

# Web Development Week 3

## Part 2



# The Goal

- Create a database
- Connect to the database
- Demonstrate database reading and writing
- Create user privileges logic



# Creating a MySQL Database



# PhpMyAdmin

Login to the web authenticator

<https://webauth.abertay.ac.uk/>

phpMyAdmin Link

<https://phpmyadmin.abertay.ac.uk/phpmyadmin>


MySQL Server:

lochnagar.abertay.ac.uk

Username: XXXXXX

Password: XXXXXX

Database: XXXXXX



Welcome to phpMyAdmin

Language

English (United Kingdom) ▼

Log in ⓘ

Username:

Password:

Log in



# PhpMyAdmin

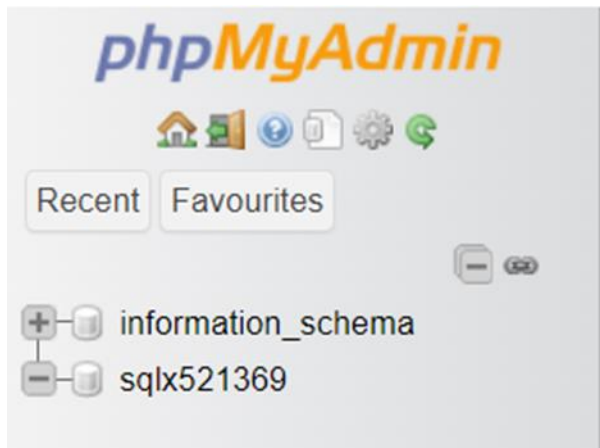
The screenshot displays the phpMyAdmin web interface for a local MySQL server. The top navigation bar includes tabs for Databases, SQL, Status, Export, Import, Settings, Variables, Charsets, Engines, and Plug-ins. The left sidebar shows the 'Recent' and 'Favourites' sections, with 'information\_schema' and 'sqlx521369' listed. The main content area is divided into several panels:

- General settings:** Includes a 'Change password' link, a 'Server connection collation' dropdown set to 'utf8mb4\_unicode\_ci', and a 'More settings' link.
- Appearance settings:** Includes a 'Language' dropdown set to 'English (United Kingdom)' and a 'Theme' dropdown set to 'pmahomme', with a 'View all' button.
- Database server:** Lists server details: Server: Localhost via UNIX socket, Server type: MariaDB, Server connection: SSL is not being used, Server version: 10.5.22-MariaDB - MariaDB Server, Protocol version: 10, User: sqlx521369@localhost, and Server charset: cp1252 West European (latin1).
- Web server:** Lists web server details: Apache/2.4.37 (Oracle Linux) OpenSSL/1.1.1k, Database client version: libmysql - mysqlnd 7.4.33, PHP extension: mysqli, curl, and mbstring, and PHP version: 7.4.33.
- phpMyAdmin:** Includes version information (5.2.1-1.el8.remi (up to date)), links to Documentation, Official Homepage, and Contribute.

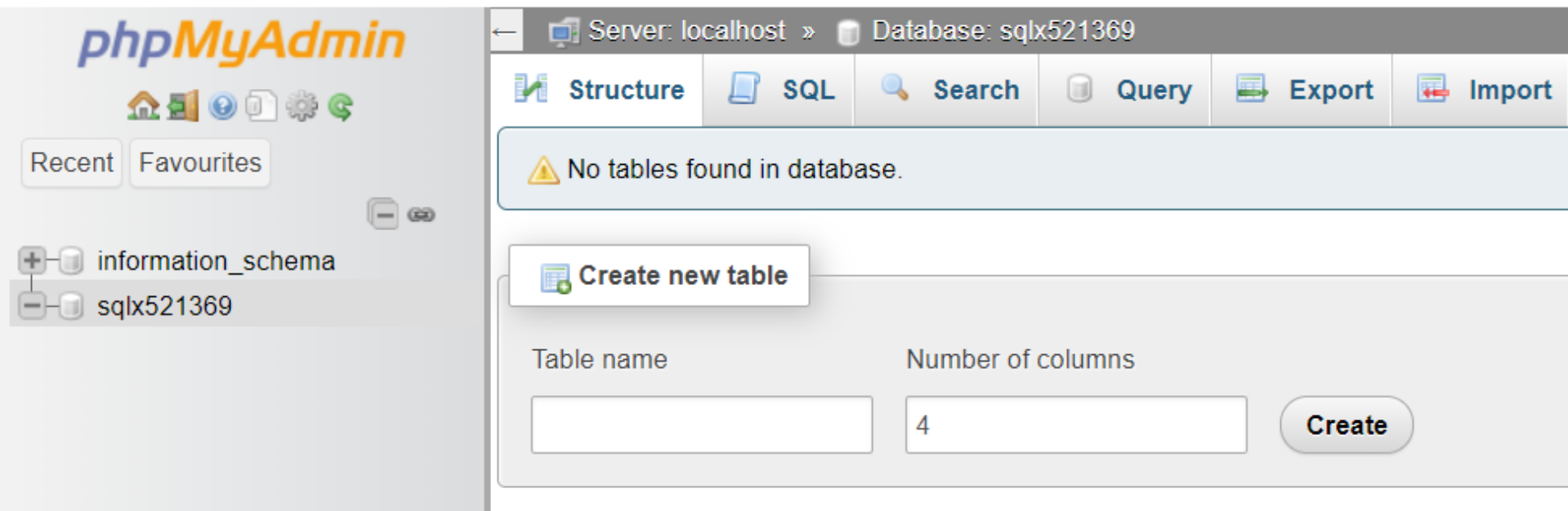
A speaker icon is visible in the bottom right corner of the phpMyAdmin panel.

# Lochnagar

- Please note that you have only one database in your Lochnagar.
- You can add as many tables as you like but no more databases.
- This is simply due to the way accounts are set up on lochnagar-it is not a limitation of mysql



# Creating a MySQL Database



The screenshot shows the phpMyAdmin web interface. On the left sidebar, the 'phpMyAdmin' logo is at the top, followed by navigation icons and buttons for 'Recent' and 'Favourites'. Below these, a tree view shows the database structure with 'information\_schema' and 'sqlx521369' listed. The main panel at the top shows the connection details: 'Server: localhost » Database: sqlx521369'. Below this is a toolbar with buttons for 'Structure', 'SQL', 'Search', 'Query', 'Export', and 'Import'. A message box states 'No tables found in database.' Below the message is a 'Create new table' button. The 'Create new table' dialog is open, showing a 'Table name' input field, a 'Number of columns' input field with the value '4', and a 'Create' button.

phpMyAdmin

Recent Favourites

information\_schema  
sqlx521369

Server: localhost » Database: sqlx521369

Structure SQL Search Query Export Import

⚠ No tables found in database.

Create new table

Table name Number of columns

4



# Creating a MySQL Database


 **Create new table**

Table name	Number of columns	<b>Create</b>
<input type="text" value="Users"/>	<input type="text" value="6"/>	





# Creating a MySQL Database

Server: localhost » Database: sqlx521369

Structure SQL Search Query Export Import Operations Routines Events Triggers Designer

Table name: Users Add 1 column(s) Go

Name	Type	Length/Values	Default	Collation	Attributes	Null	Index	AI	Comments
	INT		None			<input type="checkbox"/>	---	<input type="checkbox"/>	
	INT		None			<input type="checkbox"/>	---	<input type="checkbox"/>	
	INT		None			<input type="checkbox"/>	---	<input type="checkbox"/>	
	INT		None			<input type="checkbox"/>	---	<input type="checkbox"/>	
	INT		None			<input type="checkbox"/>	---	<input type="checkbox"/>	
	INT		None			<input type="checkbox"/>	---	<input type="checkbox"/>	

Table comments: Collation: Storage Engine: InnoDB

PARTITION definition:

Partition by: ( Expression or column list )

Partitions:

