

Lab 5 – Read & Create: Take-Home

8 – Creating the “R” in CRUD

Creating and Populating your new table

- On Blackboard, download **people.sql**.
- Upload the file to your turing *home* account
- Within your mysql engine, **source people.sql**
- Verify the **people** table has been created and populated by typing the following within your mysql engine:
SELECT * FROM people;

Before implementing CRUD

- Within **public_html** page create a folder named **CRUD**
- Within this **CRUD** folder, upload the unzipped **css** and **js** folders as well as your **included_functions.php**
- Add the following function to **included_functions.php**

```
function db_connection() {
    // Complete require_once by replacing yourWebID with your own webid and DB.php with
    // your php file that contains the DBHOST, USERNAME, PASSWORD, and DBNAME
    require_once("/home/yourWebid/DB.php");

    // 1. Create a database connection
    // mysqli connect expects host, username, password, database name
    $mysqli = new mysqli(DBHOST, USERNAME, PASSWORD, DBNAME);

    // Test if connection successful
    if($mysqli->connect_errno) {
        die("Could not connect to server!<br />");
    }else {
        echo "Successful connection to ".DBNAME."<br />";
    }
    return $mysqli;
}
```

- Add a parameter to the **new_footer** function, **\$mysqli**: **function new_footer(\$name="Default", \$mysqli){**
 - At the end of the function add the line of code that will close your database:
\$mysqli -> close;

Download the following files from Blackboard, and upload to your CRUD folder on turing:

- **session.php** (session data that can be used while the browser is opened).
- **index_INITIAL.php** and rename to **index.php** (the primary file that is automatically rendered when this folder is selected to display – i.e., `http://turing.cs.olemiss.edu/~yourWebID/CRUD/` will automatically display `index.php`)
- **readPeople.php** – A file you will modify to accomplish the “**R**” in **CRUD**
- **addPeople.php** – A file you will modify to accomplish the “**C**” in **CRUD**

Now, modify **readPeople.php** such that it connects to your database

- Look for the comment and write the code to create and execute the query to your database to select PersonID, FirstName, and LastName.
- Look for the comment and write the code to display the resulting FirstName and LastName within the while-loop (PersonID is not displayed but will be used later in the query string of an URL).
 - Remove the block comment that begins and ends with **Uncomment Once Code Completed**
 - Recall that the tag to enter table data is `<td> {data here} </td>`
You will need to use these tags when outputting first and last names
- Verify **readPeople.php** displays as follows:

Here is Who's Who

Name
Kevin Bacon
James Bond
George W. Bush
Bo Derek
Michael Jackson
Michael Jordan
Lee Majors
George Orwell
Molly Ringwald
George Washington
Oprah Winfrey

[Add a person](#)

Modify *index.php*

- Open the ***index.php*** file and to the line that invokes the ***new_header*** function, add the link location of index (second parameter). That is, add ***CRUD/*** to the link location. Recall that the ***new_header*** function should already point to: `http://turing.cs.olemiss.edu/~yourWebID/` where `~yourWebID` is your actual webid

If done correctly, you should have a link to -> `http://turing.cs.olemiss.edu/~yourWebID/CRUD/`
Verify that you can open this webpage

- Go to ***http://turing.cs.olemiss.edu/~yourWebID/CRUD/*** (NOTE: your ***index.php*** is automatically displayed. This page is eventually going to become our login page, but not until we complete our CRUD).
 - Click on the URL in the page and verify that you correctly redirect to ***readPeople.php***
 - For now, the code for ***readPeople.php*** only displays those people found in the table. We want to add the ability to *create*, *update*, and *delete* to/from the people table.

Back in *readPeople.php*,

- Look for the comment and add the code to create 2 URLs (EDIT & DELETE) for each person
 - javascript is added to the delete tag to “confirm” delete should the user try to delete a person:

```
echo "<td>&nbsp;<a href='editPeople.php?id=".urlencode($row["PersonID"])."'>Edit</a>&nbsp;&nbsp;</td>";
```

```
echo "<td>&nbsp;<a href='deletePeople.php?id=".urlencode($row["PersonID"])."' ' onclick='return confirm('Are you sure?');'>Delete</a>&nbsp;&nbsp;</td>";
```

- Verify that both links display for each person in *readPeople.php*
 - You will not be able to test if these two links successfully redirect since you don't have either the *editPeople.php* file or the *deletePeople.php* file. You can only verify that they show.
 - Once the files are created, note that ***href*** “passes along” the ID number of the person we want to edit/delete in the query string.
 - In each corresponding file, *editPeople.php* or *deletePeople.php*, we will be able to use `$_GET["id"]` to retrieve the id of the person we want to edit/delete

9 – Creating the “C” in CRUD

NOTE: ***readPeople.php*** already includes the link to ***addPeople.php***

Step 1 – Writing the Form

- Open ***addPeople.php***. Notice in lines 30-40, various statements assign a *value* to the `$_SESSION` key called *message* (recall that associative arrays use key-value pairs).
 - Now, open ***session.php***
 - `session_start()` is a php function that initiates a session. The session is active as long as the browser window is open.
 - The function *message*, will display those messages set by the `$_SESSION` key, *message*. In ***addPeople.php***, this *key* is assigned an error message *value* if there is an issue when trying to insert into your database.
- Look for the STEP 1. comments and add code that will create a HTML form:
 - This form should post to itself, like oneForm.php. So, post to ***addPeople.php***
 - Create text boxes for the following (input type is text and name is whatever you want to name it. Remember you will need to reference this name when using POST):
 - First Name
 - Last Name
 - Birthdate
 - Birth City
 - Birth State
 - Region
 - Add a submit input tag
 - Name should be *submit*
 - Value should be something like *Add Person*
 - Use the class *button tiny round*
- Verify Step 1 runs without errors

Step 2 – Inserting into Your Database

- Look for the Step 2. comments and add code that will insert the \$_POST data into your database's people table.
INSERT INTO people (FirstName, LastName, Birthdate, BirthCity, BirthState, Region) VALUES (\$_POST["FirstName"], \$_POST["LastName"], ...);

NOTE: *Birthdate, BirthCity, BirthState, and Region would have similar \$_POSTs like FirstName & LastName*

- The PHP is a little tricky for this query. Again, only writing up to the \$_POST for last name, build your query as follows (DON'T FORGET the extra space at the end of each statement):

```
$query = "INSERT INTO people ";  
$query .= "(FirstName, LastName, Birthdate, BirthCity, BirthState, Region) ";  
$query .= "VALUES (";  
$query .= "'".$_POST["FirstName"]." ', ";  
$query .= "'".$_POST["LastName"]." ', ";
```

NOTE: *I have added spaces between the double-quotes (") and single-quotes (') to make it easier to read. Your actual code should not have spaces!*

- Execute the query. If all works correctly, you will have a result for the variable **\$result** and the **if(\$result)** statement will be true, displaying the message that your person was added to the database.
- Add your name to the database!!