

Ques 1.

```
mysql> create database du_library;
```

```
mysql> create table LibraryBooks(  
    -> Accession_Number decimal(10,5) primary key,  
    -> Title varchar(30) not null,  
    -> Author varchar(50) not null,  
    -> Department varchar(50) 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));
```

(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","S.C. Gupta","Statistics",'1997-01-12',105.00);
```

```
mysql> insert into LibraryBooks values(21826.46,"Database System  
Concepts","Sumitra Arora","CS",'2003/05/30',620.00);
```

```
mysql> insert into LibraryBooks values(121.4345,"Fundamental of  
Statistics","V.K. Kapoor","Statistics",'2002/03/31',550.00);
```

```
mysql> insert into LibraryBooks values(76389.4647,"Play with  
Python","Navathe","CS",'2002/06/21',499.00);
```

```
mysql> insert into LibraryBooks values(6737.84,"Discrete  
Maths","M.L.Aggrawal","Mathematics",'1999/08/04',450.00);
```

```
mysql> insert into IssuedBooks values( 21826.46,"Vinay Kumar Singh");  
mysql> insert into IssuedBooks values( 121.4345,"Vasav Choudhary");  
mysql> insert into IssuedBooks values( 6737.84,"Utkarsh mathur");  
mysql> insert into IssuedBooks values( 21826.46,"Aryan raghuvanshi");  
mysql> insert into IssuedBooks values( 76389.4647,"Jatin Choubey");
```

```
(b) mysql> set foreign_key_checks=Off;  
    mysql> delete from librarybooks where accession_number=21826.46;  
    mysql> delete from librarybooks where title="Database System  
Concepts";  
    mysql> set foreign_key_checks=on;
```

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

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

```
(e) mysql> select Title from librarybooks where department="CS" and  
author="navathe";
```

```
(f) mysql> select Title from librarybooks l, issuedbooks i where  
l.accession_number=i.accession_number and l.department="CS";
```

```
(g) mysql> select Title from librarybooks where price<500 and purchase_date  
between '1999/01/01' and '2004/01/01';
```