Preview SQL Save

# Creating a MySQL Database

Server: localhost » Database: sqlx521369

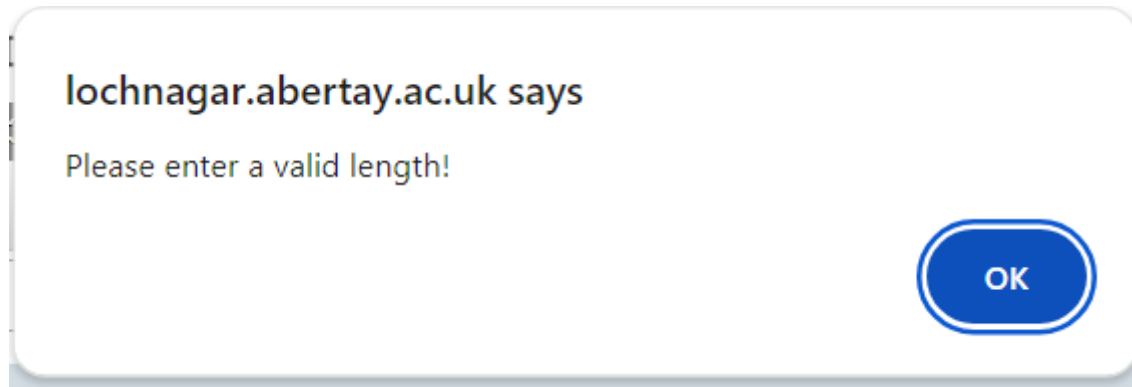
Structure SQL Search Query Export Import Operations Routines Events Triggers Designer

Table name: Users Add 1 column(s) Go

Name	Type	Length/Values	Default	Collation	Attributes	Null	Index	
userID	BIGINT		None			<input type="checkbox"/>	PRIMARY	<input checked="" type="checkbox"/>
userRank	INT		None			<input type="checkbox"/>	---	<input type="checkbox"/>
userName	VARCHAR		None			<input type="checkbox"/>	---	<input type="checkbox"/>
userEmail	VARCHAR		None			<input type="checkbox"/>	---	<input type="checkbox"/>
userPassword	VARCHAR		None			<input type="checkbox"/>	---	<input type="checkbox"/>
userJoiningDate	TIMESTAMP		None			<input type="checkbox"/>	---	<input type="checkbox"/>

Table comments: Collation: Storage Engine: InnoDB

# Creating a MySQL Database



Enter valid lengths varchar should  
be 100



# Creating a MySQL Database

Server: localhost » Database: sqlx521369 » Table: Users

Browse Structure SQL Search Insert Export Import Operations Triggers

Table structure Relation view


#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 userID	bigint(20)			No	None		AUTO_INCREMENT	Change  Drop  More
<input type="checkbox"/>	2 userRank	int(11)			No	None			Change  Drop  More
<input type="checkbox"/>	3 userName	varchar(100)	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/>	4 userEmail	varchar(100)	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/>	5 userPassword	varchar(100)	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/>	6 userJoiningDate	timestamp			No	current_timestamp()		ON UPDATE CURRENT_TIMESTAMP()	Change  Drop  More


Primary  
 Unique  
 Index  
 Spatial  
 Fulltext  
 Distinct values


☐ Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext





# Creating a MySQL Database


 Browse


 Structure

 SQL

 Search

 Insert

 Export

 Import

 MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)

```
SELECT * FROM `Users`
```

☐ Profiling [ [Edit inline](#) ] [ [Edit](#) ] [ [Explain SQL](#) ] [ [Create PHP code](#) ] [ [Refresh](#) ]

Query results operations

 Create view



# Creating a MySQL Database

Server: localhost » Database: sqlx521369 » Table: Users

Browse Structure SQL Search Insert Export Import Operations Triggers

Run SQL query/queries on table sqlx521369.Users:

```
1 INSERT INTO Users (userRank, userName, userEmail, userPassword, userJoiningDate)
2 VALUES (0, 'Alexander', 'hep504@abertay.ac.uk', 'AP28', CURRENT_TIMESTAMP);
3
```

SELECT \* SELECT INSERT UPDATE DELETE Clear Format Get auto-saved query

☐ Bind parameters

Delimiter ; ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks **Go**

# Creating a MySQL Database

Server: localhost » Database: sqlx521369 » Table: Users

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#) [Import](#) [Operations](#) [Triggers](#)

[Show query box](#)

✓ 1 row inserted.  
Inserted row id: 1 (Query took 0.0038 seconds.)

```
INSERT INTO Users (userRank, userName, userEmail, userPassword, userJoiningDate) VALUES (0,'Alexander', 'hep504@abertay.ac.u
```

[\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Create PHP code \]](#)



# Creating a MySQL Database

```
1 SELECT * FROM Users;
```





Server: localhost » Database: sqlx521369 » Table: Users

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#) [Import](#) [Operations](#) [Triggers](#)

Show query box

✓ Showing rows 0 - 0 (1 total, Query took 0.0049 seconds.)

SELECT \* FROM Users;

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25  Filter rows:

Extra options

			userID	userRank	userName	userEmail	userPassword	userJoiningDate
<input type="checkbox"/>		Edit		Copy		Delete	1	0 Alexander hep504@abertay.ac.uk AP28 2024-03-14 21:06:50

☐ Check all With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25  Filter rows:

Query results operations

Print Copy to clipboard Export Display chart Create view

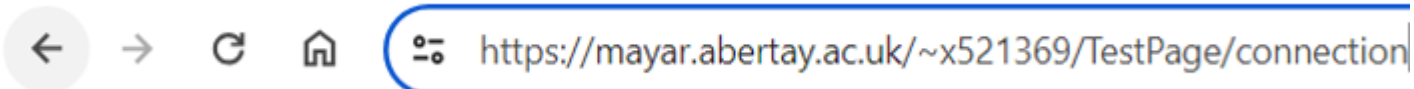


# Accessing the Database



# Connecting through your webpage

```
1 <?php
2
3 $dbhost = "lochnagar.abertay.ac.uk";
4 $dbuser = "sqlx521369";
5 $dbpass = "[REDACTED]";
6 $dbname = "sqlx521369";
7
8 if (!$con = mysqli_connect($dbhost, $dbuser, $dbpass, $dbname)) {
9     die("Failed to connect!");
10
11 } else {
12     echo "Connected";
13 }
14
15 ?>
```



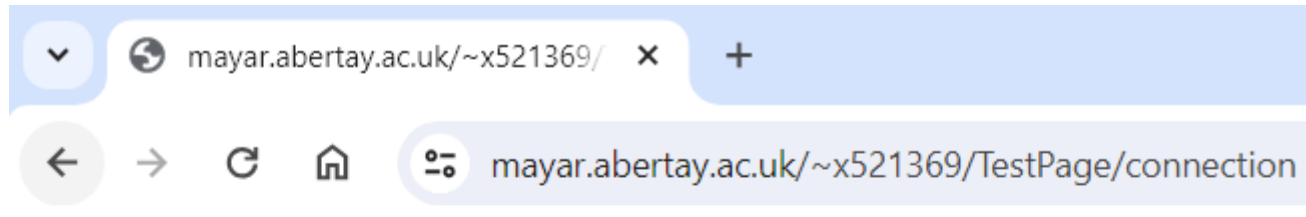
Connected



# Connecting through your webpage

```
connection.php
1 <?php
2 // variables to hold database login info
3 $dbhost = "lochnagar.abertay.ac.uk";
4 $dbuser = "sqlx521369";
5 $dbpass = " ";
6 $dbname = "sqlx521369";
7
8 //Attempt to connect to database
9 if (!$con = mysqli_connect($dbhost, $dbuser, $dbpass, $dbname)) {
10     die("Failed to connect! ");
11
12 } else {
13     echo "Connected " . "<br>";
14
15     $sql = "SELECT userID, userName FROM Users";
16     $result = $con->query($sql);
17
18     if ($result->num_rows > 0) {
19         echo "<br>" . "We have results!" . "<br>";
20         // output data of each row
21         while($row = $result->fetch_assoc()) {
22             echo "<br> User ID: " . $row["userID"] . " - User Name: " . $row["userName"] . "<br>";
23         }
24     }
25     else {
26         echo "0 results" . "<br>";
27     }
28 }
29
30 ?>
```

# Connecting through your webpage



Connected

We have results!

