

ITEC 3335 Database Development Fall 2019 Homework #1

Communications

(1) Send an email to the TA. The subject heading should be
ITEC3335.1;H1;<<Your name>>;<<Your Student ID>>,<<Your major>>

For example:

Subject: ITEC3335.1;H1;Bun Yue;0011098;ITEC

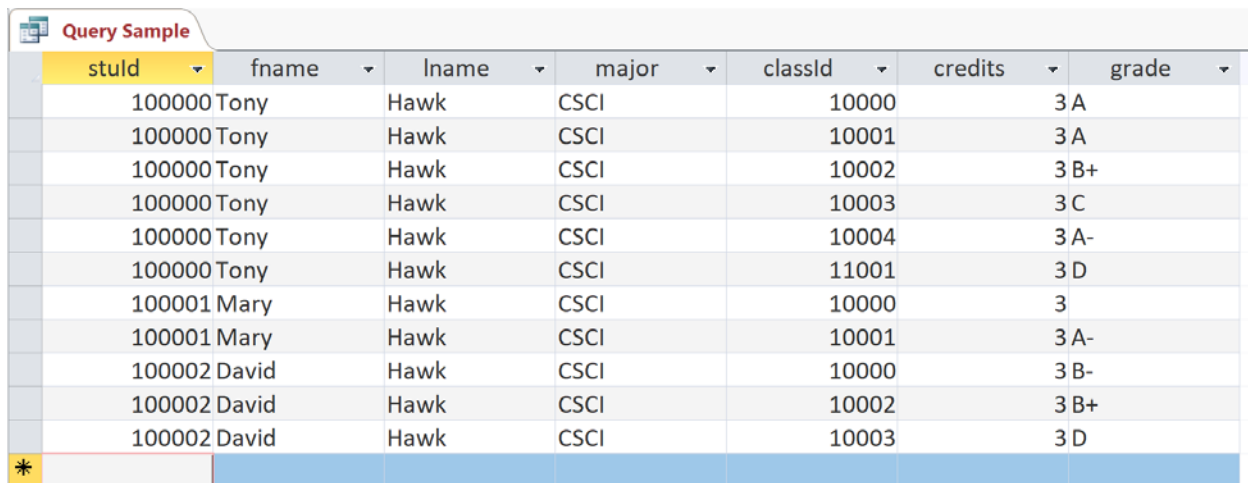
You should attach a recent photo of yourself of *very good* quality of *exactly* 300 pixel width and 450 pixel height. The image format should be gif, jpeg or png.

Make sure that you use *UHCL email address* in your communications with the TA and me. Email addresses other than UHCL's may be filtered by UHCL spam filter. Do *not* copy your email or homework to the instructor. This is to establish a communication channel between you and the teaching assistant.

MS Access

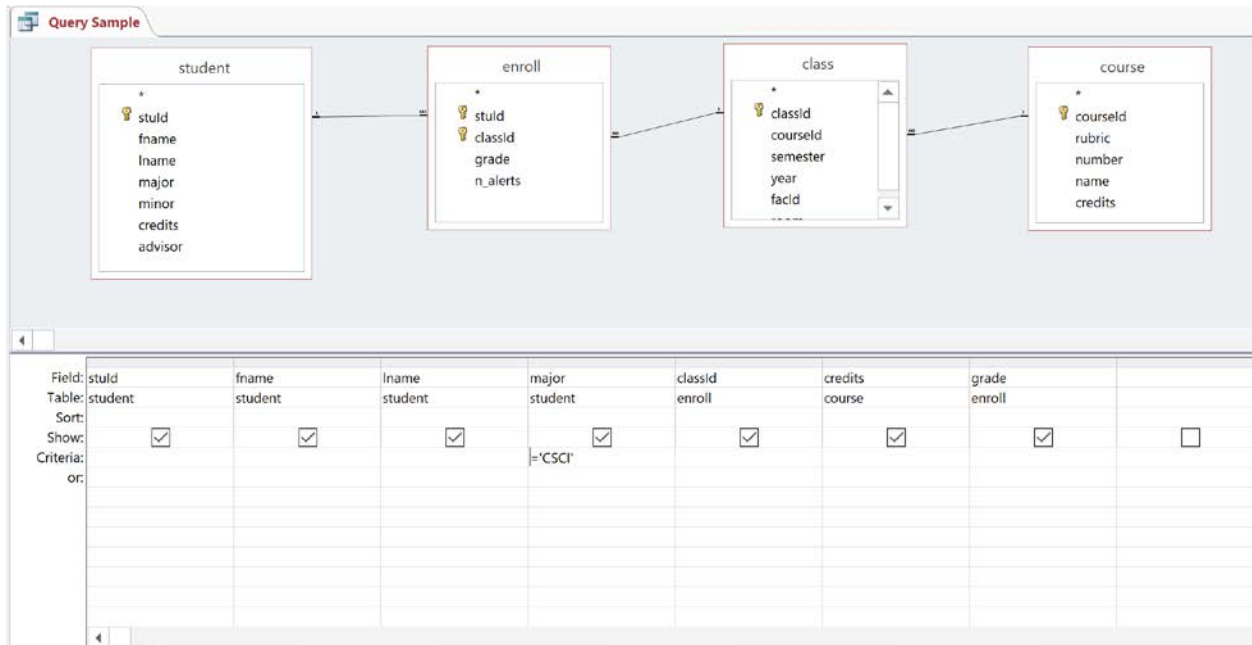
UHCL Computer Labs and Delta building departmental labs have MS Office and Access installed. Answer the following queries for the Toy University database toy.u.accdb.

