**CREATION OF DATABASE:**

create database bloodbank;

**CREATION TO TABLES:**

1.create table blood(

bgtype varchar(5) primary key);

2.create table bb(

bbid varchar(5) primary key,

bname varchar(10));

3.create table hospital(

hid varchar(5) primary key,

hname varchar(10),

address varchar(10),

contact varchar(10),

bbid varchar(5));

4.create table doctor(

did varchar(5) primary key,

dname varchar(10),

phno varchar(10),

hid varchar(5),

specialisation varchar(20));

5. create table bb\_availablity(

bgtype varchar(5),

bbid varchar(5),

availability int,

primary key(bgtype, bbid));

6.create table donor(

doid varchar(5) primary key,

dname varchar(10),

age int,

weight varchar(5),

check(weight > 50),

phno varchar(10),

dobg varchar(5),

bbid varchar(5));

7.create table patient(

pid varchar(5) primary key,

pname varchar(10),

age int,

gender varchar(6),

phno varchar(10),

address varchar(10),

pbg varchar(5),

did varchar(5),

hid varchar(5));

**ALTERING TABLE CONTENT:**

1.alter table patient

add foreign key(did) references doctor(did) on delete set null;

2.alter table patient

add foreign key(hid) references hospital(hid) on delete set null;

3.alter table donor

add foreign key(bbid) references bb(bbid) on delete set null;

4.alter table bb\_availablity

add foreign key(bbid) references bb(did) on delete set null;

5.alter table doctor

add foreign key(hid) references hospital(hid) on delete set null;

**INSERTION OF VALUES TO TABLE:**

1.insert into blood values('0+');

insert into blood values('0-');

insert into blood values('A+');

insert into blood values('A-');

insert into blood values('B+');

insert into blood values('B-');

insert into blood values('AB+');

insert into blood values('AB-');

2.insert into bb values('BB1','Victoria');

insert into bb values('BB2','Lion');

insert into bb values('BB3','BGS');

3. insert into bb\_availablity values('AB+','BB1','4440');

insert into bb\_availablity values('A+','BB1','5760');

insert into bb\_availablity values('A-','BB1','7860');

insert into bb\_availablity values('O+','BB1','3680');

insert into bb\_availablity values('O-','BB1','2280');

insert into bb\_availablity values('B+','BB1','2780');

insert into bb\_availablity values('B-','BB1','3980');

insert into bb\_availablity values('AB-','BB1','7640');

insert into bb\_availablity values('B+','BB2','2900');

insert into bb\_availablity values('O-','BB3','500');

insert into bb\_availablity values('A-','BB2','5050');

4.insert into hospital values('H1','Victoria','Bangalore','6252121444','BB1');

insert into hospital values('H2','BGS','Bangalore','6468365735','BB2');

insert into hospital values('H3','Lotus','Hubli','5375297364','BB1');

insert into hospital values('H4','Ramaiah','Mangalore','5343745385','BB3');

insert into hospital values('H5','Sparse','Mysuru','4753797946','BB2');

5.insert into doctor values('D1','Udhay','3556643487','H2','Cardiologist');

insert into doctor values('D2','Akshara','7547534685','H5','Gynecologist');

insert into doctor values('D3','Vinay','5375873464','H3','Orthopedic');

insert into doctor values('D4','Vishwas','5353756527','H4','Neurologist');

insert into doctor values('D5','Chirag','5358570987','H1','Cardiologist');

6.insert into donor values('DO1','Keerthana','40','52','4357974537','AB+','BB1');

insert into donor values('DO2','Sowmya','20','59','5765893290','B+','BB2');

insert into donor values('DO3','Pallavi','38','68','4357832686','B+','BB2');

insert into donor values('DO4','Puneet','24','69','3568743567','O+','BB1');

insert into donor values('DO5','Praveen','32','72','4532665564','B+','BB1');

7.insert into patient values('P1','Akshay','21','M','4376983567','Bengaluru','O+','D5','H1');

insert into patient values('P2','Akash','34','M','5467586853','Bengaluru','A+','D5','H1');

insert into patient values('P3','Abhay','48','M','4735798635','Mangalore','AB-','D3','H4');

insert into patient values('P4','Sunil','27','M','4736580897','Mysuru','O-','D4','H5');

insert into patient values('P5','Sudha','17','F','4625788696','Hubli','B-','D2','H3');