



**Ahmedabad
University**

**CSE250 Database Management System and CSE251 Database Management
System Lab**

4th Sem B.Tech ICT

DBMS PROJECT REPORT

ORGAN DONATION AND TRANSPLANTATION

MANAGEMENT NETWORK SYSTEM

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DESCRIPTION OF PROJECT

- **Problem Statement:-**

Organ Transplantation is one of the major life-saving techniques utilized by medical professionals nowadays. It is the process in which an organ is removed from one body through surgery and placed in the body of a recipient who is in need of that, to replace a damaged or a missing organ. There are two types of persons involved in it: **Donors** and **Recipients**. They may be at the same location or organs may be transported from one location to another subject to distance, time and other risks.

For all this, a proper management system is essential. **Organ Donation And Transplantation Management Network System** plays a vital role in today's medical institutions which are responsible for the evaluation, testing, and procurement of organs for organ transplantation. The main goal of these organizations aims to identify the best candidates for the available organs and to coordinate it with the medical institutions and hospitals to decide on each organ recipient. They also conduct awareness programs for the importance of donating organs and also keeps the track record of all the transplantations carried to date.

This management and network system is a database management system that uses database technology to keep, construct, develop, maintain and manipulate various kinds of data about a person's donation or procurement of a particular organ. It maintains a comprehensive medical history and other critical

information like blood group, age, gender, location, etc, which can affect the donation process of every person(i.e. Both donor and recipient in the database design. In short, it contains all the data and statistical information regarding the network of organ donation and procurement of different patients and donors.

- **Motivation:-**

The motivation behind this project is a severe issue to be handled by the country. The situation of organ wastage is a major issue in our country and mostly in the case of heart. For this, it becomes utmost essential to have a centrally administered proper database of all patients, donors, and doctors in a well-formed way that can be processed easily. So, we aim to create a solution that effectively deals with the problems of finding donors and also providing statistical data of the transplants that can help the government to form better rules and regulations.

- **Flow and System Requirement Specification:-**

The flow first starts with the user. The user needs to register his data for either donating or receiving. Records of donors and patients are created when a person donates or procures an organ through a medical institution like hospitals. Personal Records may include some of the following information:-

1.Personal Information

2.Medical History

3.Allergies to any medicine (If any)

4.Medical Insurance (If any)

5.The need for an organ presently or donating after some duration

6.Medical Insurance of any private or government insurers specific.

7.Address of the user, City, State

8.User ID of Donor, Patient, Doctor

This record will help serve a variety of purposes and is critical to justify the proper functioning of the Organ Donation and Procurement Management Network System, especially in today's complicated health care environment in which we can see the world suffering through such global pandemics. These records provide statistical information regarding the number of organs needed and available at a particular point in time. It is essential for planning, evaluating and coordinating organ donation and procurement. Every user has an account that can only be registered by a government certified hospital, which will keep all the information as defined in the problem statement. Only Hospitals are eligible to request a donation or procurement transaction. Government organizations will keep a watch on the pairing of donors and patients and can approve a transplantation operation if all the rules are satisfied. Collecting Statistical Data through the history of Transplantation Transaction.

- **Technologies Used:-**

1. JAVA
2. ORACLE
3. SWING GUI
4. NETBEANS

ENTITY-RELATIONSHIP DIAGRAM

- ER ANALYSIS:-Identifying Entity Sets and Relationship Sets:-

A. Entity Sets:-

1) User1

- User ID
- Name
- Date Of Birth
- Medical Insurance
- Medical History
- Street
- City
- State

2) User Phone No.

- User ID
- Phone No.

3) Organization

- Organization ID
- Organization Name
- Location
- Government Approval

4) Doctor

- Doctor ID

- Doctor Name
- Department Name
- Organization ID

5) Patient

- Patient ID
- Organization Request
- Reason Of Procurement
- Doctor ID
- User ID

6) Donor

- Donor ID
- Organ Donated
- Reason/Cause Of Donation
- Organization ID
- User ID
- Temporary Booked Organ

7) Organ Available

- Organization ID
- Organization Name
- Donor ID

8) Transaction

- Patient_ID
- Organ_ID
- Donor_ID
- Date Of Transaction
- Status

9) Organization Phone No.

- Organization ID
- Phone No.

10) Doctor Phone No.

- Doctor ID
- Phone No

11) Organization Head

- Organization ID
- Employee ID
- Name
- Date Of Joining
- Term Length

12) Log

- Query Time
- Comments
- Newly Added

13) Login

- Username
- Password

14) Death Records

- Name
- Reason Of Death
- Medical History
- Medical Insurance
- City
- Street

- State
- Date Of Birth
- Donation Status
- Perspective

15) Recovery

- Timestamp
- Table Name
- Data

B. Relationship Sets:-

- 1. Donates** - The act of donation of an organ from a donor
 - Date - Date Of Donation
- 2. Procures** - The act of procuring/receiving an organ by the patient.
- 3. Transaction**
 - Date Of Transaction
 - Status - Whether the surgery was successful or not.
- 4. Organ Donated** - The organ donated by a donor, which is then stored in Organ available table.
- 5. Attended By** - The transplantation performed by doctor - procuring an organ from a donor and transplanting it to the patient by surgery.
- 6. Registers** - Donor is registered in which organization.
- 7. Works In** - The organization where the doctor is working.
- 8. Headed By** -The organization is headed by which person.

Tables and their Functional Dependencies :-

(Primary Key is highlighted in bold letters and Foreign Key is highlighted in Yellow)

1) **User1**(**User_ID**, Name, Date _of_birth, Medical_Insurance, Medical_History, Street, City, State)

FD={**User_ID** → Name, Date _of_birth, Medical Insurance, Medical History, Street, City, State}

2) User_phone_no(**User_ID**, phone_no)

FD={**User_ID** → phone_no}

{**User_ID**} is foreign key constraint

3) Patient(Patient_ID, organ_req, reason_of_procurement, **Doctor_ID**,

User_ID)

FD={Patient_ID, organ_req -> reason_of_procurement, Doctor_ID, User_ID}

{**User_ID**, **Doctor_ID**} are foreign key constraints

4) Donor(Donor_ID, organ_donated, reason_of_donation, **Organization_ID**, **User_ID**)

FD={Donor_ID, organ_donated -> reason_of_donation,

Organization_ID, User_ID}

{User_ID, Organization_ID} are foreign key constraints

5) Organ Available(Organ_ID,Organ_name, Donor_ID)

FD={Organ_ID -> Organ_name, Donor_ID}

{Donor_ID} is foreign key constraint

6) Transaction(Patient_ID, Organ_ID, Donor_ID,

Date_of_transaction,

Status)

FD={Patient_ID, Organ_ID -> Donor_ID, Date_of_transaction,

Status}

{Patient_ID, Donor_ID} are foreign key constraints

7) Organization(Organization_ID, Organization_name, Location,

Government_approved)

FD={Organization_ID -> Organization_name, Location,

Government_approved}

8) Organization_phone_no(Organization_ID, phone_no)

FD={Organization_ID -> phone_no}

{Organization_ID} are foreign key constraints

**9) Doctor(Doctor_ID, Doctor_name, Department_name,
Organization_id)**

FD={Doctor_ID -> Doctor_name, Organization_id}

{Organization_ID} is foreign key constraint

10) Doctor_phone_no(Doctor_ID, phone_no)

FD={Doctor_ID -> phone_no}

{Doctor_ID} is foreign key constraint

**11) Organization_head(Organization_ID, Employee_ID, Name,
Date_of_joining, Term_length)**

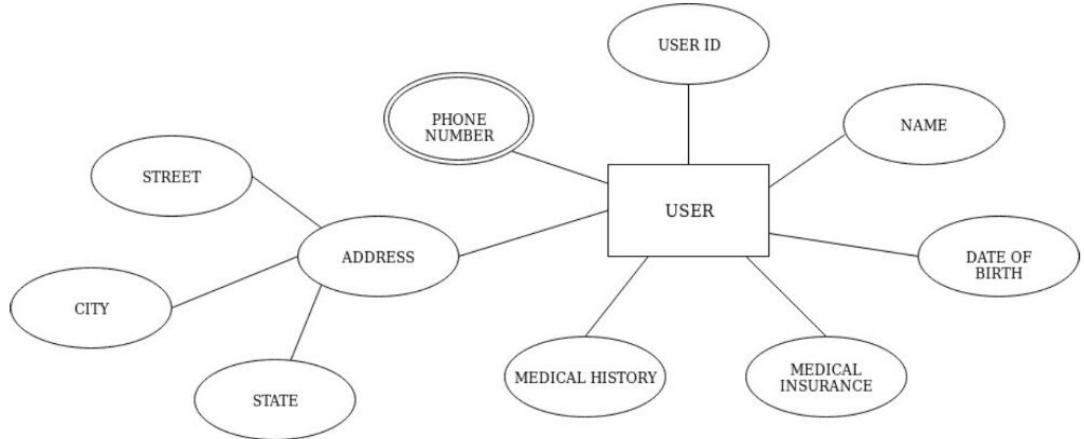
**FD={Organization_ID, Employee_ID -> Name, Date_of_joining,
Term_length}**

**12)Add_death_user(death_id,name,reason_of_death,medical_hi
story,medical_insurance,street,city,state,date_of_birth,donation_
status,perspective)**

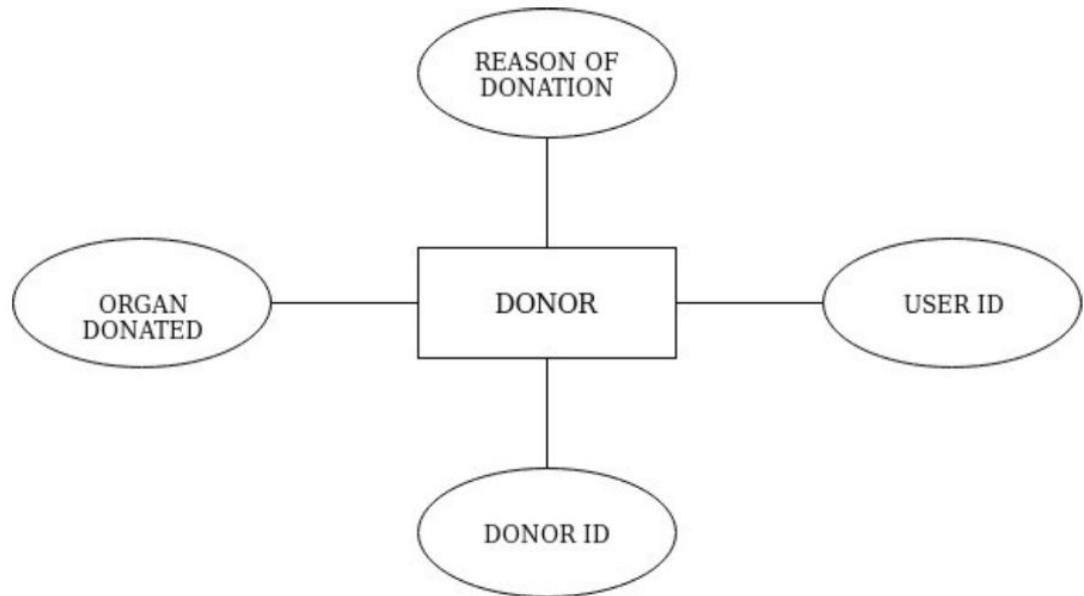
**FD={death_id ->
name,reason_of_death,medical_history,medical_insurance,street
,city,state,date_of_birth,donation_status,perspective}**

