LAB 7

1. To create database and table.
   a. Open **phpMyAdmin**
   b. Create database content

      CREATE DATABASE content;

   c. Create table users

      CREATE TABLE users (
      user_id MEDIUMINT NOT NULL AUTO_INCREMENT,
      first_name VARCHAR(15) NOT NULL,
      last_name VARCHAR(30) NOT NULL,
      username VARCHAR(30) NOT NULL,
      email VARCHAR (40),
      password CHAR(60) NOT NULL,
      registration_date DATETIME NOT NULL,
      PRIMARY KEY (user_id)
      );

2. Making the template
   a. To make the header file
      - Create a new php file. Type all below code and save file as **header.php**

```html
<html>
    <head>
        <title><?php echo $page_title; ?></title>
    </head>
    <body>
        <table align="center" width="100%" border="0" cellspacing="0" cellpadding="4">
            <tr>
                <td rowspan="2" bgcolor="#999966"></td>
                <td width="*" bgcolor="#999966">
                    <font color="#FFFFFF" size="+2" face="Courier New"><b>UiTM Terengganu -UiTM(T)</b></font>
                </td>
                <td width="10" rowspan="2" bgcolor="#999966"> </td>
            </tr>
            <tr>
                <td bgcolor="#CC9933">
                    <table align="center" width="100%" border="0" cellspacing="2" cellpadding="2">
                        <tr>
                            <td width="20%" align="center" bgcolor="#FFCC66">
                                <a href="index.php">Home</a>
                            </td>
                            <td width="20%" align="center" bgcolor="#FFCC66">
                                <a href="register.php">Register</a>
                            </td>
                            <td width="20%" align="center" bgcolor="#FFCC66">
                                <a href="view_users.php">View Users</a>
                            </td>
                        </tr>
                    </table>
                </td>
            </tr>
            <tr>
                <td width="10" bgcolor="#999966"> </td>
                <td bgcolor="#FFFFFF">
```

b. To make the footer file
   - create new php document. Type all below code and save file as
   footer.php

```html
        </td>
        <td width="10" bgcolor="#999966"> </td>
        </tr>
        <tr>
            <td bgcolor="#999966"> </td>
            <td bgcolor="#CC9933">
                <div align="center">
                    <small>
                        <a href="index.php">Home</a>&ordm;
                        <a href="register.php">Register</a>&ordm;
                        <a href="login.php">Login</a>&ordm;
                        <a href="change_password.php">Change Password</a>&ordm;
                        <a href="view_users.php">View Users</a>&ordm;
                    </small>
                </div>
            </td>
        </tr>
        <tr>
            <td bgcolor="#999966"> </td>
            <td bgcolor="#999966"> </td>
            <td bgcolor="#999966"> </td>
        </tr>
    </table>
</body>
</html>
```

c. To make the index page. Type all below code and save file as
   index.php

```php
<?php #Script index.php
$page_title = 'Welcome';
include ('header.php');
//use the HTML header file
echo "<p>Welcome to UiTM Terengganu</p>";
include ('footer.php');
?>
```

3. To connect to and select a database
    a. Create new php document. Type all below code and save file as
       db_connect.php

```php
<?php #Script db_connect.php
/* This file contains the database access information
   This file also establishes a connection to MySQL and
   selects the database
*/
//set the database access information constants
define ('DB_HOST','localhost');
define ('DB_USER','root');
define ('DB_PASSWORD','');
define ('DB_NAME','content');
//create a database connection then select the database
$dbCon = mysqli_connect (DB_HOST, DB_USER, DB_PASSWORD, DB_NAME)
        or die ("Db Connection failed.!".mysqli_error($dbCon));
//if cannot connect to the database in MySQL, error is displayed
?>
```

