**Source code Blood Bank Information Management System**

1. **Tbl\_user**

CREATE TABLE tbl\_user(

user\_id int primary key ,

username varchar(30) NOT NULL,

contact varchar(15) NOT NULL,

user\_category\_id int NOT NULL,

status int NOT NULL

);desc tbl\_user

insert into tbl\_user values(10001,'ankul Saini',6395198549, '10BLD01',1,'abc123');

insert into tbl\_user values(10002,'chetna',9519854925, '10BLD02',0,'abc1252');

insert into tbl\_user values(10003,'Aditya',9786542143, '10BLD03',1,'abc1232');

insert into tbl\_user values(10004,'Deepak',8965214577, '10BLD04',1,'abc1236');

insert into tbl\_user values(10005,'Anuj',6395198540, '10BLD05',1,'abc1237');

insert into tbl\_user values(10006,'Divya',6395198559, '10BLD06',0,'abc12360');

insert into tbl\_user values(10007,'Taran',6395198569, '10BLD07',1,'abc1238');

insert into tbl\_user values(10008,'Priya',6395198589, '10BLD08',1,'abc12311');

insert into tbl\_user values(10009,'Dipanshu',6395178549, '10BLD09',0,'abc12355');

insert into tbl\_user values(10010,'Tannu',6395194549, '10BLD10',1,'abc12363');

alter table tbl\_user modify contact number;

alter table tbl\_user rename column blood\_category\_id to user\_category\_id;

alter table tbl\_user add password varchar(10) not null;

alter table tbl\_user modify user\_category\_id varchar(10);

select \* from tbl\_user

1. **tbl\_blood\_group**

CREATE TABLE tbl\_blood\_group(

blood\_group\_id int primary key,

blood\_group\_name varchar(5) NOT NULL,

user\_id int NOT NULL

);

alter table tbl\_blood\_group add foreign key (user\_id) references tbl\_user(user\_id);

desc tbl\_blood\_group

alter table tbl\_blood\_group modify blood\_group\_id int

insert into tbl\_blood\_group values(01,'O-ve',10001)

insert into tbl\_blood\_group values(02,'o-ve',10002)

insert into tbl\_blood\_group values(03,'A-ve',10003)

insert into tbl\_blood\_group values(04,'O+ve',10004)

insert into tbl\_blood\_group values(05,'AB',10005)

insert into tbl\_blood\_group values(06,'B-ve',10006)

insert into tbl\_blood\_group values(07,'O-ve',10007)

insert into tbl\_blood\_group values(08,'O+ve',10008)

insert into tbl\_blood\_group values(09,'O+ve',10009)

insert into tbl\_blood\_group values(10,'A+ve',10010)

select \* from tbl\_blood\_group

1. **tbl\_donor**

CREATE TABLE tbl\_donor(

donor\_id int primary key,

donor\_complete\_name varchar(30) NOT NULL,

blood\_group\_id int NOT NULL,

address varchar(50) NOT NULL,

contact varchar(15) NOT NULL,

age int NOT NULL,

user\_id int NOT NULL

);

alter table tbl\_donor add gender varchar(20) not null;

alter table tbl\_donor add foreign key (user\_id) references tbl\_user(user\_id);

insert into tbl\_donor values(2301,'Ankul Saini',01,'uk',6395198549,23,10001,'Male');

insert into tbl\_donor values(2302,'Taran',07,'rajasthan',6395198569,20,10007,'Female');

insert into tbl\_donor values(2303,'Priya',08,'punjab',6395198589,26,10008,'Female');

insert into tbl\_donor values(2304,'Dipanshu',09,'uttarakhand',6395178549,35,10009,'male');

insert into tbl\_donor values(2305,'tannu',10,'Haryana',6395194549,28,10010,'Female');

select \* from tbl\_donor

1. **tbl\_recipient**

CREATE TABLE tbl\_recipient(

recipient\_id int primary key,

recipient\_complete\_name varchar(30) NOT NULL,

blood\_group\_id int NOT NULL,

address varchar(100) NOT NULL,

contact varchar(15) NOT NULL,

age int NOT NULL,

user\_id int NOT NULL,

gender varchar(10) NOT NULL

);

alter table tbl\_recipient add foreign key (user\_id) references tbl\_user(user\_id);

insert into tbl\_recipient values(1201,'Chetna',02,'Haryana',9519854925,24,10002,'Female');

insert into tbl\_recipient values(1203,'Aditya',03,'uk',9786542143,24,10003,'male');

insert into tbl\_recipient values(1204,'Deepak',04,'Mp',8965214577,24,10004,'male');

insert into tbl\_recipient values(1205,'Anuj',05,'mumbai',6395198540,24,10005,'male');

insert into tbl\_recipient values(1206,'Divya',06,'maharastra',6395198559,24,10006,'Female');

alter table tbl\_recipient add foreign key(blood\_group\_id) references tbl\_blood\_group(blood\_group\_id)

alter table tbl\_donor add gender varchar(20) not null;

desc tbl\_donor;

alter table tbl\_donor drop column gender;

create table blood\_collection (blood\_collection\_id int primary key,donor\_id int not null, blood\_group\_id int,hospital varchar(50),user\_id int, collection\_date date,foreign key (blood\_group\_id) references tbl\_blood\_group(blood\_group\_id),foreign key (user\_id)references tbl\_user(user\_id));