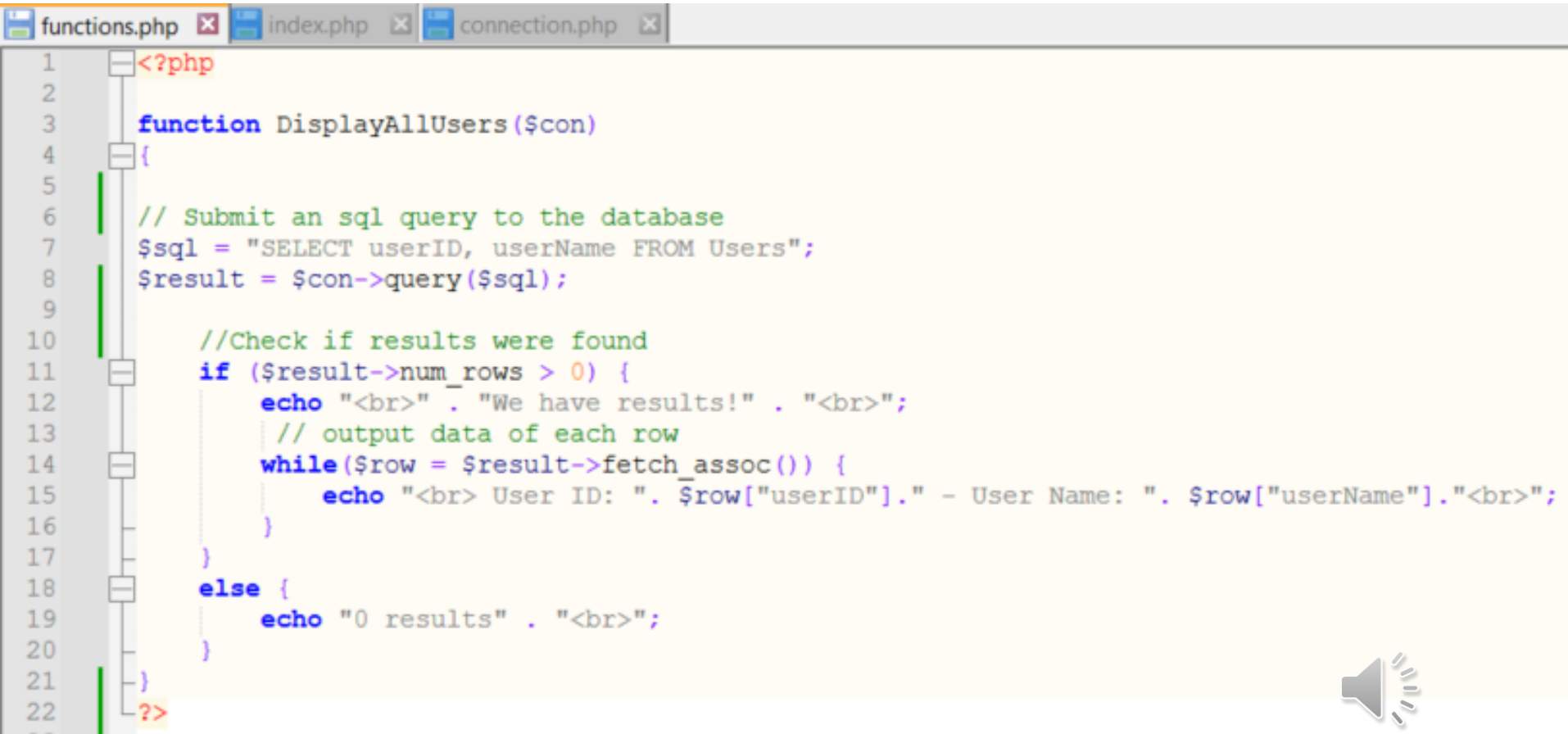
User ID: 1 - User Name: Alexander



# Creating a Login Form



# Making the Web Pages



The screenshot shows a code editor with three tabs: functions.php, index.php, and connection.php. The active tab is functions.php, which contains the following PHP code:

```
1 <?php
2
3 function DisplayAllUsers($con)
4 {
5
6 // Submit an sql query to the database
7 $sql = "SELECT userID, userName FROM Users";
8 $result = $con->query($sql);
9
10 //Check if results were found
11 if ($result->num_rows > 0) {
12     echo "<br>" . "We have results!" . "<br>";
13     // output data of each row
14     while($row = $result->fetch_assoc()) {
15         echo "<br> User ID: " . $row["userID"] . " - User Name: " . $row["userName"] . "<br>";
16     }
17 }
18 else {
19     echo "0 results" . "<br>";
20 }
21 }
22 ?>
```

A speaker icon is visible in the bottom right corner of the editor window.

# Making the Web Pages



```
1 <?php
2
3 $dbhost = "lochnagar.abertay.ac.uk";
4 $dbuser = "sqlx521369";
5 $dbpass = "XXXXXXXXXXXXXXXXXXXX";
6 $dbname = "sqlx521369";
7
8 if(!$con = mysqli_connect($dbhost,$dbuser,$dbpass,$dbname) )
9 {
10
11     die("failed to connect!");
12 }
13 ?>
```

