# Department of Computing

**CS-344: Web Engineering**

**Class:** BESE-9AB

# Lab 13: Advanced PHP

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# Lab 13: Advanced PHP

### Introduction:

PHP is a widely used server side scripting language for web development. During lectures, students have learned advanced concepts of PHP such as form handling, working with database to retrieve, update, and delete records, and working with stored procedures and functions. Students will practically get in-depth practical knowledge of the advanced PHP concepts in this lab.

### Lab Objectives:

The objective of this lab is helping students to familiarize themselves with the usage of PHP to control dynamic and server side behavior of a web site by means of communication with relational databases. Students will develop a small PHP application through which they will interact with a database and will perform basic CRUD operations.

### Tools:

Notepad, DreamWeaver, browser.

### Helping Material:

Lecture slides.

W3Schools: <https://www.w3schools.com/php/>

PHP: [www.php.net](http://www.php.net)

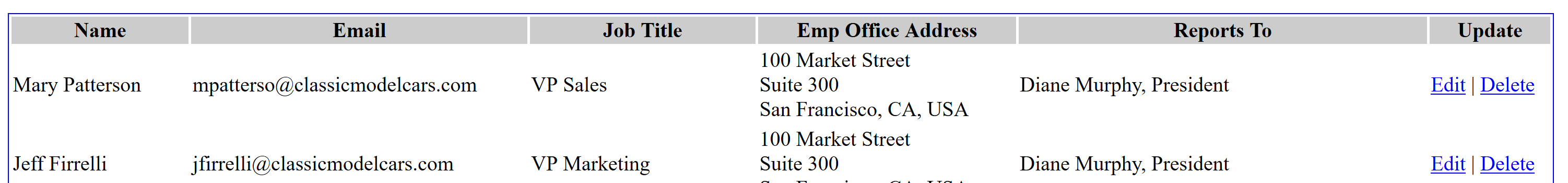
### Lab Task

**Notes:**

1. Use ‘classicmodels.sql’ and run it on phpMyAdmin to create a local database on your machine. The lab tasks are related to this database.
2. Download ‘php-crud.rar which contains working examples of CRUD operations in PHP. For the examples to run correctly, you have to execute the ‘test-database.sql’ file under ‘sql’ folder in phpMyAdmin so that relevant databases and tables are created first.

### Task 1

Write a PHP script to display the information of the employees in tabular form. The employees data can be retrieved from the ‘employees’ table. For each employee you have to display the data as shown in the below figure.



Important Hints:

1. You have to use a join to retrieve data of the reportsTo employee and the office address. Both of these are given in the employees table as foreign keys.
2. The office address should display following: addressline1, addressline2, city, state, and country.
3. ReportTo should display: employee first and last name, employee job title

### Task 2

Using PHP, perform the CRUD operations on the *employee* table. This includes: create employee, update employee, and delete employee. You should design forms where a user can add/edit employee data and the data must be saved in the database upon submission.

**Note: Upload complete solutions (css, html, js, php) for each task in in a single zip file along with adding jQuery and screenshots of your solutions in this word file.**