EACH ENTITY SETS:-

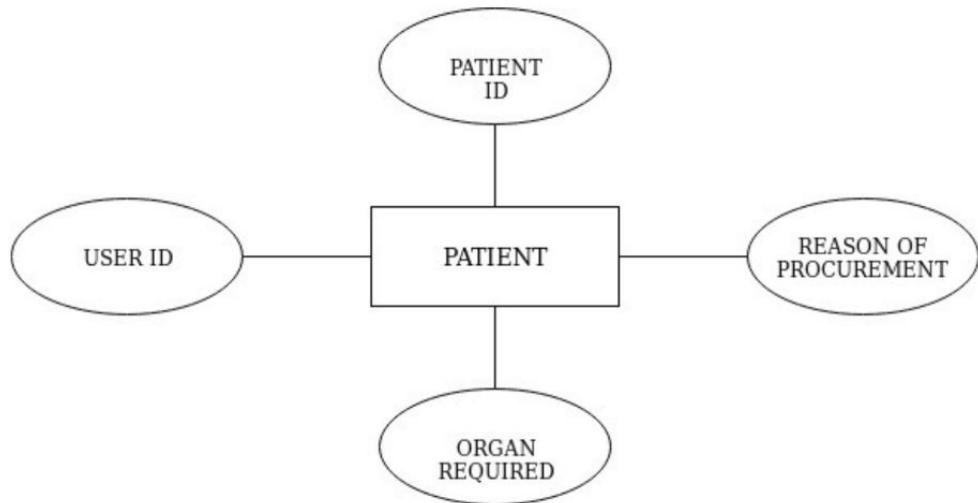
1) User -



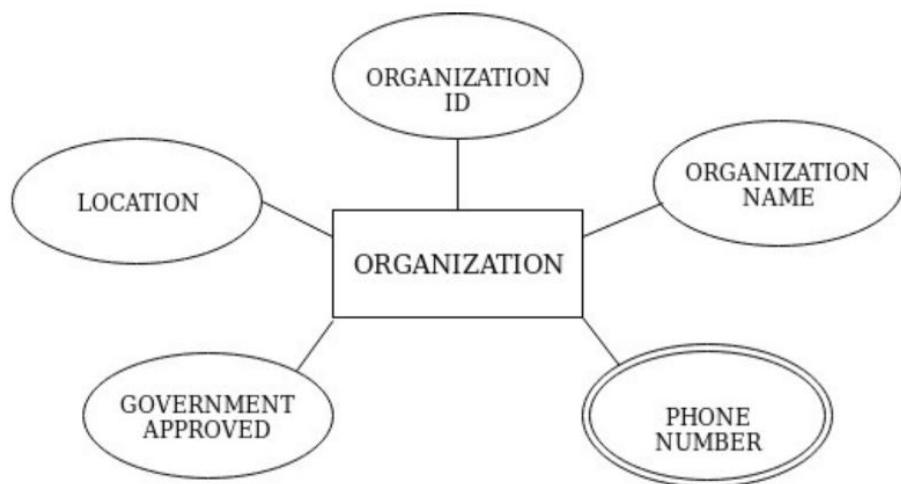
2) Donor



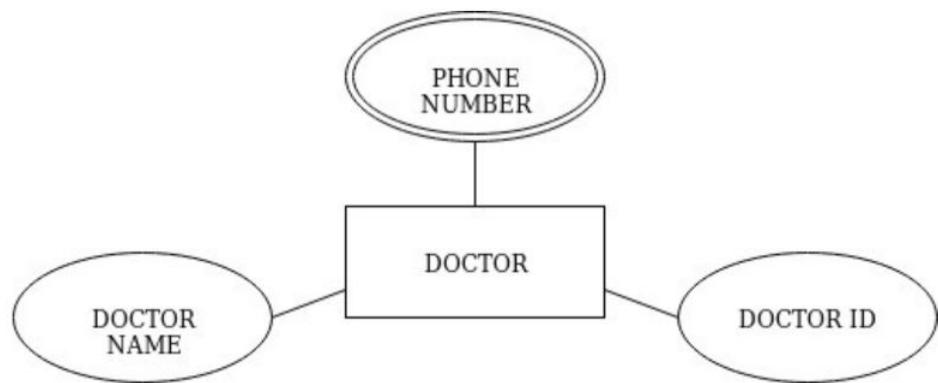
3) Patient



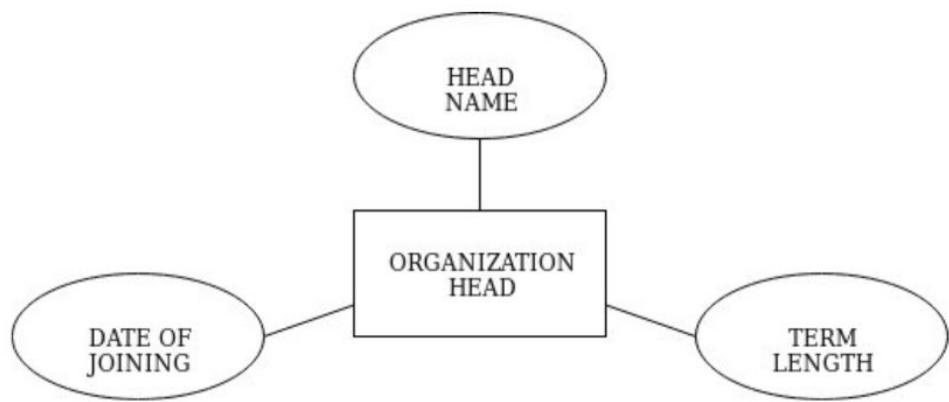
4) Organization



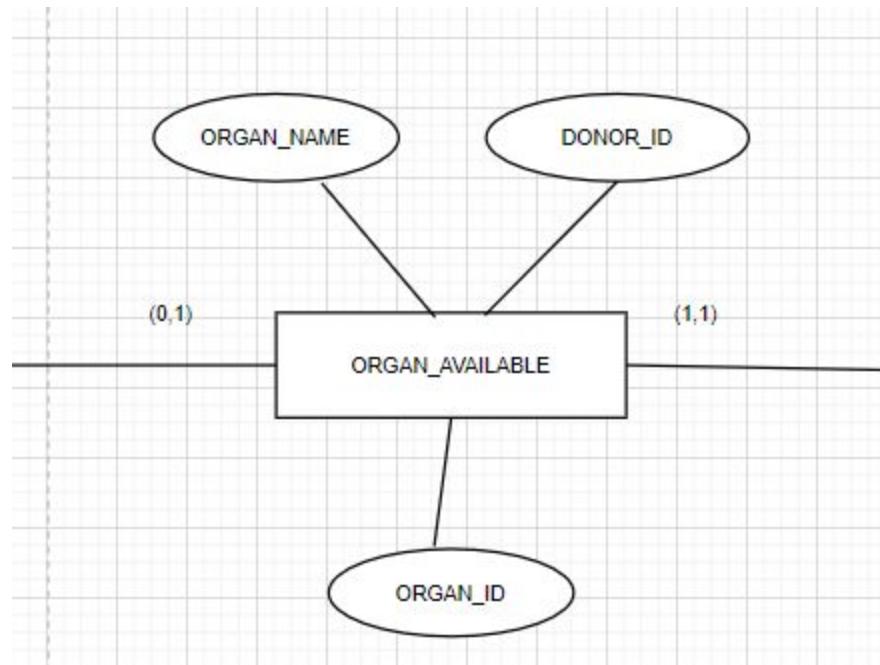
5) Doctor



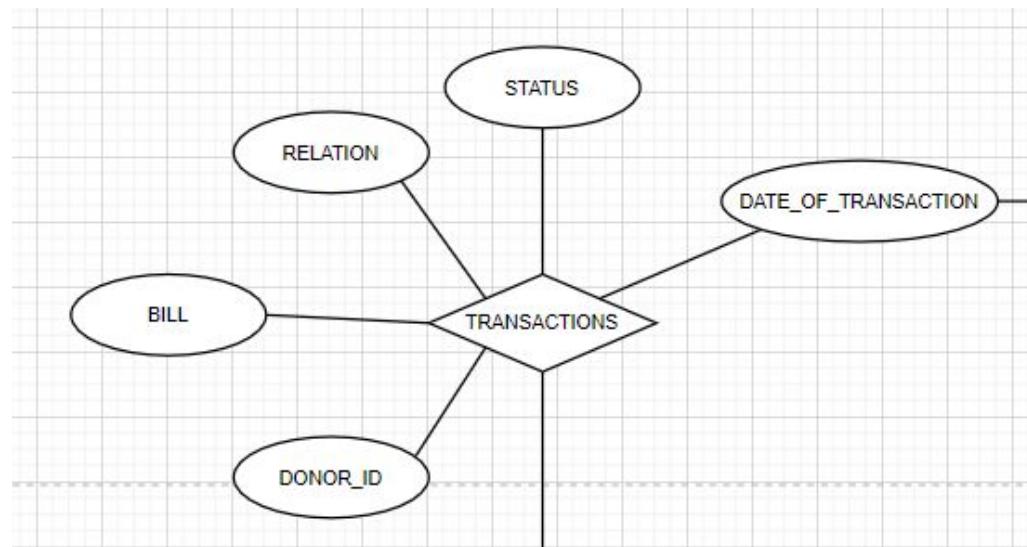
6) Organization Head



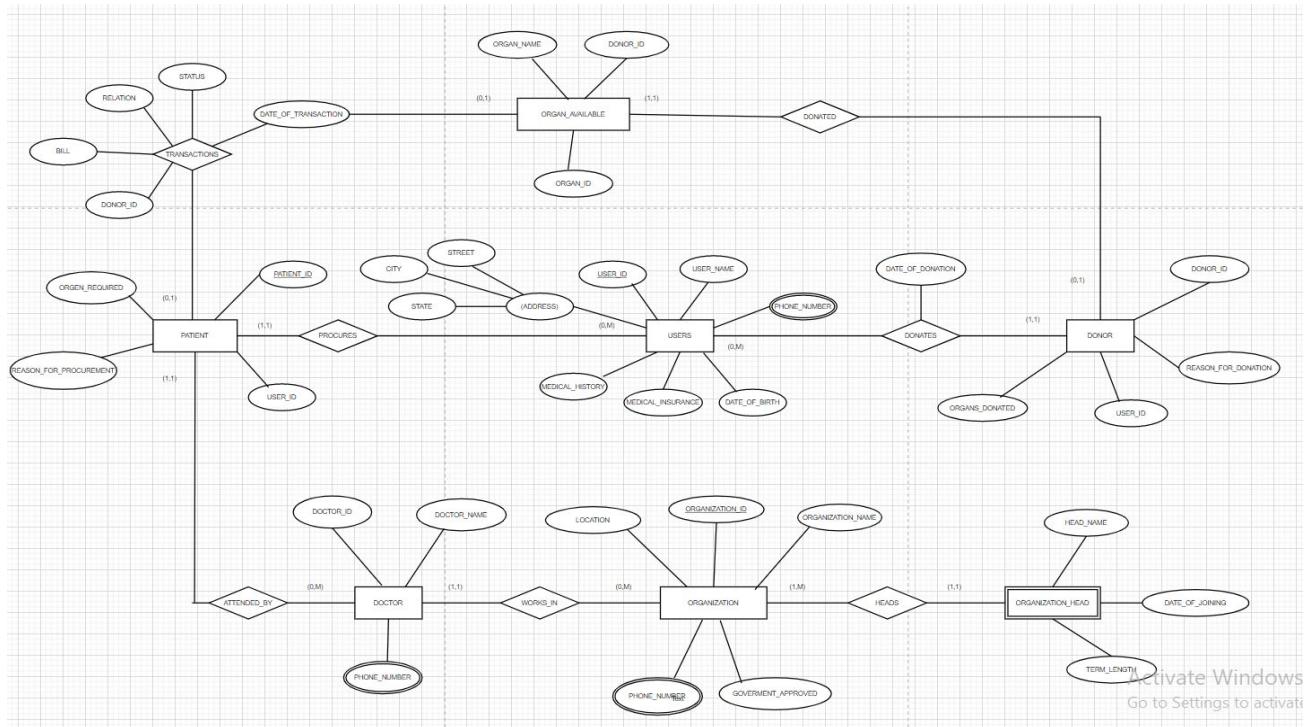
7) Organ Available



8) Transactions



ER DIAGRAM



https://drive.google.com/file/d/1AEYOYOp-FfB8ngms_t6ywms9kGmtFaSI-/view?usp=sharing

(Here is the link to open through software if the above pic is not visible)

TABLE DESIGN

CREATE TABLES

1) Login

```
CREATE TABLE login(
    username VARCHAR(20) NOT NULL,
    password VARCHAR(20) NOT NULL
);
```

2) User

```
CREATE TABLE User1(
    User_ID int NOT NULL,
    Name varchar(20) NOT NULL,
    Date_of_Birth date NOT NULL,
    Medical_insurance int,
    Medical_history varchar(20),
    Street varchar(20),
    City varchar(20),
    State varchar(20),
    PRIMARY KEY(User_ID)
);
```

3) User Phone No

```
CREATE TABLE User_phone_no(
    User_ID int NOT NULL,
    phone_no varchar(15),
    FOREIGN KEY(User_ID) REFERENCES User1(User_ID) ON DELETE CASCADE
);
```

4) Organization

```
CREATE TABLE Organization(
    Organization_ID int NOT NULL,
    Organization_name varchar(20) NOT NULL,
    Location varchar(20),
    Government_approved int,
    PRIMARY KEY(Organization_ID)
);
```

5) Doctor

```
CREATE TABLE Doctor(
    Doctor_ID int NOT NULL,
    Doctor_Name varchar(20) NOT NULL,
    Department_Name varchar(20) NOT NULL,
    organization_ID int NOT NULL,
    FOREIGN KEY(organization_ID) REFERENCES Organization(organization_ID) ON DELETE CASCADE,
    PRIMARY KEY(Doctor_ID)
);
```

6) Patient

```
CREATE TABLE Patient(
    Patient_ID int primary key,
    organ_req varchar(20) NOT NULL,
    reason_of_procurement varchar(20),
    Doctor_ID int NOT NULL,
    User_ID int NOT NULL,
    FOREIGN KEY(User_ID) REFERENCES User1(User_ID) ON DELETE CASCADE,
    FOREIGN KEY(Doctor_ID) REFERENCES Doctor(Doctor_ID) ON DELETE CASCADE
);
```

7) Donor

```
CREATE TABLE Donor(
    Donor_ID int primary key,
    organ_donated varchar(20) ,
    reason_of_donation varchar(20),
    Organization_ID int NOT NULL,
    User_ID int NOT NULL,
    FOREIGN KEY(User_ID) REFERENCES User1(User_ID) ON DELETE CASCADE,
    CONSTRAINT donor_fk FOREIGN KEY(Organization_ID) REFERENCES Organization(Organization_ID) ON DELETE CASCADE
);
```

8) Organ Available

```
CREATE TABLE Organ_available(
    Organ_ID int primary key ,
    Organ_name varchar(20) NOT NULL,
    Donor_ID int NOT NULL,
    FOREIGN KEY(Donor_ID) REFERENCES Donor(Donor_ID) ON DELETE CASCADE
);
```

9) Transaction

```
CREATE TABLE Transaction(
    Patient_ID int NOT NULL,
    Organ_ID int NOT NULL,
    Donor_ID int NOT NULL,
    Date_of_transaction date NOT NULL,
    Status int NOT NULL,
    FOREIGN KEY(Patient_ID) REFERENCES Patient(Patient_ID) ON DELETE CASCADE,
    FOREIGN KEY(Donor_ID) REFERENCES Donor(Donor_ID) ON DELETE CASCADE,
    PRIMARY KEY(Patient_ID,Organ_ID)
);
```

10) Organization Phone No.

```
CREATE TABLE Organization_phone_no(
    Organization_ID int NOT NULL,
    Phone_no varchar(15),
    FOREIGN KEY(Organization_ID) REFERENCES Organization(Organization_ID) ON DELETE CASCADE
);
```

11) Doctor Phone No.

```
CREATE TABLE Doctor_phone_no(
    Doctor_ID int NOT NULL,
    Phone_no varchar(15),
    FOREIGN KEY(Doctor_ID) REFERENCES Doctor(Doctor_ID) ON DELETE CASCADE
);
```

12) Organization Head

```
CREATE TABLE Organization_head(
    Organization_ID int NOT NULL,
    Employee_ID int NOT NULL,
    Name varchar(20) NOT NULL,
    Date_of_joining date NOT NULL,
    Term_length int NOT NULL,
    FOREIGN KEY(Organization_ID) REFERENCES Organization(Organization_ID) ON DELETE CASCADE,
    PRIMARY KEY(Organization_ID,Employee_ID)
);
```

13) Log

```
//created log table which will store that when
//the value was stored or deleted or manipulated
create table log(
    query_time char(30),
    comments varchar(255),
    newly_added varchar(255)
);
```

14) Death Records

```
create table death_records(death_id int NOT NULL,
                           NAME varchar(20) NOT NULL,
                           Reason_of_death varchar(20) NOT NULL,
                           Medical_history varchar(20) ,
                           medical_insurance int not null,
                           city varchar(20),
                           street varchar(20),
                           state varchar(20),
                           Date_of_birth date NOT NULL,
                           donate_status int NOT NULL,
                           perspective varchar(20) ,
                           primary key(death_id));
```

15) Recovery Table

```
create table recovery_table( query_time char(30),
    tablename varchar(255),
    data varchar(255)
)
```

INSERTED DATA IN TABLE

1) DOCTOR

```
begin
insert into Doctor values(1,'Doctor-1','Department-1',78);
insert into Doctor values(2,'Doctor-2','Department-2',10);
insert into Doctor values(3,'Doctor-3','Department-3',61);
insert into Doctor values(4,'Doctor-4','Department-4',26);
insert into Doctor values(5,'Doctor-5','Department-5',11);
insert into Doctor values(6,'Doctor-6','Department-6',99);
insert into Doctor values(7,'Doctor-7','Department-7',54);
insert into Doctor values(8,'Doctor-8','Department-8',44);
insert into Doctor values(9,'Doctor-9','Department-9',57);
insert into Doctor values(10,'Doctor-10','Department-10',31);
insert into Doctor values(11,'Doctor-11','Department-11',5);
insert into Doctor values(12,'Doctor-12','Department-12',11);
insert into Doctor values(13,'Doctor-13','Department-13',36);
insert into Doctor values(14,'Doctor-14','Department-14',22);
insert into Doctor values(15,'Doctor-15','Department-15',42);
insert into Doctor values(16,'Doctor-16','Department-16',73);
insert into Doctor values(17,'Doctor-17','Department-17',80);
insert into Doctor values(18,'Doctor-18','Department-18',77);
insert into Doctor values(19,'Doctor-19','Department-19',6);
insert into Doctor values(20,'Doctor-20','Department-20',87);
insert into Doctor values(21,'Doctor-21','Department-21',13);
insert into Doctor values(22,'Doctor-22','Department-22',13);
insert into Doctor values(23,'Doctor-23','Department-23',63);
insert into Doctor values(24,'Doctor-24','Department-24',87);
insert into Doctor values(25,'Doctor-25','Department-25',20);
insert into Doctor values(26,'Doctor-26','Department-26',67);
insert into Doctor values(27,'Doctor-27','Department-27',91);
insert into Doctor values(28,'Doctor-28','Department-28',97);
insert into Doctor values(29,'Doctor-29','Department-29',43);
insert into Doctor values(30,'Doctor-30','Department-30',59);
insert into Doctor values(31,'Doctor-31','Department-31',68);
insert into Doctor values(32,'Doctor-32','Department-32',42);
insert into Doctor values(33,'Doctor-33','Department-33',80);
```

```
insert into Doctor values(34,'Doctor-34','Department-34',91);
insert into Doctor values(35,'Doctor-35','Department-35',19);
insert into Doctor values(36,'Doctor-36','Department-36',57);
insert into Doctor values(37,'Doctor-37','Department-37',71);
insert into Doctor values(38,'Doctor-38','Department-38',58);
insert into Doctor values(39,'Doctor-39','Department-39',44);
insert into Doctor values(40,'Doctor-40','Department-40',24);
insert into Doctor values(41,'Doctor-41','Department-41',89);
insert into Doctor values(42,'Doctor-42','Department-42',73);
insert into Doctor values(43,'Doctor-43','Department-43',48);
insert into Doctor values(44,'Doctor-44','Department-44',89);
insert into Doctor values(45,'Doctor-45','Department-45',77);
insert into Doctor values(46,'Doctor-46','Department-46',37);
insert into Doctor values(47,'Doctor-47','Department-47',1);
insert into Doctor values(48,'Doctor-48','Department-48',50);
insert into Doctor values(49,'Doctor-49','Department-49',17);
insert into Doctor values(50,'Doctor-50','Department-50',60);
insert into Doctor values(51,'Doctor-51','Department-51',8);
insert into Doctor values(52,'Doctor-52','Department-52',92);
insert into Doctor values(53,'Doctor-53','Department-53',99);
insert into Doctor values(54,'Doctor-54','Department-54',17);
insert into Doctor values(55,'Doctor-55','Department-55',60);
insert into Doctor values(56,'Doctor-56','Department-56',38);
insert into Doctor values(57,'Doctor-57','Department-57',47);
insert into Doctor values(58,'Doctor-58','Department-58',11);
insert into Doctor values(59,'Doctor-59','Department-59',43);
insert into Doctor values(60,'Doctor-60','Department-60',42);
insert into Doctor values(61,'Doctor-61','Department-61',68);
insert into Doctor values(62,'Doctor-62','Department-62',73);
insert into Doctor values(63,'Doctor-63','Department-63',47);
insert into Doctor values(64,'Doctor-64','Department-64',48);
insert into Doctor values(65,'Doctor-65','Department-65',52);
insert into Doctor values(66,'Doctor-66','Department-66',50);
insert into Doctor values(67,'Doctor-67','Department-67',16);
insert into Doctor values(68,'Doctor-68','Department-68',43);
insert into Doctor values(69,'Doctor-69','Department-69',20);
insert into Doctor values(70,'Doctor-70','Department-70',15);
insert into Doctor values(71,'Doctor-71','Department-71',56);
```

```
insert into Doctor values(72,'Doctor-72','Department-72',79);
insert into Doctor values(73,'Doctor-73','Department-73',14);
insert into Doctor values(74,'Doctor-74','Department-74',27);
insert into Doctor values(75,'Doctor-75','Department-75',9);
insert into Doctor values(76,'Doctor-76','Department-76',49);
insert into Doctor values(77,'Doctor-77','Department-77',14);
insert into Doctor values(78,'Doctor-78','Department-78',45);
insert into Doctor values(79,'Doctor-79','Department-79',38);
insert into Doctor values(80,'Doctor-80','Department-80',53);
insert into Doctor values(81,'Doctor-81','Department-81',36);
insert into Doctor values(82,'Doctor-82','Department-82',40);
insert into Doctor values(83,'Doctor-83','Department-83',15);
insert into Doctor values(84,'Doctor-84','Department-84',71);
insert into Doctor values(85,'Doctor-85','Department-85',72);
insert into Doctor values(86,'Doctor-86','Department-86',84);
insert into Doctor values(87,'Doctor-87','Department-87',91);
insert into Doctor values(88,'Doctor-88','Department-88',22);
insert into Doctor values(89,'Doctor-89','Department-89',85);
insert into Doctor values(90,'Doctor-90','Department-90',2);
insert into Doctor values(91,'Doctor-91','Department-91',22);
insert into Doctor values(92,'Doctor-92','Department-92',41);
insert into Doctor values(93,'Doctor-93','Department-93',41);
insert into Doctor values(94,'Doctor-94','Department-94',33);
insert into Doctor values(95,'Doctor-95','Department-95',60);
insert into Doctor values(96,'Doctor-96','Department-96',11);
insert into Doctor values(97,'Doctor-97','Department-97',70);
insert into Doctor values(98,'Doctor-98','Department-98',9);
insert into Doctor values(99,'Doctor-99','Department-99',96);
insert into Doctor values(100,'Doctor-100','Department-100',16);
insert into Doctor values(101,'Doctor-101','Department-101',7);
insert into Doctor values(102,'Doctor-102','Department-102',51);
insert into Doctor values(103,'Doctor-103','Department-103',10);
insert into Doctor values(104,'Doctor-104','Department-104',75);
insert into Doctor values(105,'Doctor-105','Department-105',49);
insert into Doctor values(106,'Doctor-106','Department-106',71);
insert into Doctor values(107,'Doctor-107','Department-107',59);
insert into Doctor values(108,'Doctor-108','Department-108',9);
insert into Doctor values(109,'Doctor-109','Department-109',23);
insert into Doctor values(110,'Doctor-110','Department-110',31);
insert into Doctor values(111,'Doctor-111','Department-111',49);
insert into Doctor values(112,'Doctor-112','Department-112',23);
insert into Doctor values(113,'Doctor-113','Department-113',82);
```

```
insert into Doctor values(114,'Doctor-114','Department-114',4);
insert into Doctor values(115,'Doctor-115','Department-115',36);
insert into Doctor values(116,'Doctor-116','Department-116',99);
insert into Doctor values(117,'Doctor-117','Department-117',81);
insert into Doctor values(118,'Doctor-118','Department-118',85);
insert into Doctor values(119,'Doctor-119','Department-119',80);
insert into Doctor values(120,'Doctor-120','Department-120',3);
insert into Doctor values(121,'Doctor-121','Department-121',40);
insert into Doctor values(122,'Doctor-122','Department-122',91);
insert into Doctor values(123,'Doctor-123','Department-123',56);
insert into Doctor values(124,'Doctor-124','Department-124',53);
insert into Doctor values(125,'Doctor-125','Department-125',92);
insert into Doctor values(126,'Doctor-126','Department-126',80);
insert into Doctor values(127,'Doctor-127','Department-127',63);
insert into Doctor values(128,'Doctor-128','Department-128',76);
insert into Doctor values(129,'Doctor-129','Department-129',32);
insert into Doctor values(130,'Doctor-130','Department-130',31);
insert into Doctor values(131,'Doctor-131','Department-131',77);
insert into Doctor values(132,'Doctor-132','Department-132',13);
insert into Doctor values(133,'Doctor-133','Department-133',36);
insert into Doctor values(134,'Doctor-134','Department-134',2);
insert into Doctor values(135,'Doctor-135','Department-135',7);
insert into Doctor values(136,'Doctor-136','Department-136',61);
insert into Doctor values(137,'Doctor-137','Department-137',22);
insert into Doctor values(138,'Doctor-138','Department-138',53);
insert into Doctor values(139,'Doctor-139','Department-139',97);
insert into Doctor values(140,'Doctor-140','Department-140',84);
insert into Doctor values(141,'Doctor-141','Department-141',91);
insert into Doctor values(142,'Doctor-142','Department-142',71);
insert into Doctor values(143,'Doctor-143','Department-143',97);
insert into Doctor values(144,'Doctor-144','Department-144',98);
insert into Doctor values(145,'Doctor-145','Department-145',89);
insert into Doctor values(146,'Doctor-146','Department-146',25);
insert into Doctor values(147,'Doctor-147','Department-147',77);
```

```
insert into Doctor values(148,'Doctor-148','Department-148',55);
insert into Doctor values(149,'Doctor-149','Department-149',13);
insert into Doctor values(150,'Doctor-150','Department-150',49);
insert into Doctor values(151,'Doctor-151','Department-151',91);
insert into Doctor values(152,'Doctor-152','Department-152',56);
insert into Doctor values(153,'Doctor-153','Department-153',1);
insert into Doctor values(154,'Doctor-154','Department-154',45);
insert into Doctor values(155,'Doctor-155','Department-155',6);
insert into Doctor values(156,'Doctor-156','Department-156',63);
insert into Doctor values(157,'Doctor-157','Department-157',28);
insert into Doctor values(158,'Doctor-158','Department-158',8);
insert into Doctor values(159,'Doctor-159','Department-159',66);
insert into Doctor values(160,'Doctor-160','Department-160',36);
insert into Doctor values(161,'Doctor-161','Department-161',74);
insert into Doctor values(162,'Doctor-162','Department-162',26);
insert into Doctor values(163,'Doctor-163','Department-163',83);
insert into Doctor values(164,'Doctor-164','Department-164',60);
insert into Doctor values(165,'Doctor-165','Department-165',9);
insert into Doctor values(166,'Doctor-166','Department-166',55);
insert into Doctor values(167,'Doctor-167','Department-167',17);
insert into Doctor values(168,'Doctor-168','Department-168',16);
insert into Doctor values(169,'Doctor-169','Department-169',89);
insert into Doctor values(170,'Doctor-170','Department-170',61);
insert into Doctor values(171,'Doctor-171','Department-171',71);
insert into Doctor values(172,'Doctor-172','Department-172',61);
insert into Doctor values(173,'Doctor-173','Department-173',4);
insert into Doctor values(174,'Doctor-174','Department-174',10);
insert into Doctor values(175,'Doctor-175','Department-175',3);
insert into Doctor values(176,'Doctor-176','Department-176',57);
insert into Doctor values(177,'Doctor-177','Department-177',35);
insert into Doctor values(178,'Doctor-178','Department-178',66);
insert into Doctor values(179,'Doctor-179','Department-179',84);
insert into Doctor values(180,'Doctor-180','Department-180',49);
insert into Doctor values(181,'Doctor-181','Department-181',41);
insert into Doctor values(182,'Doctor-182','Department-182',89);
insert into Doctor values(183,'Doctor-183','Department-183',36);
insert into Doctor values(184,'Doctor-184','Department-184',9);
insert into Doctor values(185,'Doctor-185','Department-185',19);
insert into Doctor values(186,'Doctor-186','Department-186',50);
insert into Doctor values(187,'Doctor-187','Department-187',13);
```

```
insert into Doctor values(188,'Doctor-188','Department-188',43);
insert into Doctor values(189,'Doctor-189','Department-189',11);
insert into Doctor values(190,'Doctor-190','Department-190',6);
insert into Doctor values(191,'Doctor-191','Department-191',27);
insert into Doctor values(192,'Doctor-192','Department-192',42);
insert into Doctor values(193,'Doctor-193','Department-193',8);
insert into Doctor values(194,'Doctor-194','Department-194',17);
insert into Doctor values(195,'Doctor-195','Department-195',2);
insert into Doctor values(196,'Doctor-196','Department-196',50);
insert into Doctor values(197,'Doctor-197','Department-197',29);
insert into Doctor values(198,'Doctor-198','Department-198',47);
insert into Doctor values(199,'Doctor-199','Department-199',78);
end;

select * from doctor;
```

