Q.1 Create a database having two tables with the specified fields, to computerize a library system of a Delhi University College.

LibraryBooks (Accession number, Title, Author, Department, PurchaseDate, Price) 10

IssuedBooks (Accession number, Borrower)

- a) Identify primary and foreign keys. Create the tables and insert at least 5 records in each table.
- b) Delete the record of book titled "Database System Concepts".
- c) Change the Department of the book titled "Discrete Maths" to "CS".
- d) List all books that belong to "CS" department.
- e) List all books that belong to "CS" department and are written by author "Navathe".
- f) List all computer (Department = "CS") that have been issued.
- g) List all books which have a price less than 500 or purchased between "01/01/1999" and "01/01/2004".

ANSWER 1 create database db; use db;

create table LibraryBooks(
Accession_number int(10) primary key,
Title varchar(40) not null,
Author varchar(20) not null,
Department varchar(15) not null,
PurchaseDate date,
Price int(10));

create table IssuedBooks(
Accession_number int(10) not null,
Borrower varchar(30),
foreign key(Accession_number) references LibraryBooks(Accession_number));

(a) Accession_number is the primary key for table LibraryBooks and it is the foreign key for table Issued books.

insert into LibraryBooks(1027,"Database System Concepts","Ankit ","CS",'2015-02-26',450); insert into LibraryBooks(5468,"Discrete Maths","Mohit Sharma",Science",'2005-03-28',880); insert into LibraryBooks(8234,"Trigonometry","SL Loney","Mathematics",'2010-12-08',490)

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insert into LibraryBooks(8886,"Neural Networks","Navathe","CS",'2018-11-18',1150);
insert into LibraryBooks(7796,"Panchatantra","Vishnu Sharma","Hindi",'2000-11-02',150);
insert into LibraryBooks(5048,"Rich Dad Poor Dad","Robert T
Kiyosaki", "Finance", '2012-11-02', 200);
insert into LibraryBooks(8236,"Advanced
Matrices", Navathe", Mathematics", '2002-11-20', 2150);
insert into LibraryBooks(2132,"Physics","HC Verma","CS",'2001-10-26',450);
insert into LibraryBooks(1897,"Cloud Computing","Navathe","CS",'2011-12-01',2450);
insert into LibraryBooks(1556,"Matrices","SC Gupta ","mathematics",'2010-12-10',350);
insert into IssuedBooks values(1234,"kishor");
insert into IssuedBooks values(1556,"sonu Singh");
insert into IssuedBooks values(8856,"Ankit dalal");
insert into IssuedBooks values(5598,"Arpit");
insert into IssuedBooks values(1897, "sourav kumar");
(b)
set foreign key checks=Off;
delete from issuedbooks where accession number=21826.46;.
                                                                  delete from librarybooks
where title="Database System Concepts";.
                                             set foreign_key_checks=on;
(c) update Librarybooks
set Depatment="CS"
where Title="Discrete Maths";
(d) select * from librarybooks
where Department="CS";
(e) select * from librarybooks
where Department="CS" and Author="Navathe";
(f)
select * from LibraryBooks as L,IssuedBooks as I
where L.Department="CS" and L.Accession number=I.Accession number;
(g) select * from Librarybooks
where price < 500 and purchasedate between '1999-01-01' and '2004-01-01';
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