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| Solution |
| Task 1 code:  <?php  $servername = "localhost";  $username = "root";  $password = "";  $dbname = "organization";  $con = mysqli\_connect($servername,$username,$password,$dbname);  if(!$con){  die("Connection failed: ".mysqli\_connect\_error());  }  $query = "SELECT \* FROM employee";  $result = $con->query($query);  echo "<table border=1px><th>ID</th><th>Name</th></th><th>Email</th><th>Job Title<th>Emp Office Address</th><th>Report To</th></th><th>Edit/Delte</th>";  while ($row = $result->fetch\_assoc()) {  echo "<tr><td>".$row['Id']."</td><td>" . $row['Name'] . "</td><td>" . $row['Email'] . "</td><td>".$row['Job Title']."</td><td>".$row['Emp Office Address']."</td><td>".$row['Report To']."</td><td><a href='edit.php'>Edit</a> / <a href = 'delete.php'>Delete</a></td></tr>";  }  echo "</table>";  ?>  Task 1 screenshot:    Task 2:  DELETE  <?php  $servername = "localhost";  $username = "root";  $password = "";  $dbname="organisation";  // Create connection  $conn = mysqli\_connect($servername, $username, $password,$dbname);  // Check connection  if (!$conn) {  die("Connection failed: " . mysqli\_connect\_error());  }  $result = $\_GET["ID"];  $sql="DELETE from employee Where ID=$result";  mysqli\_query($conn, $sql);  ?>    UPDATE      EDIT.php  <?php  $servername = "localhost";  $username = "root";  $password = "";  $dbname="organisation";  // Create connection  $conn = mysqli\_connect($servername, $username, $password,$dbname);  // Check connection  if (!$conn) {  die("Connection failed: " . mysqli\_connect\_error());  }  $result = $\_GET["ID"];    echo "UPDATE RECORD";  echo "<br>";  echo " DATA Of EMPLOYEE: $data";  $sql="SELECT \* FROM employee where ID=$result";  $result=mysqli\_query($conn,$sql);  $row = mysqli\_fetch\_assoc(mysqli\_query($conn,$sql));      echo "<html>";  echo "<body>";  echo "<form action='update2.php' method='get'>";  echo "Name: <input type='text' name='name' value=". $row['Name'] ." ><br>";  echo "<br>";  echo "Email:<input type='email' name='email' value=" .$row['Email']. " ><br>";  echo "<br>";  echo " Job Title: <input type='text' name='JT' value=". $row['JobTitle'] ." ><br>";  echo "<br>";  echo " Address: <input type='text' name='add' value=" . $row['EmpOffAddr'] ." ><br>";  echo "<br>";  echo " Report to: <input type='text' name='RT' value=" . $row['ReportTo'] . " ><br>";  echo "<br>";  echo "<input type='submit'>";  echo "</form>"  echo "</body>";  echo "</html>";  ?>  UPDATE.php  <?php  $servername = "localhost";  $username = "root";  $password = "";  $dbname="organisation";  // Create connection  $conn = mysqli\_connect($servername, $username, $password,$dbname);  // Check connection  if (!$conn) {  die("Connection failed: " . mysqli\_connect\_error());  }      $EMPID = $\_GET["id"];  $name= $\_GET["name"];  $email=$\_GET["email"];  $JT=$\_GET["JT"];  $add=$\_GET["addr"];  $rt=$\_GET["RT"];  if(empty($ID)){    $sql="Update `employee` set `name`='".$name."',`Email`='".$email."',`JobTitle`='".$JT."',`EmpOffAddr`='".$add."',`ReportTo`='".$rt."' Where `ID`='".$EMPID."'";  }    mysqli\_query($conn, $sql);    ?>      <?php  $servername = "localhost";  $username = "root";  $password = "";  $dbName="organization";  // Create connection  $conn = mysqli\_connect($servername, $username, $password,$dbName);  // Check connection  if (!$conn) {  die("Connection failed: " . mysqli\_connect\_error());  }  echo "ADD INFORMATION FOR NEW EMPLOYEE";      echo "<html><body>";  echo "<form action='main.php' method='get'>";  echo "<input type='number' name='id' value=0>";  echo "Name: <input type='text' name='name' ><br>";  echo "Email:<input type='email' name='email' ><br>";  echo " Job Title: <input type='text' name='JT' ><br>";  echo " Address: <input type='text' name='add' ><br>";  echo " Report to: <input type='text' name='RT' ><br>";  echo "<input type='submit'>";  echo "</form>";  $EMPID = $\_GET["id"];  $name= $\_GET["name"];  $email=$\_GET["email"];  $JT=$\_GET["JT"];  $add=$\_GET["addr"];  $rt=$\_GET["RT"];  echo "</body></html>";  $sql="INSERT INTO `employee` (`Name`, `Email`, `JobTitle`, `EmpOffAddr`, `ReportTo`) VALUES ('".$Name."','".$Email."','".$ JobTitle."','".$addr."','".$ReportsTo."')";  if(mysqli\_query($conn, $sql)){  echo "ADDED";  }  ?> |

### Deliverables

Compile a single word document by filling in the solution part and submit this Word file on LMS. You must include your name, ID, and class on first page. The lab grading policy is as follows: The lab is graded between 0 to 10 marks. For some of the labs, students have to present their solutions in a viva session. In case of any problems with submissions on LMS, you should contact your lab engineer Mr. Aftab Hussain by email at [aftab.hussain1@seecs.edu.pk](mailto:aftab.hussain1@seecs.edu.pk).

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