2) DONOR

```
begin
insert into Donor values(1,'Heart','Reason-1',97,90);
insert into Donor values(2,'Pancreas','Reason-2',79,41);
insert into Donor values(3,'Pancreas','Reason-3',1,95);
insert into Donor values(4,'Intestine','Reason-4',60,96);
insert into Donor values(5,'Kidney','Reason-5',69,72);
insert into Donor values(6,'Pancreas','Reason-6',1,89);
insert into Donor values(7,'Kidney','Reason-7',51,43);
insert into Donor values(8,'Kidney','Reason-8',53,61);
insert into Donor values(9,'Heart','Reason-9',57,16);
insert into Donor values(10,'Heart','Reason-10',24,50);
insert into Donor values(11,'Kidney','Reason-11',8,92);
insert into Donor values(12,'Pancreas','Reason-12',64,58);
insert into Donor values(13,'Pancreas','Reason-13',28,45);
insert into Donor values(14,'Pancreas','Reason-14',10,75);
insert into Donor values(15,'Heart','Reason-15',50,53);
insert into Donor values(16,'Intestine','Reason-16',27,31);
insert into Donor values(17,'Intestine','Reason-17',72,94);
insert into Donor values(18,'Intestine','Reason-18',97,7);
insert into Donor values(19,'Pancreas','Reason-19',69,67);
insert into Donor values(20,'Intestine','Reason-20',40,28);
insert into Donor values(21,'Pancreas','Reason-21',97,40);
insert into Donor values(22,'Lung','Reason-22',56,50);
insert into Donor values(23,'Heart','Reason-23',81,99);
insert into Donor values(24,'Lung','Reason-24',89,50);
insert into Donor values(25,'Intestine','Reason-25',43,30);
insert into Donor values(26,'Intestine','Reason-26',60,50);
insert into Donor values(27,'Lung','Reason-27',33,92);
insert into Donor values(28,'Pancreas','Reason-28',67,93);
insert into Donor values(29,'Intestine','Reason-29',62,58);
insert into Donor values(30,'Kidney','Reason-30',27,32);
insert into Donor values(31,'Heart','Reason-31',4,27);
insert into Donor values(32,'Lung','Reason-32',11,72);
insert into Donor values(33,'Kidney','Reason-33',57,8);
```

```
insert into Donor values(34,'Heart','Reason-34',22,29);
insert into Donor values(35,'Heart','Reason-35',66,58);
insert into Donor values(36,'Heart','Reason-36',21,99);
insert into Donor values(37,'Heart','Reason-37',72,61);
insert into Donor values(38,'Pancreas','Reason-38',12,28);
insert into Donor values(39,'Intestine','Reason-39',27,92);
insert into Donor values(40,'Intestine','Reason-40',71,79);
insert into Donor values(41,'Intestine','Reason-41',2,31);
insert into Donor values(42,'Kidney','Reason-42',85,36);
insert into Donor values(43,'Kidney','Reason-43',35,7);
insert into Donor values(44,'Lung','Reason-44',28,34);
insert into Donor values(45,'Heart','Reason-45',5,33);
insert into Donor values(46,'Lung','Reason-46',14,80);
insert into Donor values(47,'Intestine','Reason-47',9,6);
insert into Donor values(48,'Lung','Reason-48',54,42);
insert into Donor values(49,'Kidney','Reason-49',94,73);
insert into Donor values(50,'Kidney','Reason-50',29,25);
insert into Donor values(51,'Intestine','Reason-51',55,44);
insert into Donor values(52,'Pancreas','Reason-52',24,70);
insert into Donor values(53,'Kidney','Reason-53',9,17);
insert into Donor values(54,'Intestine','Reason-54',73,46);
insert into Donor values(55,'Lung','Reason-55',25,35);
insert into Donor values(56,'Kidney','Reason-56',25,25);
insert into Donor values(57,'Intestine','Reason-57',23,48);
insert into Donor values(58,'Heart','Reason-58',56,21);
insert into Donor values(59,'Lung','Reason-59',6,57);
insert into Donor values(60,'Kidney','Reason-60',24,67);
insert into Donor values(61,'Lung','Reason-61',4,30);
insert into Donor values(62,'Intestine','Reason-62',9,94);
insert into Donor values(63,'Kidney','Reason-63',67,35);
insert into Donor values(64,'Kidney','Reason-64',89,28);
```

```
insert into Donor values(65,'Pancreas','Reason-65',79,32);
insert into Donor values(66,'Lung','Reason-66',98,59);
insert into Donor values(67,'Lung','Reason-67',31,58);
insert into Donor values(68,'Intestine','Reason-68',84,52);
insert into Donor values(69,'Heart','Reason-69',64,39);
insert into Donor values(70,'Lung','Reason-70',78,17);
insert into Donor values(71,'Pancreas','Reason-71',46,89);
insert into Donor values(72,'Lung','Reason-72',55,36);
insert into Donor values(73,'Lung','Reason-73',25,54);
insert into Donor values(74,'Lung','Reason-74',38,27);
insert into Donor values(75,'Intestine','Reason-75',5,27);
insert into Donor values(76,'Kidney','Reason-76',16,18);
insert into Donor values(77,'Pancreas','Reason-77',46,28);
insert into Donor values(78,'Pancreas','Reason-78',68,13);
insert into Donor values(79,'Pancreas','Reason-79',65,71);
insert into Donor values(80,'Kidney','Reason-80',64,98);
insert into Donor values(81,'Lung','Reason-81',43,75);
insert into Donor values(82,'Heart','Reason-82',21,56);
insert into Donor values(83,'Intestine','Reason-83',67,6);
insert into Donor values(84,'Pancreas','Reason-84',34,18);
insert into Donor values(85,'Heart','Reason-85',37,5);
insert into Donor values(86,'Heart','Reason-86',93,69);
insert into Donor values(87,'Kidney','Reason-87',38,96);
insert into Donor values(88,'Intestine','Reason-88',42,44);
insert into Donor values(89,'Heart','Reason-89',75,88);
insert into Donor values(90,'Intestine','Reason-90',83,1);
insert into Donor values(91,'Kidney','Reason-91',11,40);
insert into Donor values(92,'Intestine','Reason-92',70,16);
insert into Donor values(93,'Kidney','Reason-93',77,79);
insert into Donor values(94,'Kidney','Reason-94',45,32);
insert into Donor values(95,'Heart','Reason-95',40,47);
insert into Donor values(96,'Pancreas','Reason-96',77,73);
insert into Donor values(97,'Intestine','Reason-97',92,32);
insert into Donor values(98,'Heart','Reason-98',84,29);
insert into Donor values(99,'Pancreas','Reason-99',61,33);
insert into Donor values(100,'Kidney','Reason-100',92,5);
insert into Donor values(101,'Pancreas','Reason-101',98,35);
```

```
insert into Donor values(102,'Heart','Reason-102',90,25);
insert into Donor values(103,'Heart','Reason-103',18,3);
insert into Donor values(104,'Heart','Reason-104',45,79);
insert into Donor values(105,'Kidney','Reason-105',17,9);
insert into Donor values(106,'Pancreas','Reason-106',93,3);
insert into Donor values(107,'Intestine','Reason-107',78,76);
insert into Donor values(108,'Pancreas','Reason-108',46,91);
insert into Donor values(109,'Pancreas','Reason-109',80,28);
insert into Donor values(110,'Lung','Reason-110',60,80);
insert into Donor values(111,'Kidney','Reason-111',52,85);
insert into Donor values(112,'Pancreas','Reason-112',38,14);
insert into Donor values(113,'Pancreas','Reason-113',18,91);
insert into Donor values(114,'Pancreas','Reason-114',11,91);
insert into Donor values(115,'Heart','Reason-115',49,95);
insert into Donor values(116,'Lung','Reason-116',20,11);
insert into Donor values(117,'Heart','Reason-117',93,66);
insert into Donor values(118,'Kidney','Reason-118',24,23);
insert into Donor values(119,'Pancreas','Reason-119',97,55);
insert into Donor values(120,'Lung','Reason-120',95,81);
insert into Donor values(121,'Heart','Reason-121',9,53);
insert into Donor values(122,'Kidney','Reason-122',69,9);
insert into Donor values(123,'Pancreas','Reason-123',28,58);
insert into Donor values(124,'Heart','Reason-124',2,59);
insert into Donor values(125,'Heart','Reason-125',61,39);
insert into Donor values(126,'Heart','Reason-126',1,14);
insert into Donor values(127,'Lung','Reason-127',43,97);
insert into Donor values(128,'Kidney','Reason-128',28,46);
insert into Donor values(129,'Intestine','Reason-129',4,71);
insert into Donor values(130,'Lung','Reason-130',22,26);
insert into Donor values(131,'Pancreas','Reason-131',8,91);
insert into Donor values(132,'Heart','Reason-132',36,58);
```

```
insert into Donor values(133,'Lung','Reason-133',68,47);
insert into Donor values(134,'Lung','Reason-134',86,88);
insert into Donor values(135,'Heart','Reason-135',22,8);
insert into Donor values(136,'Pancreas','Reason-136',28,31);
insert into Donor values(137,'Intestine','Reason-137',35,64);
insert into Donor values(138,'Heart','Reason-138',78,80);
insert into Donor values(139,'Pancreas','Reason-139',11,67);
insert into Donor values(140,'Kidney','Reason-140',63,82);
insert into Donor values(141,'Kidney','Reason-141',91,76);
insert into Donor values(142,'Lung','Reason-142',41,38);
insert into Donor values(143,'Pancreas','Reason-143',53,71);
insert into Donor values(144,'Heart','Reason-144',73,37);
insert into Donor values(145,'Heart','Reason-145',4,36);
insert into Donor values(146,'Intestine','Reason-146',27,25);
insert into Donor values(147,'Intestine','Reason-147',96,64);
insert into Donor values(148,'Lung','Reason-148',38,78);
insert into Donor values(149,'Lung','Reason-149',55,63);
insert into Donor values(150,'Kidney','Reason-150',76,54);
insert into Donor values(151,'Kidney','Reason-151',52,8);
insert into Donor values(152,'Heart','Reason-152',32,53);
insert into Donor values(153,'Kidney','Reason-153',40,2);
insert into Donor values(154,'Intestine','Reason-154',12,4);
insert into Donor values(155,'Kidney','Reason-155',9,68);
insert into Donor values(156,'Pancreas','Reason-156',7,44);
insert into Donor values(157,'Kidney','Reason-157',66,67);
insert into Donor values(158,'Kidney','Reason-158',51,25);
insert into Donor values(159,'Lung','Reason-159',94,77);
insert into Donor values(160,'Kidney','Reason-160',64,12);
insert into Donor values(161,'Kidney','Reason-161',75,52);
insert into Donor values(162,'Lung','Reason-162',13,60);
insert into Donor values(163,'Pancreas','Reason-163',48,34);
insert into Donor values(164,'Heart','Reason-164',90,82);
insert into Donor values(165,'Lung','Reason-165',13,73);
insert into Donor values(166,'Lung','Reason-166',12,69);
```

```
insert into Donor values(167,'Pancreas','Reason-167',58,1);
insert into Donor values(168,'Pancreas','Reason-168',12,26);
insert into Donor values(169,'Intestine','Reason-169',29,89);
insert into Donor values(170,'Lung','Reason-170',94,77);
insert into Donor values(171,'Kidney','Reason-171',80,33);
insert into Donor values(172,'Kidney','Reason-172',19,3);
insert into Donor values(173,'Intestine','Reason-173',98,92);
insert into Donor values(174,'Kidney','Reason-174',65,70);
insert into Donor values(175,'Kidney','Reason-175',89,37);
insert into Donor values(176,'Lung','Reason-176',90,58);
insert into Donor values(177,'Intestine','Reason-177',47,60);
insert into Donor values(178,'Lung','Reason-178',91,33);
insert into Donor values(179,'Intestine','Reason-179',38,55);
insert into Donor values(180,'Heart','Reason-180',98,1);
insert into Donor values(181,'Pancreas','Reason-181',7,83);
insert into Donor values(182,'Kidney','Reason-182',54,75);
insert into Donor values(183,'Heart','Reason-183',30,50);
insert into Donor values(184,'Lung','Reason-184',68,84);
insert into Donor values(185,'Heart','Reason-185',69,88);
insert into Donor values(186,'Pancreas','Reason-186',36,82);
insert into Donor values(187,'Intestine','Reason-187',56,51);
insert into Donor values(188,'Pancreas','Reason-188',27,53);
insert into Donor values(189,'Pancreas','Reason-189',60,39);
insert into Donor values(190,'Heart','Reason-190',11,26);
insert into Donor values(191,'Intestine','Reason-191',33,42);
insert into Donor values(192,'Intestine','Reason-192',36,31);
insert into Donor values(193,'Intestine','Reason-193',90,98);
insert into Donor values(194,'Kidney','Reason-194',39,50);
insert into Donor values(195,'Kidney','Reason-195',18,22);
insert into Donor values(196,'Pancreas','Reason-196',81,94);
insert into Donor values(197,'Heart','Reason-197',17,8);
insert into Donor values(198,'Lung','Reason-198',63,43);
insert into Donor values(199,'Kidney','Reason-199',93,47);
end;
```

```
select * from donor;
```

