LAB 8- STUDENT ENROLLMENT DATABASE

Anitej Prasad 1BM19CS194 4-D

```
create database student_enroll;
use student_enroll;
      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), marks int, primary courseno int, sem int, key(regno,courseno), foreign key(regno) references student(regno), foreign key(courseno) references course(courseno)); desc enroll; create table textbook(book isbn int, book title varchar(20), publisher varchar(20), author varchar(20), primary key(book isbn)); desc textbook;

```
create table book_adoption(

courseno int, sem int,

book_isbn int,

primary key(courseno,book_isbn),

foreign key(courseno) references course(courseno),

foreign key(book_isbn) references textbook(book_isbn));

desc book_adoption;
```

insert into student values('1BM11CS001','A','Sr','19931230'); insert into student values('1BM11CS002','B','Sr','19930924'); insert

into student values('1BM11CS003','C','Sr','19931127'); insert into student values('1BM11CS004','D','Sr','19930413'); insert into student values('1BM11CS005','E','Jr','19940824');

commit;

select * from student;

	regno	name	major	bdate
•	1BM11CS001	Α	Sr	1993-12-30
	1BM11CS002	В	Sr	1993-09-24
	1BM11CS003	C	Sr	1993-11-27
	1BM11CS004	D	Sr	1993-04-13
	1BM11CS005	E	3r	1994-08-24
	NULL	NULL	HULL	NULL

insert into course values(111,'OS','CSE');
insert into course values(112,'EC','ECE'); insert
into course values(113,'SS','ISE'); insert into
course values(114,'DBMS','CSE'); insert into
course values(115,'SIGNALS','ECE'); commit; select *
from course;

	courseno	cname	dept
١	111	OS	CSE
	112	EC	ECE
	113	SS	ISE
	114	DBMS	CSE
	115	SIGNALS	ECE
	HULL	HULL	HULL

insert into textbook values(10, 'DATABASE SYSTEMS', 'PEARSON', 'SCHIELD');

insert into textbook values(900,'OPERATING
SYSTEMS','PEARSON','LELAND');

insert into textbook values(901, 'CIRCUITS', 'HALL INDIA', 'BOB');

insert into textbook values(902,'SYSTEM
SOFTWARE','PETERSON','JACOB');

insert into textbook values(903, 'SCHEDULING', 'PEARSON', 'PATIL');

insert into textbook values(904, 'DATABASE SYSTEMS', 'PEARSON', 'JACOB');

insert into textbook values(905,'DATABASE MANAGER','PEARSON','BOB');

insert into textbook values(906, 'SIGNALS', 'HALL INDIA', 'SUMIT'); commit;

select * from textbook;

	book_isbn	book_title	publisher	author
٠	10	DATABASE SYSTEMS	PEARSON	SCHIELD
	900	OPERATING SYSTEMS	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
	PERKE	BULL	MULL	MULL

insert into enroll values('1BM11CS001',115,3,100);

insert into enroll values('1BM11CS002',114,5,100);

insert into enroll values('1BM11CS003',113,5,100);

insert into enroll values('1BM11CS004',111,5,100);
insert into enroll values('1BM11CS005',112,3,100);
commit;

select * from enroll;

	regno	courseno	sem	marks
١	1BM11CS001	115	3	100
	1BM11CS002	114	5	100
	1BM11CS003	113	5	100
	1BM11CS004	111	5	100
	1BM11CS005	112	3	100
	NULL	NULL	NULL	NULL

insert into book_adoption values(111,5,900); insert into book_adoption values(111,5,903); insert into book_adoption values(111,5,904); insert into book_adoption values(112,3,901); insert into book_adoption values(113,3,10); insert into book_adoption values(114,5,905); insert into book_adoption values(113,5,902); insert into book adoption values(115,3,906); commit; select * from book adoption;

	courseno	sem	book_isbn
٠	111	5	900
	111	5	903
	111	5	904
	112	3	901
	113	3	10
	113	5	902
	114	5	905
	115	3	906
	HULL	HULL	HULL

Additional Queries:

insert into textbook values(908,'UNIX CONCEPTS','TATA MCGRAW HILL','SUMITABHA DAS');

insert into book_adoption values(113,4,908);
select * from textbook; select * from
book_adoption;

book_isbn	book_title	publisher	author
10	DATABASE SYSTEMS	PEARSON	SCHIELD
900	OPERATING SYSTEMS	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
908	UNIX CONCEPTS	TATA MCGRAW HILL	SUMITABHA DAS
HULL	HULL	HULL	NULL

	courseno	sem	book_isbn
•	111	5	900
	111	5	903
	111	5	904
	112	3	901
	113	3	10
	113	5	902
	113	4	908
	114	5	905
	115	3	906
	HUEL	MURLE	HURL

select c.courseno,t.book_isbn,t.book_title
from course c,book_adoption ba,textbook t
where c.courseno=ba.courseno and
ba.book_isbn=t.book_isbn and c.dept='CSE'
and 2<(select COUNT(book_isbn) from
book_adoption b where
c.courseno=b.courseno) order by t.book_title;

	courseno	book_isbn	book_title
•	111	904	DATABASE SYSTEMS
	111	900	OPERATING SYSTEMS
	111	903	SCHEDULING

select distinct c.dept from course c

where c.dept in(select c.dept from

course c,book_adoption b,textbook t

where c.courseno=b.courseno and

t.book_isbn=b.book_isbn and

t.publisher='PEARSON') and c.dept not

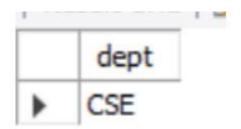
in(select c.dept from course c,book_adoption

b,textbook t where

c.courseno=b.courseno and

t.book_isbn=b.book_isbn and t.publisher

!= 'PEARSON');



	author_name	book_id
۰	navathe	1
	navathe	2
	edward angel	4
	galvin	5
	NULL	NULL

	no_of_copies	book_id	branch_id
١	10	1	10
	5	1	11
	2	2	12
	5	2	13
	3	4	11
	1	5	10
	NULL	NULL	NULL

	date_out	due_date	book_id	branch_id	card_no
١	2001-01-17	2001-06-17	1	10	101
	2012-08-17	2012-08-17	1	11	104
	2021-02-17	2021-04-17	2	13	101
	2015-03-17	2015-07-17	4	11	101
	NULL	NULL	HULL	NULL	HULL

create view partition select pub_year from book; select
* from partition;

	pub_year
Þ	01-2017
	06-2016
	09-2015
	05-2016

create view q5_view as select b.book_id, b.title, bc.no_of_copies from book b,
book_copies bc where b.book_id = bc.book_id; select * from q5_view;

	book_id	title	no_of_copies
•	1	dbms	10
	1	dbms	5
	2	adbms	2
	2	adbms	5
	4	cg	3
	5	os	1