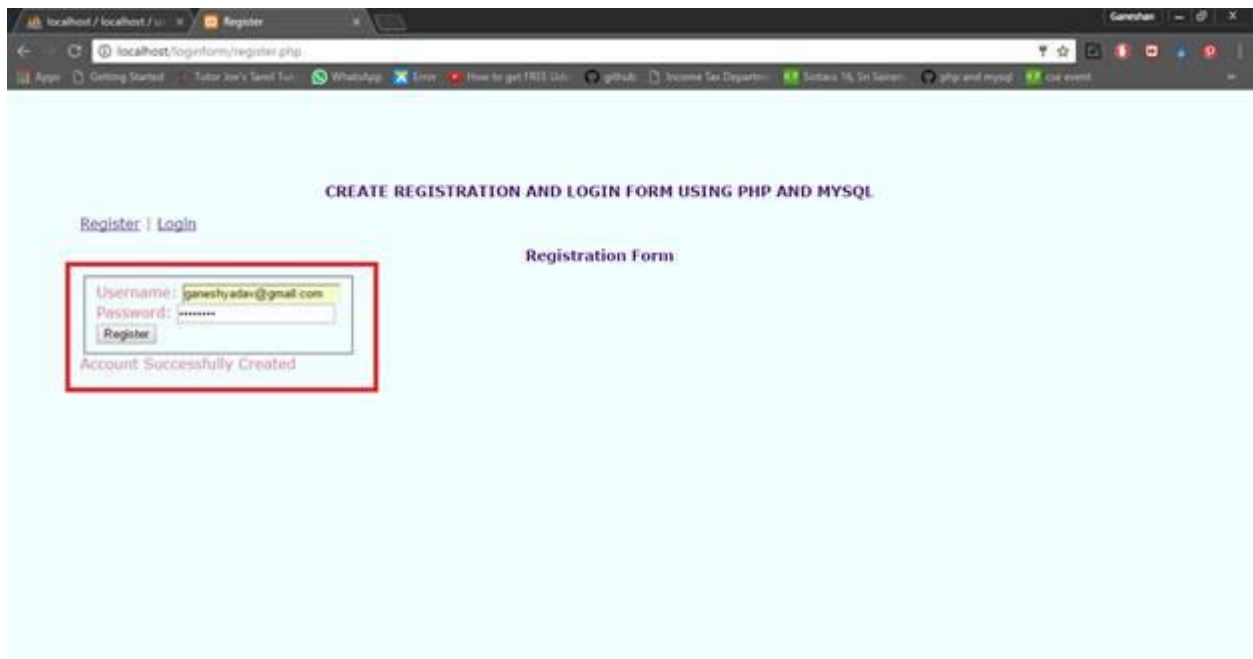
```
61.            } else {
62.            echo "Failure!";
63.            }
64.
65.            } else {
66.            echo "That username already exists! Please try again wit
   h another.";
67.            }
68.
69.        } else {
70.            echo "All fields are required!";
71.        }
72.        }
73.        ?>
74.        </body>
75.        </html>
```


Register your username and password. Do not use the already used usernames.

CREATE REGISTRATION AND LOGIN FORM USING PHP AND MYSQL

Step 7

Create the logout.php file. Copy the code given below and paste it into logout.php.

logout.php

```php
1. <?php
2. session_start();
3. unset($_SESSION['sess_user']);
4. session_destroy();
5. header("location:login.php");
6. ?>
```

Step 8

Create the member.php file. Copy the code given below and paste it into member.php.

