

# CSCI 2020 Database Fundamentals

## HW6

Submit as an sql file called  
***LastnameFirstnameHW6.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

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1. Build queries to return the following information
  - a. The number of TABLES (do not include tables or views or anything else) you have created
  - b. The number of TABLES (do not include tables or views or anything else) that you have access to. Note DO NOT attempt to list all the names unless you want to wait a LONG time for the query to complete
2. The user DB1STUDENT has given you access to a table, build queries that will return
  - a. The name of that table.
  - b. The rights you have on the table
3. Giving away privileges
  - a. Give the user DB1STUDENT the ability to update rows in your INSTRUCTOR table, and to give this privilege to others.
  - b. Give the user DB1STUDENT the ability to perform queries on the INSTRUCTOR table.

4. Build a query that will
  - a. List all system level privileges (I only want to see the privilege name) that have been granted to you.
  - b. List all system level privileges (I only want to see the privilege name) that you have the ability to grant to any other users

**Add a Comment Block to the end of your file that contain your answers to these questions**

5. The user ZEFRAM can successfully execute the following delete:  

```
delete from TERRAK.NØR where TERRAK.NØR.ID in
select EMPAK.LØG.ID from EMPAK.LØG where EMPAK.LØG.PAGE < 7;
```

List all system and object level privileges she must posses to do this.
6. A grant to PUBLIC is different in two ways from a grant to a list of users. Explain what the differences are.