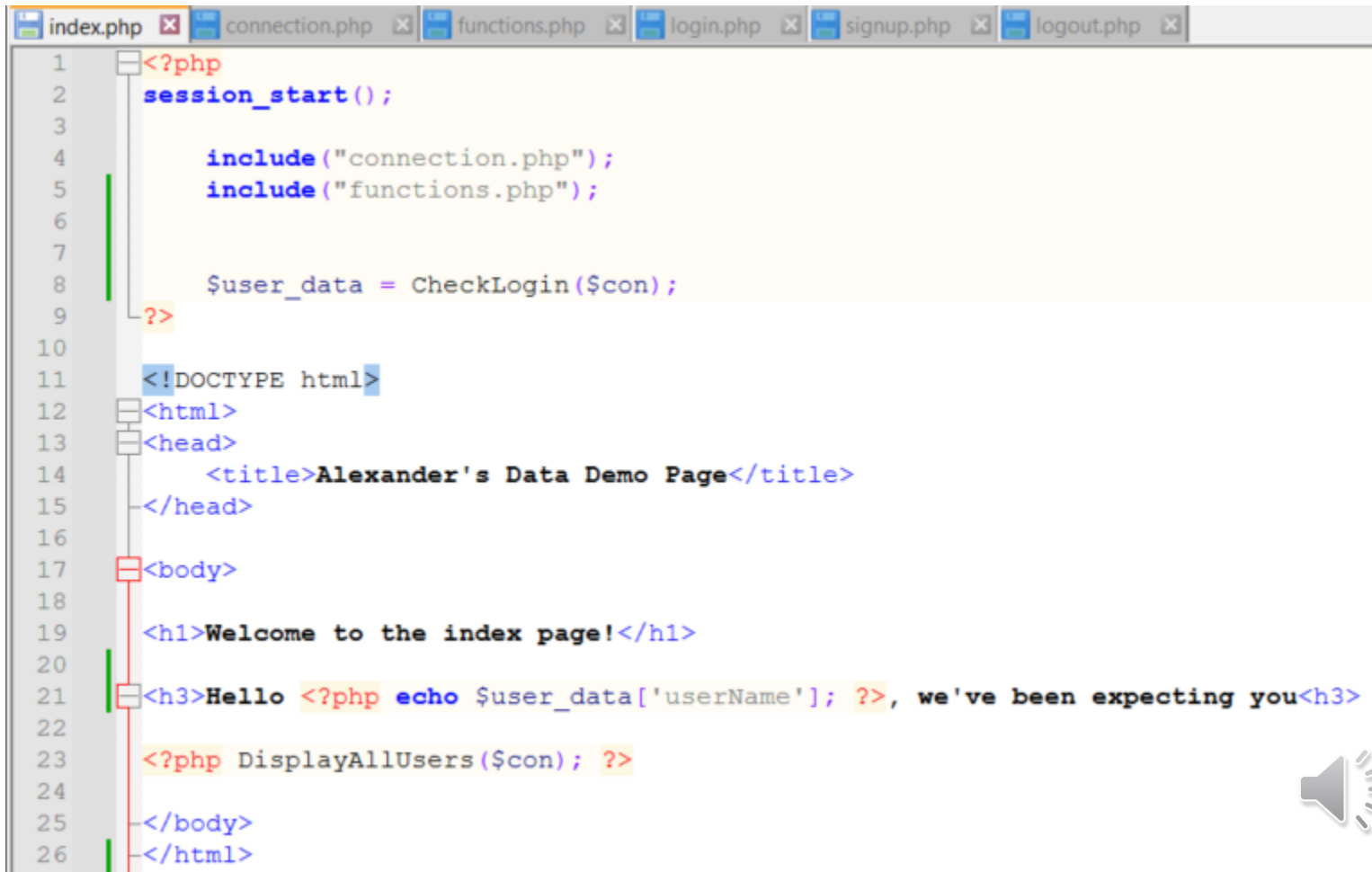


# Making the Web Pages

```
index.php x connection.php x functions.php x login.php x signup.php x logout.php x
1 <?php
2
3 function DisplayAllUsers($con)
4 {
5
6     $sql = "SELECT userID, userName FROM Users";
7     $result = $con->query($sql);
8
9     if ($result->num_rows > 0) {
10         echo "<br>" . "We have results!" . "<br>";
11         // output data of each row
12         while($row = $result->fetch_assoc()) {
13             echo "<br> User ID: " . $row["userID"] . " - User Name: " . $row["userName"] . "<br>";
14         }
15     }
16     else {
17         echo "0 results" . "<br>";
18     }
19 }
20
21 function CheckLogin($con)
22 {
23
24     if(isset($_SESSION['userID']))
25     {
26
27         $userID = $_SESSION['userID'];
28         $query = "select * from Users where userID = '$userID' limit 1";
29
30         $result = mysqli_query($con,$query);
31         if($result && mysqli_num_rows($result) > 0)
32         {
33
34             $user_data = mysqli_fetch_assoc($result);
35             return $user_data;
36         }
37     }
38
39     //redirect to login
40     header("Location: login.php");
41     die;
42
43 }
44
45 ?>
```



# Making the Web Pages



```
1  <?php
2      session_start();
3
4      include("connection.php");
5      include("functions.php");
6
7
8      $user_data = CheckLogin($con);
9  ?>
10
11  <!DOCTYPE html>
12  <html>
13  <head>
14      <title>Alexander's Data Demo Page</title>
15  </head>
16
17  <body>
18
19      <h1>Welcome to the index page!</h1>
20
21      <h3>Hello <?php echo $user_data['userName']; ?>, we've been expecting you</h3>
22
23      <?php DisplayAllUsers($con); ?>
24
25  </body>
26  </html>
```



# Making the Web Pages



```
1 <?php
2
3 ?>
4
5
6 <!DOCTYPE html>
7 <html>
8 <head>
9     <title>Login Page</title>
10 </head>
11
12 <body>
13
14 <h1>This is the Login page</h1>
15
16 </body>
17 </html>
18
```



# Making the Web Pages

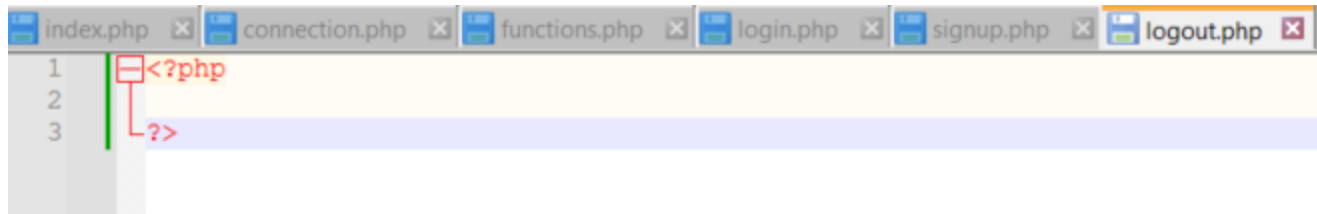


The screenshot shows a web development IDE with several open files: index.php, connection.php, functions.php, login.php, signup.php (selected), and logout.php. The signup.php file is open in the main editor, displaying PHP and HTML code. The code is as follows:

```
1 <?php
2
3 ?>
4
5
6 <!DOCTYPE html>
7 <html>
8 <head>
9     <title>Sign Up Page</title>
10 </head>
11
12 <body>
13
14     <h1>This is the Sign Up page</h1>
15
16
17 </body>
18 </html>
```



# Making the Web Pages



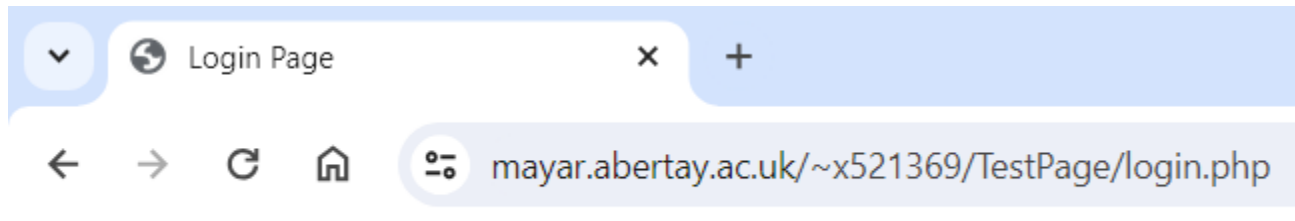
The screenshot shows a web development IDE with a tabbed interface. The active tab is 'logout.php'. The code editor displays the following PHP code:

```
1 <?php
2
3 ?>
```

The code is highlighted with a yellow background. The file explorer on the left shows the following files: 'index.php', 'connection.php', 'functions.php', 'login.php', 'signup.php', and 'logout.php'.



# Validation



**This is the Login page**



# Login Form



# Login

```
40 }
41 ?>
42
43
44 <!DOCTYPE html>
45 <html>
46 <head>
47     <title>Login Page</title>
48 </head>
49
50 <body>
51
52     <h1>This is the login page</h1>
53
54 </body>
55 </html>
56
57 <body>
58     <div id="box">
59         <form method="post">
60             <div style="font-size: 20px;margin: 10px;color: white;">Login</div>
61             <input id="textBoxUserName" type="text" name="userName"><br><br>
62             <input id="textBoxPassword" type="password" name="userPassword"><br><br>
63             <input id="button" type="submit" value="Login"><br><br>
64         </form>
65     </div>
66
67 </body>
68 </html>
```

