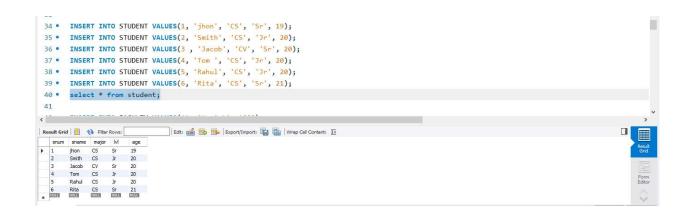
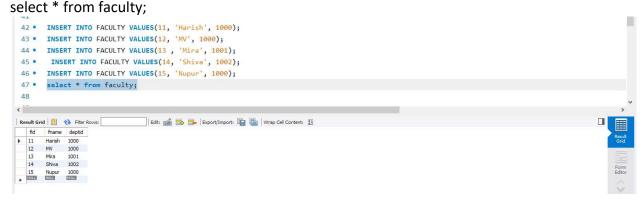
NAME:SWETHA PATIL

```
create database student faculty;
use student faculty;
CREATE TABLE student(
    snum INT,
    sname VARCHAR(10),
    major VARCHAR(2),
    IvI VARCHAR(2),
   age INT, primary key(snum));
desc student;
CREATE TABLE faculty(
    fid INT, fname VARCHAR(20),
    deptid INT,
   PRIMARY KEY(fid));
desc faculty;
CREATE TABLE class(
   cname VARCHAR(20),
   meets at TIMESTAMP,
   room VARCHAR(10),
  fid INT,
    PRIMARY KEY(cname),
   FOREIGN KEY(fid) REFERENCES faculty(fid));
   desc class;
   CREATE TABLE enrolled(
    snum INT,
    cname VARCHAR(20),
   PRIMARY KEY(snum,cname),
       FOREIGN KEY(snum) REFERENCES student(snum),
       FOREIGN KEY(cname) REFERENCES class(cname));
desc enrolled;
INSERT INTO STUDENT VALUES(1, 'jhon', 'CS', 'Sr', 19);
INSERT INTO STUDENT VALUES(2, 'Smith', 'CS', 'Jr', 20);
INSERT INTO STUDENT VALUES(3, 'Jacob', 'CV', 'Sr', 20);
INSERT INTO STUDENT VALUES(4, 'Tom', 'CS', 'Jr', 20);
INSERT INTO STUDENT VALUES(5, 'Rahul', 'CS', 'Jr', 20);
INSERT INTO STUDENT VALUES(6, 'Rita', 'CS', 'Sr', 21);
select * from student;
```



INSERT INTO FACULTY VALUES(11, 'Harish', 1000); INSERT INTO FACULTY VALUES(12, 'MV', 1000); INSERT INTO FACULTY VALUES(13, 'Mira', 1001); INSERT INTO FACULTY VALUES(14, 'Shiva', 1002); INSERT INTO FACULTY VALUES(15, 'Nupur', 1000);



