

**UNIVERSITY OF THE PHILIPPINES VISAYAS  
COLLEGE OF ARTS AND SCIENCES  
DIVISION OF PHYSICAL SCIENCES AND MATHEMATICS**

**CMSC 127 Database Systems  
2nd Semester AY 2021-2022**

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**ACTIVITY GUIDE 3  
(UNIT 3)**

**ACADEMIC INTEGRITY**

*As a student of the University of the Philippines, I pledge to act ethically and uphold the value of honor and excellence. I understand that suspected misconduct on given assignments/examinations will be reported to the appropriate office and if established, will result in disciplinary action in accordance with University rules, policies and procedures. I may work with others only to the extent allowed by the Instructor.*

**Lab 3.3: PHP within DATABASE (Accessing Database in PHP)**

**Instructions:**

**1. Open a Connection to MySQL.** Type the code below in your text editor and save as **index.php** in **C:\xampp\htdocs\sample** directory (it is the same folder **sample** inside **C:\xampp\htdocs\** that we used from Lab 3.2).

```
<!DOCTYPE html>
<html>
<style>
  body{
    font-family: Calibri, Candara, Segoe, Segoe UI, Optimize, Arial, sans-serif;
    background-image: url('stars.jpg');
    background-repeat: no-repeat;
    background-size: cover;
    color: white;
  }
  table, th, td{
    border: 1px solid silver;
  }
</style>
<body>

  <h1 style="color: darkgrey;">This page will display the content of each table in the <i style="color: gold;">sample</i> database.</h1>
  <p style="color: grey;">Typing tutorial 2.0</p>
  <br>
  <h2 style="color: silver;">Department Table:</h2>
  <table style="width:100%">
    <tr>
      <th>Department ID</th>
      <th>Department Name</th>
      <th>Manager Name</th>
      <th>Budget</th>
      <th>City</th>
    </tr>
    <?php
      include 'department.php';
    >
  </table>
</body>
</html>
```

For the background image: feel free to use any decent image that you have in your computer, just copy that image into **htdocs/sample** directory and change 'stars.jpg' to the file name (with extension of your image file)

a php code within HTML

This time, we created a php file with HTML elements. The php code is within the HTML code. The **index.php** will use the **department.php** file (*you will create this in Step 2*).

2. Type the code below in your text editor and save as **department.php** in **C:\xampp\htdocs\sample** directory.

```
<?php
    include 'DBConnector.php';

    $sql = "SELECT * FROM department";
    $result = $conn -> query($sql);

    if($result -> num_rows >0){

        while($row = $result -> fetch_assoc()) {
            $mgrID = $row["MgrEmpID"];
            $sql_get_ManagerName = "SELECT EmpName FROM employee WHERE EmpID='$mgrID'";
            $mgrName = $conn->query($sql_get_ManagerName)->fetch_assoc();

            echo "<tr>".
                "<td align='center'>".$row["DeptID"]."</td>".
                "<td align='center'>".$row["DeptName"]."</td>".
                "<td align='center'>".$mgrName["EmpName"]."</td>".
                "<td align='center'>".$row["Budget"]."</td>".
                "<td align='center'>".$row["DeptCity"]."</td>".
                "</tr>";
        }

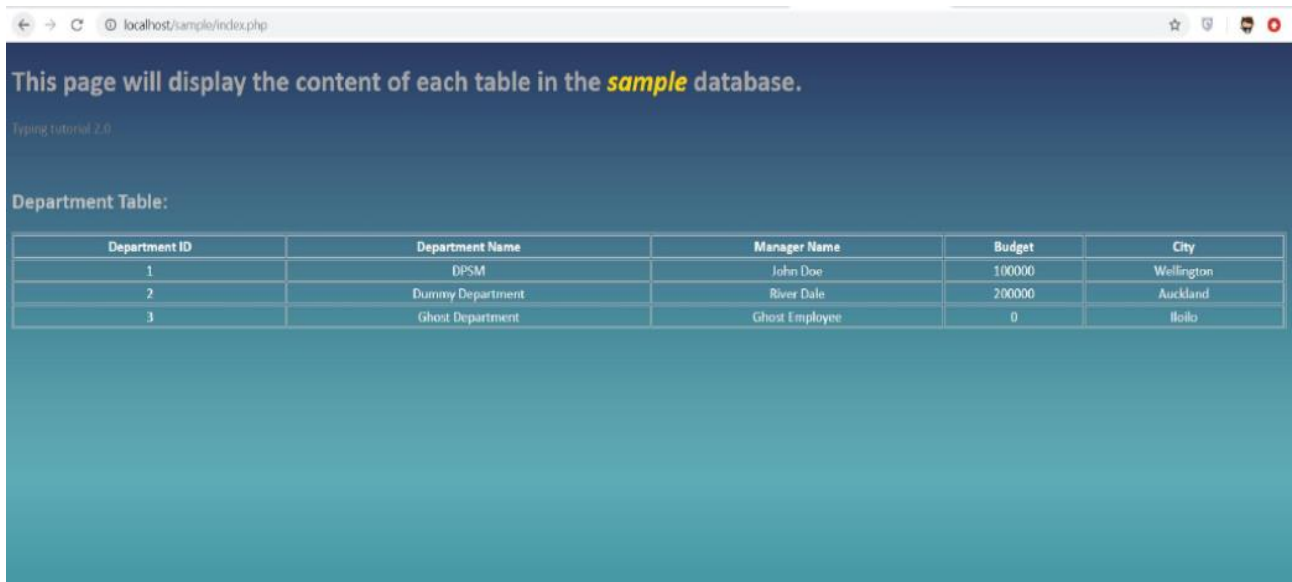
    }
    else{
        echo "0 results";
    }

    $conn->close();
?>
```

4. Access the **index.php** file in a browser using the url **localhost/sample/index.php**

Make sure that you **START** Apache and MySQL (in XAMPP) so that you can access the **index.php** in your browser.