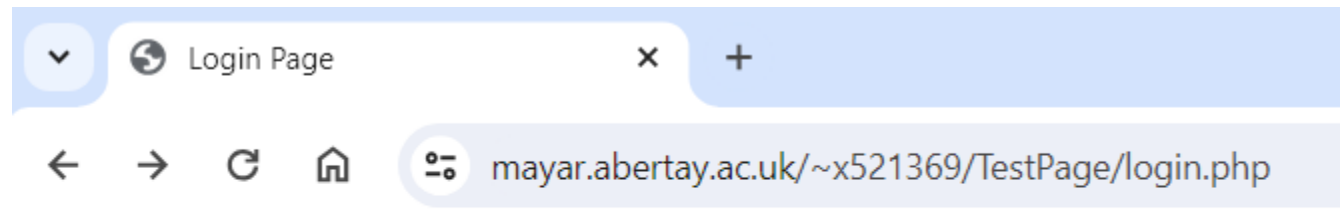


# Login

```
index.php x functions.php x connection.php x login.php x signup.php x logout.php x
1 <?php
2 session_start();
3
4 include("connection.php");
5 include("functions.php");
6
7 if($_SERVER['REQUEST_METHOD'] == "POST")
8 {
9     //something was posted
10    $userName = $_POST['userName'];
11    $userPassword = $_POST['userPassword'];
12
13    if(!empty($userName) && !empty($userPassword) && !is_numeric($userName))
14    {
15        //read from database
16        $query = "select * from Users where userName = '$userName' limit 1";
17        $result = mysqli_query($con, $query);
18
19
20        if($result && mysqli_num_rows($result) > 0)
21        {
22            $user_data = mysqli_fetch_assoc($result);
23
24            if($user_data['userPassword'] === $userPassword)
25            {
26                $_SESSION['userID'] = $user_data['userID'];
27                header("Location: index.php");
28                die;
29            }
30        }
31
32        echo "wrong username or password!";
33    }else
34    {
35        echo "wrong username or password!";
36    }
37 }
38 ?>
39
40
41 <!DOCTYPE html>
42 <html>
```



# Login



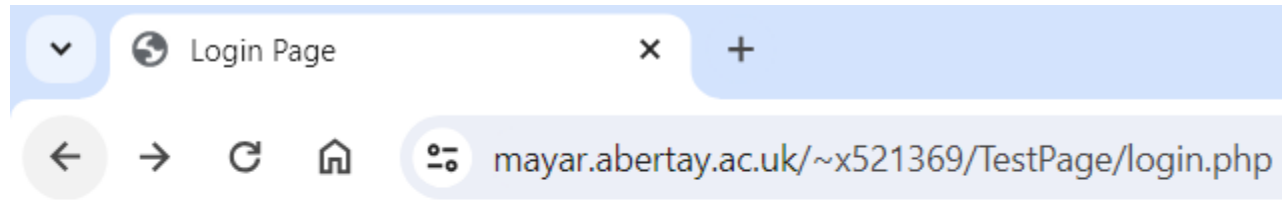
**This is the login page**



Login



# Login



**This is the login page**

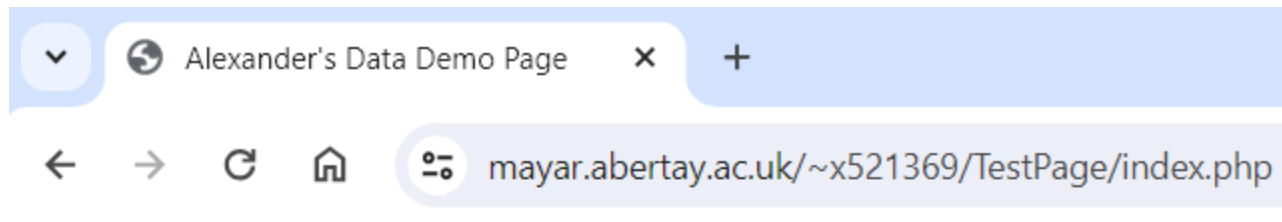
Alexander

....

Login



# Login



**Welcome to the index page!**

**Hello Alexander, we've been expecting you**

**We have results!**

**User ID: 1 - User Name: Alexander**



# Login Out



# Log Out

```
1 <?php
2 session_start();
3
4 include("connection.php");
5 include("functions.php");
6
7
8 $user_data = CheckLogin($con);
9 ?>
10
11 <!DOCTYPE html>
12 <html>
13 <head>
14     <title>Alexander's Data Demo Page</title>
15 </head>
16
17 <body>
18
19     <h1>Welcome to the index page!</h1>
20
21     <h3>Hello <?php echo $user_data['userName']; ?>, we've been expecting you</h3>
22
23     <a href="logout.php">Logout</a><br>
24
25     <?php DisplayAllUsers($con); ?>
26
27 </body>
28 </html>
```

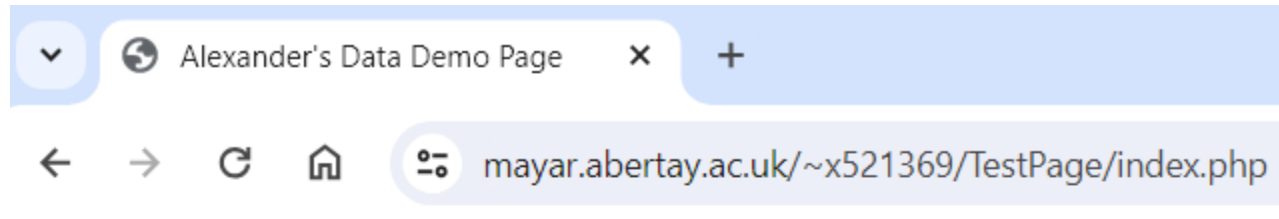


# Log Out

```
1 <?php
2 session_start();
3
4 if(isset($_SESSION['userID']))
5 {
6     unset($_SESSION['userID']);
7 }
8
9 header("Location: login.php");
10 die;
11
12 ?>
```



# Log Out



## Welcome to the index page!

Hello Alexander, we've been expecting you

[Logout](#)

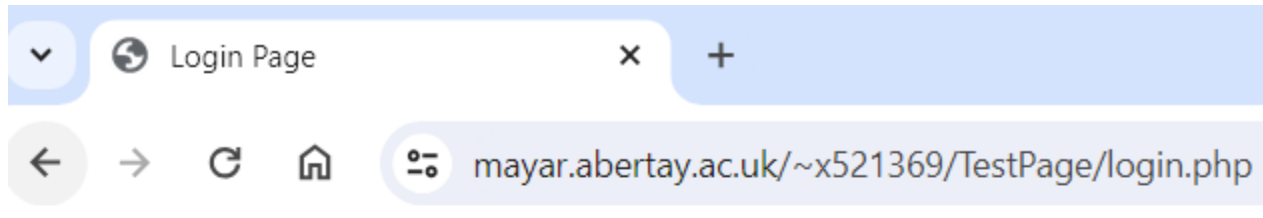
We have results!

User ID: 1 - User Name: Alexander





# Log Out



**This is the login page**



Login




# Sign Up



# Sign Up

index.php x connection.php x functions.php x login.php x signup.php x logout.php x

```
50 <body>
51
52 <h1>This is the login page</h1>
53
54 </body>
55 </html>
56
57 <body>
58     <div id="box">
59         <form method="post">
60             <div style="font-size: 20px;margin: 10px;color: white;">Login</div>
61             <input id="textBoxUserName" type="text" name="userName"><br><br>
62             <input id="textBoxPassword" type="password" name="userPassword"><br><br>
63             <input id="button" type="submit" value="Login"><br><br>
64         </form>
65     </div>
66
67     <br><h4>Don't Have an account?</h4>
68     <a href="signup.php">Click to Signup</a><br><br>
69
70 </body>
71 </html>
```

