## CODE:

```
create table student8(
regno varchar(30),
name varchar(30),
major varchar(30),
bdate date,
primary key(regno));
create table course(
course_no int,
cname varchar(10),
dept varchar(30),
primary key(course_no));
create table enroll(
regno varchar(30),
course_no int,
sem int.
marks int,
primary key(regno,course_no),
foreign key(regno) references student8(regno) on delete cascade,
foreign key(course_no) references course(course_no) on delete cascade);
create table text(
book_isbn int,
book_title varchar(50),
publisher varchar(50),
author varchar(50),
primary key(book_isbn));
create table book_adoption(
course_no int,
sem int,
book_isbn int,
primary key(course_no,book_isbn),
foreign key(course_no) references course(course_no) on delete cascade,
foreign key(book_isbn) references text(book_isbn) on delete cascade);
INSERT INTO student8 VALUES ('1bm18cs001','a','sr','09-DEC-17');
INSERT INTO student8 VALUES ('1bm18cs002','b','sr','01-JUN-17');
INSERT INTO student8 VALUES ('1bm18cs003','c','sr','27-NOV-93');
```

```
INSERT INTO student8 VALUES ('1bm18cs004','d','sr','13-APR-93');
INSERT INTO student8 VALUES ('1bm18cs005','e','jr','24-AUG-94');
INSERT INTO course VALUES (111,'OS','CSE');
INSERT INTO course VALUES (112, 'EC', 'CSE');
INSERT INTO course VALUES (113,'SS','ISE'):
INSERT INTO course VALUES (114,'DBMS','CSE');
INSERT INTO course VALUES (115, 'SIGNALS', 'ECE');
INSERT INTO text VALUES (10, 'DATABASE SYSTEMS', 'PEARSON', 'SCHIELD');
INSERT INTO text VALUES (900, 'OPERATING SYS', 'PEARSON', 'LELAND');
INSERT INTO text VALUES (901, 'CIRCUITS', 'HALL INDIA', 'BOB');
INSERT INTO text VALUES (902, SYSTEM SOFTWARE', PETERSON', JACOB');
INSERT INTO text VALUES (903, 'SCHEDULING', 'PEARSON', 'PATIL');
INSERT INTO text VALUES (904, 'DATABASE SYSTEMS', 'PEARSON', 'JACOB');
INSERT INTO text VALUES (905, 'DATABASE MANAGER', 'PEARSON', 'BOB');
INSERT INTO text VALUES (906, 'SIGNALS', 'HALL INDIA', 'SUMIT');
INSERT INTO enroll VALUES ('1bm18cs001',115,3,100);
INSERT INTO enroll VALUES('1bm18cs002',114,5,100);
INSERT INTO enroll VALUES('1bm18cs003',113,5,100);
INSERT INTO enroll VALUES('1bm18cs004',111,5,100);
INSERT INTO enroll VALUES('1bm18cs005',112,3,100);
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);
INSERT INTO book_adoption VALUES (112,5,906);
select * from student8;
select * from course;
select * from text;
select * from enroll;
select * from book_adoption;
SELECT c.course no,t.book isbn,t.book title
  FROM course c,book_adoption ba,text t
  WHERE c.course_no=ba.course_no
  AND ba.book isbn=t.book isbn
  AND c.dept='CSE'
  AND 2<( SELECT COUNT(book isbn)
  FROM book_adoption b
  WHERE c.course_no=b.course_no)
```

# ORDER BY t.book\_title;

SELECT DISTINCT c.dept

FROM course c

WHERE c.dept IN

( SELECT c.dept

FROM course c,book\_adoption b,text t

WHERE c.course\_no=b.course\_no

 $AND \ t.book\_isbn=b.book\_isbn$ 

AND t.publisher='PEARSON')

AND c.dept IN

(SELECT c.dept

FROM course c,book\_adoption b,text t

WHERE c.course\_no=b.course\_no

AND t.book\_isbn=b.book\_isbn

AND t.publisher != 'PEARSON');

# **OUTPUT:**

## **TABLES:**

## Student:

	∯ REGNO	NAME		⊕ BDATE
1	1bm18cs002	b	sr	01-06-17
2	1bm18cs003	С	sr	27-11-93
3	1bm18cs004	d	sr	13-04-93
4	1bm18cs005	e	jr	24-08-94
5	1bm18cs001	a	sr	09-12-17

#### Course:

	COURSE_NO		
1	111	0S	CSE
2	112	EC	CSE
3	113	SS	ISE
4	114	DBMS	CSE
5	115	SIGNALS	ECE

#### Enroll:

	REGNO	COURSE_NO	∯ SEM	∯ MARKS
1	1bm18cs002	114	5	100
2	1bm18cs003	113	5	100
3	1bm18cs004	111	5	100
4	1bm18cs005	112	3	100
5	1bm18cs001	115	3	100

Text: Book Adoption:

	∯ BOOK_ISBN	BOOK_TITLE	A PUBLISHER	∯ AUTHOR		COURSE_NO	∯ SEM	BOOK_ISBN
1	· -	DATABASE SYSTEMS	4	SCHIELD	1	111	5	900
2	900	OPERATING SYS	PEARSON	LELAND	2	111	5	903
3	901	CIRCUITS	HALL INDIA	B0B	3	111	5	904
4	902	SYSTEM SOFTWARE	PETERSON	JACOB	4	112	3	901
5	903	SCHEDULING	PEARSON	PATIL	5	113	3	10
6	904	DATABASE SYSTEMS	PEARSON	JACOB	6	114	5	905
7	VE-200	DATABASE MANAGER		BOB	7	113	5	902
8	906	SIGNALS	HALL INDIA	SUMIT	8	115	3	906

# QUERY:

1] 2]

	⊕ COURSE_NO	⊕ BOOK_ISBN	⊕ BOOK_TITLE
1	111	904	DATABASE SYSTEMS
2	111	900	OPERATING SYS
3	111	903	SCHEDULING

	DEPT
1	CSE
2	ISE