3) ORGANIZATION

```
begin
insert into Organization values(1, 'Organization-1','New Delhi',1);
insert into Organization values(2, 'Organization-2','Mumbai',0);
insert into Organization values(3, 'Organization-3','Kolkata',0);
insert into Organization values(4, 'Organization-4','Kolkata',1);
insert into Organization values(5, 'Organization-5','Ahmedabad',1);
insert into Organization values(6, 'Organization-6','Kolkata',0);
insert into Organization values(7, 'Organization-7','Kolkata',0);
insert into Organization values(8, 'Organization-8','Ahmedabad',0);
insert into Organization values(9, 'Organization-9','Kolkata',1);
insert into Organization values(10, 'Organization-10','Ahmedabad',1);
insert into Organization values(11, 'Organization-11','Ahmedabad',1);
insert into Organization values(12, 'Organization-12','Mumbai',0);
insert into Organization values(13, 'Organization-13','Kolkata',0);
insert into Organization values(14, 'Organization-14','Ahmedabad',1);
insert into Organization values(15, 'Organization-15','Ahmedabad',0);
insert into Organization values(16, 'Organization-16','Kolkata',0);
insert into Organization values(17, 'Organization-17','Kolkata',1);
insert into Organization values(18, 'Organization-18','Mumbai',1);
insert into Organization values(19, 'Organization-19','Ahmedabad',1);
insert into Organization values(20, 'Organization-20','Ahmedabad',1);
insert into Organization values(21, 'Organization-21','Ahmedabad',0);
insert into Organization values(22, 'Organization-22','New Delhi',0);
insert into Organization values(23, 'Organization-23','Mumbai',1);
insert into Organization values(24, 'Organization-24','Ahmedabad',0);
insert into Organization values(25, 'Organization-25','Mumbai',0);
insert into Organization values(26, 'Organization-26','Ahmedabad',0);
insert into Organization values(27, 'Organization-27','Kolkata',0);
insert into Organization values(28, 'Organization-28','Mumbai',0);
insert into Organization values(29, 'Organization-29','Mumbai',1);
insert into Organization values(30, 'Organization-30','New Delhi',1);
insert into Organization values(31, 'Organization-31','New Delhi',0);
insert into Organization values(32, 'Organization-32','New Delhi',0);
insert into Organization values(33, 'Organization-33','New Delhi',0);
```

```
insert into Organization values(34, 'Organization-34', 'Kolkata',0);
insert into Organization values(35, 'Organization-35', 'New Delhi',0);
insert into Organization values(36, 'Organization-36', 'Mumbai',0);
insert into Organization values(37, 'Organization-37', 'Kolkata',0);
insert into Organization values(38, 'Organization-38', 'New Delhi',1);
insert into Organization values(39, 'Organization-39', 'Kolkata',1);
insert into Organization values(40, 'Organization-40', 'New Delhi',0);
insert into Organization values(41, 'Organization-41', 'Mumbai',0);
insert into Organization values(42, 'Organization-42', 'Kolkata',0);
insert into Organization values(43, 'Organization-43', 'New Delhi',1);
insert into Organization values(44, 'Organization-44', 'Kolkata',0);
insert into Organization values(45, 'Organization-45', 'New Delhi',1);
insert into Organization values(46, 'Organization-46', 'Ahmedabad',0);
insert into Organization values(47, 'Organization-47', 'Mumbai',1);
insert into Organization values(48, 'Organization-48', 'New Delhi',1);
insert into Organization values(49, 'Organization-49', 'Ahmedabad',0);
insert into Organization values(50, 'Organization-50', 'Ahmedabad',1);
insert into Organization values(51, 'Organization-51', 'Kolkata',0);
insert into Organization values(52, 'Organization-52', 'New Delhi',0);
insert into Organization values(53, 'Organization-53', 'New Delhi',0);
insert into Organization values(54, 'Organization-54', 'Kolkata',0);
insert into Organization values(55, 'Organization-55', 'Mumbai',0);
insert into Organization values(56, 'Organization-56', 'Ahmedabad',0);
insert into Organization values(57, 'Organization-57', 'Kolkata',0);
insert into Organization values(58, 'Organization-58', 'Kolkata',0);
insert into Organization values(59, 'Organization-59', 'Kolkata',1);
insert into Organization values(60, 'Organization-60', 'Mumbai',0);
insert into Organization values(61, 'Organization-61', 'Mumbai',1);
insert into Organization values(62, 'Organization-62', 'Kolkata',1);
insert into Organization values(63, 'Organization-63', 'Mumbai',1);
insert into Organization values(64, 'Organization-64', 'Kolkata',0);
insert into Organization values(65, 'Organization-65', 'Kolkata',0);
insert into Organization values(66, 'Organization-66', 'Mumbai',0);
insert into Organization values(67, 'Organization-67', 'Mumbai',0);
insert into Organization values(68, 'Organization-68', 'Ahmedabad',0);
insert into Organization values(69, 'Organization-69', 'New Delhi',0);
insert into Organization values(70, 'Organization-70', 'Ahmedabad',1);
```

```
insert into Organization values(71, 'Organization-71', 'Ahmedabad',1);
insert into Organization values(72, 'Organization-72', 'Ahmedabad',1);
insert into Organization values(73, 'Organization-73', 'New Delhi',0);
insert into Organization values(74, 'Organization-74', 'Ahmedabad',0);
insert into Organization values(75, 'Organization-75', 'New Delhi',0);
insert into Organization values(76, 'Organization-76', 'Kolkata',0);
insert into Organization values(77, 'Organization-77', 'Ahmedabad',1);
insert into Organization values(78, 'Organization-78', 'New Delhi',1);
insert into Organization values(79, 'Organization-79', 'New Delhi',0);
insert into Organization values(80, 'Organization-80', 'Mumbai',0);
insert into Organization values(81, 'Organization-81', 'Ahmedabad',0);
insert into Organization values(82, 'Organization-82', 'Ahmedabad',1);
insert into Organization values(83, 'Organization-83', 'Ahmedabad',0);
insert into Organization values(84, 'Organization-84', 'Mumbai',1);
insert into Organization values(85, 'Organization-85', 'Kolkata',0);
insert into Organization values(86, 'Organization-86', 'Mumbai',0);
insert into Organization values(87, 'Organization-87', 'Kolkata',1);
insert into Organization values(88, 'Organization-88', 'Ahmedabad',0);
insert into Organization values(89, 'Organization-89', 'Mumbai',1);
insert into Organization values(90, 'Organization-90', 'Kolkata',0);
insert into Organization values(91, 'Organization-91', 'Ahmedabad',0);
insert into Organization values(92, 'Organization-92', 'Ahmedabad',0);
insert into Organization values(93, 'Organization-93', 'Kolkata',0);
insert into Organization values(94, 'Organization-94', 'Ahmedabad',0);
insert into Organization values(95, 'Organization-95', 'Mumbai',1);
insert into Organization values(96, 'Organization-96', 'Kolkata',1);
insert into Organization values(97, 'Organization-97', 'New Delhi',0);
insert into Organization values(98, 'Organization-98', 'Mumbai',1);
insert into Organization values(99, 'Organization-99', 'New Delhi',0);
end;

select * from organization
```

4) PATIENT

```
select * from patient
delete from patient
begin
insert into Patient values(1,'Heart','Reason-1',63,48);
insert into Patient values(2,'Kidney','Reason-2',62,11);
insert into Patient values(3,'Pancreas','Reason-3',72,84);
insert into Patient values(4,'Kidney','Reason-4',87,36);
insert into Patient values(5,'Heart','Reason-5',44,13);
insert into Patient values(6,'Lung','Reason-6',71,52);
insert into Patient values(7,'Intestine','Reason-7',63,85);
insert into Patient values(8,'Intestine','Reason-8',42,83);
insert into Patient values(9,'Lung','Reason-9',41,52);
insert into Patient values(10,'Kidney','Reason-10',16,8);
insert into Patient values(11,'Kidney','Reason-11',91,95);
insert into Patient values(12,'Pancreas','Reason-12',70,58);
insert into Patient values(13,'Intestine','Reason-13',81,44);
insert into Patient values(14,'Heart','Reason-14',3,94);
insert into Patient values(15,'Kidney','Reason-15',94,30);
insert into Patient values(16,'Lung','Reason-16',95,97);
insert into Patient values(17,'Heart','Reason-17',7,2);
insert into Patient values(18,'Kidney','Reason-18',89,82);
insert into Patient values(19,'Kidney','Reason-19',25,24);
insert into Patient values(20,'Pancreas','Reason-20',11,23);
insert into Patient values(21,'Intestine','Reason-21',64,66);
insert into Patient values(22,'Pancreas','Reason-22',52,66);
insert into Patient values(23,'Lung','Reason-23',64,28);
insert into Patient values(24,'Intestine','Reason-24',30,13);
insert into Patient values(25,'Heart','Reason-25',2,81);
insert into Patient values(26,'Lung','Reason-26',94,8);
insert into Patient values(27,'Intestine','Reason-27',75,78);
insert into Patient values(28,'Pancreas','Reason-28',94,94);
```

```
insert into Patient values(29,'Kidney','Reason-29',9,80);
insert into Patient values(30,'Intestine','Reason-30',82,74);
insert into Patient values(31,'Pancreas','Reason-31',33,87);
insert into Patient values(32,'Pancreas','Reason-32',98,55);
insert into Patient values(33,'Heart','Reason-33',58,37);
insert into Patient values(34,'Heart','Reason-34',10,31);
insert into Patient values(35,'Kidney','Reason-35',51,2);
insert into Patient values(36,'Pancreas','Reason-36',98,67);
insert into Patient values(37,'Heart','Reason-37',53,47);
insert into Patient values(38,'Kidney','Reason-38',59,20);
insert into Patient values(39,'Pancreas','Reason-39',81,59);
insert into Patient values(40,'Lung','Reason-40',89,46);
insert into Patient values(41,'Pancreas','Reason-41',50,29);
insert into Patient values(42,'Lung','Reason-42',28,95);
insert into Patient values(43,'Heart','Reason-43',10,14);
insert into Patient values(44,'Pancreas','Reason-44',20,44);
insert into Patient values(45,'Kidney','Reason-45',10,17);
insert into Patient values(46,'Pancreas','Reason-46',38,14);
insert into Patient values(47,'Pancreas','Reason-47',68,88);
insert into Patient values(48,'Lung','Reason-48',28,32);
insert into Patient values(49,'Kidney','Reason-49',76,14);
insert into Patient values(50,'Lung','Reason-50',95,4);
insert into Patient values(51,'Heart','Reason-51',90,11);
insert into Patient values(52,'Lung','Reason-52',65,94);
insert into Patient values(53,'Heart','Reason-53',9,7);
insert into Patient values(54,'Kidney','Reason-54',24,75);
insert into Patient values(55,'Heart','Reason-55',98,36);
insert into Patient values(56,'Kidney','Reason-56',97,17);
insert into Patient values(57,'Pancreas','Reason-57',34,57);
insert into Patient values(58,'Lung','Reason-58',74,14);
insert into Patient values(59,'Heart','Reason-59',80,17);
insert into Patient values(60,'Kidney','Reason-60',84,14);
insert into Patient values(61,'Kidney','Reason-61',60,42);
insert into Patient values(62,'Pancreas','Reason-62',97,29);
insert into Patient values(63,'Heart','Reason-63',96,84);
insert into Patient values(64,'Heart','Reason-64',2,81);
insert into Patient values(65,'Kidney','Reason-65',89,8);
```

```
insert into Patient values(66,'Heart','Reason-66',25,52);
insert into Patient values(67,'Pancreas','Reason-67',92,74);
insert into Patient values(68,'Kidney','Reason-68',31,44);
insert into Patient values(69,'Heart','Reason-69',13,76);
insert into Patient values(70,'Pancreas','Reason-70',67,78);
insert into Patient values(71,'Lung','Reason-71',48,82);
insert into Patient values(72,'Heart','Reason-72',11,41);
insert into Patient values(73,'Heart','Reason-73',55,90);
insert into Patient values(74,'Pancreas','Reason-74',91,40);
insert into Patient values(75,'Intestine','Reason-75',64,25);
insert into Patient values(76,'Lung','Reason-76',88,70);
insert into Patient values(77,'Pancreas','Reason-77',18,74);
insert into Patient values(78,'Intestine','Reason-78',68,7);
insert into Patient values(79,'Heart','Reason-79',33,50);
insert into Patient values(80,'Lung','Reason-80',56,29);
insert into Patient values(81,'Intestine','Reason-81',56,24);
insert into Patient values(82,'Pancreas','Reason-82',75,81);
insert into Patient values(83,'Pancreas','Reason-83',93,64);
insert into Patient values(84,'Lung','Reason-84',38,5);
insert into Patient values(85,'Pancreas','Reason-85',58,12);
insert into Patient values(86,'Pancreas','Reason-86',49,45);
insert into Patient values(87,'Heart','Reason-87',70,98);
insert into Patient values(88,'Intestine','Reason-88',3,23);
insert into Patient values(89,'Pancreas','Reason-89',63,71);
insert into Patient values(90,'Pancreas','Reason-90',95,21);
insert into Patient values(91,'Lung','Reason-91',17,56);
insert into Patient values(92,'Lung','Reason-92',61,48);
insert into Patient values(93,'Pancreas','Reason-93',98,77);
insert into Patient values(94,'Heart','Reason-94',54,67);
insert into Patient values(95,'Lung','Reason-95',51,87);
insert into Patient values(96,'Lung','Reason-96',30,45);
insert into Patient values(97,'Kidney','Reason-97',76,2);
insert into Patient values(98,'Intestine','Reason-98',8,67);
insert into Patient values(99,'Heart','Reason-99',25,65);
insert into Patient values(100,'Lung','Reason-100',45,66);
insert into Patient values(101,'Pancreas','Reason-101',86,79);
insert into Patient values(102,'Pancreas','Reason-102',71,95);
insert into Patient values(103,'Heart','Reason-103',34,28);
insert into Patient values(104,'Pancreas','Reason-104',97,79);
insert into Patient values(105,'Lung','Reason-105',44,8);
```

```
insert into Patient values(106,'Kidney','Reason-106',42,89);
insert into Patient values(107,'Intestine','Reason-107',55,37);
insert into Patient values(108,'Kidney','Reason-108',67,84);
insert into Patient values(109,'Kidney','Reason-109',99,61);
insert into Patient values(110,'Intestine','Reason-110',18,47);
insert into Patient values(111,'Lung','Reason-111',80,42);
insert into Patient values(112,'Lung','Reason-112',63,55);
insert into Patient values(113,'Intestine','Reason-113',67,23);
insert into Patient values(114,'Pancreas','Reason-114',82,30);
insert into Patient values(115,'Pancreas','Reason-115',64,16);
insert into Patient values(116,'Intestine','Reason-116',41,39);
insert into Patient values(117,'Kidney','Reason-117',15,32);
insert into Patient values(118,'Heart','Reason-118',88,24);
insert into Patient values(119,'Lung','Reason-119',59,82);
insert into Patient values(120,'Pancreas','Reason-120',45,82);
insert into Patient values(121,'Intestine','Reason-121',6,39);
insert into Patient values(122,'Kidney','Reason-122',40,13);
insert into Patient values(123,'Intestine','Reason-123',13,90);
insert into Patient values(124,'Kidney','Reason-124',83,62);
insert into Patient values(125,'Pancreas','Reason-125',85,13);
insert into Patient values(126,'Heart','Reason-126',2,41);
insert into Patient values(127,'Heart','Reason-127',2,45);
insert into Patient values(128,'Pancreas','Reason-128',45,45);
insert into Patient values(129,'Intestine','Reason-129',76,69);
insert into Patient values(130,'Pancreas','Reason-130',62,74);
insert into Patient values(131,'Pancreas','Reason-131',60,30);
insert into Patient values(132,'Kidney','Reason-132',49,9);
insert into Patient values(133,'Lung','Reason-133',48,58);
insert into Patient values(134,'Lung','Reason-134',14,15);
insert into Patient values(135,'Pancreas','Reason-135',73,94);
insert into Patient values(136,'Lung','Reason-136',27,19);
insert into Patient values(137,'Kidney','Reason-137',83,28);
insert into Patient values(138,'Pancreas','Reason-138',29,37);
insert into Patient values(139,'Intestine','Reason-139',5,85);
insert into Patient values(140,'Lung','Reason-140',14,83);
```

```
insert into Patient values(141,'Pancreas','Reason-141',98,47);
insert into Patient values(142,'Pancreas','Reason-142',88,53);
insert into Patient values(143,'Lung','Reason-143',40,61);
insert into Patient values(144,'Heart','Reason-144',56,30);
insert into Patient values(145,'Pancreas','Reason-145',76,63);
insert into Patient values(146,'Heart','Reason-146',33,10);
insert into Patient values(147,'Pancreas','Reason-147',89,15);
insert into Patient values(148,'Kidney','Reason-148',66,48);
insert into Patient values(149,'Lung','Reason-149',81,57);
insert into Patient values(150,'Intestine','Reason-150',70,64);
insert into Patient values(151,'Pancreas','Reason-151',50,15);
insert into Patient values(152,'Lung','Reason-152',81,89);
insert into Patient values(153,'Intestine','Reason-153',68,5);
insert into Patient values(154,'Pancreas','Reason-154',40,97);
insert into Patient values(155,'Pancreas','Reason-155',50,58);
insert into Patient values(156,'Lung','Reason-156',62,84);
insert into Patient values(157,'Heart','Reason-157',10,98);
insert into Patient values(158,'Heart','Reason-158',64,58);
insert into Patient values(159,'Heart','Reason-159',44,29);
insert into Patient values(160,'Intestine','Reason-160',16,42);
insert into Patient values(161,'Kidney','Reason-161',64,2);
insert into Patient values(162,'Lung','Reason-162',62,58);
insert into Patient values(163,'Heart','Reason-163',88,94);
insert into Patient values(164,'Pancreas','Reason-164',38,94);
insert into Patient values(165,'Kidney','Reason-165',78,8);
insert into Patient values(166,'Lung','Reason-166',62,62);
insert into Patient values(167,'Pancreas','Reason-167',31,80);
insert into Patient values(168,'Lung','Reason-168',71,21);
insert into Patient values(169,'Intestine','Reason-169',90,5);
insert into Patient values(170,'Lung','Reason-170',20,26);
```

```
insert into Patient values(171,'Pancreas','Reason-171',25,17);
insert into Patient values(172,'Heart','Reason-172',82,51);
insert into Patient values(173,'Lung','Reason-173',97,23);
insert into Patient values(174,'Kidney','Reason-174',29,56);
insert into Patient values(175,'Heart','Reason-175',37,67);
insert into Patient values(176,'Pancreas','Reason-176',86,39);
insert into Patient values(177,'Pancreas','Reason-177',53,68);
insert into Patient values(178,'Heart','Reason-178',21,31);
insert into Patient values(179,'Intestine','Reason-179',54,33);
insert into Patient values(180,'Lung','Reason-180',15,80);
insert into Patient values(181,'Intestine','Reason-181',43,38);
insert into Patient values(182,'Heart','Reason-182',58,89);
insert into Patient values(183,'Heart','Reason-183',52,7);
insert into Patient values(184,'Kidney','Reason-184',93,4);
insert into Patient values(185,'Kidney','Reason-185',3,61);
insert into Patient values(186,'Heart','Reason-186',32,44);
insert into Patient values(187,'Intestine','Reason-187',52,13);
insert into Patient values(188,'Pancreas','Reason-188',1,96);
insert into Patient values(189,'Kidney','Reason-189',13,85);
insert into Patient values(190,'Kidney','Reason-190',53,99);
insert into Patient values(191,'Pancreas','Reason-191',94,18);
insert into Patient values(192,'Lung','Reason-192',49,26);
insert into Patient values(193,'Pancreas','Reason-193',89,68);
insert into Patient values(194,'Intestine','Reason-194',59,19);
insert into Patient values(195,'Heart','Reason-195',57,31);
insert into Patient values(196,'Heart','Reason-196',19,57);
insert into Patient values(197,'Intestine','Reason-197',7,59);
insert into Patient values(198,'Lung','Reason-198',82,71);
insert into Patient values(199,'Lung','Reason-199',86,31);
end;

select * from log
```

