

TRISHUL M

1BM19CS173

D1

TEXTCOURSE

create database textcourse;

use textcourse;

create table student(

 regno varchar(15),

 name varchar(20),

 major varchar(20),

 bdate date,

 primary key (regno)

);

desc student;

create table course(

 courseno int,

 cname varchar(20),

 dept varchar(20),

 primary key (courseno)

);

desc course;

create table enroll(

 regno varchar(15),

 courseno int,

 sem int(3),

 marks int(4),

 primary key (regno,courseno),

 foreign key (regno) references student (regno),

 foreign key (courseno) references course (courseno)

```

);
desc enroll;
create table text(
    book_isbn int(5),
    book_title varchar(20),
    publisher varchar(20),
    author varchar(20),
    primary key (book_isbn)
);
desc text;

create table book_adoption(
    courseno int,
    sem int(3),
    book_isbn int(5),
    primary key (courseno,book_isbn),
    foreign key (courseno) references course (courseno),
    foreign key (book_isbn) references text(book_isbn)
);
desc book_adoption;
insert into student (regno,name,major,bdate) values
    ('1pe11cs002','b','sr','19930924'),
    ('1pe11cs003','c','sr','19931127'),
    ('1pe11cs004','d','sr','19930413'),
    ('1pe11cs005','e','jr','19940824');
select * from student;

```

regno	name	major	bdate
1pe11cs002	b	sr	1993-09-24
1pe11cs003	c	sr	1993-11-27
1pe11cs004	d	sr	1993-04-13
1pe11cs005	e	jr	1994-08-24

```

insert into course values (111,'os','cse'),
(112,'ec','cse'),
(113,'ss','ise'),
(114,'dbms','cse'),
(115,'signals','ece');

```

```
select * from course;
```

	courseno	cname	dept
▶	111	os	cse
	112	ec	cse
	113	ss	ise
	114	dbms	cse
	115	signals	ece

```

insert into text values (book_isbn,book_title,publisher,author),
(10,'database systems','pearson','schiold'),
(900,'operating sys','pearson','leland'),
(901,'circuits','hall india','bob'),
(902,'system software','peterson','jacob'),
(903,'scheduling','pearson','patil'),
(904,'database systems','pearson','jacob'),
(905,'database manager','pearson','bob'),
(906,'signals','hall india','sumit');

```

```
select * from text;
```

	book_isbn	book_title	publisher	author
	0	NULL	NULL	NULL
	10	database systems	pearson	schiold
	900	operating sys	pearson	leland
	901	circuits	hall india	bob
	902	system software	peterson	jacob
	903	scheduling	pearson	patil
	904	database systems	pearson	jacob
	905	database manager	pearson	bob
	906	signals	hall india	sumit

insert into enroll (regno,courseno,sem,marks) values

('1pe11cs002',114,5,100),

('1pe11cs003',113,5,100),

('1pe11cs004',111,5,100),

('1pe11cs005',112,3,100);

select * from enroll;

	regno	courseno	sem	marks
▶	1pe11cs002	114	5	100
	1pe11cs003	113	5	100
	1pe11cs004	111	5	100
	1pe11cs005	112	3	100
*	NULL	NULL	NULL	NULL

insert into book_adoption (courseno,sem,book_isbn) values

(111,5,900),

(111,5,903),

(111,5,904),

(112,3,901),

(113,3,10),

(114,5,905),

(113,5,902),

(115,3,906);

select * from book_adoption;

courseno	sem	book_isbn
111	5	900
111	5	903
111	5	904
112	3	901
113	3	10
113	5	902
114	5	905
115	3	906
NULL	NULL	NULL

-- Query 3

insert into text values (907,'ai','hall india','sumit');

insert into book_adoption values(115, 2, 907);

select * from text;

0	book_title	book_isbn	author
10	database systems	pearson	schield
900	operating sys	pearson	leland
901	circuits	hall india	bob
902	system software	peterson	jacob
903	scheduling	pearson	patil
904	database systems	pearson	jacob
905	database manager	pearson	bob
906	signals	hall india	sumit

select * from book_adoption;

	courseno	sem	book_isbn
▶	111	5	900
	111	5	903
	111	5	904
	112	3	901
	113	3	10
	113	5	902
	114	5	905
	115	3	906
	115	2	907

-- Query 4

select b.book_isbn, b.courseno, t.book_title from book_adoption b, text t where t.book_isbn = b.book_isbn and b.courseno in(

select courseno from course where dept = 'cse' and courseno in (select courseno from book_adoption group by courseno having count(*)>2));

book_isbn	courseno	book_title
900	111	operating sys
903	111	scheduling
904	111	database systems

-- query 5

```
select distinct c.dept
  from course c
 where c.dept in
    ( select c.dept
      from course c,book_adoption b,text t
     where c.courseno=b.courseno
       and t.book_isbn=b.book_isbn
       and t.publisher='hall india')
 and c.dept not in
    (select c.dept
      from course c,book_adoption b,text t
     where c.courseno=b.courseno
       and t.book_isbn=b.book_isbn
       and t.publisher != 'hall india');
```

dept
ece