```
create database student_faculty;
use student_faculty;
SET SQL_SAFE_UPDATES=0;
create table Student(
  snum integer,
  sname varchar(30),
  major varchar(30),
  IvI varchar(30),
  age integer, primary key(snum));
create table Faculty(
  fid integer,
  fname varchar(30),
  deptid integer,
  primary key(fid));
create table Class(
  cname varchar(30),
  meetat time,
  room varchar(30),
  fid integer,
  primary key(cname),
  foreign key(fid) references Faculty(fid));
```

```
create table Enrolled(
  snum integer,
  cname varchar(30),
  foreign key(snum) references Student(snum),
  foreign key(cname) references Class(cname));
  SELECT * FROM STUDENTS;
  drop table enrolled;
  DELETE FROM STUDENT;
insert into Student values(01, 'soundarya', 'CSE', 'SR', 20);
insert into Student values(02, 'lucy', 'CSE', 'SR', 20);
insert into Student values(03, 'aria', 'CSE', 'JR', 19);
insert into Student values(04, 'mona', 'CSE', 'SR', 20);
insert into Student values(05, 'EMILY', 'CSE', 'JR', 19);
insert into Student values(06, 'RITA', 'CSE', 'FR', 18);
insert into Student values(07, 'rupa', 'CSE', 'FR', 18);
insert into Student values(08, 'latha', 'CSE', 'FR', 18);
insert into Student values(11, 'reena', 'CSE', 'FR', 18);
insert into Student values(12, 'teena', 'CSE', 'FR', 18);
insert into Student values(13, 'meena', 'CSE', 'FR', 18);
insert into Faculty values(101, 'Selina', 10);
insert into Faculty values(102, 'latha', 20);
insert into Faculty values(131, 'rekha', 20);
```

```
insert into Class values('4a', '12:00:00', 406, 101);
insert into Class values('4b', '11:00:00', 407, 101);
insert into Class values('4c', '01:00:00', 410, 102);
insert into Class values('4d', '11:00:00', 406, 102);
insert into Class values('4e', '11:00:00', 408, 131);
insert into Class values('4f', '09:00:00', 409, 131);
insert into Enrolled values(01, '4a');
insert into Enrolled values(02, '4a');
insert into Enrolled values(03, '4b');
insert into Enrolled values(04, '4b');
insert into Enrolled values(05, '4c');
insert into Enrolled values(06, '4c');
insert into Enrolled values(07, '4d');
insert into Enrolled values(07, '4d');
insert into Enrolled values(08, '4e');
insert into Enrolled values(08, '4b');
insert into Enrolled values(11, '4a');
insert into Enrolled values(12, '4a');
insert into Enrolled values(13, '4a');
```

select sname from student s join enrolled e on s.snum=e.snum where s.lvl='JR' and e.cname in

(select c.cname from class c join faculty f on f.fid=c.fid and f.fname='selina');

select distinct sname, e.c. name from student s join enrolled e on s.snum=e.snum where e.c. name in

(select c.cname from enrolled f ,class c join class d on c.meetat=d.meetat where e.cname!=f.cname and e.snum=f.snum);

select fname from faculty f join class c on f.fid=c.fid join class s on s.room=c.room and c.fid!=s.fid;

select distinct e.cname,f.fname,count(e.cname) from faculty f join class c on f.fid=c.fid join enrolled e on c.cname=e.cname

group by e.cname having count(e.cname)<5;

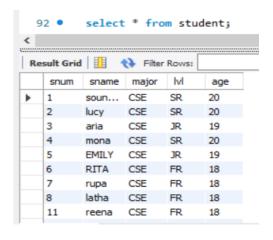
select cname, count(cname) from enrolled group by cname;

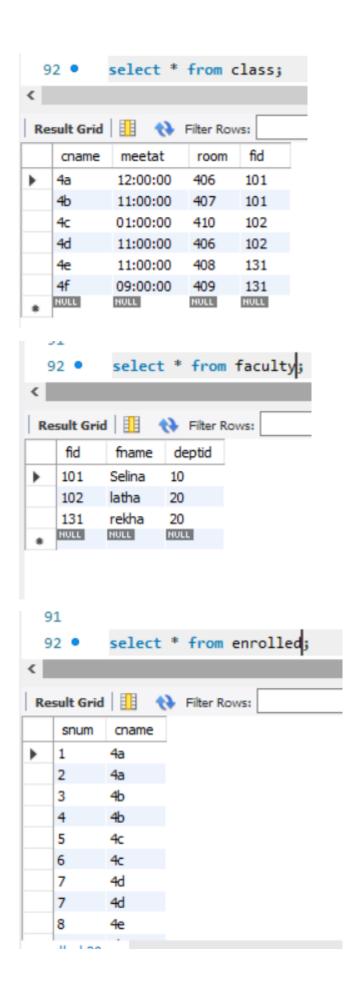
SELECT S.age,S.lvl FROM student S GROUP BY S.age,S.lvl HAVING S.lvl IN

(SELECT S1.lvl FROM student S1 WHERE S1.age=S.age GROUP BY S1.lvl,S1.age
HAVING COUNT(lvl)>=ALL

(SELECT COUNT(IvI) FROM student S2 WHERE S1.age=S2.age GROUP BY S2.IvI,S2.age));

TABLES:



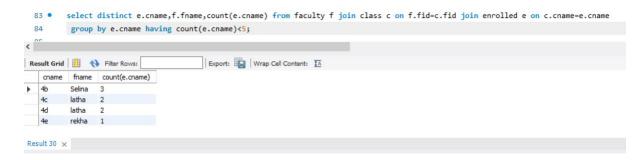


QUERY OUTPUTS:

1.

```
select sname from student s join enrolled e on s.snum=e.snum where s.lvl='JR' and e.cname in
          (select c.cname from class c join faculty f on f.fid=c.fid and f.fname='selina');
  68
 Export: Wrap Cell Content: IA
    sname
aria
2.
71 • select distinct sname,e.cname from student s join enrolled e on s.snum=e.snum where e.cname in
      (select c.cname from enrolled f ,class c join class d on c.meetat=d.meetat where e.cname!=f.cname and e.snum=f.snum);
                             Export: Wrap Cell Content: IA
sname cname
latha 4b
latha 4e
3.
         select fname from faculty f join class c on f.fid=c.fid join class s on s.room=c.room and c.fid!=s.fid;
  74 •
  75
  76
Export: Wrap Cell Content: IA
   fname
Selina
  latha
```

4.



5.

