**Part 1 - Create the database**

This step is only necessary if you didn’t complete lab 5, or if you deleted lab 5 for some reason. If you completed lab 5, simply select the **sitename** database in the GUI or type **use sitename;** as a query inside of SQL server command line.

1. Turn on XAMPP and MySQL Server
2. Download the Chapter\_05\_database.txt file in the zip archive that’s attached to Lab 9 page in Canvas (above), and cut and paste the contents into the SQL query box under the SQL tab in PHPMyAdmin GUI. (Feel free to use the command line or the MySQL workbench, if you wish.)
3. Confirm the existence of the tables, and the data in the tables.

**Part 2 - The Core Files (The Template)**

1. Download the the zip archive that’s attached to the Lab 9 page in Canvas (above) and extract the files. The files you need are in the folder, ch03 in the archive.
2. Create a folder called **Ch09** in the **htdocs** folder.
3. Create a folder called **includes** in the **Ch09** folder.
4. Create a folder called **css** in the **Ch09** folder.
5. Copy the files from the ch03 folder to the Ch09 folder using the same hierarchy, as we did in chapter 3. In that hierarchy the files **header.html** and **footer.html** are in the **includes** folder. The file, **sticky-footer-navbar.css**, is in the **css** folder. The file, **index.php**, is in the root folder.
6. Using a browser, browse to [http://localhost/Ch09/index.php (Links to an external site.)](http://localhost/Ch09/index.php) and verify that the website works the same way as it did in lab 3. The calculator link won’t work. It’s ok. we won’t be using that in this lab. That will be changed in Part 3.

**Part 3 - Modifying the Template Pg. 268**

1. Follow steps 1-5 on page 268 and 269. This will modify **header.html** from lab 3 to change the links for the purposes of this lab.

**Part 4 - Connecting to MySQL Pg. 270**

We will now connect the database to your PHP website. We do this by creating a brand-new file called **my\_sqli\_connect.php.**

1. Follow steps 1-5 on pages 270 - 272. I am modifying these steps slightly.
2. On step 2, instead of typing ‘username’ instead type ‘root’. Instead of ‘password’, use the empty string (‘’). Leave everything else the same.  If you are using a system at home, and you have changed the MySQL server in the XAMPP installation to a different password, then use the settings you changed it to. If you just installed it, and didn’t change the root user, then use my settings.
3. It is imperative that you name the file, just as it says in the book on step 5. If you don’t do that correctly, this won’t work for you.
4. Refer to picture B on Page 272.  On step 6, instead of placing the file outside of the **htdocs** folder, place it inside the **htdocs** folder next to **Ch09** folder. **Don’t put this file inside the Ch09 folder.**
5. Complete Steps 6 and 7 on pages 272 - 273.  (Open your browser and verify that the script works by going to [http://localhost/mysqli\_connect.php (Links to an external site.)](http://localhost/mysqli_connect.php). If you get a blank file, it works! If you get an error message then verify that you did parts 1 - 4 correctly.)

**\*\*\*NB: The encoding of the database must match the encoding of the mysqli\_set\_charset, in step 4 on page 272. If you don’t get the blank page, it could be your database. Verify both are using the same encoding, utf8.\*\*\***

**Part 5 - Executing Simple Queries Pg. 275**

1. Follow steps 1-15 on pages 275 - 283 to create **register.php** (script 9.3).  **Save this in the Ch09 folder.**

**Part 6 - Retrieving Query Results Pg. 284**

1. Follow steps 1-8 on pages 284 - 287 to create **view\_users.php** (script 9.4).  **Save this in the Ch09 folder.**
2. Test the website and ensure that it works and the database can be viewed under the view tab. **Screenshot the view users tab.**

Table

Description automatically generatedTable

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**Table

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**Part 7 - Ensuring Secure SQL Pg. 288**

This creates a secure SQL connection to the database.

1. Follow steps 1-5 on pages 288 - 292 to modify **register.php** (script 9.3)
2. Test the form. Try to add a few users with this form. Also add my name (Ian Lasky), email ([ian.lasky@rcc.edu](mailto:ian.lasky@rcc.edu)), and password (12345) to the database using this form.
3. Table

   Description automatically generated**Screenshot the view users tab to show that you added the users**

**Part 8 - Counting Returned  Records Pg. 293**

Now we are going to modify the **view\_users.php** file to count the total number of users.

1. Follow steps 1-6 on Pg. 293 - 295 to modify **view\_users.php** (script 9.4).
2. Table

   Description automatically generatedTest the website and ensure that it works and the database can be viewed under the view tab. **Screenshot the view users tab.**

**Part 9 - Updating Records with PHP Pg. 296**

Now we are going to create a new file called **password.php** to update records through a php script.

1. Follow steps 1-15 on Pg. 296 - 302 to create **password.php** (script 9.7).
2. Graphical user interface, text, application, email

   Description automatically generatedThe page will not update a password if it doesn’t match the email address and password to what’s stored in the database. Try to cause an error by deliberately entering a current password for user [ian.lasky@rcc.edu](mailto:ian.lasky@rcc.edu) that’s not the password in the database. **Screenshot the results.**
3. Graphical user interface, text, application

   Description automatically generatedTest the page updates records. Change the password for user [ian.lasky@rcc.edu](mailto:ian.lasky@rcc.edu) to 67890. **Screenshot the results.**