CS241 - Questions for Lab Assignment 8

1   INSTRUCTIONS

(1) This lab **is graded**.

(2) Get the answers for Lab 7 evaluated before you begin this lab.

2   QUESTION 1

Consider the following relations:

Student(snum: integer, sname: string, major: string, level: string, age: integer)

Class(name: string, meets_at: time, room: string, fid: integer)

Enrolled(snum: integer, cname: string)

Faculty (fid: integer, fname: string, deptid: integer)

student_research(snum, paper_id)

The meaning of these relations is straightforward; for example, Enrolled has one record per student-class pair such that the student is enrolled in the class.

(1) Write a java application to retrieve all the papers of a given student from the database. Retrieving the paper id is not sufficient, the paper must be retrieved. [5 Marks]

(2) 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. It is sufficient if you use MySQL command line. [5 Marks]