Q #1:

mysql> create database du\_library;

mysql> use du\_library;

mysql> create table LibraryBooks(

-> Accession\_Number decimal(10,5) primary key,

-> Title varchar(20) not null,

-> Author varchar(20) not null,

-> Department varchar(30) not null,

-> Purchase\_Date date not null,

-> Price decimal(7,2) not null);

mysql> Create table IssuedBooks(

-> Accession\_Number decimal(10,5) not null,

-> Borrower Varchar(30) not null

-> foreign key (Accession\_Number) references LibraryBooks(Accession\_Number));

Q (a)Primary Key- Accession\_Number in table LibraryBooks

Foreign Key- Accession\_Number in table IssuedBooks

mysql> insert into LibraryBooks values(51235.56,"Introduction to Matrices","Ehsan Karim","ECO",'1997-01-12',105.00);

mysql> insert into LibraryBooks values(21826.46,"Database System Concepts","Ashu Singh","CS",'2001/05/30',620.00);

mysql> insert into LibraryBooks values(121.4345,"Fundamental of History","Abhisake Kaim","History",'2005/03/31',550.00);

mysql> insert into LibraryBooks values(76389.4647,"Programing in R","Navathe","CS",'2002/07/21',499.00);

mysql> insert into LibraryBooks values(6737.84,"Discrete Maths","R. Kapoor","Mathematics",'1999/09/04',450.00);

mysql> insert into IssuedBooks values( 21826.46,"Rahul ");

mysql> insert into IssuedBooks values( 121.4345,"Sunam");

mysql> insert into IssuedBooks values( 6737.84,"Basanty");

mysql> insert into IssuedBooks values( 21826.46," gabar");

mysql> insert into IssuedBooks values( 76389.4647,"Newton");

Q(b) mysql> set foreign\_key\_checks=Off;

mysql> delete from issuedbooks where accession\_number=21826.46;

mysql> delete from librarybooks where title="Database System Concepts";

mysql> set foreign\_key\_checks=on;

Q(c) mysql> update librarybooks set department="CS" where title="discrete maths";

Q(d) mysql> select Title from librarybooks where department="CS";

Q(e) mysql> select Title from librarybooks where department="CS" and author="Ashu Singh";

Q(f) mysql> select Title from librarybooks l, issuedbooks i where l.accession\_number=i.accession\_number and l.department="CS";

Q(g) mysql> select Title from librarybooks where price<500 and purchase\_date between '1999/01/01' and '2004/01/01'; 2.