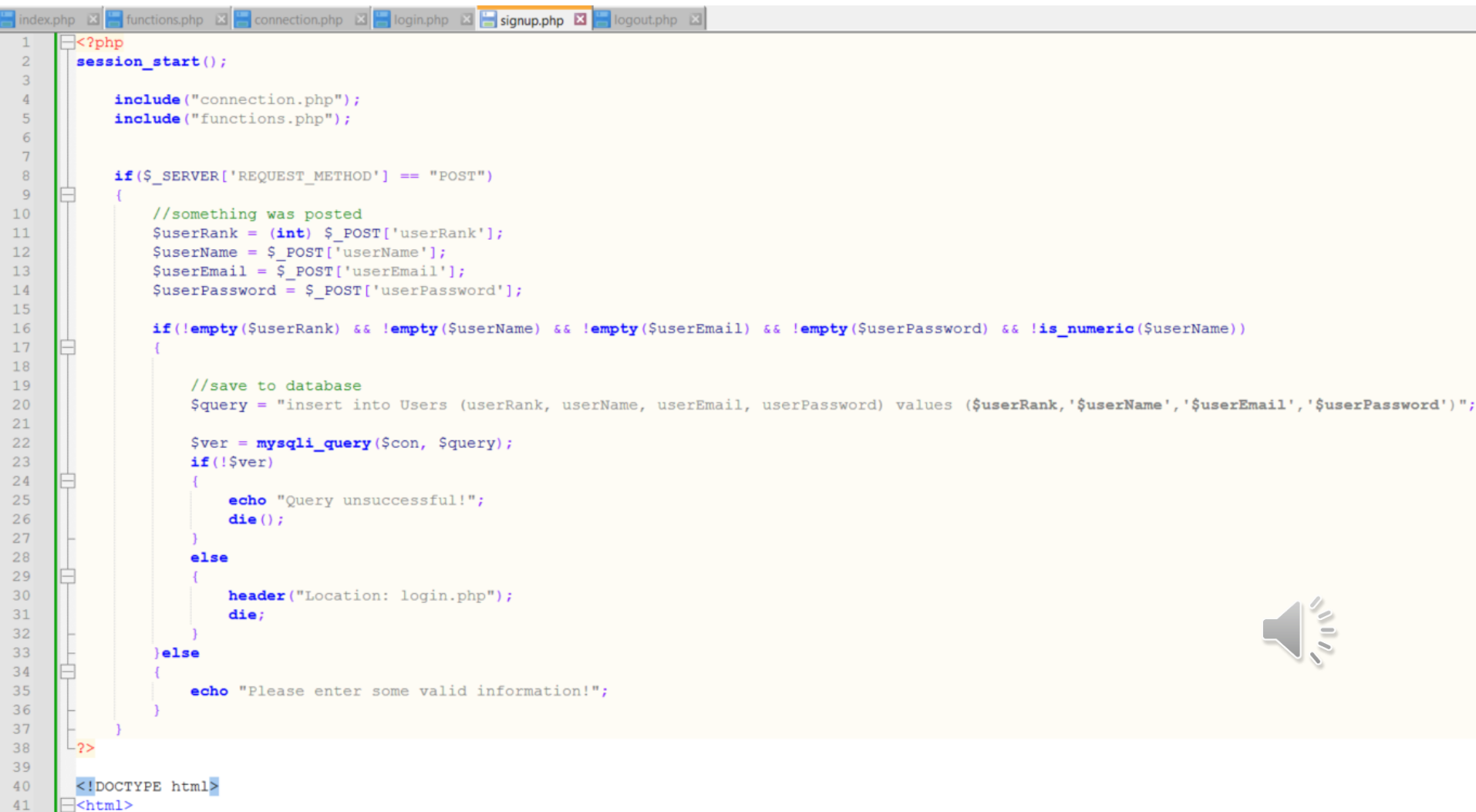


# Sign Up

```
index.php x functions.php x connection.php x login.php x signup.php x logout.php x
37      }
38      ?>
39
40      <!DOCTYPE html>
41      <html>
42      <head>
43          <title>Sign Up Page</title>
44      </head>
45
46      <body>
47
48          <h1>This is the Sign Up page</h1>
49
50          <div id="box">
51
52              <form method="post">
53                  <div style="font-size: 20px;margin: 10px;color: white;">Signup</div>
54                  <input id="text" type="text" name="userRank"><br><br>
55                  <input id="text" type="text" name="userName"><br><br>
56                  <input id="text" type="text" name="userEmail"><br><br>
57                  <input id="text" type="password" name="userPassword"><br><br>
58
59                  <input id="button" type="submit" value="Signup"><br><br>
60
61              </form>
62          </div>
63
64          <a href="login.php">Back to Login</a><br><br>
65      </body>
66  </html>
```

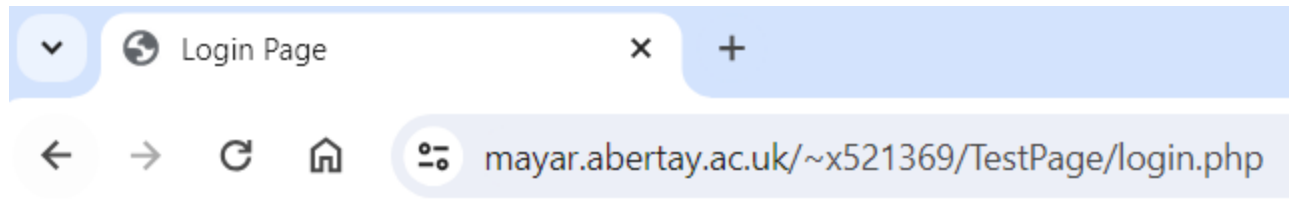


# Sign Up



```
1 <?php
2 session_start();
3
4 include("connection.php");
5 include("functions.php");
6
7
8 if($_SERVER['REQUEST_METHOD'] == "POST")
9 {
10     //something was posted
11     $userRank = (int) $_POST['userRank'];
12     $userName = $_POST['userName'];
13     $userEmail = $_POST['userEmail'];
14     $userPassword = $_POST['userPassword'];
15
16     if(!empty($userRank) && !empty($userName) && !empty($userEmail) && !empty($userPassword) && !is_numeric($userName))
17     {
18         //save to database
19         $query = "insert into Users (userRank, userName, userEmail, userPassword) values ($userRank, '$userName', '$userEmail', '$userPassword')";
20
21         $ver = mysqli_query($con, $query);
22         if(!$ver)
23         {
24             echo "Query unsuccessful!";
25             die();
26         }
27         else
28         {
29             header("Location: login.php");
30             die;
31         }
32     }else
33     {
34         echo "Please enter some valid information!";
35     }
36 }
37
38 ?>
39
40 <!DOCTYPE html>
41 <html>
```

# Sign Up



**This is the login page**



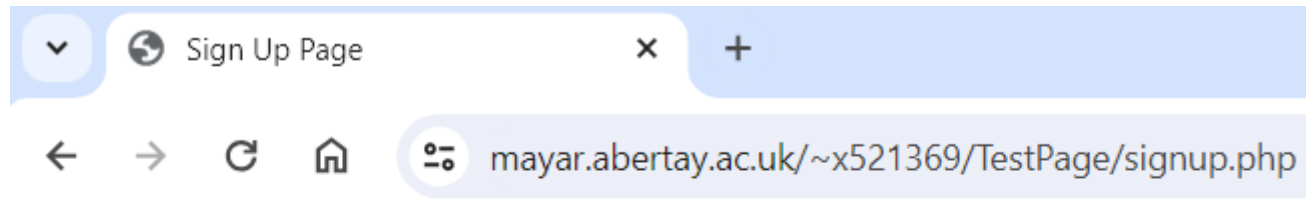
Login

**Don't Have an account?**

[Click to Signup](#)



# Sign Up



## This is the Sign Up page

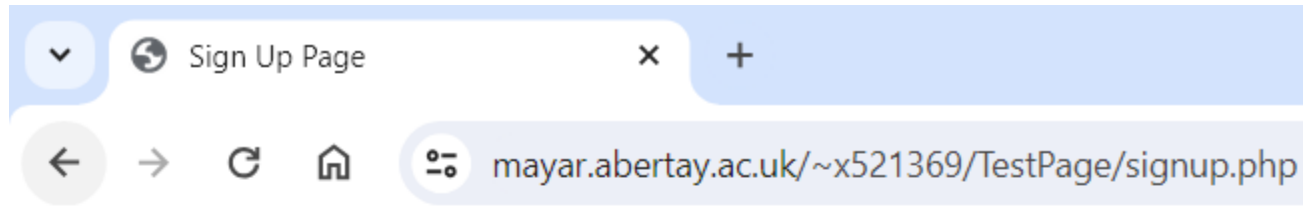


Signup

[Back to Login](#)



# Sign Up



## This is the Sign Up page

[Back to Login](#)





