CS241 - Questions for Lab Assignment 8

1 QUESTIONS

Consider the following relations:

Student(snum: integer primary key, sname: varchar(40), major: varchar(40), level: varchar(40), age: integer)

Faculty (fid: integer primary key, fname: varchar(40), deptid: integer)

Class(name: varchar(40) primary key, meets_at: varchar(40), room: varchar(40), fid: integer references faculty)

Enrolled(snum: integer references student, cname: varchar(40) references Class(name))

(1) Write an SQL function that returns the number of students enrolled in a course by a given instructor. Using this function, list the names of instructors who teach more than 1 student. Use SQL command line. [5 Marks]

(2) Write an SQL function that returns the number of students who have got an F grade in a given course. Using this function, list the names of instructors who are teaching a course for which more than 1 student has an F grade. Use SQL command line. [5 Marks]