5) TRANSACTION

```
begin
insert into Transaction values( 22,7,7,'9-19-2014',0);
insert into Transaction values( 97,19,19,'4-30-2013',1);
insert into Transaction values( 156,154,154,'4-10-2017',1);
insert into Transaction values( 113,110,110,'9-28-2013',1);
insert into Transaction values( 73,36,36,'3-27-2017',0);
insert into Transaction values( 108,28,28,'8-1-2015',0);
insert into Transaction values( 111,164,164,'4-2-2012',1);
insert into Transaction values( 86,184,184,'11-11-2013',0);
insert into Transaction values( 34,106,106,'3-12-2014',1);
insert into Transaction values( 51,149,149,'1-29-2017',0);
insert into Transaction values( 69,97,97,'12-21-2015',1);
insert into Transaction values( 174,77,77,'8-4-2013',0);
insert into Transaction values( 68,17,17,'5-15-2012',1);
insert into Transaction values( 32,119,119,'5-22-2017',0);
insert into Transaction values( 79,76,76,'12-23-2015',0);
insert into Transaction values( 183,16,16,'3-5-2014',0);
insert into Transaction values( 60,186,186,'9-2-2014',1);
insert into Transaction values( 142,44,44,'6-8-2016',1);
insert into Transaction values( 199,10,10,'9-28-2016',1);
insert into Transaction values( 109,181,181,'5-22-2014',0);
insert into Transaction values( 4,155,155,'5-29-2015',0);
insert into Transaction values( 78,40,40,'6-22-2014',0);
insert into Transaction values( 191,120,120,'10-6-2015',0);
insert into Transaction values( 120,121,121,'4-4-2015',1);
insert into Transaction values( 74,64,64,'12-4-2013',0);
insert into Transaction values( 7,172,172,'10-10-2012',0);
insert into Transaction values( 38,102,102,'8-18-2012',1);
insert into Transaction values( 75,2,2,'12-9-2016',0);
insert into Transaction values( 85,9,9,'1-23-2012',0);
insert into Transaction values( 63,131,131,'9-2-2017',1);
insert into Transaction values( 169,165,165,'5-30-2014',1);
insert into Transaction values( 10,147,147,'3-8-2016',0);
insert into Transaction values( 186,83,83,'12-22-2016',1);
```

```
insert into Transaction values( 147,177,177,'1-12-2013',0);
insert into Transaction values( 65,94,94,'10-20-2015',0);
insert into Transaction values( 30,82,82,'7-25-2014',1);
insert into Transaction values( 52,101,101,'7-25-2017',0);
insert into Transaction values( 197,157,157,'5-3-2015',0);
insert into Transaction values( 70,60,60,'2-16-2013',1);
insert into Transaction values( 104,1,1,'4-24-2012',0);
insert into Transaction values( 149,30,30,'7-29-2017',0);
insert into Transaction values( 163,80,80,'9-28-2016',0);
insert into Transaction values( 162,52,52,'3-29-2016',1);
insert into Transaction values( 124,29,29,'4-13-2015',1);
insert into Transaction values( 110,53,53,'1-12-2017',1);
insert into Transaction values( 112,18,18,'5-18-2017',0);
insert into Transaction values( 184,57,57,'6-9-2012',1);
insert into Transaction values( 82,96,96,'12-21-2014',1);
insert into Transaction values( 84,193,193,'4-4-2016',0);
insert into Transaction values( 76,196,196,'6-3-2012',0);
insert into Transaction values( 1,93,93,'4-12-2012',0);
insert into Transaction values( 43,130,130,'7-24-2013',0);
insert into Transaction values( 20,129,129,'10-10-2014',0);
insert into Transaction values( 33,162,162,'12-16-2016',0);
insert into Transaction values( 136,198,198,'5-21-2013',0);
insert into Transaction values( 182,48,48,'4-27-2013',0);
insert into Transaction values( 12,145,145,'11-26-2016',0);
insert into Transaction values( 145,72,72,'11-19-2017',1);
insert into Transaction values( 91,126,126,'10-20-2014',1);
insert into Transaction values( 167,111,111,'10-14-2015',1);
insert into Transaction values( 172,21,21,'3-1-2014',1);
insert into Transaction values( 153,95,95,'12-28-2015',0);
insert into Transaction values( 8,71,71,'5-2-2016',0);
insert into Transaction values( 90,195,195,'3-15-2014',0);
insert into Transaction values( 28,143,143,'12-13-2017',0);
insert into Transaction values( 58,87,87,'5-7-2012',1);
insert into Transaction values( 105,109,109,'12-24-2016',0);
insert into Transaction values( 125,188,188,'7-6-2014',0);
insert into Transaction values( 176,107,107,'2-10-2013',1);
insert into Transaction values( 19,4,4,'11-10-2014',0);
```

```
insert into Transaction values( 72,191,191,'9-21-2012',1);
insert into Transaction values( 6,58,58,'10-26-2016',0);
insert into Transaction values( 107,173,173,'9-18-2017',1);
insert into Transaction values( 119,27,27,'11-4-2017',0);
insert into Transaction values( 195,67,67,'2-26-2017',0);
insert into Transaction values( 55,134,134,'6-19-2013',1);
insert into Transaction values( 21,144,144,'12-11-2012',0);
insert into Transaction values( 196,135,135,'9-23-2017',1);
insert into Transaction values( 26,23,23,'8-24-2013',1);
insert into Transaction values( 185,8,8,'9-24-2014',0);
insert into Transaction values( 116,168,168,'7-15-2014',0);
insert into Transaction values( 36,123,123,'12-3-2016',0);
insert into Transaction values( 115,166,166,'2-29-2012',0);
insert into Transaction values( 31,152,152,'9-4-2014',1);
insert into Transaction values( 189,15,15,'4-30-2013',0);
insert into Transaction values( 39,170,170,'6-22-2017',0);
insert into Transaction values( 161,78,78,'5-26-2012',1);
insert into Transaction values( 143,156,156,'10-22-2016',0);
insert into Transaction values( 190,22,22,'5-23-2013',1);
insert into Transaction values( 83,20,20,'11-5-2012',0);
insert into Transaction values( 175,50,50,'7-19-2012',0);
insert into Transaction values( 103,117,117,'12-28-2016',0);
insert into Transaction values( 179,138,138,'12-7-2016',0);
insert into Transaction values( 188,153,153,'11-15-2015',1);
insert into Transaction values( 127,32,32,'3-15-2014',0);
insert into Transaction values( 37,91,91,'7-13-2016',1);
insert into Transaction values( 50,66,66,'11-25-2013',1);
insert into Transaction values( 77,69,69,'3-10-2017',0);
insert into Transaction values( 88,160,160,'1-28-2017',0);
end;
```

6) USER

```
begin
insert into User1 values( 1 , 'Name-1' , '8-21-1978' , 1 , 'NIL' , 'Street-1' , 'New Delhi' , 'Delhi');
insert into User1 values( 2 , 'Name-2' , '12-10-1975' , 0 , 'NIL' , 'Street-2' , 'Mumbai' , 'Maharashtra');
insert into User1 values( 3 , 'Name-3' , '6-4-1976' , 0 , 'NIL' , 'Street-3' , 'Mumbai' , 'Maharashtra');
insert into User1 values( 4 , 'Name-4' , '10-13-1985' , 1 , 'NIL' , 'Street-4' , 'Ahmedabad' , 'Gujarat');
insert into User1 values( 5 , 'Name-5' , '10-12-1983' , 1 , 'NIL' , 'Street-5' , 'Kolkata' , 'West Bengal');
insert into User1 values( 6 , 'Name-6' , '11-18-1977' , 1 , 'NIL' , 'Street-6' , 'Kolkata' , 'West Bengal');
insert into User1 values( 7 , 'Name-7' , '2-26-1976' , 0 , 'NIL' , 'Street-7' , 'New Delhi' , 'Delhi');
insert into User1 values( 8 , 'Name-8' , '4-12-1973' , 1 , 'NIL' , 'Street-8' , 'Mumbai' , 'Maharashtra');
insert into User1 values( 9 , 'Name-9' , '11-1-1976' , 0 , 'NIL' , 'Street-9' , 'Mumbai' , 'Maharashtra');
insert into User1 values( 10 , 'Name-10' , '11-18-1978' , 1 , 'NIL' , 'Street-10' , 'New Delhi' , 'Delhi');
insert into User1 values( 11 , 'Name-11' , '1-6-1975' , 1 , 'NIL' , 'Street-11' , 'Mumbai' , 'Maharashtra');
insert into User1 values( 12 , 'Name-12' , '11-1-1983' , 1 , 'NIL' , 'Street-12' , 'Mumbai' , 'Maharashtra');
insert into User1 values( 13 , 'Name-13' , '1-9-1983' , 1 , 'NIL' , 'Street-13' , 'New Delhi' , 'Delhi');
insert into User1 values( 14 , 'Name-14' , '10-12-1975' , 1 , 'NIL' , 'Street-14' , 'Mumbai' , 'Maharashtra');
insert into User1 values( 15 , 'Name-15' , '9-23-1977' , 0 , 'NIL' , 'Street-15' , 'Ahmedabad' , 'Gujarat');
insert into User1 values( 16 , 'Name-16' , '11-29-1982' , 1 , 'NIL' , 'Street-16' , 'New Delhi' , 'Delhi');
insert into User1 values( 17 , 'Name-17' , '3-19-1974' , 0 , 'NIL' , 'Street-17' , 'Mumbai' , 'Maharashtra');
insert into User1 values( 18 , 'Name-18' , '10-27-1973' , 0 , 'NIL' , 'Street-18' , 'New Delhi' , 'Delhi');
insert into User1 values( 19 , 'Name-19' , '3-18-1980' , 0 , 'NIL' , 'Street-19' , 'Kolkata' , 'West Bengal');
insert into User1 values( 20 , 'Name-20' , '8-15-1978' , 1 , 'NIL' , 'Street-20' , 'Kolkata' , 'West Bengal');
insert into User1 values( 21 , 'Name-21' , '10-12-1975' , 1 , 'NIL' , 'Street-21' , 'Mumbai' , 'Maharashtra');
insert into User1 values( 22 , 'Name-22' , '2-19-1983' , 1 , 'NIL' , 'Street-22' , 'Ahmedabad' , 'Gujarat');
insert into User1 values( 23 , 'Name-23' , '3-30-1987' , 1 , 'NIL' , 'Street-23' , 'Mumbai' , 'Maharashtra');
insert into User1 values( 24 , 'Name-24' , '10-28-1979' , 1 , 'NIL' , 'Street-24' , 'Ahmedabad' , 'Gujarat');
insert into User1 values( 25 , 'Name-25' , '7-26-1987' , 1 , 'NIL' , 'Street-25' , 'Kolkata' , 'West Bengal');
insert into User1 values( 26 , 'Name-26' , '12-23-1987' , 0 , 'NIL' , 'Street-26' , 'New Delhi' , 'Delhi');
insert into User1 values( 27 , 'Name-27' , '4-2-1984' , 1 , 'NIL' , 'Street-27' , 'Kolkata' , 'West Bengal');
insert into User1 values( 28 , 'Name-28' , '3-9-1984' , 0 , 'NIL' , 'Street-28' , 'Kolkata' , 'West Bengal');
insert into User1 values( 29 , 'Name-29' , '1-4-1985' , 0 , 'NIL' , 'Street-29' , 'Mumbai' , 'Maharashtra');
insert into User1 values( 30 , 'Name-30' , '5-19-1981' , 0 , 'NIL' , 'Street-30' , 'Kolkata' , 'West Bengal');
insert into User1 values( 31 , 'Name-31' , '11-5-1981' , 1 , 'NIL' , 'Street-31' , 'New Delhi' , 'Delhi');
insert into User1 values( 32 , 'Name-32' , '7-6-1975' , 1 , 'NIL' , 'Street-32' , 'New Delhi' , 'Delhi');
insert into User1 values( 33 , 'Name-33' , '9-4-1984' , 1 , 'NIL' , 'Street-33' , 'New Delhi' , 'Delhi');
```

```

insert into User1 values( 34 , 'Name-34','6-9-1985',1,'NIL','Street-34','New Delhi','Delhi');
insert into User1 values( 35 , 'Name-35','11-16-1984',0,'NIL','Street-35','Ahmedabad','Gujarat');
insert into User1 values( 36 , 'Name-36','4-19-1973',1,'NIL','Street-36','New Delhi','Delhi');
insert into User1 values( 37 , 'Name-37','5-19-1977',0,'NIL','Street-37','Kolkata','West Bengal');
insert into User1 values( 38 , 'Name-38','5-10-1985',0,'NIL','Street-38','New Delhi','Delhi');
insert into User1 values( 39 , 'Name-39','4-2-1975',0,'NIL','Street-39','Kolkata','West Bengal');
insert into User1 values( 40 , 'Name-40','2-20-1978',1,'NIL','Street-40','Mumbai','Maharashtra');
insert into User1 values( 41 , 'Name-41','2-19-1987',0,'NIL','Street-41','Mumbai','Maharashtra');
insert into User1 values( 42 , 'Name-42','11-30-1975',0,'NIL','Street-42','Mumbai','Maharashtra');
insert into User1 values( 43 , 'Name-43','12-18-1986',1,'NIL','Street-43','Mumbai','Maharashtra');
insert into User1 values( 44 , 'Name-44','2-21-1979',1,'NIL','Street-44','New Delhi','Delhi');
insert into User1 values( 45 , 'Name-45','9-2-1986',0,'NIL','Street-45','Ahmedabad','Gujarat');
insert into User1 values( 46 , 'Name-46','12-13-1983',0,'NIL','Street-46','Mumbai','Maharashtra');
insert into User1 values( 47 , 'Name-47','9-28-1977',0,'NIL','Street-47','Mumbai','Maharashtra');
insert into User1 values( 48 , 'Name-48','1-9-1979',1,'NIL','Street-48','Kolkata','West Bengal');
insert into User1 values( 49 , 'Name-49','3-8-1985',1,'NIL','Street-49','Mumbai','Maharashtra');
insert into User1 values( 50 , 'Name-50','1-3-1974',1,'NIL','Street-50','Mumbai','Maharashtra');
insert into user1 values( 51 , 'Name-51','7-5-1975',1,'NIL','Street-51','New Delhi','Delhi');
insert into user1 values( 52 , 'Name-52','4-16-1973',0,'NIL','Street-52','New Delhi','Delhi');
insert into user1 values( 53 , 'Name-53','6-29-1985',0,'NIL','Street-53','Ahmedabad','Gujarat');
insert into user1 values( 54 , 'Name-54','4-2-1976',0,'NIL','Street-54','Ahmedabad','Gujarat');
insert into user1 values( 55 , 'Name-55','12-23-1974',0,'NIL','Street-55','Ahmedabad','Gujarat');
insert into user1 values( 56 , 'Name-56','2-8-1982',0,'NIL','Street-56','Kolkata','West Bengal');
insert into user1 values( 57 , 'Name-57','1-9-1976',0,'NIL','Street-57','Kolkata','West Bengal');
insert into user1 values( 58 , 'Name-58','2-12-1982',1,'NIL','Street-58','New Delhi','Delhi');
insert into user1 values( 59 , 'Name-59','3-17-1974',0,'NIL','Street-59','Ahmedabad','Gujarat');
insert into user1 values( 60 , 'Name-60','3-1-1986',1,'NIL','Street-60','Mumbai','Maharashtra');
insert into user1 values( 61 , 'Name-61','2-9-1984',1,'NIL','Street-61','Mumbai','Maharashtra');
insert into user1 values( 62 , 'Name-62','1-24-1986',1,'NIL','Street-62','New Delhi','Delhi');
insert into user1 values( 63 , 'Name-63','12-27-1985',0,'NIL','Street-63','Kolkata','West Bengal');
insert into user1 values( 64 , 'Name-64','6-29-1973',0,'NIL','Street-64','Mumbai','Maharashtra');
insert into user1 values( 65 , 'Name-65','4-6-1984',1,'NIL','Street-65','Kolkata','West Bengal');
insert into user1 values( 66 , 'Name-66','5-16-1982',1,'NIL','Street-66','Ahmedabad','Gujarat');
insert into user1 values( 67 , 'Name-67','5-10-1979',0,'NIL','Street-67','Mumbai','Maharashtra');
insert into user1 values( 68 , 'Name-68','8-7-1984',1,'NIL','Street-68','New Delhi','Delhi');
insert into user1 values( 69 , 'Name-69','2-24-1987',0,'NIL','Street-69','Ahmedabad','Gujarat');
insert into user1 values( 70 , 'Name-70','6-21-1979',0,'NIL','Street-70','Mumbai','Maharashtra');

```

DATA DICTIONARY

1) Login

Object Type **TABLE** Object **LOGIN**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
LOGIN	USERNAME	VARCHAR2	20	-	-	-	-	-	-
	PASSWORD	VARCHAR2	20	-	-	-	-	-	-
1 - 2									

2) User

Object Type TABLE Object USER1

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
USER1	USER_ID	NUMBER	22	-	0	1	-	-	-
	NAME	VARCHAR2	20	-	-	-	-	-	-
	DATE_OF_BIRTH	DATE	7	-	-	-	-	-	-
	MEDICAL_INSURANCE	NUMBER	22	-	0	-	✓	-	-
	MEDICAL_HISTORY	VARCHAR2	20	-	-	-	✓	-	-
	STREET	VARCHAR2	20	-	-	-	✓	-	-
	CITY	VARCHAR2	20	-	-	-	✓	-	-
	STATE	VARCHAR2	20	-	-	-	✓	-	-
1 - 8									

3) User Phone No.

