ITCS241: Database Management System
Semester 1/2021, Faculty of ICT

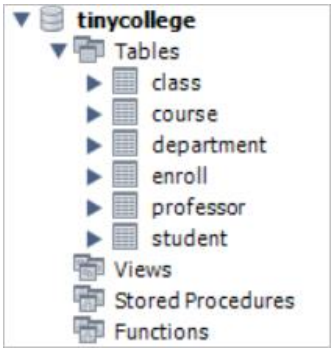
Student Name:_____**Student ID:**_____

Assignment: SQL Part II

There are three parts of the assignment. You must complete all parts before submitting the script via MyCourse

Part I: Execute `tinycollege.sql` script

1. Download "`tinycollege.sql`" from MyCourse
2. Open your MySQL workbench and connect to your "Local Instance"
3. Open the "`tinycollege.sql`" script by clicking  and execute the script
4. The expected schema after executing the script is as follows:



5. Create a new SQL script by clicking  . Then, save script as "**`sql2_sY_xx88xxx`**" where **`Y`** is your section and **`xx88xxx`** is your MU student ID

You must complete Part I before proceeding Part II and Part III.
You are required to submit "**`sql2_sY_xx88xxx.sql`**" later

Part II: DML - `INSERT, UPDATE, DELETE`

Given the following data, a table to be manipulated, and the action as follows, write the DML commands in the SQL file: **`sql2_sY_xx88xxx.sql`**

Q.	DML	Table	Data
Q1	INSERT	Professor	Professor Charles Xavier (Employee number: 101) just starts working at "Computer Info. Systems (CIS)". He was born on May 4, 1975.
Q2	INSERT	Professor	Dr. Stephen Strange (Employee number: 702, Extension: 7702) is assigned to work at "Biology (BIOL)". He was born on July 4, 1988.

Student Name:_____**Student ID:**_____

Q.	DML	Table	Data
Q3	INSERT	Student	Use your information as a student in "CIS" department with Dr. Strange as your advisor (Employee number: 702). Also, your student number is 773355.
Q4	UPDATE	Student	Update your advisor to Professor Xavier (Employee number: 101)
Q5	UPDATE	Professor	Update Professor Xavier's (Employee number: 101) extension to be 0077.
Q6	DELETE	Professor	Remove Dr. Strange out from our database

Part III: DQL - `SELECT`

For each query below, write the DQL (SELECT) commands in the SQL file: **`sql2_sY_xx88xxx.sql`**

Q7. List all information about students. **Expected 8 attributes, 39 rows**

Q8. List all CIS professor names (first name and last name, department code) **Expected 3 attributes, 4 rows. The resulting table should be**

emp_fname	emp_lname	dept_code
Charles	Xavier	CIS
Peter	Rob	CIS
Melanie	Smith	CIS
Carlos	Coronel	CIS

Q9. List all professors (first name and last name) who have the letter "M" in his/her first name and last name. **Expected 2 attributes, 2 rows. The resulting table should be**

emp_fname	emp_lname
Herman	Williams
Melanie	Smith

Q10. Show the list of students (first name, last name, and department code) who are studying at the following departments: "ENG","ART","SOC", and "HIST". The resulting table must be sorted by department code alphabetically. **Expected 3 attributes, 9 rows. The resulting table should be**

Student Name:_____**Student ID:**_____

stu_fname	stu_lname	dept_code
Ronald	Richter	ART
LaRue	Boisseaux	ART
Darren	Smith	ENG
Marie	Alvarez	ENG
Rupert	Jones	ENG
Suzanna	Grafton	HIST
William	Browning	HIST
Kenna	Hernando	HIST
Louise	Browning	SOC

Q11. Show the amount of tuition fee of all "Intro." course where the cost per credit is $250. For example, if a course has 3 credits, the amount of tuition fee of this course is $750. The resulting table must have the following information: course code, course name, calculated tuition fee, and department code. Then, it must be sorted by department code alphabetically. **Expected 4 attributes, 10 rows. The resulting table should be**

course_code	course_name	tuition fee	dept_code
ART-210	Intro. to Art	750	ART
BIOL-120	Intro. to Biology	1000	BIOL
CIS-220	Intro. to Microcomputing	750	CIS
CIS-370	Intro. to Systems Analysis	750	CIS
QM-261	Intro. to Statistics	750	CIS
MATH-240	Intro. to Calculus	1000	MATH
MGT-340	Intro. to Management	750	MKT/MGT
MKT-360	Intro. to Marketing	750	MKT/MGT
PSYCH-200	Intro. to Psychology	750	PSYCH
SOC-200	Intro. to Sociology	750	SOC

Q12. Select all courses (course code and classroom) that are located in the classroom beginning with "KLR" and also have class code between 20000 and 30000 inclusively. **Note**: remove some duplicates if any.
Expected 2 attributes, 10 rows. The resulting table should be

course_code	class_room
CIS-220	KLR 209
CIS-220	KLR 211
CIS-320	KLR 211
CIS-370	KLR 209
CIS-370	KLR 211
CIS-420	KLR 209
ECON-240	KLR 290
ECON-250	KLR 290
MGT-340	KLR 152
MKT-360	KLR 152

After completing `sql2_sY_xx88xxx.sql` **with Part II and Part III, submit the sql file in MyCourses.**