Q #2:

mysql> create database cs\_student;

mysql> use 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(1201,"Amit shah",'2001-01-04',"Delhi",91,9102829875);

mysql> insert into personal\_information values(1205,"Anuj Joshi",'2001-04-29',"Uttarakhand",89,9748483743);

mysql> insert into personal\_information values(1209," AB agrwal",'2000-03-19',"Delhi",94,9837643368);

mysql> insert into personal\_information values(1214,"Ishani",'2001-09-21',"Uttar Pradesh",97,9637453672);

mysql> insert into personal\_information values(1219,"Poonam bhatia",'2001-11-09',"Delhi",92,9764563726);

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(1201,2,80,70);

mysql> insert into Academic\_details values(1205,2,70,90);

mysql> insert into Academic\_details values(1214,2,65,91);

mysql> insert into Academic\_details values(1214,2,65,91);

mysql> insert into Academic\_details values(1219,1,75,65);

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));