**North South University**

**CSE311**

**Name:**

**ID:**

**Sec:**

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

Class(c*name:* string, *meets at:* string, *room:* string, *fid:* integer)

Enrolled(*snum:* integer, *cname:* string)

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

1. Find the names of all juniors (level = JR) who are enrolled in a class taught by I. Teach.

2. Find the age of the oldest student who is either a History major or enrolled in a course taught by I. Teach.

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

4. For each level, print the level and the average age of students for that level.

5. For all levels except JR, print the level and the average age of students for that level.

6. Find the names of students not enrolled in any class.

Now, you have to add a column in Faculty Table which will be referred as Mobile\_Number attribute. You have to update some number to add Number in the existing value. Then, show the existing valid phone numbers in the faculty table. Consider, there are 4 mobile number operators(Gp, Airtel, Robi and Bangla Link).

1.SELECT s.sname, f.fname,s.level

from student s, class c,enrolled e, faculty f

WHERE s.snum=e.snum and e.cname = c.name and c.fid = f.fid and

s.level = 'jr' and f.fname LIKE 'I%Teach';

2.

1st step :

select e.snum,f.fname

from enrolled e, faculty f,class c

where e.cname = c.name and f.fid = c.fid

and f.fname like 'I%Teach'

SELECT s.sname,max(s.age)

from student s

WHERE s.major = 'history' OR

s.snum IN

(select e.snum

from enrolled e, faculty f,class c

where e.cname = c.name and f.fid = c.fid

and f.fname like 'I%Teach')

3.

1st step:

SELECT count(\*)

from enrolled e

GROUP by e.cname

2nd Step:

SELECT e.cname

from enrolled e

GROUP by e.cname

HAVING COUNT(\*) >= 5

Final :

SELECT c.name

from class c

WHERE c.room = 'R218'

OR c.name IN

(SELECT e.cname

from enrolled e

GROUP by e.cname

HAVING COUNT(\*) >= 5)

4.

SELECT s.level, AVG(s.age)

FROM student s

GROUP by s.level

5.

SELECT s.level, AVG(s.age)

FROM student s

WHERE s.level <> 'JR'

GROUP by s.level

6.

SELECT S.sname

FROM Student S

WHERE S.snum NOT IN (

SELECT E.snum

FROM Enrolled E )