

CSCI 2020 Database Fundamentals

HW2

Submit as a text document called *LastnameFirstnameHW2.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) List the names of all majors offered by the CSCI department. Label the column CSCI_MAJORS instead of the original column name.
- 2) List the First and Last names of all instructors who are PhD's in either the MATH or CSCI departments. They should be ordered alphabetically by department.
- 3) List all of the information for courses that are less than 3 credit hours. Order them alphabetically by department and then by id.
- 4) What are the courses that CSCI1260 is a prerequisite for? Label the output COURSES_REQUIRING_CSCI1260.
- 5) List the ids of students who made a 3.0 or higher when retaking a class. Do not list any duplicate ids.
- 6) List the student ids of students who have made an F (grade of 0) in CSCI1100. Do not include duplicates.
- 7) List the name, department and salary of all Temporary Lecturers at the University. They should be ordered by Hire Date, most recent first.
- 8) List the family name (labeled CHAIR) and department of all department chairs. Order the output by salary from lowest to highest.
- 9) List the course id, code (labeled SECTION), and days taught for all sections of courses taught on either T, R, or both during the Fall 2008 semester (the semester code would be 083). Order the output by course id and then course code.
- 10) How many credit hours is the File Processing Course?