Object Type TABLE Object USER_PHONE_NO

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
USER_PHONE_NO	USER_ID	NUMBER	22	-	0	-	-	-	-
	PHONE_NO	VARCHAR2	15	-	-	-	✓	-	-
1 - 2									

4) Organization

Object Type TABLE Object ORGANIZATION

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ORGANIZATION	ORGANIZATION_ID	NUMBER	22	-	0	1	-	-	-
	ORGANIZATION_NAME	VARCHAR2	20	-	-	-	-	-	-
	LOCATION	VARCHAR2	20	-	-	-	✓	-	-
	GOVERNMENT_APPROVED	NUMBER	22	-	0	-	✓	-	-
1 - 4									

5) Doctor

Object Type **TABLE** Object **DOCTOR**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DOCTOR	<u>DOCTOR_ID</u>	NUMBER	22	-	0	1	-	-	-
	<u>DOCTOR_NAME</u>	VARCHAR2	20	-	-	-	-	-	-
	<u>DEPARTMENT_NAME</u>	VARCHAR2	20	-	-	-	-	-	-
	<u>ORGANIZATION_ID</u>	NUMBER	22	-	0	-	-	-	-
									1 - 4

6) Patient

Object Type **TABLE** Object **PATIENT**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PATIENT	<u>PATIENT_ID</u>	NUMBER	22	-	0	1	-	-	-
	<u>ORGAN_REQ</u>	VARCHAR2	20	-	-	-	-	-	-
	<u>REASON_OF PROCUREMENT</u>	VARCHAR2	20	-	-	-	✓	-	-
	<u>DOCTOR_ID</u>	NUMBER	22	-	0	-	-	-	-
	<u>USER_ID</u>	NUMBER	22	-	0	-	-	-	-
									1 - 5

7) Donor

Object Type **TABLE** Object **DONOR**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DONOR	<u>DONOR_ID</u>	NUMBER	22	-	0	1	-	-	-
	<u>ORGAN_DONATED</u>	VARCHAR2	20	-	-	-	✓	-	-
	<u>REASON_OF_DONATION</u>	VARCHAR2	20	-	-	-	✓	-	-
	<u>ORGANIZATION_ID</u>	NUMBER	22	-	0	-	-	-	-
	<u>USER_ID</u>	NUMBER	22	-	0	-	-	-	-
									1 - 5

8) Organ Available

Object Type **TABLE** Object **ORGAN_AVAILABLE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ORGAN_AVAILABLE	ORGAN_ID	NUMBER	22	-	0	1	-	-	-
	ORGAN_NAME	VARCHAR2	20	-	-	-	-	-	-
	DONOR_ID	NUMBER	22	-	0	-	-	-	-
1 - 3									

9) Transaction

Object Type **TABLE** Object **TRANSACTION**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TRANSACTION	PATIENT_ID	NUMBER	22	-	0	1	-	-	-
	ORGAN_ID	NUMBER	22	-	0	2	-	-	-
	DONOR_ID	NUMBER	22	-	0	-	-	-	-
	DATE_OF_TRANSACTION	DATE	7	-	-	-	-	-	-
	STATUS	NUMBER	22	-	0	-	-	-	-
1 - 5									

10) Organization Phone No.

Object Type **TABLE** Object **ORGANIZATION_PHONE_NO**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ORGANIZATION_PHONE_NO	ORGANIZATION_ID	NUMBER	22	-	0	-	-	-	-
	PHONE_NO	VARCHAR2	15	-	-	-	✓	-	-
1 - 2									

11) Doctor Phone No.

Object Type **TABLE** Object **DOCTOR_PHONE_NO**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DOCTOR_PHONE_NO	DOCTOR_ID	NUMBER	22	-	0	-	-	-	-
	PHONE_NO	VARCHAR2	15	-	-	-	✓	-	-
1 - 2									

12) Organization Head

Object Type **TABLE** Object **ORGANIZATION_HEAD**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ORGANIZATION_HEAD	ORGANIZATION_ID	NUMBER	22	-	0	1	-	-	-
	EMPLOYEE_ID	NUMBER	22	-	0	2	-	-	-
	NAME	VARCHAR2	20	-	-	-	-	-	-
	DATE_OF_JOINING	DATE	7	-	-	-	-	-	-
	TERM_LENGTH	NUMBER	22	-	0	-	-	-	-
1 - 5									

13) Death Records

Object Type **TABLE** Object **DEATH_RECORDS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEATH_RECORDS	DEATH_ID	NUMBER	22	-	0	1	-	-	-
	NAME	VARCHAR2	20	-	-	-	-	-	-
	REASON_OF_DEATH	VARCHAR2	20	-	-	-	-	-	-
	MEDICAL_HISTORY	VARCHAR2	20	-	-	-	✓	-	-
	MEDICAL_INSURANCE	NUMBER	22	-	0	-	-	-	-
	CITY	VARCHAR2	20	-	-	-	✓	-	-
	STREET	VARCHAR2	20	-	-	-	✓	-	-
	STATE	VARCHAR2	20	-	-	-	✓	-	-
	DATE_OF_BIRTH	DATE	7	-	-	-	-	-	-
	DONATE_STATUS	NUMBER	22	-	0	-	-	-	-
	PERSPECTIVE	VARCHAR2	20	-	-	-	✓	-	-
1 - 11									

14) Log

Object Type **TABLE** Object **LOG**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>LOG</u>	<u>QUERY_TIME</u>	CHAR	30	-	-	-	✓	-	-
	<u>COMMENTS</u>	VARCHAR2	255	-	-	-	✓	-	-
	<u>NEWLY_ADDED</u>	VARCHAR2	255	-	-	-	✓	-	-
1 - 3									

15) Recovery Table

Object Type **TABLE** Object **RECOVERY_TABLE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>RECOVERY_TABLE</u>	<u>QUERY_TIME</u>	CHAR	30	-	-	-	✓	-	-
	<u>TABLENAME</u>	VARCHAR2	255	-	-	-	✓	-	-
	<u>DATA</u>	VARCHAR2	255	-	-	-	✓	-	-
1 - 3									

STORED PROCEDURES, FUNCTIONS, AND TRIGGER

PROCEDURES

1) PROCEDURE TO GET DOCTOR TRANSACTION COUNT

```
create or replace procedure get_doctor_transaction_count
as cursor c_doctor is select distinct(patient.doctor_id),
doctor.doctor_name,doctor.department_name,
doctor.organization_id from patient,
doctor where patient.doctor_id=doctor.doctor_id;
cursor c_organ is select distinct(organ_donated) from donor;
cursor c_details is select doctor_id,organ_req,patient_id from patient
where exists(select patient_id from transaction
where patient.patient_id=transaction.patient_id);
r_doctor c_doctor%ROWTYPE;
r_organ c_organ%ROWTYPE;
r_details c_details%ROWTYPE;
count_organ int:=0;
total_count int:=0;
```

```
begin
OPEN c_doctor;
LOOP
Fetch c_doctor into r_doctor;
EXIT WHEN c_doctor%NOTFOUND;
dbms_output.put_line(r_doctor.doctor_id);
dbms_output.put_line(r_doctor.doctor_name);
dbms_output.put_line(r_doctor.department_name);
dbms_output.put_line(r_doctor.organization_id);
count_organ:=0;

OPEN c_organ;
LOOP
Fetch c_organ into r_organ;
| EXIT WHEN c_organ%NOTFOUND;

EXIT WHEN c_doctor%NOTFOUND;
dbms_output.put_line(r_doctor.doctor_id);
dbms_output.put_line(r_doctor.doctor_name);
dbms_output.put_line(r_doctor.department_name);
dbms_output.put_line(r_doctor.organization_id);
count_organ:=0;

OPEN c_organ;
LOOP
Fetch c_organ into r_organ;
EXIT WHEN c_organ%NOTFOUND;
count_organ:=0;

OPEN c_details;
LOOP
```

```

        Fetch c_details into r_details;
        EXIT WHEN c_details%NOTFOUND;
        if(r_organ.organ_donated=r_details.organ_req
|and r_details.doctor_id=r_doctor.doctor_id) then
            count_organ:=count_organ+1;
        total_count:=total_count+1;
            end if;
            end loop;
            close c_details;
        dbms_output.put_line(count_organ);
        end loop;
        close c_organ;

    end loop;
    close c_doctor;
    dbms_output.put_line(total_count);
end;

declare
begin
    get_doctor_transaction_count ;
end;

select * from patient where user_id=89
dbms_output.put_line(r_organ.organ_donated);

```

2) PROCEDURE TO GET DOCTOR TRANSACTION BY INSERTING DOCTOR NAME

```

create or replace procedure get_doctor_transaction_count_p(doctor_name varchar)
as cursor c_doctor is select distinct(patient.doctor_id),doctor.doctor_name,
doctor.department_name,doctor.organization_id from patient,
doctor where patient.doctor_id=doctor.doctor_id;
cursor c_organ is select distinct(organ_donated) from donor;
cursor c_details is select doctor_id,organ_req,patient_id from patient
where exists(select patient_id from transaction
where patient.patient_id=transaction.patient_id);
r_doctor c_doctor%ROWTYPE;
r_organ c_organ%ROWTYPE;
r_details c_details%ROWTYPE;
count_organ int:=0;
total_count int:=0;

begin
OPEN c_doctor;
LOOP
Fetch c_doctor into r_doctor;
EXIT WHEN c_doctor%NOTFOUND;
if(r_doctor.doctor_name=doctor_name) then
dbms_output.put_line(r_doctor.doctor_id);
dbms_output.put_line(r_doctor.doctor_name);
dbms_output.put_line(r_doctor.department_name);
dbms_output.put_line(r_doctor.organization_id);
count_organ:=0;

OPEN c_organ;
LOOP

```

```

Fetch c_organ into r_organ;
EXIT WHEN c_organ%NOTFOUND;
count_organ:=0;

OPEN c_details;
LOOP
Fetch c_details into r_details;
EXIT WHEN c_details%NOTFOUND;
if(r_organ.organ_donated=r_details.organ_req
and r_details.doctor_id=r_doctor.doctor_id) then
    count_organ:=count_organ+1;
total_count:=total_count+1;
    end if;
    end loop;
    --
close c_details;
dbms_output.put_line(count_organ);
end loop;
close c_organ;
end if;
end loop;
close c_doctor;
dbms_output.put_line(total_count);
end;

declare
begin
get_doctor_transaction_count_p('Doctor-1');
end;

```

3) PROCEDURE TO GET ORGAN AVAILABLE COUNT CITY BASED

```

create or replace procedure get_organ_available_count (city varchar)
as cursor c_organ is select distinct(organ_donated) from donor;
cursor c_details is select donor.donor_id,donor.organ_donated,
donor.user_id,user1.city from donor,user1 where not exists
(select donor_id from transaction where donor.donor_id=transaction.donor_id)
and donor.user_id=user1.user_id;
r_organ c_organ%ROWTYPE;
r_details c_details%ROWTYPE;
count_temp int:=0;

begin
OPEN c_organ;
LOOP
Fetch c_organ into r_organ;

EXIT WHEN c_organ%NOTFOUND;
count_temp:=0;

OPEN c_details;
LOOP
Fetch c_details into r_details;
EXIT WHEN c_details%NOTFOUND;
if(r_details.organ_donated=r_organ.organ_donated
and r_details.city=city) then
    count_temp:=count_temp+1;
end if;
end loop;
close c_details;
dbms_output.put_line(count_temp);

end loop;
close c_organ;
end;

declare

begin
    get_organ_available_count('Ahmedabad');
end;

```

4) PROCEDURE TO GET FAILURE ORGANWISE

```
create or replace procedure GET_FAILURE_ORGANWISE as
cursor c_details is select transaction.PATIENT_ID,
transaction.ORGAN_ID,transaction.DONOR_ID,transaction.DATE_OF_TRANSACTION,
transaction.STATUS,donor.organ_donated from transaction,donor
where donor.donor_id=transaction.donor_id and status=0;
r_details c_details%ROWTYPE;
cursor c_organ is select distinct(organ_donated) from donor;
r_organ c_organ%ROWTYPE;

count_total int:=0;
count_temp int:=0;
begin
OPEN c_organ;
LOOP
    FETCH c_organ INTO r_organ;
    EXIT WHEN c_organ%NOTFOUND;
    count_temp:=0;
        OPEN c_details;
        LOOP
            FETCH c_details INTO r_details;
            EXIT WHEN c_details%NOTFOUND;
            if(r_details.organ_donated=r_organ.organ_donated) then
                count_temp:=count_temp+1;
                count_total:=count_total+1;
            end if;
        end loop;
        close c_details;
    dbms_output.put_line(count_temp);
end loop;
```

```
close c_organ;
dbms_output.put_line(count_total);
end;
```

```
declare  
begin  
GET_FAILURE_ORGANWISE;  
end;
```

5) PROCEDURE TO GET PATIENT CITY BASED

```
create or replace procedure get_patient_city_based(user_city varchar,organ_required varchar)
as cursor c_user is  select user1.user_id,user1.name,user1.date_of_birth,
user1.medical_insurance,user1.medical_history,user1.street,
user1.city,user1.state,patient.organ_req from user1,patient
where user1.user_id=patient.user_id and
patient.organ_req=organ_required and user1.city=user_city;
r_user c_user%ROWTYPE;
count_done int:=0;

begin
OPEN c_user;
LOOP
Fetch c_user into r_user;
EXIT WHEN c_user%NOTFOUND;
```

```

dbms_output.put_line(r_user.user_id||','||r_user.name||',
'||r_user.date_of_birth||','||r_user.medical_insurance||',
'||r_user.medical_history||','||r_user.street||','||r_user.city||',
'||r_user.state||','||r_user.organ_req);
count_done:=count_done+1;
end loop;
close c_user;
dbms_output.put_line('Total Pending patients: '||count_done);
end;

declare
user_city varchar(20):=user_city;
organ_req varchar(20):=organ_required;

begin
get_patient_city_based(user_city,organ_req);
end;

```

6) PROCEDURE TO GET SUCCESS ORGANWISE

```

create or replace procedure GET_SUCCESS_ORGANWISE as
cursor c_details is select transaction.PATIENT_ID,
transaction.ORGAN_ID,transaction.DONOR_ID,
transaction.DATE_OF_TRANSACTION,transaction.STATUS,
donor.organ_donated from transaction,donor
where donor.donor_id=transaction.donor_id and status=1;
r_details c_details%ROWTYPE;
cursor c_organ is select distinct(organ_donated) from donor;
r_organ c_organ%ROWTYPE;

count_total int:=0;
count_temp int:=0;
begin
OPEN c_organ;
|LOOP

```

```

FETCH c_organ INTO r_organ;
EXIT WHEN c_organ%NOTFOUND;
count_temp:=0;

OPEN c_details;
LOOP
  FETCH c_details INTO r_details;
  EXIT WHEN c_details%NOTFOUND;
  if(r_details.organ_donated=r_organ.organ_donated) then
    count_temp:=count_temp+1;
    count_total:=count_total+1;
  end if;
  end loop;
  close c_details;

|
dbms_output.put_line(count_temp);
end loop;
close c_organ;
dbms_output.put_line(count_total);
end;

declare
begin
GET_SUCCESS_ORGANWISE;
end;

```

7) PROCEDURE TO GET USER CITY BASED

```

create or replace procedure get_user_city_based(user_city varchar)
as cursor c_user is  select user_id,name,date_of_birth,
medical_insurance,medical_history,street,city,
state from user1 where city=user_city;
r_user c_user%ROWTYPE;
count_done int:=0;

begin
OPEN c_user;
LOOP
Fetch c_user into r_user;
EXIT WHEN c_user%NOTFOUND;

dbms_output.put_line(r_user.user_id||','||r_user.name||',
'||r_user.date_of_birth||','||r_user.medical_insurance||',
'||r_user.medical_history||','||r_user.street||',
'||r_user.city||','||r_user.state);
count_done:=count_done+1;
end loop;
close c_user;
dbms_output.put_line('Total Pending patients: '||count_done);
end;
|
declare
user_city varchar(20):=user_city;
begin
get_user_city_based(user_city);
end;

```

8) PROCEDURE TO GET WAITING LIST

```

create or replace procedure get_waiting_patients
as cursor c_patient is  select patient.patient_id,
patient.organ_req,patient.reason_of_procurement,
patient.doctor_id,patient.user_id,user1.city from patient,
user1 where patient_id NOT IN (select patient_id from transaction)
and user1.user_id=patient.user_id;
r_patient c_patient%ROWTYPE;
count_pending int:=0;
count_done int:=0;

begin
OPEN c_patient;
LOOP
Fetch c_patient into r_patient;
|EXIT WHEN c_patient%NOTFOUND;

dbms_output.put_line(r_patient.patient_id||',
'||r_patient.ORGAN_REQ||','||r_patient.REASON_OF_PROCUREMENT||',
'||r_patient.DOCTOR_ID||','||r_patient.USER_ID||','||r_patient.city);
count_pending:=count_pending+1;
end loop;
close c_patient;
dbms_output.put_line('Total Pending patients: '||count_pending);
end;

declare
begin
get_waiting_patients;
end;

```

9) PROCEDURE TO GET WAITING LIST CITY BASED

```

create or replace procedure get_city_waiting_patients (city varchar)
as cursor c_patient is select patient.patient_id,
patient.organ_req,patient.reason_of_procurement,
patient.doctor_id,patient.user_id,user1.city from patient,user1
where patient_id NOT IN (select patient_id from transaction)
and user1.user_id=patient.user_id;
r_patient c_patient%ROWTYPE;
count_pending int:=0;
count_done int:=0;

begin
OPEN c_patient;
LOOP
Fetch c_patient into r_patient;
EXIT WHEN c_patient%NOTFOUND;

if(r_patient.city=city) then
dbms_output.put_line(r_patient.patient_id||',
'||r_patient.ORGAN_REQ||','||r_patient.REASON_OF_PROCUREMENT||',
'||r_patient.DOCTOR_ID||','||r_patient.USER_ID||','||r_patient.city);
count_pending:=count_pending+1;
end if;
end loop;
close c_patient;
dbms_output.put_line('Total Pending patients: '||count_pending);
end;

declare
begin
get_city_waiting_patients('Ahmedabad');
end;