4. To execute simple queries
    a. Create a new PHP script. Type below code and save file as
       register.php.

```php
1    <?php #script register.php
2    //set the page title and include the HTML header
3    $page_title = 'Register';
4    include ('header.php');
5    if (isset($_POST['submit'])){
6        $message = NULL; //create an empty variable
7        //check for a first name
8        if (empty($_POST['first_name']) > 0){
9            $fn = FALSE;
10           $message .= '<p>You forgot to enter your first name!</p>';
11       } else {
12           $fn = $_POST['first_name'];
13       }
14       //check for a last name
15       if (empty($_POST['last_name']) > 0){
16           $ln = FALSE;
17           $message .= '<p>You forgot to enter your last name!</p>';
18       } else {
19           $ln = $_POST['last_name'];
20       }
21       //check for an email address
22       if (empty($_POST['email']) > 0){
23           $em = FALSE;
24           $message .= '<p>You forgot to enter your email address!</p>';
25       } else {
26           $em = $_POST['email'];
27       }
```

```php
28        //check for a username
29        if (empty($_POST['username']) > 0){
30            $un = FALSE;
31            $message .= '<p>You forgot to enter your username!</p>';
32        } else {
33            $un = $_POST['username'];
34        }
35        //check for a password and match against the confirmed password
36        if (empty($_POST['password1']) > 0){
37            $ps = FALSE;
38            $message .= '<p>You forgot to enter your password!</p>';
39        } else {
40            if ($_POST['password1'] == $_POST['password2']){
41                $ps = $_POST['password1'];
42            }else {
43                $ps = FALSE;
44                $message = '<p>Your password did not match with confirmed password!</p>';
45            }
46        }
47
48        if ($fn && $ln && $em && $un && $ps){
49            //register the user in the database
50            require_once('db_connect.php');
51            //make the query
52            $query = "INSERT INTO users (first_name, last_name, email, password,registration_date,
53                    username) VALUES ('$fn','$ln','$em', md5('$ps'), NOW(),'$un') ";
54
55            $result = mysqli_query($dbCon, $query);
56
57            if ($result) {
58                echo "<p><b>Thank You, You have been registered!</b></p>";
59                include('footer.php');
60            } else {
61                $message = "<p>You could not be registered due to system error.
62                        We apologize for any inconvenience</p>
63                        <p>".mysqli_error($dbCon)."</p>";
64            }
65            mysqli_close($dbCon); //close db connection
66        }
67    }
68    //print the error message if there is error
69    if (isset($message)){
70        echo "<font color='red'>$message</font>";
71    }
72    ?>
73
```

```
74   <form action="<?php echo $_SERVER['PHP_SELF']; ?>" method="post">
75       <fieldset>
76           <legend>Enter your information in the form below:</legend>
77           <p><b>First Name:</b>
78               <input type="text" name="first_name" size="20" maxlength="30"
79                   value="<?php if (isset($_POST['first_name'])) echo $_POST['first_name'];?>" />
80           </p>
81           <p><b>Last Name:</b>
82               <input type="text" name="last_name" size="20" maxlength="30"
83                   value="<?php if (isset($_POST['last_name'])) echo $_POST['last_name'];?>" />
84           </p>
85           <p><b>Email Address:</b>
86               <input type="text" name="email" size="20" maxlength="40"
87                   value="<?php if (isset($_POST['email'])) echo $_POST['email'];?>" />
88           </p>
89           <p><b>User Name:</b>
90               <input type="text" name="username" size="20" maxlength="30"
91                   value="<?php if (isset($_POST['username'])) echo $_POST['username'];?>" />
92           </p>
93           <p><b>Password:</b>
94               <input type="text" name="password1" size="20" maxlength="20"
95                   value="<?php if (isset($_POST['password1'])) echo $_POST['password1'];?>" />
96           </p>
97           <p><b>Confirm Password:</b>
98               <input type="text" name="password2" size="20" maxlength="20"
99                   value="<?php if (isset($_POST['password2'])) echo $_POST['password2'];?>" />
100          </p>
101          <div align="center"><input type="submit" name="submit" value="Submit Information" /></div>
102      </fieldset>
103  </form>
104  <?php
105  include('footer.php');
106  ?>
```

b. After run the page in the browser, submit data and make sure data are populated in the database mysql.

c. Check in mysql database using phpMyadmin or mysql prompt.

5. To retrieve query results

a. Create a new PHP script. Type below code and save file as **view_users.php**.

```php
1   <?php #script view_users.php
2   //this script retrives all the records from the users table
3   $page_title = 'View the Current Users';
4   include ('header.php');
5   require_once('db_connect.php');//connect to database
6
7   //make the query
8   $query = "SELECT CONCAT(last_name,first_name) name,
9           date_format(registration_date,'%M %D, %Y') reg_date
10          FROM users ORDER BY  registration_date ";
11
12  $result = mysqli_query($dbCon, $query);
13
14  if ($result) {
15      echo '<table align="CENTER" width="100%" border="0"
16      cellspacing="0" cellpadding="4">
17      <tr>
18          <td align="left"><b>Name</b></td>
19          <td align="left"><b>Date Registered</b></td>
20      </tr>';
21      //fetch and print all the records
22      while($row = mysqli_fetch_array($result)) {
23          echo "<tr>
24                  <td align='left'>{$row['name']}</td>
25                  <td align='left'>{$row['reg_date']}</td>
26                  </tr>\n";
27      }
28      echo '</table>';
29      mysqli_free_result($result); //free up the resources
30  } else{
31      echo '<p>The users could not be displayed due to a system error.
32          We apologized for any incovenience</p><p>'.mysqli_error($dbCon).'</p>';
33  }
34  mysqli_close($dbCon); //close the database connection
35  include('footer.php');
36  ?>
```

6. To modify view_users.php
   a. Open view_users.php
   b. Before the if($result) conditional, add below line.
      Change the if ($result) conditional as below.

```php
$num = mysqli_num_rows($result); //count how many users
if ($num > 0) {
    echo "<p><big><b>There are currently $num registered users</b></big></p>";
}
```