

Working With Databases: SQL Homework

Step 1: Logging in

1. Login to phpMyAdmin by going to <http://cs.neiu.edu/phpmyadmin> and entering your username and password:
 - a. Username:
FL21CS412CX1_**neiuusername** Replace neiuusername with your neiu username.
 - b. Password: I will tell it to you in class and it will be in the recording and on D2L.
2. In PhpMyAdmin, click on your database name you will work in:
FL21CS412CX1_**neiuusername**
3. Click on the SQL tab to type SQL.
4. Open up a Microsoft Word document - save it with an appropriate filename on your computer. When your assignment is complete, submit this file to the folder titled SQL in the assignments tab on D2L.

Step 2: Create/Insert/Select

Write each SQL statement in phpMyAdmin first. Before hitting Go, copy and paste it into the Word document, since you will need to submit each statement. After hitting 'Go', if there are errors, remember to paste the corrected version back into your Word document. *Note: Copying quotes from sql statements typed in Microsoft Word to the SQL editor will cause errors as Quotes (' ') from Word are not the same symbols as quotes in text files (', ").*

Reminder: You will need to be in the SQL tab to type SQL code.

1. Create a table called Student which will contain:
 - a. *id* (it will be an integer so you can use INT)
 - b. *lastname* (use varchar for a string with the length you think you will need in () like varchar(15))
 - c. *firstname* (use varchar for a string with the length you think you will need in () like varchar(15))
 - d. *grade1* (you can use INT)
 - e. *grade2* (you can use INT)

2. Write the code to INSERT a row into the table. You can do either one of the below:

```
INSERT into Student (id, firstname, lastname, grade1, grade2) VALUES (1, 'Simpson', 'Bart', 100, 75);
```

OR

```
INSERT into Student VALUES (1, 'Simpson', 'Bart', 100, 75);
```

3. Write the code to INSERT 3 additional students into the table. You can decide their names and grades and id.
4. Write the code to SELECT all columns from the Student table using either of the below formats:

```
SELECT id, firstname, lastname, grade1, grade2 FROM Student
```

OR

```
SELECT * FROM Student
```
5. Paste a screenshot of the results (you should see all 4 added students).
6. Write the code to SELECT **only** the first name and last name of all students in your Student Table (not the id or grades).
7. Paste a screenshot of the results.

Step 3: Submission:

Submit a Word document which will contain all the following in the D2L assignment folder titled SQL:

1. SQL code for the CREATE
2. SQL code for all 4 INSERT statements
3. SQL code for the 2 SELECT statements
4. 2 screenshots with your results when asked.

Step 4: Additional Challenges (Optional):

1. Create another SELECT (showing all rows and columns) but this time order the students by last name. Paste a screenshot of the results
2. Create another SELECT statement using a WHERE condition. Paste the results.
3. DELETE only student 1, Bart Simpson who unfortunately dropped the class :(Paste the results of a SELECT * FROM STUDENTS so I can see it worked
4. UPDATE one grade for any one student (and paste the results of an appropriate SELECT so I can see it worked)