DASC 5333 Database Systems for Data Science CSCI 4333 Design of Database Systems Fall 2023 Homework #2 Simple SQL

Install the database toyu in your MySQL by <u>executing the sql</u> <u>file</u>: createtoyu.sql.txt (saving as createtoyu.sql) in MySQL console. You may use the command:

```
mysql> source C:\...youpathhere...\Createtoyu.sql
```

Provide the MySQL commands for the following queries. Make sure that your queries produce the exact output as shown (row order can be different).

[1] Show the stuId, name, major, and minor of all students who are majoring in neither CSCI nor CINF.

+-		-+-		+-		+-		+
	stuId		name		major		minor	I
+-		-+-		+-		+-		+
	100003		Catherine Lim		ITEC		CINF	Ī
	100004		Larry Johnson		ITEC		NULL	l
	100008		Bill Ching		ARTS		NULL	l
	100009		Linda King		ARTS		CSCI	l
+-		-+-		+-		+-		+

⁴ rows in set

[2] List the names of all departments together with their faculty members' names and ranks of the School 'Science and Engineering' in the following format. You should not use 'CSE' in your query.

faculty	+ rank	department
Paul Smith Mary Tran David Love Sharon Mannes Daniel Kim Andrew Byre Deborah Gump Benjamin Yu	Professor Associate Professor NULL Assistant Professor Professor Associate Professor Professor Lecturer	Computer Science Computer Science Computer Science Computer Information Systems

⁸ rows in set

[3] List the names of students, and their grades of all enrolled 'ENGL', 'CSCI' and 'ITEC' classes, together with the students' grades, semesters and years of the classes, and the course names in the following manner. Note that the result is shown in the ascending order of the student names and then course names.

	L			+				_
stuId	student	rubric		'	semester	year		
100007	'	ENGL	1410	English I	Fall	2019	F	l
100008	Bill Ching	ENGL	1410	English I	Fall	2019	C-	
100002	David Hawk	CSCI	3333	Data Structures	Fall	2019	B-	
100002	David Hawk	CSCI	5333	DBMS	Fall	2019	B+	
100006	Lillian Johnson	ITEC	3335	Database Development	Fall	2019	A	
100005	Linda Johnson	ITEC	3335	Database Development	Fall	2019	A-	

100005 Linda Johnson	ITEC	3312	Introduction to Scripting Fall	2019 B+
100001 Mary Hawk	CSCI	3333	Data Structures Fall	2019 NULL
100001 Mary Hawk	CSCI	4333	Design of Database Systems Fall	2019 A-
100000 Tony Hawk	CSCI	3333	Data Structures Fall	2019 A
100000 Tony Hawk	CSCI	5333	DBMS Fall	2019 B+
100000 Tony Hawk	CSCI	4333	Design of Database Systems Fall	2019 A
100000 Tony Hawk	CSCI	4333	Design of Database Systems Spring	2020 D
+	+	-+	-++	-+
13 rows in set				

[4] List the ids, names, major names and faculty advisor name of every student in the following manner.

		+	+
stuId	student	major	advisor
100000 100001 100002 100003 100004 100005 100006 100007 100008 100009 100111	Tony Hawk Mary Hawk David Hawk Catherine Lim Larry Johnson Linda Johnson Lillian Johnson Ben Zico Bill Ching Linda King Cathy Johanson	Computer Science Computer Science Computer Science Information Technology Information Technology Computer Information Systems Computer Information Systems NULL Arts Arts NULL	Paul Smith Paul Smith Mary Tran NULL Deborah Gump Daniel Kim Andrew Byre NULL NULL Art Allister Art Allister

¹¹ rows in set

[5] List the ids, names and major names of all students with a declared major but no declared minor in the following manner.

stuId	student	major	+ +
		Information Technology Arts	T +

² rows in set

The solution should be put in an executable .sql file. Name the file: CSCI4333_S<<Section Number>>_H2_<<Your name>>_<<Your Student ID>>.<extension>>. Replace 'CSCI4333' by 'DASC533' if needed. For example: DASC_S1_H2_Smith_Mary.sql.txt. Submit your homework through Blackboard. Add the extension .txt if needed for submission.