

CSCI 4333
Design of Database Systems
Fall 2020
Homework #1

(1) **Establishing EMail Communications with TA and Photos.** Send an email to the TA. The subject heading should be <<class_section>>;H1;<<Your name>>;<<Your Student ID>>;<<Your major>>

For example:

Subject: CSCI4333.1;H1;Bun Yue;0011098;CS

Do the following in the email:

1. Attach a recent photo of high quality of yourself of exactly 300 pixel width and 450 pixel height. It should be similar to a passport photo. The image format should be either gif or png.
2. In the body for the email, list how you would like to be called. E.g. Like to be called: Bun.

Make sure that you use *UHCL email address* in your communications with the TA and me, whenever possible. Do *not* copy your email or homework to the instructor. This is to establish a communication channel between you and the teaching assistant, and helping us to better communicate with you.

(2) **Simple Access Query.** Use the University DB in Access modified from that of the textbook: toyu.accd.edu. Show *the screen captures* of the query designs.

[sample question] So you can check what a suggested solution should look like

Q0. Show the student id, fname, lname, class enrolled, credit of class and grade of class of every 'CSCI' major. The result:

Questions: (Collect your solutions in a single words document and submit it through blackboard)

(a) The names and minor names of all students majoring in 'CSCI'. The result:

Query1

fname	lname	deptName
Tony	Hawk	Computer Information Systems
Mary	Hawk	Computer Information Systems
David	Hawk	Information Technology
*		

minor in full names.

(b) List the name, major, minor and credits of every students with 30 or more credits in the following format. The result:

Query2

fname	lname	major	minor	credits
Tony	Hawk	Computer Science	Computer Information Systems	40
Mary	Hawk	Computer Science	Computer Information Systems	35
David	Hawk	Computer Science	Information Technology	66
Bill	Ching	Arts	English	90
Linda	King	Arts	Computer Science	125
*				

Note the labels and that the values are in full names.

Only students with 30 or more credits are included.

(c) The names the names of their majors of students who have taken a course from an instructor of the department 'CSCI' in the following format. The result:

Query3

student	major
David Hawk	Computer Science
Larry Johnson	Information Technology
Lillian Johnson	Computer Information Systems
Linda Johnson	Computer Information Systems
Mary Hawk	Computer Science
Tony Hawk	Computer Science

Note the labels and values. All of these students have taken a course offered by a CSCI faculty.

You may need to tinker with the property of the query.

(d) Show the student enrollment information of all 'CSCI' courses in the following format.

student	classId	grade	rubric	number	course
Tony Hawk	10000 A		CSCI	3333	Data Structures
Mary Hawk	10000	N/A	CSCI	3333	Data Structures
David Hawk	10000	B-	CSCI	3333	Data Structures
Tony Hawk	10001	A	CSCI	4333	Design of Database Systems
Mary Hawk	10001	A-	CSCI	4333	Design of Database Systems
Tony Hawk	10002	B+	CSCI	5333	DBMS
David Hawk	10002	B+	CSCI	5333	DBMS
Tony Hawk	11001	D	CSCI	4333	Design of Database Systems

If grade is missing (null), shown 'N/A'

Only CSCI classes are in the result.

(e) When executed, your query shows a pop-up window for the user to enter a school code:

Enter Parameter ... ? X

Please enter school code:

CSE

OK Cancel

It then shows the department and faculty in the school with the school code:

schoolCode	department	faculty
CSE	Computer Information Systems	Daniel Kim
CSE	Computer Information Systems	Andrew Byre
CSE	Computer Science	Paul Smith
CSE	Computer Science	Mary Tran
CSE	Computer Science	David Love
CSE	Computer Science	Sharon Mannes
CSE	Information Technology	Deborah Gump
CSE	Information Technology	Benjamin Yu

The solutions to Q2 should be put into a single MS words file, with proper description. Name the file: CSCI4333_<<Section>>_H1_<<Your name>>_<<Your Student ID>>.docx (e.g. CSCI4333_1_H1_JaneDoe_1234567.docx. Submit your homework assignment through Blackboard (except question 1, in which you need to send an email to the TA.) All future homework should be submitted through Blackboard.