

Laboratory Activity 3.3

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 | 20000.7500 | 2019-10-01 |

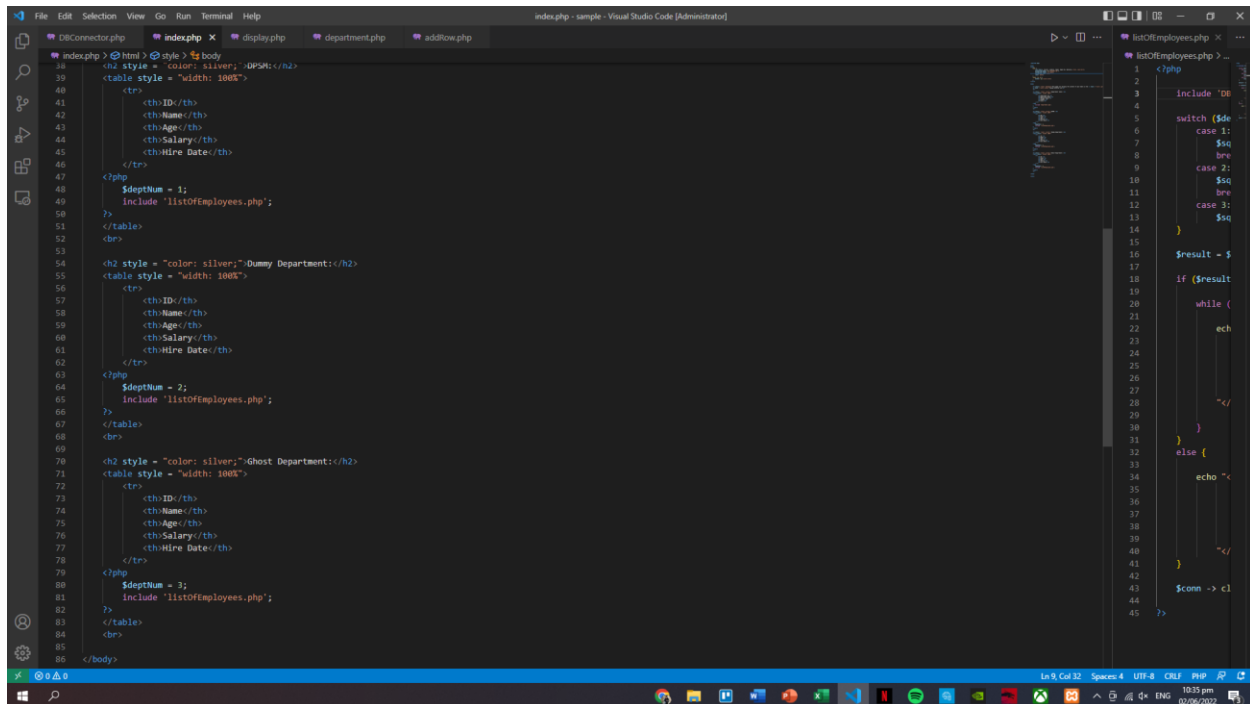
Ghost Department:

| ID | Name | Age | Salary | Hire Date |
|----|------|-----|--------|-----------|
| -- | -- | -- | -- | -- |

First off, I inserted the values of John Doe that's supposed to show in the DPSM Table. I incorporated it in the *department.php* file after doing the first part of this activity.

