

CSCI 2020 Database Fundamentals

Lab1

Submit as a text document called *LastnameFirstnameLab1.sql* to the drop box.
Print a hard copy and submit to your instructor before leaving the lab.

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. Label the column MAJORS instead of the original column name.

MAJORS
BS Computer Science
BS Information Technology
BS Information Systems
Jedi

- 2) List the names of all departments that are located in Nicks Hall.

NAME
CSCI
NURS

- 3) List the names of the buildings in which the campus departments are located. Order them alphabetically. Do not list any duplicates.

BUILDING
Ball
Brooks
Brown
Burleson
Gilbreath
Mathes
Nicks
Warf-Pickel

- 4) List the Id, Name and Credit Hours for all 1 or 2 credit hour courses. Order them by the number of credit hours.

ID	NAME	CREDIT_HOURS
MSCI1217	Physical Fitness (Basic)	1
CSCI1105	Computer Applications in Music	1
MUSC1801	Applied Piano Level I	2
MUSC2901	Applied Piano Level II	2
MSCI2110	Innovative Team Leadership	2

- 5) List the high schools that have graduates enrolled. Sort the list alphabetically. Do not list any duplicate names.

HIGH_SCHOOL
Bouldina High
Cochrane High
Fransican High
Kilgorian Prepratory
Ogg Lyceum
Oglethor Lyceum
Pittarese Prepratory
Sanderso Academy
Starfleet High
Vulcan Science Academy

- 6) List the family name of all department chairs. Label the column DEPARTMENT_CHAIRS instead of the original column name.

DEPARTMENT_CHAIRS
Yoda
Windu
Chewbacca

- 7) List the family name and role of all CSCI faculty ordered by hire date.

<i>FAMILY_NAME</i>	<i>ROLE</i>
Yoda	Chair
Palpatine	Faculty
Dooku	Faculty
Kenobi	Faculty
Binks	Faculty
Solo	Faculty

- 8) List the family name of the chair of the CSCI department. Label the column CSCI_CHAIR instead of the original column name.

<i>CSCI_CHAIR</i>
Yoda

- 9) List the given name, family name, high school gpa and act score for students who graduated with a gpa of 3.5 or higher and an act score of 30 or higher. Order the results by family name and then given name.

<i>GIVEN_NAME</i>	<i>FAMILY_NAME</i>	<i>HS_GPA</i>	<i>ACT_SCORE</i>
James	Kirk	4.0000	36
Leonard	McCoy	4.0000	32
Katherine	Pulaski	3.6500	34
Janice	Rand	3.5400	30
Hikaru	Sulu	3.9900	30
B'Elanna	Torres	4.0000	32

- 10) List the id, name and credit hours for all 3 or 4 credit hour courses offered by the CSCI department. Order the output by the id.

<i>ID</i>	<i>NAME</i>	<i>CREDIT_HOURS</i>
CSCI1100	Using Information Technology	3
CSCI1250	Intro Computer Science I	4
CSCI1260	Intro Computer Science II	4
CSCI1710	WWW - Design and Creation	3
CSCI2150	Computer Organization	4
CSCI2160	Assembly Language	4
CSCI2210	Data Structures	4
CSCI2230	File Processing	4
CSCI2910	Client / Server Side Prog	4
CSCI3250	Software Engineering I	3
CSCI3350	Software Engineering II	3
CSCI3400	Networking Fundamentals	3
CSCI4127	DB Management Systems I	3
CSCI4217	Ethical Issues in Computing	3
CSCI4227	Advanced Database	3
CSCI4957	Topics - Droid Programming	3