7 – Refactoring Presidents: Mini-Lab 7

1. Download ***presidents.sql*** and ftp to your mysql account. Execute ***source presidents.sql*** to create and populate the *presidents* entity.

2. From the command line within the mysql editor, ***DESCRIBE presidents*** to view attributes

3. Download the two files ***choosePresidentDB_START_2018.php*** and ***listPresidentDB_START_2018.php*** and rename as ***choosePresidentDB_2018.php*** and ***listPresidentDB_2018.php***, respectively. Upload both files to your turing account within the public_html folder. For this assignment, you will also need to upload *included_funtions.php*, the *css folder*, and the *js folder* to the same location as the *choosePresidentDB_2018.php* and *listPresidentDB_2018.php* files. We will now pull data from the *presidents* entity in the database to use on our webpages.

choosePresidentDB_2018.php

1. Look for the comment CONNECT TO YOUR DATABASE at the beginning of the file. Uncomment the line below it, the require_once, and add the path to the file containing your username, password, database name, and database host: /home/***webid***/***DBname***.php (webid and DBname are unique to your account)

2. Look for the comment *Do this query first*. Notice the commented out $query. If you simply select number, there will be duplicates listed on the drop down menu. To prevent this, SELECT distinct …

```
<?php
        //Do this query first. But notice president #10
        //appears twice because John Tyler switched parties
        //$query = "SELECT number FROM presidents";

        $query = "SELECT distinct party FROM presidents";
        $result = $mysqli->query($query);
        if ($result && $result->num_rows >= 1) {
          while ($row = $result->fetch_assoc()) {
                echo "<option value = '".$row['party']."'>".$row['party']."</option>";
          }
        }
        else { echo "<h2>No query results</h2>";}
?>
<p /><hr>   <b>OR</b>     fill in zero or more values below<hr>
```

3. For the homework assignment, you will be adding code ABOVE the <input…. > tag.
4. The new_footer function is currently invoked *Default* as the name. Pass your name as a parameter: e.g., new_footer(“Mickey Mouse”);

listPresidentDB_2018.php

5. Look for the comment CONNECT TO YOUR DATABASE at the beginning of the file. Uncomment the line below it, the require_once, and add the path to the file containing your username, password, database name, and database host: /home/***webid***/***DBname***.php (webid and DBname are unique to your account)

6. Uncomment the block of code that connects to your database.

7. Note that the function, printPresident, prints out 1 row of the table that is returned from the query. We will be calling this from several places later in the code

8. Scroll down until you see the comment QUERY DATABASE & PROCESS RESULTS

    a. Because we were redirected to listPresidentDB_2018 via the form, we will first check if ID was passed using $_POST, determining if its value is set and not an empty string. If this is the case, grab the ID.
    b. Define the query to retrieve information where number = $ID (you write the code to define and execute the query).
    c. Similar to the take-home assignment, check if there is a result from the query. If result is found, then display the records in a table.

    Most of the code has been provided for you below. Part b., you will need to come up with on your own:

```
if(isset($_POST['ID']) && ($_POST['ID'] !== "")){
        //$ID = $_POST['ID'];
        $ID = $mysqli->real_escape_string(trim($_POST['ID']));

      // Define $query

     // query database and assign to $result
```

// Continues on next page

```
//  Process query using while loop
    if ($result && $result->num_rows > 0) {
        echo "<table border = '1'>";
        // Output header row – should be all on one line
        echo "<tr><th>Name</th><th>First Lady</th><th>State</th><th>Party</th><th>Term(s)</th>
                <th>Starting Year</th><th>Ending Year</th><th>Total Years</th></tr>";

        while($row = $result->fetch_assoc()) {
                printPresident($row);
        }
        echo "</table>";

        // Release results
        $result->close();
    }  else {
        echo "<h2>No results found</h2>";
    }
```

NOTE: The commented out $ID should be used instead if PDO is done for the query in lieu of mysqli. Also, for homework 4, you will expand the if statement using else if…

9. Uncomment the line that closes the database connection

10. The new_footer function is currently invoked using *Default* as the name. Pass your name as a parameter: e.g., new_footer(“Mickey Mouse”);