```
create database student_enrollment;
use student_enrollment;
CREATE TABLE student(
    regno VARCHAR(15),
    name VARCHAR(20),
    major VARCHAR(20),
    bdate DATE,
    PRIMARY KEY (regno) );

    CREATE TABLE course(
    courseno INT,
    cname VARCHAR(20),
    dept VARCHAR(20),
    PRIMARY KEY (courseno) );

    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) );

     CREATE TABLE text(
    book_isbn INT(5),
```

```
    book_title VARCHAR(20),
    publisher VARCHAR(20),
    author VARCHAR(20),
    PRIMARY KEY (book_isbn) );

    CREATE TABLE book_adoption(
    courseno INT,
    sem INT(3),
    book_isbn INT(5),
    PRIMARY KEY (courseno,book_isbn),
    FOREIGN KEY (courseno) REFERENCES course (courseno) on update
cascade,
    FOREIGN KEY (book_isbn) REFERENCES text(book_isbn)on update cascade
);

    INSERT INTO student (regno,name,major,bdate) VALUES
    ('1pe11cs002','b','sr','19930924'),
    ('1pe11cs003','c','sr','19931127'),
    ('1pe11cs004','d','sr','19930413'),
    ('1pe11cs005','e','jr','19940824');

    INSERT INTO course VALUES (111,'OS','CSE'),
    (112,'EC','CSE'),
    (113,'SS','ISE'),
    (114,'DBMS','CSE'),
    (115,'SIGNALS','ECE');
```

```
INSERT INTO text  (book_isbn,book_title,publisher,author)VALUES
(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;
INSERT INTO enroll (regno,courseno,sem,marks) VALUES
('1pe11cs002',114,5,100),
('1pe11cs003',113,5,100),
('1pe11cs004',111,5,100),
('1pe11cs005',112,3,100);

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);
```

```
DELETE FROM TEXT WHERE BOOK_ISBN=23;
 INSERT INTO text  (book_isbn,book_title,publisher,author)VALUES
    (23,'ADA','PEARSON','SCHIELD');

 INSERT INTO book_adoption (courseno,sem,book_isbn) VALUES
(111,5,23);
SELECT * FROM BOOK_ADOPTION;

SELECT c.courseno,t.book_isbn,t.book_title
    FROM course c,book_adoption ba,text 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;

 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='PEARSON')
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 != 'PEARSON');
```

TABLES:

```
62 •    select * from BOOK_ADOPTION;
```

Result Grid | Filter Rows: | Edit:

courseno	sem	book_isbn
111	5	900
111	5	903
111	5	904
112	3	901
113	3	10

```
114 •  select  * from ENROLL;
```

Result Grid | Filter Rows:

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

```
113 •  select * from course;
114 •  select  * from text;
```

Result Grid | Filter Rows: | Edit:

book_isbn	book_title	publisher	author
10	DATABASE SYSTEMS	PEARSON	SCHIELD
23	ADA	PEARSON	SCHIELD
900	OPERATING SYS	PEARSON	LELAND
901	CIRCUITS	HALL INDIA	BOB
902	SYSTEM SOFTWARE	PETERSON	JACOB

```
113 •  select * from course;
```

Result Grid | Filter Rows:

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

```
111
112 •  select * from book_adoption;
```

Result Grid | Filter Rows: | Edit:

courseno	sem	book_isbn
111	5	23
111	5	900
111	5	903
111	5	904
112	3	901

QUERIES:

1.

```
79 •  INSERT INTO text  (book_isbn,book_title,publisher,author)VALUES
80        (23,'ADA','PEARSON','SCHIELD');
81
82 •  INSERT INTO book_adoption (courseno,sem,book_isbn) VALUES
83    (111,5,23);
84 •  SELECT * FROM BOOK_ADOPTION;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | W

courseno	sem	book_isbn
111	5	23
111	5	900
111	5	903
111	5	904
112	3	901

BOOK_ADOPTION 5 ×

2.

```
86  SELECT c.courseno,t.book_isbn,t.book_title
87      FROM course c,book_adoption ba,text t
88      WHERE c.courseno=ba.courseno
89      AND ba.book_isbn=t.book_isbn
90      AND c.dept='CSE'
91      AND 2<(
92      SELECT COUNT(book_isbn)
93      FROM book_adoption b
94      WHERE c.courseno=b.courseno)
95      ORDER BY t.book_title;
```

Result Grid | Filter Rows: | Export: | Wrap

courseno	book_isbn	book_title
111	23	ADA
111	904	DATABASE SYSTEMS
111	900	OPERATING SYS
111	903	SCHEDULING

3.

```
97  SELECT DISTINCT c.dept
98      FROM course c
99      WHERE c.dept IN
100     ( SELECT c.dept
101     FROM course c,book_adoption b,text t
102     WHERE c.courseno=b.courseno
103     AND t.book_isbn=b.book_isbn
104     AND t.publisher='PEARSON')
105     AND c.dept NOT IN
106     (SELECT c.dept
107     FROM course c,book_adoption b,text t
108     WHERE c.courseno=b.courseno
109     AND t.book_isbn=b.book_isbn
110     AND t.publisher != 'PEARSON');
```

Result Grid | Filter Rows: | Export: | Wrap Cell Co

dept
CSE
ISE
ECE

course 38