CREATE TABLE student(

snum INT,

sname VARCHAR(10),

major VARCHAR(2),

lvl 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),

metts\_at TIMESTAMP,

room VARCHAR(10),

fid INT,

PRIMARY KEY(cname),

FOREIGN KEY(fid) REFERENCES faculty(fid));

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;

commit;

INSERT INTO STUDENT VALUES(&snum, '&sname', '&major', '&lvl', &age);

select \* from student;

INSERT INTO FACULTY VALUES(&FID, '&FNAME', &DEPTID);

select \* from faculty;

commit;

alter session set nls\_timestamp\_format = 'RR/MM/DD HH24:MI:SSXFF';

alter session set nls\_date\_language ='ENGLISH';

insert into class values('&cname', '&meets\_at', '&room', &fid);

select \* from class;

commit;

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’;

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);

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 DISTINCT F.fname

FROM Faculty F

WHERE NOT EXISTS ((SELECT C.roomFROM Class C )

MINUS

(SELECTC1.room

FROM Class C1

WHERE C1.fid = F.fid ));

SELECT DISTINCT F.fname

FROM Faculty F

WHERE 5 > (SELECT COUNT (E.snum)

FROM Class C, Enrolled E

WHERE C.cname = E.cname

AND C.fid = F.fid)

SELECT DISTINCT S.sname

FROM Student S

WHERE S.snum NOT IN (SELECT E.snum

FROM Enrolled E );

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 (\*) >= ALL (SELECT COUNT (\*)

FROM Student S2

WHERE s1.age = S2.age

GROUP BY S2.lvl, S2.age));