

## CSIS 311: MODULE 4 ASSIGNMENT 4A

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### MODULE

Module 4: PHP and MySQL

### DESCRIPTION

You will work through MySQL tutorials and learn about the use of MySQL as a result.

### OBJECTIVES

- Understand the basics of using MySQL
- Use MySQL for simple tasks
- Use an example of how PHP works with MySQL

### DIRECTIONS

- (1) Work through the SQL tutorial on <https://www.w3schools.com/sql/default.asp> . Look at the topics on the left side of the webpage.
- (2) Under SQL Tutorial ( <https://www.w3schools.com/sql/default.asp> ), go through SQL Home through SQL Between.
- (3) Under SQL Database, go through SQL Create DB ( [https://www.w3schools.com/sql/sql\\_create\\_db.asp](https://www.w3schools.com/sql/sql_create_db.asp) ) through SQL Drop Table
- (4) Under SQL References, go through all sections (focus on MySQL Data Types in the SQL DB Data Types section ( [https://www.w3schools.com/sql/sql\\_datatypes.asp](https://www.w3schools.com/sql/sql_datatypes.asp) ) )

- (5) The SQL Quick Ref is especially beneficial so be aware of its existence when you need to quickly look up how to do something. Be sure to experiment with the Try it yourself examples scattered throughout as this will give you practice and help you remember. Feel free to browse through the remainder of the sections.

- (6) Take the SQL Quiz at the bottom. Expect similar question to these on the final test.

- (7) Work through the Chapter 3 tutorial from the MySQL reference manual at <http://dev.mysql.com/doc/refman/5.5/en/tutorial.html> .

You are welcome to read chapters 1 and 2 at this site as an introduction if you want (click the links on the right of the webpage) and the remaining chapters also if it interests you, but this isn't required. Enter the commands as requested by the tutorial in MySQL on your puff account and try experimenting on your own. Experimenting is the BEST way to learn, so please do so.

You can stop the tutorial after section 3.5 (you don't need to proceed into section 3.6 as this starts a new example).

Here are some notes to assist you during this tutorial. **READ THEM CAREFULLY** before you start the tutorial so

you are aware of them when you get to them.

- There are 4 files in `https://github.com/andrew-chen/csis311/tree/master/examples/assign12` that will assist you with this assignment. Three are used in the tutorial (and referred to below) and one is a php program to display your database in a web browser. Put these files in the directory where you are going to do your work for this assignment.
- The `host` in the commands is `localhost`. As an alternative (since `localhost` is the default), you can omit the `-h` option when entering certain commands that include it.
- Login to MySQL on puff with the command:

```
mysql -u yourusername -p
```

You should do this from the directory where the 3 files copied from above are stored. Note, when prompted for the password, it is not your puff server password, it is a separate password for MySQL that you have been using for authentication when viewing your web pages on puff.

- All databases you create must begin with `yourusername_` (there is an underscore following your username). So when it asks you to create the database menagerie, you must precede it with your username followed by the underscore. For example, mine is `chenan_menagerie`
- Looking at the comments at the bottom of the page can be useful.

- When you come to section 3.3.3 Loading Data into a Table, you can use `pet.txt` that you copied from my directory. If you started mysql from the directory where the files are located, you do not need to specify the path but instead just enter `'pet.txt'` Note that by default, `LOAD LOCAL...` is disabled. To use it you need to log into MySQL with the command

```
mysql --local-infile=1 -u yourusername
```

This is meant to be informational when you run into this issue.

- In section 3.3.4.1, use the `UPDATE` option, not reloading the file.
- When you come to section 3.3.4.9. Using More Than one Table, you can use `event.txt` that you copied from my directory.
- In section 3.5. Using mysql in Batch Mode, you can use `batch.txt` that you copied from my directory. **You will have to change the username in the file.**
- After you've finished the tutorial, it would be wise to try a few of the commands again as a review. Refer to the SQL Quick Ref in w3schools for assistance
- Assignment 12 on your webpage should contain a link that displays your database that you created during the tutorial. This is the `dumpDatabase.php` program that I provided for you. To see my example run, click <http://puff.mnstate.edu/~km2485cp/examples/assign12/dumpDatabase.php>. All you need to do is make a few changes as

outlined in the comments. These Submit your assignment before the due date.  
include:

- change \$dbname
  - change \$username
  - change \$password (by the way, nobody will be able to see your password)
  - change the action for the "return to assignment index" button
- you want to play around with a graphical interface to MySQL (phpMyAdmin), you can do so by running firefox from puff (type firefox at the puff command prompt after logging into puff through X2GO) then enter the URL `http://localhost/db_admin` ; this may work for other browsers on the local network by typing in `http://puff.mnstate.edu/db_admin` but it is not guaranteed.

#### SUBMISSION INSTRUCTIONS

Be sure that your assignment is put in its own subdirectory of *public.html/private* on your account on *puff.mnstate.edu*

Be sure that within *public.html/private* your *index.html* file has a link to the assignment subdirectory that is named accordingly, and is part of a table that also indicates how complete that assignment is (for example, "in progress" or "complete") as well as roughly how much time you spent working on the assignment (for example, "1 hour" or "10 hours").

Look for the appropriate Assignment Folder on D2L Brightspace and upload to there a file that says the following:

- how long you took to complete the assignment
- a summary of what you learned

## DUE DATE

You should look on the syllabus for when this assignment is set as due. This assignment should be submitted before then.

## RESOURCES

The tutorials and example code found elsewhere in this document.