desc tbl\_blood\_group

1. **tbl\_blood\_request**

CREATE TABLE tbl\_blood\_request(

request\_id int primary key,

control\_number varchar(15) NOT NULL,

requested\_by varchar(30) NOT NULL,

recipient\_id int NOT NULL,

date\_of\_request date NOT NULL,

blood\_group\_id int,

foreign key(blood\_group\_id) references tbl\_blood\_group(blood\_group\_id),

no\_of\_bags int NOT NULL,

amount\_per\_bag float NOT NULL,

user\_id int NOT NULL,foreign key(user\_id) references tbl\_user(user\_id));

insert into tbl\_blood\_request values(1301,278569,'chetna',1201,to\_date('02-04-2001','dd-mm-yyyy'),02,5,200,10002);

insert into tbl\_blood\_request values(1302,278509,'Divya',1206,to\_date('02-04-2001','dd-mm-yyyy'),06,1,200,10006);

insert into tbl\_blood\_request values(1303,278509,'Deepak',1204,to\_date('06-04-2001','dd-mm-yyyy'),04,8,200,10004);

insert into tbl\_blood\_request values(1305,278509,'Anuj',1205,to\_date('08-04-2001','dd-mm-yyyy'),05,3,200,10005);

select \* from tbl\_blood\_request

1. **tbl\_blood\_issued**

CREATE TABLE tbl\_blood\_issued(

blood\_issue\_id int NOT NULL,

request\_id int NOT NULL,

issued\_by varchar(30) NOT NULL,

issued\_date date NOT NULL,

issued\_to varchar(30) NOT NULL,

amount\_paid float NOT NULL,

user\_id int NOT NULL,

foreign key(user\_id) references tbl\_user(user\_id)

);

alter table tbl\_blood\_issued add foreign key(request\_id) references tbl\_blood\_request(request\_id);

insert into tbl\_blood\_issued values(1101,1301,'Aditya',to\_date('03-04-2001','dd-mm-yyyy'),'Chetna',1000,10002);

select \* from tbl\_blood\_issued

insert into tbl\_blood\_issued values(1104,1302,'Taran',to\_date('02-04-2001','dd-mm-yyyy'),'Divya',200,10006);

insert into tbl\_blood\_issued values(1102,1303,'jay',to\_date('06-04-2001','dd-mm-yyyy'),'Deepak',1600,10004);

insert into tbl\_blood\_issued values(1103,1305,'kashish',to\_date('08-04-2001','dd-mm-yyyy'),'Anuj',600,10005);

delete from tbl\_blood\_issued where user\_id=10006

delete from tbl\_blood\_issued where user\_id=10004

alter table tbl\_blood\_issued modify request\_id int primary key

1. **blood\_collection**

table=blood\_collection

alter table blood\_collection add foreign key(blood\_group\_id) references tbl\_blood\_group(blood\_group\_id)

alter table blood\_collection add foreign key(donor\_id) references tbl\_donor(donor\_id)

insert into blood\_collection values(1401,2301,01,'Ivy Hospital',10001,to\_date('03-04-2001','dd-mm-yyyy'));

select \* from blood\_collection

insert into blood\_collection values(1402,2304,09,'Kvr\_Hospital',10009,to\_date('05-04-2001','dd-mm-yyyy'));

insert into blood\_collection values(1403,2305,10,'Kkr\_Hospital',10010,to\_date('06-04-2001','dd-mm-yyyy'));

insert into blood\_collection values(1404,2302,07,'Kkr\_Hospital',10007,to\_date('04-04-2001','dd-mm-yyyy'));

**performed query**

select user\_id, username, 'active' as status from tbl\_user where status = 1 union (select user\_id, username, 'inactive' as status from tbl\_user where status = 0);

select \* from tbl\_user

select \* from tbl\_donor

select \* from tbl\_recipient

select \* from tbl\_blood\_group

select \* from tbl\_blood\_issued

select \* from blood\_collection

select \* from tbl\_blood\_request

select request\_id from tbl\_blood\_request;

select count(distinct blood\_group\_name) from tbl\_blood\_group;

select \* from tbl\_user where username LIKE'a%';

select \* from tbl\_user where username LIKE'%a%';

select \* from tbl\_user where username LIKE'%n';

select \* from tbl\_user where username LIKE'\_a%';

select sum(amount\_paid) from tbl\_blood\_issued;

select max(amount\_paid) from tbl\_blood\_issued;

select min(amount\_paid) from tbl\_blood\_issued;

select \* from tbl\_user where username='anuj';

select count(recipient\_id) from tbl\_recipient;

select \* from tbl\_recipient where rownum<=3 order by recipient\_id desc

select \* from blood\_collection where rownum<=3 order by blood\_collection\_id;

select \* from blood\_collection order by blood\_collection\_id desc;

select tbl\_user.USERNAME,tbl\_donor.ADDRESS, tbl\_donor.GENDER from tbl\_user inner join tbl\_donor on tbl\_user.USER\_ID=tbl\_donor.USER\_ID;

select tbl\_user.USERNAME,tbl\_donor.ADDRESS, tbl\_donor.GENDER from tbl\_user full join tbl\_donor on tbl\_user.USER\_ID=tbl\_donor.USER\_ID;

select tbl\_user.USERNAME,tbl\_donor.ADDRESS, tbl\_donor.GENDER from tbl\_user full join tbl\_donor on tbl\_user.USER\_ID=tbl\_donor.USER\_ID;

select tbl\_user.USERNAME,tbl\_donor.ADDRESS, tbl\_donor.GENDER from tbl\_user left join tbl\_donor on tbl\_user.USER\_ID=tbl\_donor.USER\_ID;