

CS241 - Questions for Lab Assignment 1

1 INSTRUCTIONS

- (1) This lab is graded. Each question carries 1 mark. Maximum marks: 5
- (2) Download and install MySQL. If it is not possible to install MySQL on your laptop, install SQLite.
- (3) Use the commands in the text file “create.txt” to create the required tables. Refer the MySQL documentation for the syntax to create tables. Use the data in the other text files to insert values into the tables.

2 QUESTIONS

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)

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.

Write the following queries in SQL. No duplicates should be printed in any of the answers.

- (1) Find the names and ages of all students.
- (2) Find all students whose age is above 18. (List their serial numbers, names, major, level and age).
- (3) Find the serial numbers of all students who have enrolled for “Database Systems”.
- (4) Find the names of all students who have enrolled for “Database Systems”.
- (5) Find the names of all faculty members who belong to the department “20”.