

Ques 2.

```
mysql> create database cs_student;
```

```
mysql> create table personal_informartion(  
    -> Roll_no int(10) primary key,  
    -> Name char(30) not null,  
    -> DOB date not null,  
    -> Address varchar(70) not null,  
    -> Marks_in_12th int(2) not null,  
    -> Phone_number Varchar(10) not null);
```

```
mysql> create table Paper_Details(  
    -> Paper_Code int(4) primary key,  
    -> NameofPaper char(30) unique);
```

```
mysql> create table Academic_Details(  
    -> Roll_no int(10) primary key,  
    -> Paper_code int(4) not null,  
    -> Attendance int(3) not null,  
    -> Marks int(3) not null,  
    -> foreign key(roll_no) references personal_informartion(roll_no),  
    -> foreign key(paper_code) references Paper_details(paper_code));
```

(a) Primary key - Roll_no in table personal_informartion
 Paper_code in table Paper_details
Foreign key - Roll_no in table Academic_Details
 Paper_code in table Academic_Details

```
mysql> insert into personal_informartion values(1240,"Vinay Kumar  
Singh",'2001-01-04',"UP",91,9102829875);
```

```
mysql> insert into personal_informartion values(1233,"Rohit  
Tiwari",'2001-04-29',"Uttarakhand",89,9748483743);
```

```
mysql> insert into personal_informartion  
values(1204,"Ankit",'2000-03-19',"Delhi",94,9837643368);
```

```
mysql> insert into personal_informartion values(1225,"Mohammad  
Mujtaba",'2001-09-21',"Uttar Pradesh",97,9637453672);
```

```
mysql> insert into personal_informartion values(1223,"Likhith  
Giri",'2001-11-09',"Delhi",92,9764563726);
```

```
mysql> insert into paper_details value(1,"Descriptive Statistics");
```

```
mysql> insert into paper_details value(2,"Environmental Studies");
```

```
mysql> insert into paper_details value(3,"Algebra");
```

```
mysql> insert into paper_details value(4,"Introduction to Matrices");
```

```
mysql> insert into paper_details value(5,"Database management system");
```

```
mysql> insert into Academic_details values(1240,2,80,70);
```

```
mysql> insert into Academic_details values(1233,2,70,90);
```

```
mysql> insert into Academic_details values(1204,2,65,91);
```

```
mysql> insert into Academic_details values(1225,2,65,91);
```

```
mysql> insert into Academic_details values(1223,1,75,65);
```

(b) mysql> select pd.paper_code, pd.nameofpaper, pi.name from paper_details
as pd, personal_informartion as pi where paper_code=2 and pi.roll_no
in(select roll_no from academic_details where paper_code=2 and
attendance>75 and marks>60);

(c) mysql> select name from personal_informartion as pi, academic_details
as ad where pi.roll_no=ad.roll_no and ad.marks>60 and ad.paper_code=1;

```
(d) mysql> select pi.name, ad.attendence, ad.marks from  
personal_informartion as pi, academic_details as ad where  
pi.roll_no=ad.roll_no;
```

```
(e) mysql> select name from personal_informartion as pi, academic_details  
as ad where pi.roll_no=ad.roll_no and pi.roll_no=(select roll_no from  
academic_details where marks=(select max(marks) from academic_details));
```