[[sample question](#)] Show the student id, fname, lname, class enrolled, credit of class and grade of class of every 'CSCI' major. The result:



stuld	fname	lname	major	classId	credits	grade
100000	Tony	Hawk	CSCI	10000	3	A
100000	Tony	Hawk	CSCI	10001	3	A
100000	Tony	Hawk	CSCI	10002	3	B+
100000	Tony	Hawk	CSCI	10003	3	C
100000	Tony	Hawk	CSCI	10004	3	A-
100000	Tony	Hawk	CSCI	11001	3	D
100001	Mary	Hawk	CSCI	10000	3	
100001	Mary	Hawk	CSCI	10001	3	A-
100002	David	Hawk	CSCI	10000	3	B-
100002	David	Hawk	CSCI	10002	3	B+
100002	David	Hawk	CSCI	10003	3	D
*						

[Suggested solution to the sample question]:



(2) Create a new table Rank with two columns:

1. Rank: short text 25 characters; primary key.
2. IsTenureTrack: Boolean (Yes or no).

Populate the table with:

Rank	
Rank	IsTenureTrack
Adjunct Lecturer	No
Assistant Professor	Yes
Associate Professor	Yes
Lecturer	No
Professor	Yes
Senior Lecturer	No
Visiting Professor	No

In the relationship diagram, make the column 'Rank' of the table faculty a foreign key referencing Rank(rank).

For the solution on this question, use Microsoft words to capture three screenshots:

1. Table Rank: design view
2. Table Rank: datasheet view

3. Relationship diagram

(3) Use MS Access Query Design tool to answer the following queries. Take a screenshot of the Query Design as the answer for each of the following questions.

(a) List the first names and last names of the students majoring in ITEC.

fname	lname
Catherine	Lim
Larry	Johnson
*	

(b) List the id, first name, last name of faculty in the department with code 'CSCI' or 'ITEC', together with the name of the department.

facId	fname	lname	deptName
1011	Paul	Smith	Computer Science
1012	Mary	Tran	Computer Science
1013	David	Love	Computer Science
1014	Sharon	Mannes	Computer Science
1017	Deborah	Gump	Information Technology
1019	Benjamin	Yu	Information Technology
*			

(c) List information of the faculty in the schools with code 'CSE' or 'HSH' in the following manner.

Id	faculty	department	school
1018	Art Allister	Arts	Human Sciences and Humanities
1015	Daniel Kim	Computer Information Systems	Science and Engineering
1016	Andrew Byre	Computer Information Systems	Science and Engineering
1011	Paul Smith	Computer Science	Science and Engineering
1012	Mary Tran	Computer Science	Science and Engineering
1013	David Love	Computer Science	Science and Engineering
1014	Sharon Mannes	Computer Science	Science and Engineering
1020	Katrina Bajaj	English	Human Sciences and Humanities
1017	Deborah Gump	Information Technology	Science and Engineering
1019	Benjamin Yu	Information Technology	Science and Engineering

Note the labels and values of the result columns.

(d) List the information of all courses taught by a tenure track instructor in the following manner. Note that the result is shown in ascending order of rubric and number.

facid	rank	rubric	number	name	semester	year
1018	Assistant Professor	ARTS	3311	Hindu Arts	Fall	2019
1014	Assistant Professor	CINF	3321	Introduction to Information System	Fall	2019
1016	Associate Professor	CINF	3321	Introduction to Information System	Spring	2020
1014	Assistant Professor	CINF	4320	Web Application Development	Fall	2019
1011	Professor	CSCI	3333	Data Structures	Spring	2020
1011	Professor	CSCI	3333	Data Structures	Fall	2019
1011	Professor	CSCI	4333	Design of Database Systems	Fall	2019
1012	Associate Professor	CSCI	5333	DBMS	Fall	2019
1018	Assistant Professor	ENGL	1311	English II	Spring	2020
1015	Professor	ITEC	3335	Database Development	Fall	2019

(e) When the query is executed (i.e. entering the datasheet view), a pop up window is shown for the user to enter a school code.

Enter Parameter V... ? ×

School code (HSH, CSE, BUS or EDU):

The query then displays all students majoring in the selected school in the following manner.

Query E		
school	department	major student
Science and Engineering	Computer Information Systems	Linda Johnson
Science and Engineering	Computer Information Systems	Lillian Johnson
Science and Engineering	Computer Science	Tony Hawk
Science and Engineering	Computer Science	Mary Hawk
Science and Engineering	Computer Science	David Hawk
Science and Engineering	Information Technology	Catherine Lim
Science and Engineering	Information Technology	Larry Johnson
*		

Turn in a zipped file containing the following a words (.docx) file containing the screenshot of your query designs.

Submit the homework through Blackboard. Naming convention should be the same for all homework submission: h<assignment number>_itec3335_<sid>>_<lastname>.<extension>. For example, H1_itec3335_0111006_Bond_Jane.pdf.