## PROGRAM 4:STUDENT FACULTY DATABASE

Consider the following database for student enrolment for course:

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

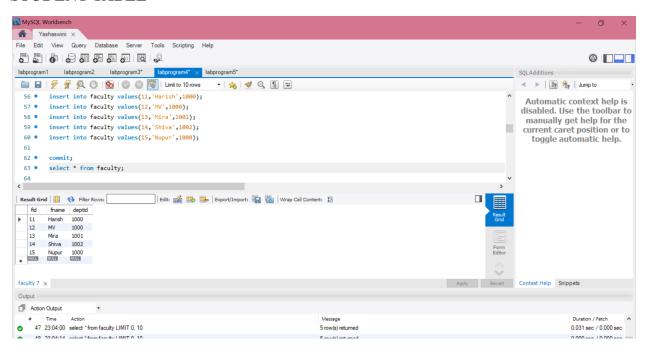
such that the student is enrolled in the class. Level is a two character code with 4

different values (example: Junior: JR etc)

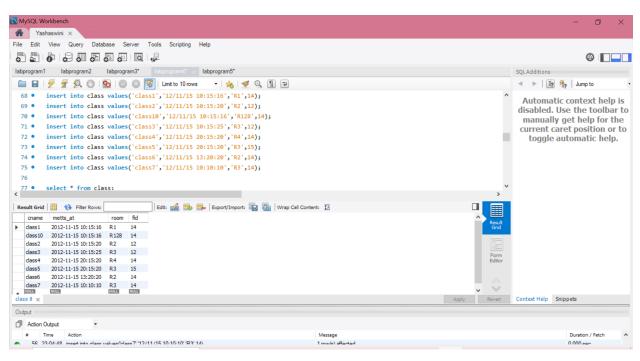
Write the following queries in SQL.

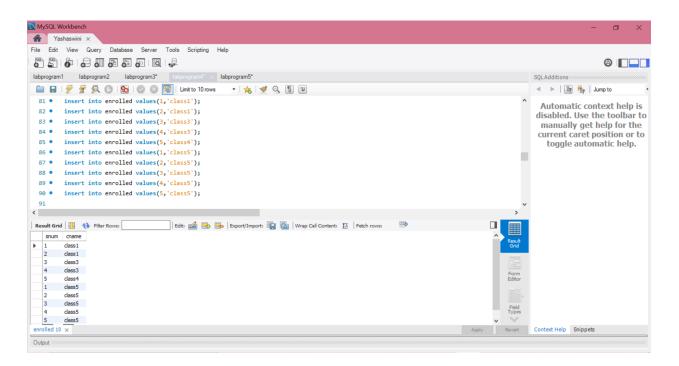
No duplicates should be printed in any of the answers.

## STUDENT TABLE

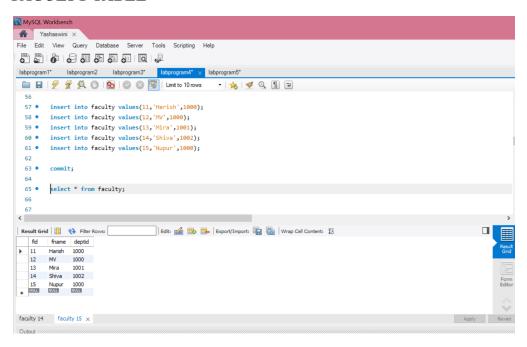


## **CLASS TABLE**

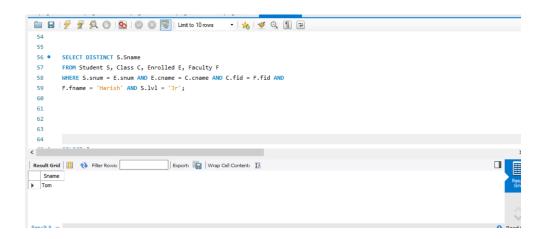




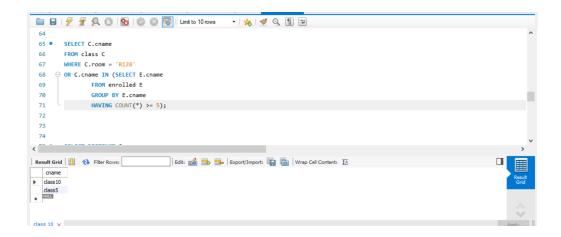
## **FACULTY TABLE**



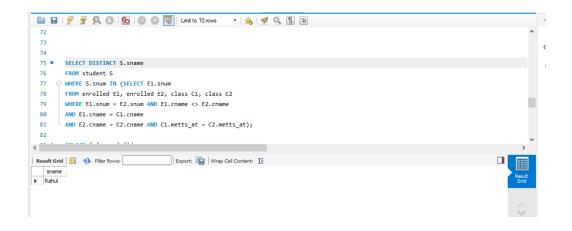
i. Find the names of all Juniors (level = JR) who are enrolled in a class taught by



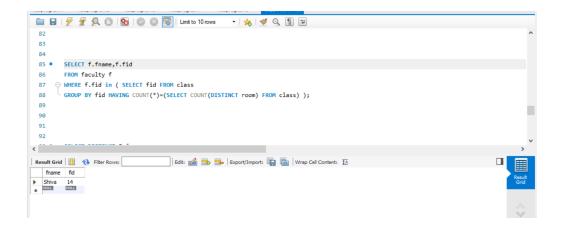
ii. Find the names of all classes that either meet in room R128 or have five or more Students enrolled.



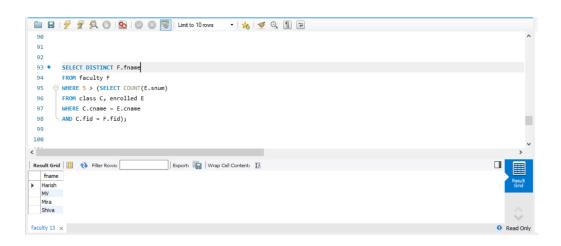
iii. Find the names of all students who are enrolled in two classes that meet at the same time.



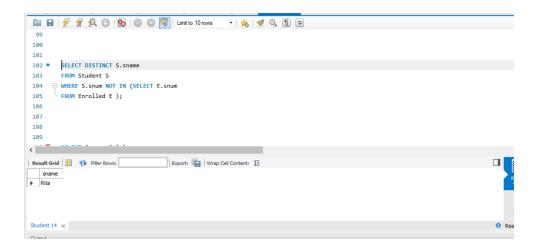
iv. Find the names of faculty members who teach in every room in which some class is taught.



v. Find the names of faculty members for whom the combined enrolment of the courses that they teach is less than five.



vi. Find the names of students who are not enrolled in any class.



vii. For each age value that appears in Students, find the level value that appears most often. For example, if there are more FR level students aged 18 than SR, JR, or SO students aged 18, you should print the pair (18, FR).

