# **LAB 8:**

# STUDENT DATABASE

```
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 2<( SELECT COUNT(book_isbn)
                                                         FROM
AND c.dept='CSE'
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
        FROM course c,book adoption b,text t
                                              WHERE
c.course no=b.course no
                          AND t.book isbn=b.book isbn
                                                         AND
```

AND c.dept IN

(SELECT c.dept

FROM course

t.publisher='PEARSON')

c,book\_adoption b,text t t.book\_isbn=b.book\_isbn

# WHERE c.course\_no=b.course\_no AND t.publisher != 'PEARSON');

# OUTPUT:

# Student:

	REGNO	♦ NAME		<b>⊕</b> 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		() DEPT
1	111	0S	CSE
2	112	EC	CSE
3	113	SS	ISE
4	114	DBMS	CSE
5	115	SIGNALS	ECE

AND

# Enroll:

		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	<b>⊕</b> AUTHOR	0	COURSE_NO	SEM	BOOK_ISBN
1	10 DATABAS	E SYSTEMS	PEARSON	SCHIELD	1	111	5	900
2	900 OPERATI	NG SYS	PEARSON	LELAND	2	111	5	903
3	901 CIRCUIT	rs	HALL INDIA	BOB	3	111	5	904
4	902 SYSTEM	SOFTWARE	PETERSON	JACOB	4	112	3	901
5	903 SCHEDUI	ING	PEARSON	PATIL	5	113	3	10
6	904 DATABAS		PEARSON	JACOB	6	114	5	905
7	905 DATABAS			BOB	7	113	5	902
8	906 SIGNALS		HALL INDIA	ALCON DO COMPANY	8	115	3	906

# QUERY:

1]

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

2]

	() DEPT
1	CSE
2	ISE