```
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

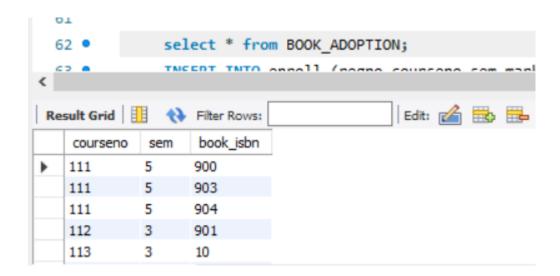
FROM course c,book_adoption b,text t

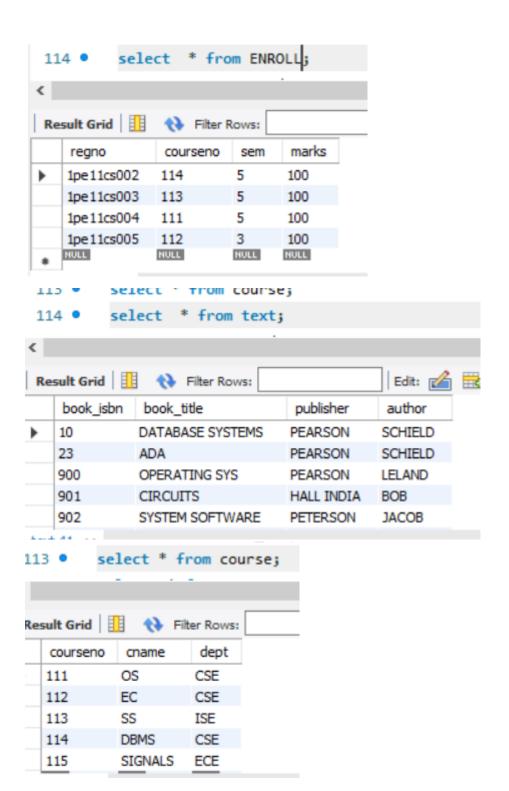
WHERE c.courseno=b.courseno

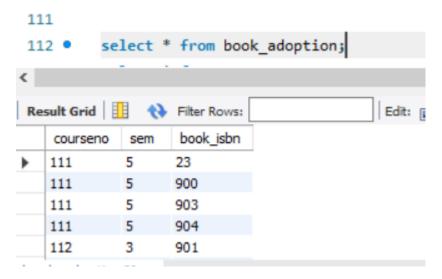
AND t.book_isbn=b.book_isbn

AND t.publisher != 'PEARSON');

TABLES:

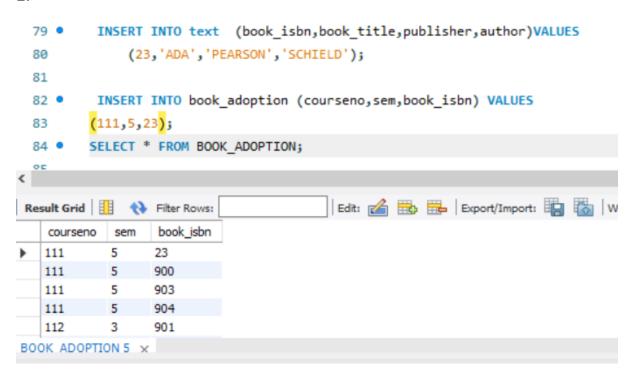






QUERIES:

1.



2.

```
86
           SELECT c.courseno,t.book_isbn,t.book_title
87
                FROM course c,book_adoption ba,text t
1
   88
                 WHERE c.courseno=ba.courseno
                 AND ba.book_isbn=t.book_isbn
   89
   90
                 AND c.dept='CSE'
   91
                 AND 2<(
   92
                 SELECT COUNT(book_isbn)
                 FROM book_adoption b
   93
    94
                 WHERE c.courseno=b.courseno)
    95
                 ORDER BY t.book_title;
                                             Export: Wrap
 Result Grid 🔢 🙌 Filter Rows:
      courseno
              book_isbn
                         book_title
     111
              23
                        ADA
                       DATABASE SYSTEMS
     111
              904
                        OPERATING SYS
     111
              900
     111
              903
                        SCHEDULING
```

3.

```
SELECT DISTINCT c.dept
 98
             FROM course c
             WHERE c.dept IN
 99
             ( SELECT c.dept
100
101
             FROM course c,book_adoption b,text t
             WHERE c.courseno=b.courseno
102
             AND t.book_isbn=b.book_isbn
103
             AND t.publisher='PEARSON')
104
             AND c.dept NOT IN
105
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');
                                       Export: Wrap Cell Co
dept
   CSE
   ISE
  ECE
course 38 ×
```