2.

mysql> create database cs\_student;

mysql> create table personal\_information(

    -> 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,

    -> Attendence int(3) not null,

    -> Marks int(3) not null,

    -> foreign key(roll\_no) references personal\_information(roll\_no),

    -> foreign key(paper\_code) references Paper\_details(paper\_code));

Q (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\_information values(1202,"Kunal Joshi",'2001-06-08',"Delhi",91,9102252875);

mysql> insert into personal\_information values(1207,"Tushar Bansal",'2001-05-19',"Uttarakhand",89,9749152743);

mysql> insert into personal\_information values(1209,"Bhawna Yadav",'2000-03-19',"Delhi",94,9837645438);

mysql> insert into personal\_information values(1211,"Khushi Tiwari",'2001-03-03',"Uttar Pradesh",97,9631623672);

mysql> insert into personal\_information values(1216,"Ramesh Kumar",'2001-08-17',"Delhi",92,9876563726);

mysql> insert into paper\_details value(1,"Descriptive Statistics");

mysql> insert into paper\_details value(2,"English Communication");

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(1202,2,80,60);

mysql> insert into Academic\_details values(1207,2,60,90);

mysql> insert into Academic\_details values(1209,2,75,92);

mysql> insert into Academic\_details values(1211,2,75,92);

mysql> insert into Academic\_details values(1216,1,85,65);

Q(b) mysql> select pd.paper\_code, pd.nameofpaper, pi.name from paper\_details as pd, personal\_information as pi where paper\_code=2 and pi.roll\_no in(select roll\_no from academic\_details where paper\_code=2 and attendence>75 and marks>60);

Q (c) mysql> select name from personal\_information as pi, academic\_details as ad where pi.roll\_no=ad.roll\_no and ad.marks>60 and ad.paper\_code=1 and pi.Address="Delhi";

Q (d) mysql> select pi.name, ad.attendence, ad.marks from personal\_information as pi, academic\_details as ad where pi.roll\_no=ad.roll\_no;

Q (e) mysql> select name from personal\_information 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));