

CSCI 2020 Database Fundamentals

HW4

Submit as a text document called *LastnameFirstnameHW4.sql* to the drop box.
Print a hard copy and submit to your instructor on the due date.

Notes:

- **Be sure all style guidelines are complied with.** (SQL style guidelines are available in the Additional Material section of Content in D2L).
- Your file should include a **header block of comments** as shown in the SQL Style Guidelines.
- **Be sure to add a comment above the solution to each task.** The comment should include the task number and the task itself.
Ex. 1) List all contents of the Instructor table.

The code should look like:

```
/* 1 – list all contents of the Instructor table */  
select * from INSTRUCTOR;
```
- To make your code more readable, I would prefer that you **format your select statements as follows:** (note the from, where and order by are all on separate lines indented under the select)

```
select COLUMNS_HERE  
  from TABLE_HERE  
 where CONDITION1_HERE  
        or CONDITION2_HERE  
 order by COLUMN_HERE;
```
- **You are submitting a file that has the sql code in it, not the results.** I must be able to run your .sql file in its entirety. Make sure that comments are added properly.

TASKS

- 1) Print the name of the Professor with the highest salary among Professors who teach in Nicks.
- 2) Print the names of the people who work in the department that was founded the earliest.
- 3) Print the names of all students who took classes during a term with the lowest credit hour fees.
- 4) List the id and major of students who are in a major that has at least 10 students.
- 5) List the department name and date founded for all departments founded in the 1950's.

The format should be...

The PHYS department was founded on SEPTEMBER 04, 1950

- 6) Print an expiration date of 3 months from today. Labeled and formatted as shown below.

Expiration

2009-09-26

- 7) For each term with a start date in August that has at least 23 sections scheduled, print the term code, and the number of sections in that term. Hint: you can pull just the month from a date and use that in your query if you need to. Look back at your date functions to see what would be appropriate to use here.
- 8) Print the highest, lowest, and average ACT score of the students. Round the average to 0 decimal places. Label the output columns HIGHEST, LOWEST, AVERAGE.
- 9) Print the first initial and last name of students who graduated from an Academy and have a higher than average high school gpa among all of the students listed.