

CSCI 2020 Database Fundamentals

Lab2

Submit as a text document called *LastnameFirstnameLab2.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 student id's of all students who do not have a major. The output column should be labeled UNDECLARED_MAJORS.

UNDECLARED_MAJORS
13181795
11279384

- 2) List the given and family names of any student who earned an A [4.0] in any course in the 083 term. Do not list the same student more than once.

GIVEN_NAME	FAMILY_NAME
Wesley	Crusher
Pavel	Chekov
Nyota	Uhura
	Spock
Benjamin	Sisko
Jean-Luc	Picard
Julian	Bashir
James	Kirk
Kathryn	Janeway
	Tuvok

3) List the ids of all courses required in the CSIT major that student 12151048 has not yet taken.

<i>COURSE</i>
CSCI1100
CSCI1710
CSCI2150
CSCI3250
CSCI3350
CSCI3400
CSCI4127
CSCI4217
CSCI4227
ENGL1010
ENGL1020
MATH1530
MATH1910
MATH1920

4) List the id's of courses that have not been taken by any students yet.

<i>ID</i>
ARTA4901
CSCI1105
CSCI2230
ENGL4910
MATH2010
MSCI2110
PHYS4900

5) For each student list their given name, family name, and the name (not just the 4 letter title) of their major.

<i>GIVEN_NAME</i>	<i>FAMILY_NAME</i>	<i>NAME</i>
	Spock	BS Computer Science
	Tuvok	BS Computer Science
	Chakotay	BS Computer Science
Jadzia	Dax	BS Computer Science
Benjamin	Sisko	BS Computer Science
<i>...etc. There should be a total of 27 rows returned</i>		

- 6) List the names (given and family), courseid, section and term of all students who have taken a course taught by the instructor Leia Skywalker in one of the 2008 terms. Eliminate duplicates.

<i>GIVEN_NAME</i>	<i>FAMILY_NAME</i>	<i>COURSE</i>	<i>SECTION</i>	<i>TERM</i>
Pavel	Chekov	MUSC1030	001	081
Julian	Bashir	MUSC1030	001	081
Pavel	Chekov	MUSC1801	001	081
Hikaru	Sulu	MUSC1030	001	083
Hikaru	Sulu	MUSC1801	001	083

- 7) List the course id (CSCI2020 as an example) of all sections taught by any instructor with the family name Skywalker.

<i>COURSE</i>
CSCI1250
MATH1910
MUSC1030
CSCI4957
MATH4257
MUSC1801
CSCI2160

- 8) List all of the required course id's (CSCI2020 as an example) that are common to both the CSCS and CSIT majors.

<i>COURSE</i>
CSCI1100
CSCI2150
CSCI3250
CSCI3350
CSCI3400
CSCI4127
ENGL1010
ENGL1020
MATH1530
MATH1910
MATH1920

- 9) List the names of all departments that have no instructors assigned to them.

<i>NAME</i>
EDUC
NURS