

CSCI 4333
Design of Database Systems
Summer 2020
Homework #2

Simple SQL

Install the database toyu in your MySQL by [executing the sql file: createtoyu.sql.txt](#) (remove .txt after saving) in MySQL console. You may use the command:

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

Provide the MySQL commands for the following queries.

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

```
+-----+-----+-----+-----+
| stuId | name           | major | minor |
+-----+-----+-----+-----+
| 100003 | Catherine Lim  | ITEC  | CINF  |
| 100005 | Linda Johnson  | CINF  | ENGL  |
| 100006 | Lillian Johnson | CINF  | ITEC  |
| 100008 | Bill Ching     | ARTS  | ENGL  |
+-----+-----+-----+-----+
4 rows in set (0.001 sec)
```

[2] List the names of all departments together with their faculty members' names and ranks for the school 'Business' and 'Science and Engineering'. You should not use 'BUS' or 'SCE' in your query.

```
+-----+-----+-----+
| department          | faculty          | rank          |
+-----+-----+-----+
| Accounting           | Jorginlo Neymar | Assistant Professor |
| Computer Information Systems | Daniel Kim       | Professor        |
| Computer Information Systems | Andrew Byre      | Associate Professor |
| Computer Science     | Paul Smith       | Professor        |
| Computer Science     | Mary Tran        | Associate Professor |
| Computer Science     | David Love       | NULL            |
| Computer Science     | Sharon Mannes    | Assistant Professor |
| Information Technology | Deborah Gump     | Professor        |
| Information Technology | Benjamin Yu      | Lecturer        |
+-----+-----+-----+
9 rows in set (0.001 sec)
```

[3] List the names of students, and their grades of all enrolled 'ENGL' and 'CSCI' 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 orders of the student names and then course names.

stuId	student	rubric	number	title	semester	year	grade
100007	Ben Zico	ENGL	1410	English I	Fall	2019	F
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+
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	Spring	2020	D
100000	Tony Hawk	CSCI	4333	Design of Database Systems	Fall	2019	A

10 rows in set (0.001 sec)

[4] List the ids, names, major names, advisor names, and the department names if the faculty advisors of every student.

stuId	student	major	advisor	advisor department
100000	Tony Hawk	Computer Science	Paul Smith	Computer Science
100001	Mary Hawk	Computer Science	Paul Smith	Computer Science
100002	David Hawk	Computer Science	Paul Smith	Computer Science
100003	Catherine Lim	Information Technology	Deborah Gump	Information Technology
100004	Larry Johnson	Information Technology	Deborah Gump	Information Technology
100005	Linda Johnson	Computer Information Systems	Daniel Kim	Computer Information Systems
100006	Lillian Johnson	Computer Information Systems	Daniel Kim	Computer Information Systems
100008	Bill Ching	Arts	Art Allister	Arts
100009	Linda King	Arts	Art Allister	Arts

9 rows in set (0.001 sec)

[5] List the ids, names and major names of all students with a declared major in the following manner.

stuId	student	major
100000	Tony Hawk	Computer Science
100001	Mary Hawk	Computer Science
100002	David Hawk	Computer Science
100003	Catherine Lim	Information Technology
100004	Larry Johnson	Information Technology
100005	Linda Johnson	Computer Information Systems
100006	Lillian Johnson	Computer Information Systems
100008	Bill Ching	Arts
100009	Linda King	Arts

9 rows in set (0.000 sec)

(6) [Bonus: 10%] List the ids, names and minor names of all students with a declared major in the following manner.

stuId	student	minor
100000	Tony Hawk	Computer Information Systems
100001	Mary Hawk	Computer Information Systems
100002	David Hawk	Information Technology
100003	Catherine Lim	Computer Information Systems
100004	Larry Johnson	NULL
100005	Linda Johnson	English

```
| 100006 | Lillian Johnson | Information Technology |
| 100008 | Bill Ching       | English                |
| 100009 | Linda King       | Computer Science       |
+-----+-----+-----+
9 rows in set (0.001 sec)
```

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