|  |
| --- |
| 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), |
|  | courseno INT, |
|  | sem INT, |
|  | marks INT, |
|  | PRIMARY 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; |
|  |  |
|  | 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; |
|  |  |
|  | 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; |
|  |  |
|  | 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; |
|  |  |
|  | 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; |
|  |  |
|  | 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; |
|  |  |
|  | 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; |
|  |  |
|  | 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'); |