# Sign Up

The screenshot displays the phpMyAdmin web interface. On the left sidebar, the 'information\_schema' and 'sqlx521369' databases are listed, with 'Users' selected under 'sqlx521369'. The main panel shows the 'SQL' tab active, with a text area containing the query: `1 SELECT * FROM Users`. Above the text area is a button labeled 'Run SQL query/queries on database sqlx521369:'. Below the text area are buttons for 'Clear', 'Format', and 'Get auto-saved query', along with a checkbox for 'Bind parameters'. At the bottom, there is a 'Delimiter' dropdown set to ';', several checkboxes for 'Show this query here again', 'Retain query box', 'Rollback when finished', and 'Enable foreign key checks' (which is checked), and a 'Go' button. A speaker icon is visible in the bottom right corner.

phpMyAdmin

Recent Favourites

information\_schema

sqlx521369

New

Users

Server: localhost » Database: sqlx521369

Structure SQL Search Query Export Import Operations Routines Events Triggers Designer

Run SQL query/queries on database sqlx521369:

```
1 SELECT * FROM Users
```

Clear Format Get auto-saved query

☐ Bind parameters

Delimiter ; ☐ Show this query here again ☐ Retain query box ☐ Rollback when finished ☒ Enable foreign key checks Go

# Sign Up

← Server: localhost » Database: sqlx521369 » Table: Users

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#) [Import](#) [Operations](#) [Triggers](#)

Show query box

✓ Showing rows 0 - 1 (2 total, Query took 0.0002 seconds.)

```
SELECT * FROM `Users` WHERE 1;
```

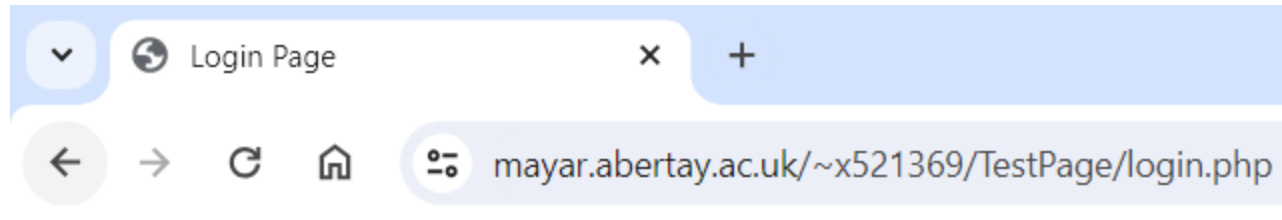
☐ Profiling [\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create PHP code \]](#) [\[ Refresh \]](#)

☐ Show all | Number of rows: 25 ▼ Filter rows: Search this table Sort by key: None ▼

Extra options

		userID	userRank	userName	userEmail	userPassword	userJoiningDate
<input type="checkbox"/>	Edit  Copy  Delete	1	0	Alexander	hep504@abertay.ac.uk	AP28	2024-03-14 21:06:50
<input type="checkbox"/>	Edit  Copy  Delete	2	1	Alice	alice@abertay.ac.uk	Alice1	2024-03-16 22:39:29

# Sign Up



## This is the login page

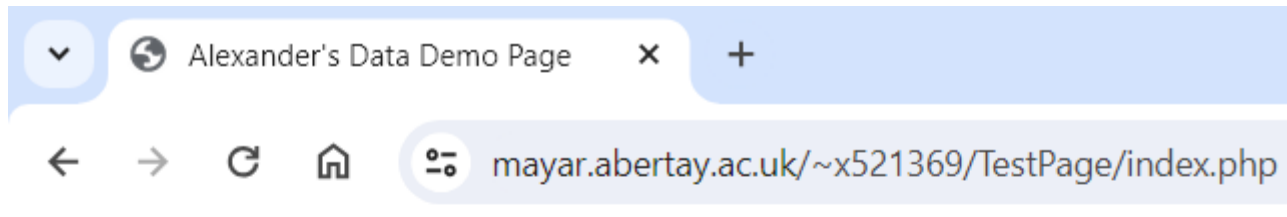
  

**Don't Have an account?**

[Click to Signup](#)



# Sign Up



## Welcome to the index page!

Hello Alice, we've been expecting you

[Logout](#)

We have results!