```

10) PROCEDURE TO ADD DEATH OF USER

```

create or replace procedure ADD_DEATH_TO_USER(death_id int,
organ_donated varchar,reason_of_donation varchar,organization_id int)
as cursor c_death is select * from death_records;
r_death c_death%ROWTYPE;
count_done int:=0;
user_id int:=0;
begin
    open c_death;
    loop
        fetch c_death into r_death;
        EXIT WHEN c_death%NOTFOUND;
        if(r_death.death_id=death_id) then
            insert into user1 values((select count(*)+1 from user1),
|r_death.name,r_death.Date_of_birth,r_death.medical_insurance,
r_death.medical_history,r_death.street,r_death.city,r_death.state);

            insert into donor values((select count(*)+1 from donor),
organ_donated,reason_of_donation,organization_id,(select count(*) from user1));
            count_done:=1;
            end if;
    end loop;
    close c_death;
    if(count_done=1) then
        dbms_output.put_line('STORED VALUE');
    end if;
    if(count_done=0) then
        dbms_output.put_line('DATA NOT FOUND PLEASE CHECK YOUR INPUT AGAIN');
    end if;
end;

|declare
death_id int:='death_id';
organ_donated varchar(20):='organ_donated';
reason_of_donation varchar(20):='reason_donation';
organization_id int:='organization_id';
begin
ADD_DEATH_TO_USER(death_id,organ_donated,reason_of_donation,organization_id);
end;

```

TRIGGERS

1) Trigger for Adding Donor Information to Log Table

```
//1 Trigger for adding Donor information to Log table.  
create or replace trigger ADD_DONOR_LOG after insert on Donor  
for each row  
begin  
insert into log values(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI: |SS'),  
'Inserted new Donor : ', :new.Donor_Id );  
end;
```

2) Trigger for Adding Update Action Information in Log Table

```
//2 Trigger for adding "Update" action information in Log table  
create trigger UPD_DONOR_LOG  
after update  
on Donor  
for each row  
begin  
insert into log values  
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI: SS'), 'Updated Donor Details',  
:|new.Donor_Id);  
end
```

3) Trigger for Adding Delete Action Information in Log Table(ONLY FOR LOG TABLE)

```
//3 Trigger for adding “Delete” action information in Log table.  
create trigger DEL_DONOR_LOG  
after delete  
on Donor  
for each row  
begin  
insert into log values  
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI: SS'), 'Deleted Donor',  
:old.Donor_Id );  
end
```

4) Trigger for Adding Add Patient Action Information in Log Table

```
//4Trigger for adding “Add patient” action information in Log table  
create trigger ADD_PATIENT_LOG  
after insert  
on Patient  
for each row  
begin  
insert into log values  
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI: |SS'), 'Inserted new Patient'  
, :new.Patient_Id );  
end
```

5) Trigger for Adding Update Information Action Information in Log Table

```

//5 Trigger for adding “Update information” action information in Log table
create trigger UPD_PATIENT_LOG
after update
on Patient
for each row
begin
insert into log values
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI:SS'), 'Updated Patient Details', :new.Patient_Id);
end

```

6) Trigger for Adding Delete Information Action Information in Log

Table(UPDATING LOG TABLE)

```

//6 Trigger for adding “Delete information” action information in Log table
create trigger DEL_PATIENT_LOG
after delete
on PATIENT
for each row
begin
insert into log values
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI: SS'), 'Deleted Patient ',
: old.Donor_Id );
end

```

7) Trigger for Adding Add Transaction Action Information in Log Table

```

//7 Trigger for adding “Add transaction” action information in Log table
create trigger ADD_TRANSACTION_LOG
after insert
on Transaction
for each row
begin
insert into log values
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI:SS'), 'Added Transaction ::'
Patient ID,Donor ID : ',:new.Patient_ID || :new.Donor_ID );
end

```

8) Trigger to Insert or Update Government Approved Organization with 1 or 0.

```
//8 Trigger to insert or update government approved with 1 or 0
create or replace trigger validation_org_govt_approved
before insert or update on the organization
for each row
begin
    if inserting then
        if (:new.Government_approved=0 or :new.Government_approved=1) then

            dbms_output.put_line('Got it');
        else
            raise_application_error(-20001,'Invalid Item Type....');

        end if;
    end if;
    if updating then
        if (:new.Government_approved=0 or :new.Government_approved=1) then
            dbms_output.put_line('Got it');
        else
            raise_application_error(-20001,'Invalid Item Type....');
    end if;
        end if;
    end;
|insert into organization values((select count(*)+1 from organization),'NEW','ALSO',1);
```

9) Trigger to Insert or Update Status with 1 or 0

```

//9 Trigger to insert or update status with 1 or 0
create or replace trigger validation_transaction_status
before insert or update on transaction
for each row
begin
    if inserting then
        if (:new.status=0 or :new.status=1) then

            dbms_output.put_line('Got it');
        else
            raise_application_error(-20001,'Invalid Item Type....');

    end if;
end if;

    if updating then
        if (:new.status=0 or :new.status=1) then
            dbms_output.put_line('Got it');
        else
            raise_application_error(-20001,'Invalid Item Type....');
end if;
    end if;
end;

```

10) Trigger to Delete Transaction

```

//10 Trigger to delete transaction
create trigger DEL_TRANSACTION_LOG
after delete
on transaction
for each row
begin
insert into log values
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI:SS'), 'DELETED Transaction ::'
Patient ID,Donor ID : ',:old.Patient_ID || :old.Donor_ID );
end

```

11) Trigger to Add Perspective

```
//11 Trigger to add perspective
create or replace trigger ADD_DEATH_PERSPECTIVE
before insert on death_records
for each row
begin
    if (:new.donate_status=0) then
        :new.perspective:='Not approached';

    elsif (:new.donate_status=1) then
        :new.perspective:='approached-No';

    elsif (:new.donate_status=2) then
        :new.perspective:='approached-Yes';
    else
        raise_application_error(-20001,'Invalid Item Type....');
    end if;
end;
```

TRIGGERS FOR ADDING DATA IN RECOVERY TABLE

12) Trigger for Deletion Of User1

```
//12 Trigger for deletion of user1
create or replace trigger DEL_USER_LOG
after delete
on USER1
for each row
begin
insert into log values
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI:SS'),
'Deleted user',:old.user_Id );
insert into recovery_table values
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI:SS'), 'USER1',
:old.user_id||','||:old.name||','||:old.DATE_OF_BIRTH||',
'||:old.MEDICAL_INSURANCE||','||:old.MEDICAL_HISTORY||',
'||:old.street||','||:old.city||','||:old.state);
end ;
```

13) Trigger for Deletion Of Patient

```
//13 Trigger for deletion of patient
create or replace trigger DEL_PATIENT_LOG
after delete
on patient
for each row
begin
insert into log values
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI:SS'),
'Deleted patient',:old.patient_Id );
insert into recovery_table values
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI:SS'), 'PATIENT',
:old.patient_id||','||:old.organ_req||',
'||:old.REASON_OF_PROCUREMENT||',
'||:old.doctor_id||','||:old.user_id);
end ;
```

14) Trigger for Deletion Of Donor

```
//14 Trigger for deletion of donor
create or replace trigger DEL_DONOR_LOG
after delete
on Donor
for each row
begin
insert into log values
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI:SS'),
'Deleted Donor',:old.Donor_Id );
insert into recovery_table values
```

```
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI:SS'),
'Donor', :old.Donor_Id||','||:old.ORGAN_DONATED||',
'||:old.REASON_OF_DONATION||',
'||:old.ORGANIZATION_ID||','||:old.USER_ID );
end ;
```

15) Trigger for Deletion Of Doctor

```
//15 Trigger for deletion of doctor
create or replace trigger DEL_DOCTOR_LOG
after delete
on DOCTOR
for each row
begin
insert into log values
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI:SS'),
'Deleted DOCTOR',:old.DOCTOR_Id );
insert into recovery_table values

(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI:SS'),
'DOCTOR', :old.doctor_id||','||:old.doctor_name||',
'||:old.department_name||','||:old.organization_id);
end ;
```

16) Trigger for Deletion Of Organization

```
//16 Trigger for deletion of organization
create or replace trigger DEL_ORGANIZATION_LOG
after delete
on ORGANIZATION
for each row
begin
insert into log values
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI: SS'),
'Deleted ORGANIZATION',: |old.ORGANIZATION_Id );
insert into recovery_table values

(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI:SS'), 'ORGANIZATION',
:old.ORGANIZATION_id||','||:old.ORGANIZATION_name||',
'||:old.location||','||:old.GOVERNMENT_APPROVED);
end ;
```

17) Trigger for Deletion Of Organ Available

```
//17 Trigger for deletion of organ_available
create or replace trigger DEL_ORG_AVAILABLE_LOG
after delete
on ORGAN_AVAILABLE
for each row
begin
insert into log values
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI: SS'),
'Deleted ORGAN_AVAILABLE',: |old.ORGAN_Id );
```

```
insert into recovery_table values
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI:SS'),
'ORGAN_AVAILABLE', :old.ORGAN_id||',
'||:old.ORGAN_name||','||:old.DONOR_ID);
end ;
```

18) Trigger for Deletion Of Transaction

```
//18 Trigger for deletion of transaction(ERROR)
create or replace trigger DEL_TRANSACTION_LOG
after delete
on TRANSACTION
for each row
begin
insert into log values
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI:SS'),
'Deleted TRANSACTION',:old.patient_Id||','||:old.donor_id );
```

```
insert into recovery_table values
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI:SS'),
'TRANSACTION', :old.patient_id||','||:old.organ_id||',
'||:old.DONOR_ID||','||:old.date_of_transaction||',
'||:old.status);
end ;
```

19) Trigger for Deletion Of Organization Head

```

//19 Trigger for deletion of organization_head
create or replace trigger DEL_ORGANIZATION_HEAD_LOG
after delete
on ORGANIZATION_HEAD
for each row
begin
insert into log values
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI: |SS'),
'Deleted ORGANIZATION_HEAD',:old.organization_id );

insert into recovery_table values
(TO_CHAR(CURRENT_DATE, 'DD-MON-YYYY HH:MI:SS'),
'ORGANIZATION_HEAD', :old.organization_id||',
'||:old.employee_id||','||:old.name||',
'||:old.date_of_joining||','||:old.term_length);
end ;

```

20) Trigger for Validating User's Medical Insurance

```

//20 Trigger for Validating User's Medical Insurance
create or replace trigger validation_user1_MED_INSURANCE
before insert or update on user1
for each row
begin
    if inserting then
        if (:new.MEDICAL_INSURANCE=0 or :new.MEDICAL_INSURANCE=1)
        |then
            dbms_output.put_line('Got it');
        else
            raise_application_error(-20001,'Invalid Item Type....');

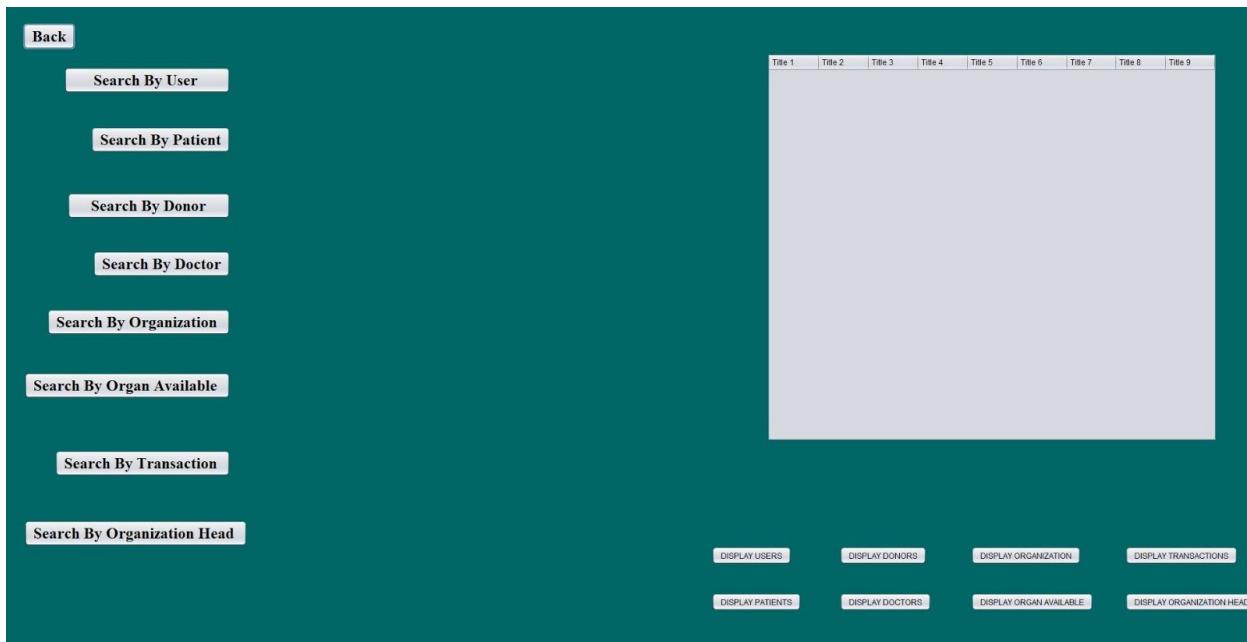
```

```
        end if;
    end if;

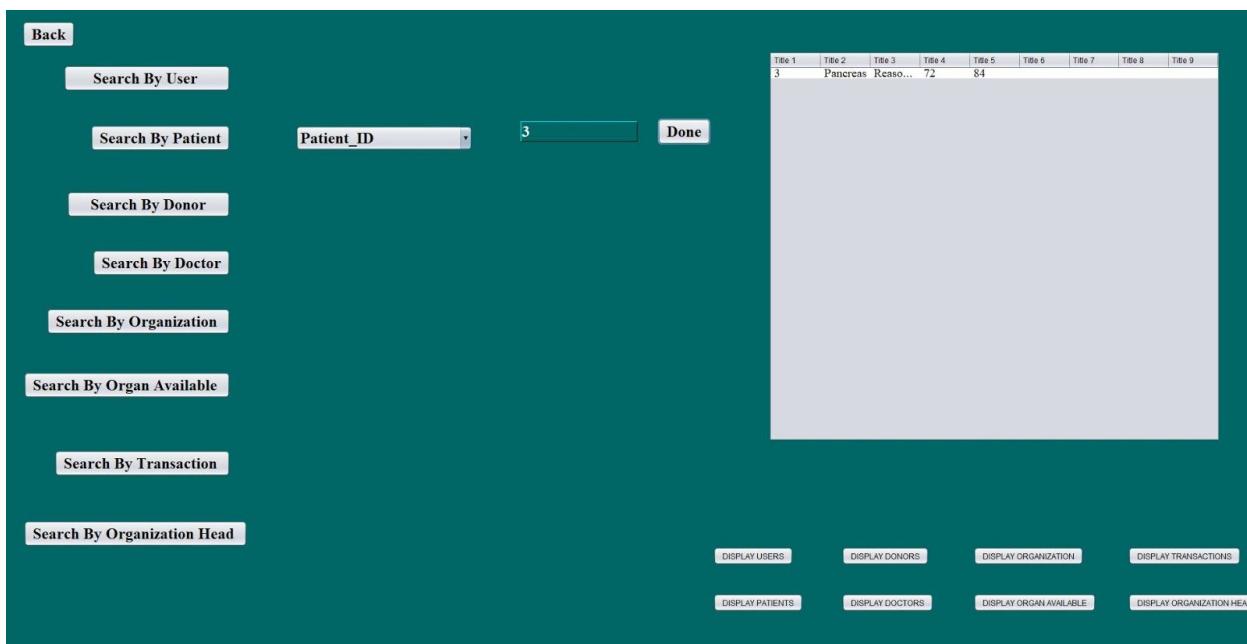
    if updating then
        if (:new.MEDICAL_INSURANCE=0 or :new.MEDICAL_INSURANCE=1) then
            dbms_output.put_line('Got it');
        else
            raise_application_error(-20001,'Invalid Item Type....');
    end if;
        end if;
end;
```

SCREENSHOTS OF RESULTS GENERATED AFTER PROCEDURE AND FUNCTION ARE CALLED ON FRONT-END

SEARCH SCREEN



After pressing search by patient button, we see this screen i.e. SEARCH PATIENT BY ID



After pressing search by user button, we see this screen i.e. SEARCH USER BY NAME

Back

Search By User Name Done

Search By Patient

Search By Donor

Search By Doctor

Search By Organization

Search By Organ Available

Search By Transaction

Search By Organization Head

DISPLAY USERS DISPLAY DONORS DISPLAY ORGANIZATION DISPLAY TRANSACTIONS

DISPLAY PATIENTS DISPLAY DOCTORS DISPLAY ORGAN AVAILABLE DISPLAY ORGANIZATION HEAD

Title 1	Title 2	Title 3	Title 4	Title 5	Title 6	Title 7	Title 8	Title 9
1	Name-1	1978-0... 1	NIL	Street-1	New ...	Delhi		

After pressing search by user ID button, we see this screen i.e. SEARCH USER BY USER ID

Back

Search By User User_ID Done

Search By Patient

Search By Donor

Search By Doctor

Search By Organization

Search By Organ Available

Search By Transaction

Search By Organization Head

DISPLAY USERS DISPLAY DONORS DISPLAY ORGANIZATION DISPLAY TRANSACTIONS

DISPLAY PATIENTS DISPLAY DOCTORS DISPLAY ORGAN AVAILABLE DISPLAY ORGANIZATION HEAD

Title 1	Title 2	Title 3	Title 4	Title 5	Title 6	Title 7	Title 8	Title 9
1	Name-1	1978-0... 1	NIL	Street-1	New ...	Delhi		

After pressing Search By Transaction and selecting status from the combo box and entering value 1, we get this screen i.e. SEARCH SUCCESSFUL TRANSACTION

Back

Search By User

Search By Patient

Search By Donor

Search By Doctor

Search By Organization

Search By Organ Available

Search By Transaction Status Done

Search By Organization Head

Title 1	Title 2	Title 3	Title 4	Title 5	Title 6	Title 7	Title 8	Title 9
97	19	19	2013...	1				
156	154	154	2017...	1				
113	110	110	2017...	1				
111	164	164	2012...	1				
34	106	106	2014...	1				
69	97	97	2012...	1				
68	77	77	2012...	1				
60	186	186	2014...	1				
142	44	44	2016...	1				
199	10	10	2016...	1				
120	121	121	2012...	1				
38	102	102	2012...	1				
63	131	131	2017...	1				
169	165	165	2014...	1				
186	83	83	2014...	1				
30	82	82	2014...	1				
70	60	60	2013...	1				
162	52	52	2016...	1				
124	29	29	2017...	1				
110	53	53	2017...	1				
184	57	57	2012...	1				
82	96	96	2014...	1				
145	72	72	2012...	1				
91	126	126	2014...	1				
167	111	111	2015...	1				
172	21	21	2014...	1				
58	87	87	2013...	1				
176	107	107	2013...	1				
72	191	191	2012...	1				
107	173	173	2017...	1				
55	134	134	2014...	1				
196	135	135	2017...	1				
26	23	23	2013...	1				
31	152	152	2014...	1				
161	78	78	2012...	1				
155	55	55	2012...	1				

