Objective: This lecture-cum-lab explains PHP web applications that connect to MySQL DBMS. The goal is for you to learn this material by going over the slides and the related html/php files. I recommend that you try the labs first before reading the slides. This lab will not be graded.

MySQL on basalt:

1. Similar to lab1:

   To access MySQL database from web applications, log into your basalt account. The name of the database is your username. You can delete and create tables in this database, but you do not have permission to delete the database itself.

2. Start the MySQL command-line application with the following command:

   mysql -u *username* -p *databasename*

   where *username* = *databasename*. You will then be prompted for your password.

3. Ensure that you are properly connected to the MySQL service by displaying all databases:
   SHOW DATABASES;

Set-up for PHP lab:

1. Log into basalt.

   If your home directory does not have permission 711,

   chmod 711 .

   mkdir public_html

   chmod 711 public_html

   Your home directory and every directory along the path to the directory containing your html files must have permission 711.

   cd public_html

   Set permission of file index.html:

   chmod 644 index.html

2. PHP Part1

   (a) Make a directory named **php1** under your public_html directory.

      chmod 711 php1

   (b) Copy files *form_example.html, simple_page_withCSS.html, simple.php* into subdirectory php1:
      First download the files from MyCourses to your agate account.
      From agate, type:

sftp *username*@basalt.cs.unh.edu

After entering password, type

cd public_html

cd php1

put form_example.html

put simple_page_withCSS.html

put simple.php

Exit sftp by typing control-D.

(Note: use *get* to move files from basalt to agate.)

(c) On basalt:

Set permissions of all files in php1 directory:

chmod 644 *

(d) In your browser, checkout

username.basalt.cs.unh.edu/php1/form_example.html

username.basalt.cs.unh.edu/php1/form_page_withCSS.html

Please **DO NOT** cut and paste the above lines into your browser. This lab document is written using latex and you will get an error message "URL not found".

3. PHP Part2

(a) On basalt: make a directory named **php2** under your public_html directory. Set directory permission as specified above for php1.

Download files *database.php, processform.php, simple.php* into subdirectory php2. (Use sftp and *put* commands as specified for php1.) Set file permissions.

(b) Open database.php and replace DATABASENAME with your username and PASSWORD with your MYSQL password.

(c) In your browser, checkout

username.basalt.cs.unh.edu/php2/processform.php

username.basalt.cs.unh.edu/php2/database.php

username.basalt.cs.unh.edu/php2/simple.php

4. Read Class11-PHP.pdf on MyCourses.

These lecture notes walk you through PHP Part1 and Part2 labs. **The slides on "Using PHP and MySQL" refer to an older version; read code in database.php for new version.**