INSERT INTO CLASS VALUES('class1', '12/11/15 10:15:16', 'R1', 14); INSERT INTO CLASS VALUES('class10', '12/11/15 10:15:16', 'R128', 14); INSERT INTO CLASS VALUES('class2', '12/11/15 10:15:20', 'R2', 12); INSERT INTO CLASS VALUES('class3', '12/11/15 10:15:25', 'R3', 11); INSERT INTO CLASS VALUES('class4', '12/11/15 20:15:20', 'R4', 14); INSERT INTO CLASS VALUES('class5', '12/11/15 20:15:20', 'R3', 15); INSERT INTO CLASS VALUES('class6', '12/11/15 13:20:20', 'R2', 14); INSERT INTO CLASS VALUES('class7', '12/11/15 10:10:10', 'R3', 14); select * from class;

```
50 • insert into class values('class1', '12/11/15 10:15:16', 'R1', 14);
51 • insert into class values('class10', '12/11/15 10:15:16', 'R128', 14);
52 • insert into class values('class2', '12/11/15 10:15:20', 'R2', 12);
53 • insert into class values('class3', '12/11/15 10:15:25', 'R3', 11);
54 • insert into class values('class4', '12/11/15 20:15:20', 'R4', 14);
55 • insert into class values('class5', '12/11/15 20:15:20', 'R3', 15);
56 • insert into class values('class6', '12/11/15 13:20:20', 'R2', 14);
57 • insert into class values('class7', '12/11/15 10:10:10', 'R3', 14);
58 • select * from class;
<
Edit: 🚄 🖶 🖶 Export/Import: 📳 🎳 Wrap Cell Content: 🏗
 cname meets_at
                       room fid
b dass1
        2012-11-15 10:15:16 R1
  dass10 2012-11-15 10:15:16 R128 14
dass2 2012-11-15 10:15:20 R2 12
dass3 2012-11-15 10:15:25 R3 11
        2012-11-15 10:15:25 R3 11
        2012-11-15 20:15:20
  dass5 2012-11-15 20:15:20 R3 15
                       R2
  dass6
        2012-11-15 13:20:20
        2012-11-15 10:10:10 R3 14
```

```
INSERT INTO ENROLLED VALUES(1, 'class1');
INSERT INTO ENROLLED VALUES(2, 'class1');
INSERT INTO ENROLLED VALUES(3, 'class3');
INSERT INTO ENROLLED VALUES(4, 'class3');
INSERT INTO ENROLLED VALUES(5, 'class4');
INSERT INTO ENROLLED VALUES(1, 'class5');
INSERT INTO ENROLLED VALUES(2, 'class5');
INSERT INTO ENROLLED VALUES(3, 'class5');
INSERT INTO ENROLLED VALUES(4, 'class5');
INSERT INTO ENROLLED VALUES(5, 'class5');
select * from enrolled;
  61 • insert into enrolled values(2, 'class1');
  62 • insert into enrolled values(3, 'class3');
  63 • insert into enrolled values(4, 'class3');
  64 • insert into enrolled values(5, 'class4');
  65 • insert into enrolled values(1, 'class5');
  66 • insert into enrolled values(2, 'class5'):
  67 • insert into enrolled values(3, 'class5');
  68 • insert into enrolled values(4, 'class5');
  69 •
     insert into enrolled values(5, 'class5');
  70 • select * from enrolled;
```

```
SELECT DISTINCT S.Sname
FROM Student S, Class C, Enrolled E, Faculty F
WHERE S.snum = E.snum AND E.cname = C.cname AND C.fid = F.fid AND
F.fname = 'Harish' AND S.lvl = 'Jr';
  67 • insert into enrolled values(3, 'class5');
  68 • insert into enrolled values(4, 'class5');
  69 • insert into enrolled values(5, 'class5');
  70 • select * from enrolled;
  71
  72 • SELECT DISTINCT S. Sname
        FROM Student S, Class C, Enrolled E, Faculty F
  73
        WHERE S.snum = E.snum AND E.cname = C.cname AND C.fid = F.fid AND
  75
        F.fname = 'Harish' AND S.1v1 = 'Jr';
 < 70
 Export: Wrap Cell Content: IA
Sname

Tom
SELECT C.cname
FROM class C
WHERE C.room = 'R128'
OR C.cname IN (SELECT E.cname
                  FROM enrolled E
                  GROUP BY E.cname
                  HAVING COUNT(*) >= 5);
  78 • SELECT C.cname
       FROM class C
  79
       WHERE C.room = 'R128'
  80
 81 

OR C.cname IN (SELECT E.cname
  82
            FROM enrolled E
  83
            GROUP BY E.cname
            HAVING COUNT(*) >= 5);
  85
 Result Grid | 🔠 🙌 Filter Rows:
                          | Edit: 🕍 📆 📙 | Export/Import: 📳 👸 | Wrap Cell Content: 🔣
 class5
```

```
SELECT DISTINCT S.sname

FROM Student S

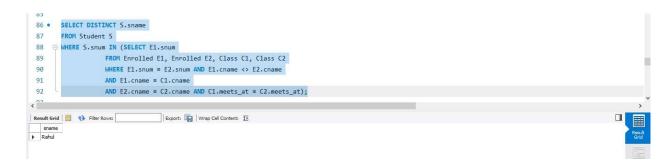
WHERE S.snum IN (SELECT E1.snum

FROM Enrolled E1, Enrolled E2, Class C1, Class C2

WHERE E1.snum = E2.snum AND E1.cname <> E2.cname

AND E1.cname = C1.cname

AND E2.cname = C2.cname AND C1.meets at = C2.meets at);
```

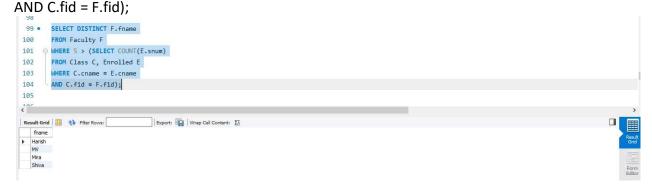


SELECT f.fname,f.fid FROM faculty f WHERE f.fid in (SELECT fid FROM class GROUP BY fid

HAVING COUNT(*)=(SELECT COUNT(DISTINCT room) FROM class));



SELECT DISTINCT F.fname
FROM Faculty F
WHERE 5 > (SELECT COUNT(E.snum)
FROM Class C, Enrolled E
WHERE C.cname = E.cname



SELECT DISTINCT S.sname FROM Student S WHERE S.snum NOT IN (SELECT E.snum FROM enrolled E);



SELECT S.age, S.IvI
FROM Student S
GROUP BY S.age, S.IvI
HAVING S.IvI IN (SELECT S1.IvI FROM Student S1
WHERE S1.age = S.age
GROUP BY S1.IvI, S1.age
HAVING COUNT(*) >= ALL (SELECT COUNT(*)
FROM Student S2
WHERE s1.age = S2.age
GROUP BY S2.IvI, S2.age));