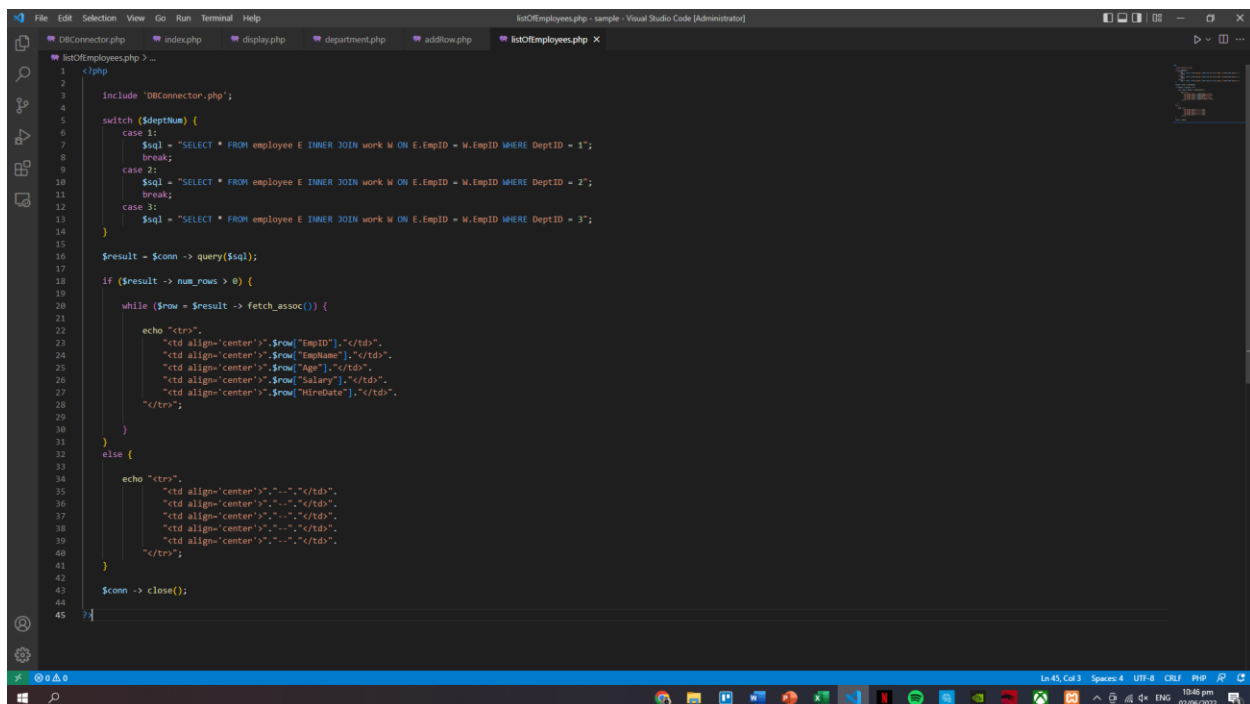
```
department.php: sample - Visual Studio Code (Administrator)
1  <?php
2
3  include 'DBConnector.php';
4
5  $sql = "INSERT INTO 'employee' ('EmpID', 'EmpName', 'Age', 'Salary', 'HireDate')
6  VALUES ('1', 'John Doe', '40', '20000.5000', '2019-08-01');";
7
8  $sql = "SELECT * FROM department";
9  $result = $conn->query($sql);
10
11 if ($result->num_rows > 0) {
12
13     while ($row = $result->fetch_assoc()) {
14         $mgrID = $row['MgrEmpID'];
15         $sql_get_ManagerName = "SELECT EmpName FROM employee WHERE EmpID = '$mgrID'";
16         $mgrName = $conn->query($sql_get_ManagerName)->fetch_assoc();
17
18         echo "<tr>";
19         "<td align='center'>";$row['DeptID'];</td>";
20         "<td align='center'>";$row['DeptName'];</td>";
21         "<td align='center'>";$mgrName['EmpName'];</td>";
22         "<td align='center'>";$row['Budget'];</td>";
23         "<td align='center'>";$row['EmpCity'];</td>";
24     "</tr>";
25 }
26
27 else {
28     echo "0 results";
29 }
30
31 $conn->close();
32
33 >>
```

Then, I modified the *index.php* file to add the 3 more tables in the HTML output.



```
1 <?php
2
3 include 'DBConnector.php';
4
5 switch ($deptNum) {
6     case 1:
7         $sql = "SELECT * FROM employee E INNER JOIN work W ON E.EmpID = W.EmpID WHERE DeptID = 1";
8         break;
9     case 2:
10        $sql = "SELECT * FROM employee E INNER JOIN work W ON E.EmpID = W.EmpID WHERE DeptID = 2";
11        break;
12     case 3:
13        $sql = "SELECT * FROM employee E INNER JOIN work W ON E.EmpID = W.EmpID WHERE DeptID = 3";
14    }
15
16    $result = $conn->query($sql);
17
18    if ($result->num_rows > 0) {
19        while ($row = $result->fetch_assoc()) {
20            echo "<tr>";
21            " <td align='center'>".$row["EmpID"]."</td>";
22            " <td align='center'>".$row["EmpName"]."</td>";
23            " <td align='center'>".$row["Age"]."</td>";
24            " <td align='center'>".$row["Salary"]."</td>";
25            " <td align='center'>".$row["HireDate"]."</td>";
26            "</tr>";
27        }
28    }
29    else {
30        echo "<tr>";
31        " <td align='center'>". "... ". "</td>";
32        " <td align='center'>". "... ". "</td>";
33        " <td align='center'>". "... ". "</td>";
34        " <td align='center'>". "... ". "</td>";
35        " <td align='center'>". "... ". "</td>";
36        "</tr>";
37    }
38
39    $conn->close();
40
41 }>
```