User ID: 1 - User Name: Alexander

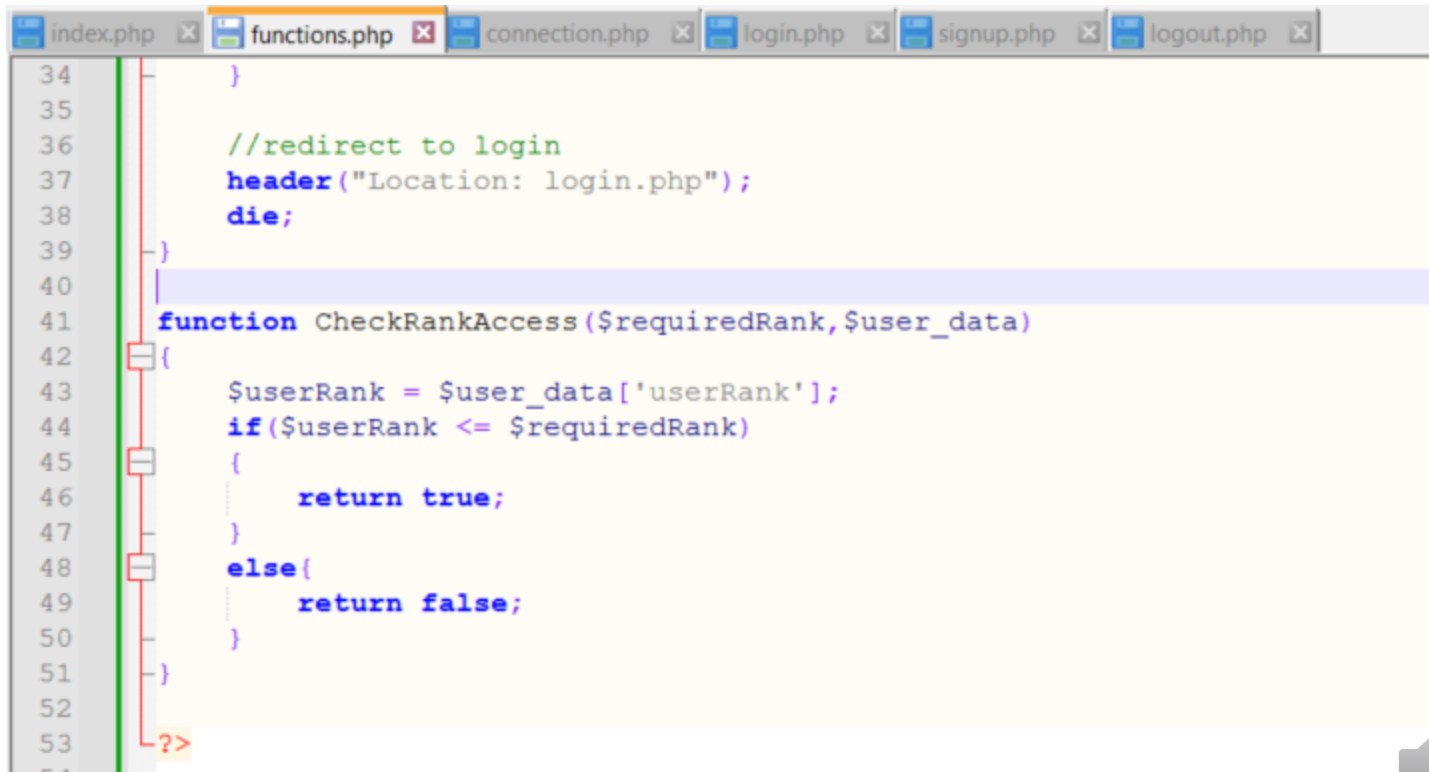
User ID: 2 - User Name: Alice



# User Permissions



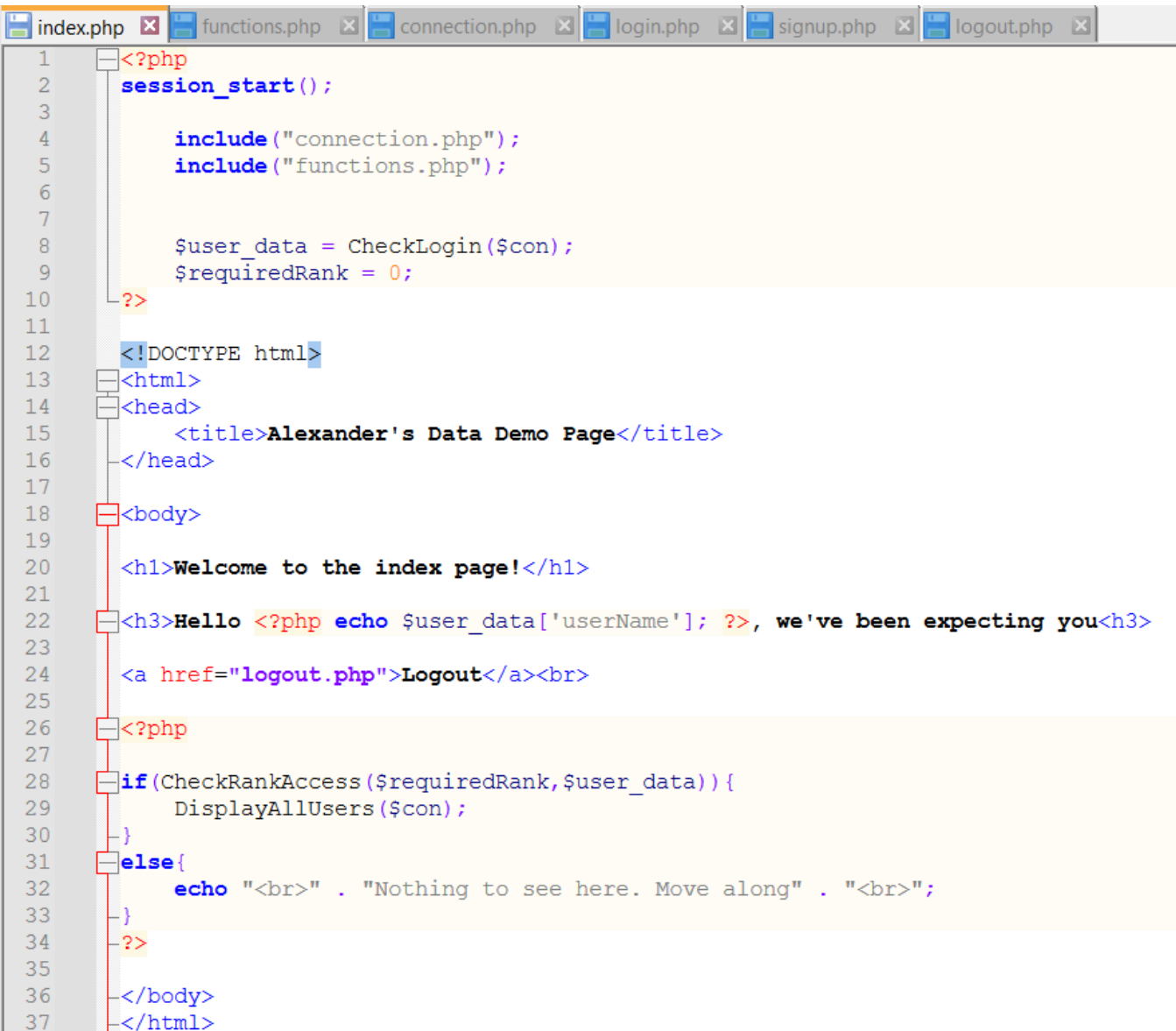
# Permissions



```
34     }
35
36     //redirect to login
37     header("Location: login.php");
38     die;
39 }
40
41 function CheckRankAccess($requiredRank,$user_data)
42 {
43     $userRank = $user_data['userRank'];
44     if($userRank <= $requiredRank)
45     {
46         return true;
47     }
48     else{
49         return false;
50     }
51 }
52
53 ?>
```



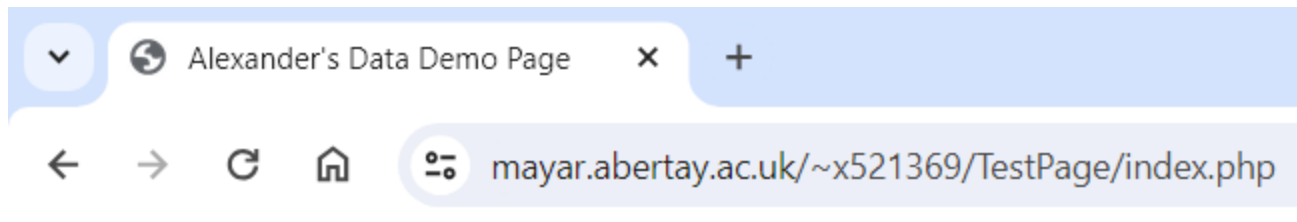
# Permissions



```
1 <?php
2 session_start();
3
4 include("connection.php");
5 include("functions.php");
6
7
8 $user_data = CheckLogin($con);
9 $requiredRank = 0;
10 ?>
11
12 <!DOCTYPE html>
13 <html>
14 <head>
15     <title>Alexander's Data Demo Page</title>
16 </head>
17
18 <body>
19
20 <h1>Welcome to the index page!</h1>
21
22 <h3>Hello <?php echo $user_data['userName']; ?>, we've been expecting you</h3>
23
24 <a href="logout.php">Logout</a><br>
25
26 <?php
27
28 if(CheckRankAccess($requiredRank,$user_data)){
29     DisplayAllUsers($con);
30 }
31 else{
32     echo "<br>" . "Nothing to see here. Move along" . "<br>";
33 }
34 ?>
35
36 </body>
37 </html>
```



# Permissions



**Welcome to the index page!**

**Hello Alice, we've been expecting you**

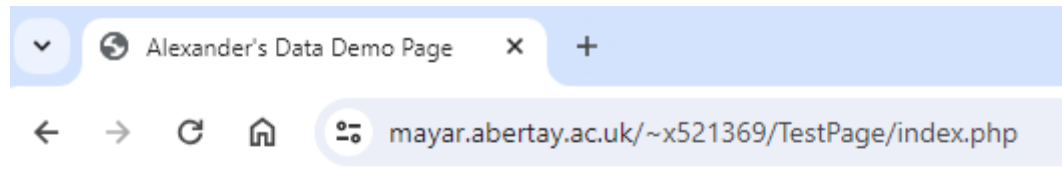
**[Logout](#)**

**Nothing to see here. Move along**





# Permissions



**Welcome to the index page!**

**Hello Alexander, we've been expecting you**

[Logout](#)

**We have results!**

**User ID: 1 - User Name: Alexander**

**User ID: 2 - User Name: Alice**



# What's Next



# Login

```
index.php x functions.php x connection.php x login.php x signup.php x logout.php x
1 <?php
2 session_start();
3
4 include("connection.php");
5 include("functions.php");
6
7 if($_SERVER['REQUEST_METHOD'] == "POST")
8 {
9     //something was posted
10    $userName = $_POST['userName'];
11    $userPassword = $_POST['userPassword'];
12
13    if(!empty($userName) && !empty($userPassword) && !is_numeric($userName))
14    {
15        //read from database
16        $query = "select * from Users where userName = '$userName' limit 1";
17        $result = mysqli_query($con, $query);
18
19
20        if($result && mysqli_num_rows($result) > 0)
21        {
22            $user_data = mysqli_fetch_assoc($result);
23
24            if($user_data['userPassword'] === $userPassword)
25            {
26                $_SESSION['userID'] = $user_data['userID'];
27                header("Location: index.php");
28                die;
29            }
30        }
31
32        echo "wrong username or password!";
33    }else
34    {
35        echo "wrong username or password!";
36    }
37 }
38 ?>
39
40
41 <!DOCTYPE html>
42 <html>
```



**See you in the  
discussion**