Your output should be the same like the figure below (*note that the background image varies depending on the background image that you chose*):



## TASK:

Modify/add some code to the **index.php** file and create another separate php file (like the department.php) to retrieve the list of employees per department:

- List of Employees per department
- (id, employee name, age, salary, hire date)

The additional tables in your output should have the format:

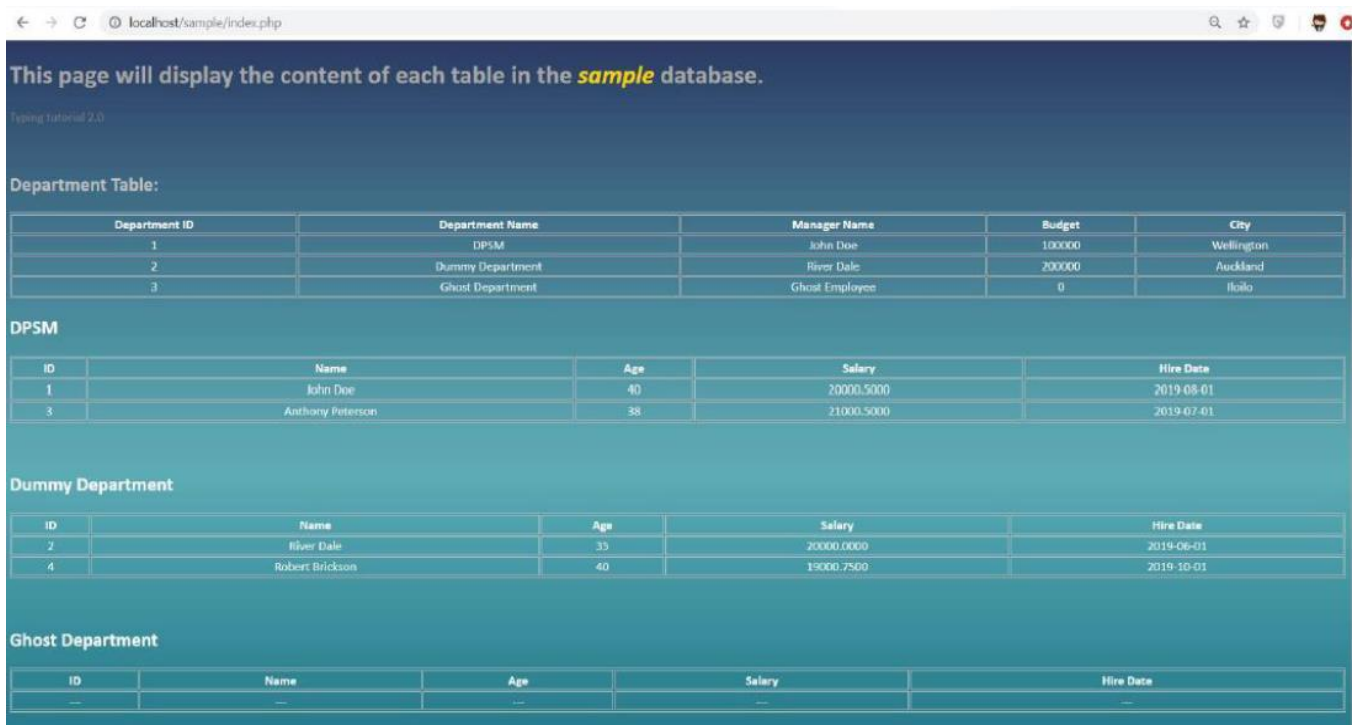
### DPSM

ID	Name	Age	Salary	Hire Date

### Dummy Department


### Ghost Department


The output in your browser should be:



This page will display the content of each table in the **sample** database.

Typing tutorial 2.0

Department Table:

Department ID	Department Name	Manager Name	Budget	City
1	DPSM	John Doe	100000	Wellington
2	Dummy Department	River Dale	200000	Auckland
3	Ghost Department	Ghost Employee	0	Iloilo

DPSM

ID	Name	Age	Salary	Hire Date
1	John Doe	40	20000.5000	2019-08-01
3	Anthony Peterson	38	21000.5000	2019-07-01

Dummy Department

ID	Name	Age	Salary	Hire Date
2	River Dale	35	20000.0000	2019-06-01
4	Robert Brickson	40	19000.7500	2019-10-01

Ghost Department

ID	Name	Age	Salary	Hire Date
—	—	—	—	—

Take a screenshot of the entire screen of your laptop/desktop (should include the Taskbar of your desktop – **do not crop your screenshot**) after displaying the output of the modified **index.php** in your browser.

Put this screenshot in a document file that you will submit as an output for this Laboratory exercise.

Also, apart from the output of **index.php**, include in your document file the process (with screenshots) of how you were able to get the output and explain the process.

### Submission Instructions:

Save your file as **LastnameFirstLetterOfFirstName\_Lab3.3.pdf**. Zip your pdf file together with all the **php** files for this laboratory exercise and submit.

Please take note of the use of **Camel Case** for your filename (also applies for zip file but NOT for php files). **Those who are not following instructions will have a 20% deduction on their Laboratory exercise.**

Upload your zipped file in the UPV LMS (on or before May 02, 2022 11:59 PM).