Then, I created another file, the *listOfEmployees.php*, which is just a modification of the *department.php* file.



```
1 <?php
2
3 include 'DBConnector.php';
4
5 switch ($deptNum) {
6     case 1:
7         $sql = "SELECT * FROM employee E INNER JOIN work W ON E.EmpID = W.EmpID WHERE DeptID = 1";
8         break;
9     case 2:
10        $sql = "SELECT * FROM employee E INNER JOIN work W ON E.EmpID = W.EmpID WHERE DeptID = 2";
11        break;
12     case 3:
13        $sql = "SELECT * FROM employee E INNER JOIN work W ON E.EmpID = W.EmpID WHERE DeptID = 3";
14    }
15
16    $result = $conn->query($sql);
17
18    if ($result->num_rows > 0) {
19        while ($row = $result->fetch_assoc()) {
20            echo "<tr>";
21            " <td align='center'>".$row["EmpID"]."</td>";
22            " <td align='center'>".$row["EmpName"]."</td>";
23            " <td align='center'>".$row["Age"]."</td>";
24            " <td align='center'>".$row["Salary"]."</td>";
25            " <td align='center'>".$row["HireDate"]."</td>";
26            "</tr>";
27        }
28    }
29    else {
30        echo "<tr>";
31        " <td align='center'>". "... ". "</td>";
32        " <td align='center'>". "... ". "</td>";
33        " <td align='center'>". "... ". "</td>";
34        " <td align='center'>". "... ". "</td>";
35        " <td align='center'>". "... ". "</td>";
36        "</tr>";
37    }
38
39    $conn->close();
40
41 }>
```

I removed some unnecessary lines of code from the *department.php* file for Lab 3.3's purpose, and added the switch statement in lines #5-14 which is a major part of the program.

```
5      switch ($deptNum) {
6          case 1:
7              $sql = "SELECT * FROM employee E INNER JOIN work W ON E.EmpID = W.EmpID WHERE DeptID = 1";
8              break;
9          case 2:
10             $sql = "SELECT * FROM employee E INNER JOIN work W ON E.EmpID = W.EmpID WHERE DeptID = 2";
11             break;
12          case 3:
13             $sql = "SELECT * FROM employee E INNER JOIN work W ON E.EmpID = W.EmpID WHERE DeptID = 3";
14      }
```

The SQL code selects specific values from every department (the list of employees), and the case statements are the specifiers on what department the program should get the list of employees.

The *\$deptNum* value can be seen in this modified *index.php* file:

```
38      <h2 style = "color: silver;">DPSM:</h2>
39      <table style = "width: 100%">
40          <tr>
41              <th>ID</th>
42              <th>Name</th>
43              <th>Age</th>
44              <th>Salary</th>
45              <th>Hire Date</th>
46          </tr>
47      <?php
48          $deptNum = 1;
49          include 'listOfEmployees.php';
50      ?>
51  </table>
52  <br>
```

```
54      <h2 style = "color: silver;">Dummy Department:</h2>
55      <table style = "width: 100%">
56          <tr>
57              <th>ID</th>
58              <th>Name</th>
59              <th>Age</th>
60              <th>Salary</th>
61              <th>Hire Date</th>
62          </tr>
63      <?php
64          $deptNum = 2;
65          include 'listOfEmployees.php';
66      ?>
67  </table>
68  <br>
```

```
70      <h2 style = "color: silver;">Ghost Department:</h2>
71      <table style = "width: 100%">
72          <tr>
73              <th>ID</th>
74              <th>Name</th>
75              <th>Age</th>
76              <th>Salary</th>
77              <th>Hire Date</th>
78          </tr>
79      <?php
80          $deptNum = 3;
81          include 'listOfEmployees.php';
82      ?>
83  </table>
84  <br>
```