

PHP/PostgreSQL Lab

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The purpose of this lab is to let you get some hands-on experience connecting to PostgreSQL databases through PHP.

1. In `~kelliher/pub/cs318` on phoenix you'll find three files: `login.html`, `authenticate.php`, and `query.php`. Copy them to your `public_html` directory and verify that you can access the registration database via the files you just copied.
2. Modify the files so that you can access any database on the system. You'll need to do the following:
 - (a) Note that the files, as is, use two levels of authentication. For this extension, the second level is unnecessary. Eliminate it.
 - (b) You'll need to add a field to the login form so the user can specify which database to which to connect. You'll need to make use of this information in the `pg_connect()` call and store it as an additional session variable.
 - (c) Fix-up anything else necessary to generalize these files.
3. As is, `authenticate.php` will fail if called directly. This makes sense if the session variables haven't been created yet, but it will still fail even if the session variables have been created. Fix this anomalous behavior.
4. Instead of returning a table, INSERT, DELETE, and UPDATE return the number of tuples affected. Modify `query.php` to reflect this. Refer to the descriptions of `striistr` and `pg_cmdtuples` in the online PHP documentation.