member.php

```php
1. <?php
2. session_start();
3. if(!isset($_SESSION["sess_user"])){
4.     header("location:login.php");
5. } else {
6. ?>
7. <!doctype html>
8. <html>
```

```html
9. <head>
10.     <title>Welcome</title>
11.         <style>
12.             body{
13.
14.         margin-top: 100px;
15.         margin-bottom: 100px;
16.         margin-right: 150px;
17.         margin-left: 80px;
18.         background-color: azure ;
19.         color: palevioletred;
20.         font-family: verdana;
21.         font-size: 100%
22.
23.             }
24.                 h2 {
25.         color: indigo;
26.         font-family: verdana;
27.         font-size: 100%;
28.     }
29.             h1 {
30.         color: indigo;
31.         font-family: verdana;
32.         font-size: 100%;
33.     }
34.
35.
36.         </style>
37.     </head>
38.     <body>
39.         <center><h1>CREATE REGISTRATION AND LOGIN FORM USING PHP
    AND MYSQL</h1></center>
40.
41.     <h2>Welcome, <?=$_SESSION['sess_user'];?>! <a href="logout.p
    hp">Logout</a></h2>
42.     <p>
43.     WE DO IT. SUCCESSFULLY CREATED REGISTRATION AND LOGIN FORM U
    SING PHP AND MYSQL
44.     </p>
45.     </body>
46.     </html>
47.     <?php
48.     }
49.     ?>
```
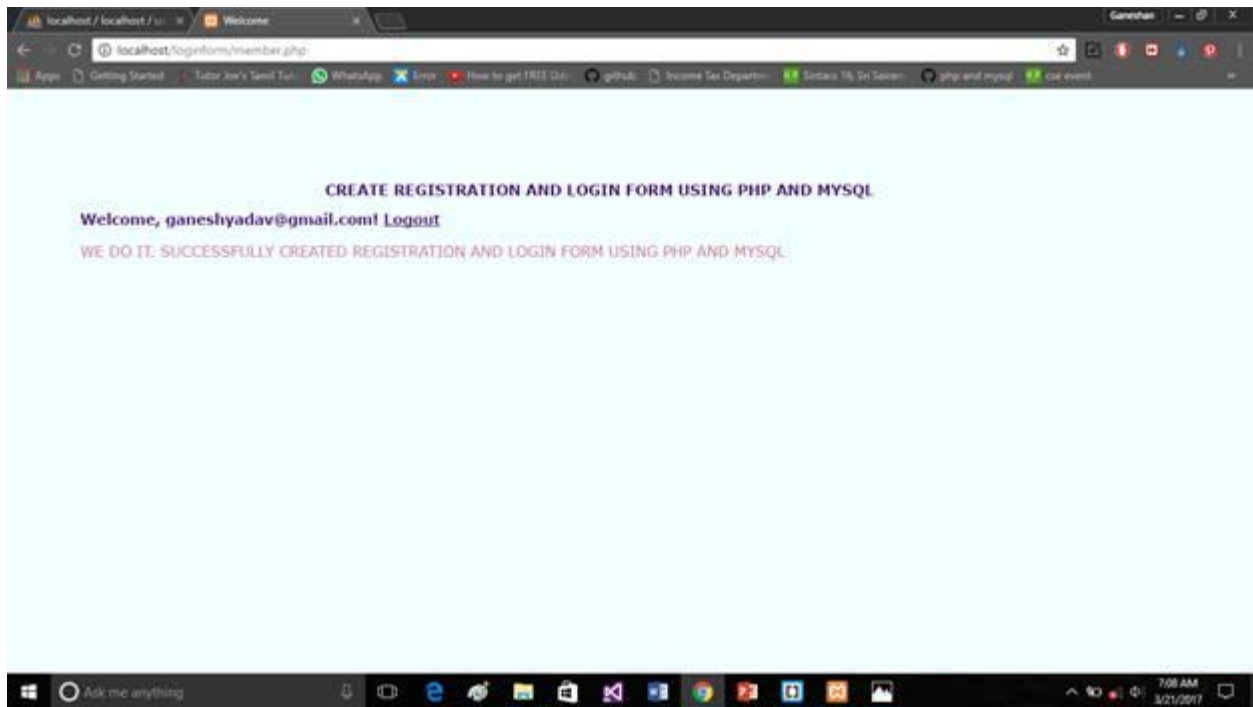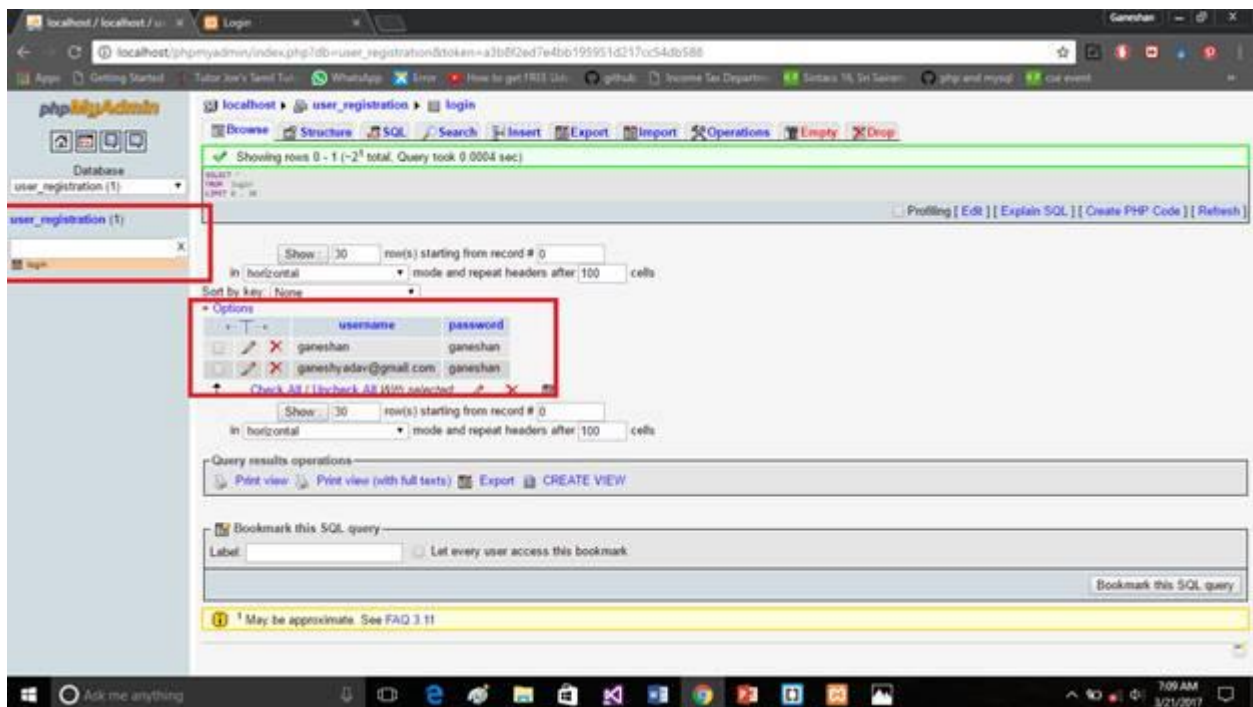
Now, you need to click the logout.

Output

Now, check the database to check, whether our data was stored or not.

Here, we have successfully created a login form validation. Using PHP and WAMP/XAMPP, and we created and executed it.