DISPLAY USERS DISPLAY DONORS DISPLAY ORGANIZATION DISPLAY TRANSACTIONS
DISPLAY PATIENTS DISPLAY DOCTORS DISPLAY ORGAN AVAILABLE DISPLAY ORGANIZATION HEAD

After clicking Search By Organization, selecting Government Approved from the combo box and entering value 1, we get this screen i.e. SEARCH ORGANIZATION GOVERNMENT APPROVED

Back

Search By User

Search By Patient

Search By Donor

Search By Doctor

Search By Organization GOVERNMENT_AP... * Done

Search By Organ Available

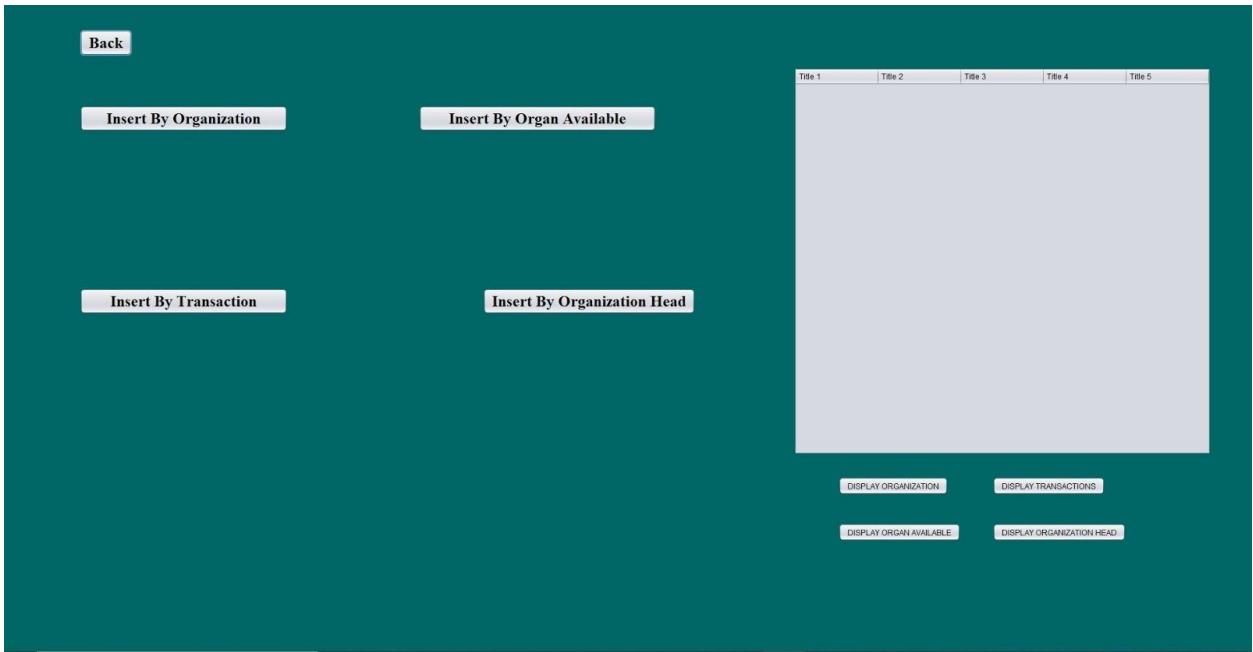
Search By Transaction

Search By Organization Head

Title 1	Title 2	Title 3	Title 4	Title 5	Title 6	Title 7	Title 8	Title 9
1	Organi...	New ...	1					
4	Organi...	Kolkata	1					
5	Organi...	Kolkata	1					
9	Organi...	Kolkata	1					
10	Organi...	Ahme...	1					
11	Organi...	Ahme...	1					
14	Organi...	Ahme...	1					
17	Organi...	Kolkata	1					
18	Organi...	Mumbai	1					
19	Organi...	Ahme...	1					
20	Organi...	Ahme...	1					
23	Organi...	Mumbai	1					
29	Organi...	Mumbai	1					
30	Organi...	New ...	1					
38	Organi...	New ...	1					
39	Organi...	Kolkata	1					
43	Organi...	New ...	1					
45	Organi...	Mumbai	1					
47	Organi...	New ...	1					
48	Organi...	New ...	1					
50	Organi...	Kolkata	1					
59	Organi...	Kolkata	1					
61	Organi...	Mumbai	1					
62	Organi...	Kolkata	1					
63	Organi...	Mumbai	1					
70	Organi...	Ahme...	1					
71	Organi...	Ahme...	1					
72	Organi...	Ahme...	1					
77	Organi...	Ahme...	1					
78	Organi...	New ...	1					
82	Organi...	Ahme...	1					
84	Organi...	Mumbai	1					
87	Organi...	Kolkata	1					
89	Organi...	Ahme...	1					
95	Organi...	Mumbai	1					

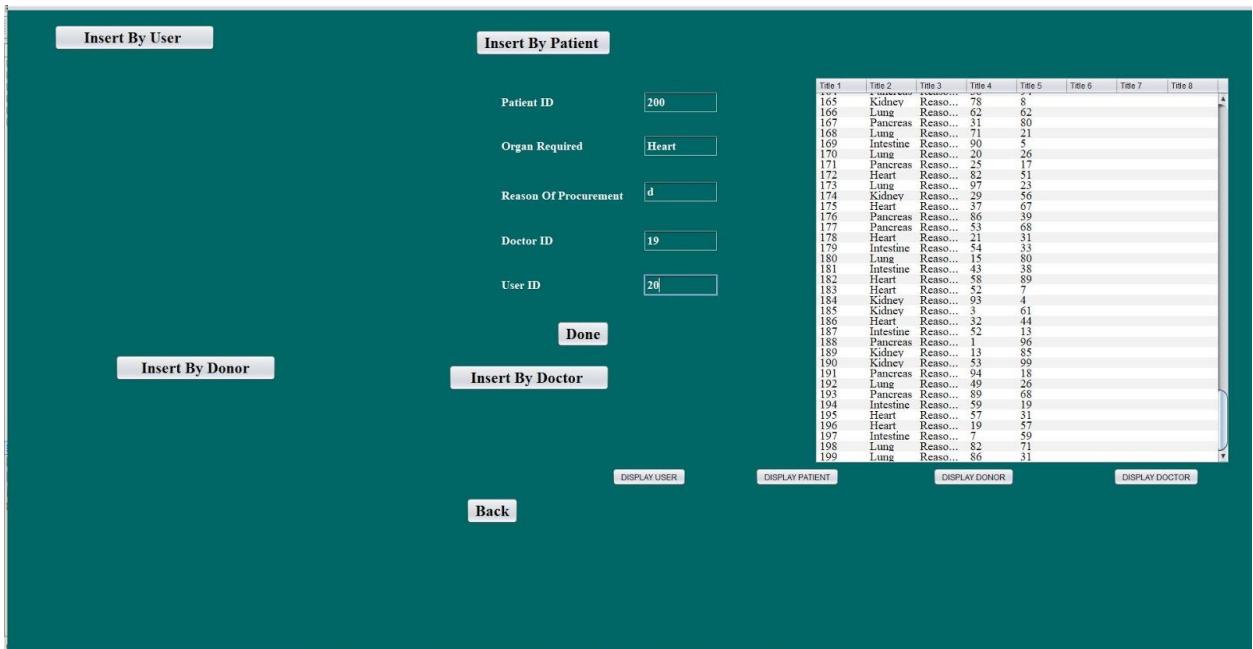
DISPLAY USERS DISPLAY DONORS DISPLAY ORGANIZATION DISPLAY TRANSACTIONS
DISPLAY PATIENTS DISPLAY DOCTORS DISPLAY ORGAN AVAILABLE DISPLAY ORGANIZATION HEAD

INSERT SCREEN 2



INSERT PATIENT BEFORE DONE

After pressing DONE button, the values will be inserted in the Patient Table.



INSERT PATIENT DATA DISPLAY (NEW DATA INSERTED PATIENT ID:200)

Title 1	Title 2	Title 3	Title 4	Title 5	Title 6	Title 7	Title 8
166	Lung	Reaso...	62	62			
167	Pancreas	Reaso...	31	80			
168	Lung	Reaso...	71	21			
169	Intestine	Reaso...	90	5			
170	Lung	Reaso...	20	26			
171	Pancreas	Reaso...	25	17			
172	Heart	Reaso...	82	51			
173	Lung	Reaso...	97	23			
174	Kidney	Reaso...	29	56			
175	Heart	Reaso...	37	67			
176	Pancreas	Reaso...	86	39			
177	Pancreas	Reaso...	53	68			
178	Heart	Reaso...	21	31			
179	Intestine	Reaso...	54	33			
180	Lung	Reaso...	15	80			
181	Intestine	Reaso...	43	38			
182	Heart	Reaso...	58	89			
183	Heart	Reaso...	52	7			
184	Kidney	Reaso...	93	4			
185	Kidney	Reaso...	3	61			
186	Heart	Reaso...	32	44			
187	Intestine	Reaso...	52	13			
188	Pancreas	Reaso...	1	96			
189	Kidney	Reaso...	13	85			
190	Kidney	Reaso...	53	99			
191	Pancreas	Reaso...	94	18			
192	Lung	Reaso...	49	26			
193	Pancreas	Reaso...	89	68			
194	Intestine	Reaso...	59	19			
195	Heart	Reaso...	57	31			
196	Heart	Reaso...	19	57			
197	Intestine	Reaso...	7	59			
198	Lung	Reaso...	82	71			
199	Lung	Reaso...	86	31			
200	Heart	d	19	20			

Press INSERT BY DONOR BUTTON so donor textfields will be visible.

After pressing DONE button, the values will be inserted in the Donor Table.

Title 1	Title 2	Title 3	Title 4	Title 5	Title 6	Title 7	Title 8
165	Lung	Resaso...	13	73			
166	Lung	Resaso...	12	69			
167	Pancreas	Resaso...	58	1			
168	Pancreas	Resaso...	12	26			
169	Intestine	Resaso...	29	89			
170	Intestine	Resaso...	14	77			
171	Kidney	Resaso...	80	33			
172	Kidney	Resaso...	19	3			
173	Intestine	Resaso...	98	92			
174	Kidney	Resaso...	65	70			
175	Kidney	Resaso...	80	37			
176	Lung	Resaso...	90	58			
177	Intestine	Resaso...	47	60			
178	Intestine	Resaso...	31	33			
179	Intestine	Resaso...	38	55			
180	Heart	Resaso...	98	1			
181	Pancreas	Resaso...	1	83			
182	Kidney	Resaso...	54	75			
183	Heart	Resaso...	30	50			
184	Lung	Resaso...	60	84			
185	Heart	Resaso...	69	88			
186	Pancreas	Resaso...	16	82			
187	Intestine	Resaso...	56	51			
188	Pancreas	Resaso...	27	53			
189	Pancreas	Resaso...	60	39			
190	Heart	Resaso...	11	26			
191	Intestine	Resaso...	33	42			
192	Intestine	Resaso...	36	31			
193	Intestine	Resaso...	40	98			
194	Kidney	Resaso...	39	50			
195	Kidney	Resaso...	18	22			
196	Pancreas	Resaso...	81	94			
197	Heart	Resaso...	17	8			
198	Lung	Resaso...	63	43			
199	Kidney	Resaso...	93	47			

Insert By User **Insert By Patient** **Insert By Doctor** **Insert By Donor**

Donor ID:
Organ Donated:
Reason Of Donation:
User ID:
Organization ID:

Done

DISPLAY USER **DISPLAY PATIENT** **DISPLAY DOCTOR** **DISPLAY DONOR**

Back

VALUES INSERTED IN DONOR TABLE

Title 1	Title 2	Title 3	Title 4	Title 5	Title 6	Title 7	Title 8
200	Kidney	d	100	2			
201	d		1	1			
202	Pancreas	Resaso...	79	41			
203	Pancreas	Resaso...	1	95			
204	Intestine	Resaso...	60	96			
205	Kidney	Resaso...	69	72			
206	Pancreas	Resaso...	59	89			
207	Kidney	Resaso...	51	43			
208	Kidney	Resaso...	53	61			
209	Heart	Resaso...	17	16			
210	Heart	Resaso...	24	50			
211	Kidney	Resaso...	8	92			
212	Pancreas	Resaso...	64	58			
213	Pancreas	Resaso...	18	45			
214	Pancreas	Resaso...	10	75			
215	Heart	Resaso...	50	53			
216	Intestine	Resaso...	27	31			
217	Intestine	Resaso...	72	94			
218	Intestine	Resaso...	97	7			
219	Pancreas	Resaso...	69	67			
220	Intestine	Resaso...	40	28			
221	Pancreas	Resaso...	77	40			
222	Lung	Resaso...	56	50			
223	Heart	Resaso...	81	99			
224	Lung	Resaso...	89	50			
225	Intestine	Resaso...	43	30			
226	Intestine	Resaso...	60	50			
227	Lung	Resaso...	33	92			
228	Pancreas	Resaso...	67	93			
229	Intestine	Resaso...	42	58			
230	Kidney	Resaso...	27	32			
231	Heart	Resaso...	4	27			
232	Lung	Resaso...	71	72			
233	Kidney	Resaso...	55	8			

Insert By User **Insert By Patient** **Insert By Doctor** **Insert By Donor**

Donor ID:
Organ Donated:
Reason Of Donation:
User ID:
Organization ID:

Done

DISPLAY USER **DISPLAY PATIENT** **DISPLAY DOCTOR** **DISPLAY DONOR**

Back

DELETE SCREEN:

PRESS DELETE BY USER BUTTON , the combo box of column names and textfield will be visible.

This screenshot shows the delete screen. At the top left is a 'Back' button. Below it are several 'Delete By' buttons: 'Delete By User', 'Delete By Patient', 'Delete By Donor', 'Delete By Doctor', 'Delete By Organization', 'Delete By Organ Available', 'Delete By Transaction', and 'Delete By Organization Head'. To the right of these buttons is a dropdown menu labeled 'USER_ID' with a dropdown arrow. Next to the dropdown is a 'Done' button. Below the buttons is a large table with columns labeled 'Title 1', 'Title 2', 'Title 3', 'Title 4', and 'Title 5'. The table contains numerous rows of data. At the bottom right of the screen are several 'DISPLAY' buttons: 'DISPLAY USERS', 'DISPLAY DONORS', 'DISPLAY ORGANIZATION', 'DISPLAY PATIENTS', 'DISPLAY DOCTORS', 'DISPLAY ORGAN AVAILABLE', and 'DISPLAY TRANSACTION'.

Title 1	Title 2	Title 3	Title 4	Title 5
1	Name-1	1978-08-21 00... 1	NIL	
52	Name-52	1973-04-16 00... 0	NIL	
2	Name-2	1975-12-10 00... 0	NIL	
3	Name-3	1976-03-18 00... 0	NIL	
4	Name-4	1985-10-13 00... 1	NIL	
5	Name-5	1983-10-12 00... 1	NIL	
6	Name-6	1977-09-18 00... 1	NIL	
7	Name-7	1976-02-28 00... 0	NIL	
8	Name-8	1973-04-12 00... 1	NIL	
9	Name-9	1976-11-01 00... 0	NIL	
10	Name-10	1978-03-01 00... 1	NIL	
11	Name-11	1975-01-06 00... 1	NIL	
12	Name-12	1983-11-01 00... 1	NIL	
13	Name-13	1983-01-09 00... 1	NIL	
14	Name-14	1977-09-15 00... 1	NIL	
15	Name-15	1977-09-23 00... 0	NIL	
16	Name-16	1982-11-29 00... 1	NIL	
17	Name-17	1974-03-19 00... 0	NIL	
18	Name-18	1978-03-15 00... 0	NIL	
19	Name-19	1980-03-18 00... 0	NIL	
20	Name-20	1978-08-15 00... 1	NIL	
21	Name-21	1975-10-12 00... 1	NIL	
22	Name-22	1983-03-01 00... 1	NIL	
23	Name-23	1987-03-30 00... 1	NIL	
24	Name-24	1979-10-28 00... 1	NIL	
25	Name-25	1987-07-26 00... 1	NIL	
26	Name-26	1977-09-10 00... 0	NIL	
27	Name-27	1984-04-02 00... 1	NIL	
28	Name-28	1984-03-09 00... 0	NIL	
29	Name-29	1985-01-04 00... 0	NIL	
30	Name-30	1981-10-10 00... 0	NIL	
31	Name-31	1981-11-05 00... 1	NIL	
32	Name-32	1975-07-06 00... 1	NIL	
33	Name-33	1984-09-04 00... 1	NIL	
34	Name-34	1985-06-09 00... 1	NIL	
35	Name-35	1984-03-15 00... 0	NIL	
36	Name-36	1986-03-24 00... 1	NIL	
37	Name-37	1977-11-06 00... 1	NIL	
38	Name-38	1979-03-16 00... 1	NIL	
39	Name-39	1984-04-29 00... 1	NIL	
40	Name-40	1980-03-05 00... 0	NIL	
41	Name-41	1986-12-17 00... 1	NIL	
42	Name-42	1984-01-01 00... 1	NIL	
43	Name-43	1979-02-03 00... 1	NIL	
44	Name-44	1984-04-16 00... 0	NIL	
45	Name-45	1980-03-15 00... 0	NIL	
46	Name-46	1977-07-15 00... 1	NIL	
47	Name-47	1981-08-08 00... 0	NIL	
48	Name-48	1982-04-04 00... 1	NIL	
49	Name-49	1983-12-05 00... 1	NIL	
50	Name-50	1982-01-09 00... 1	NIL	
51	Name-51	1981-11-17 00... 1	NIL	
52	Name-52	1986-08-10 00... 1	NIL	
53	Name-53	1984-03-15 00... 0	NIL	
54	Name-54	1977-01-10 00... 0	NIL	
55	Name-55	1985-01-30 00... 0	NIL	
56	Name-56	1987-02-04 00... 1	NIL	
57	Name-57	1981-12-22 00... 1	NIL	
58	Name-58	1981-08-28 00... 1	NIL	
59	Name-59	1978-01-15 00... 1	NIL	

ENTER THE VALUE OF USER_ID WHICH YOU WANT TO DELETE, AND PRESS DONE BUTTON. AND THE VALUE HAVING USER_ID=100 WILL BE DELETED.

This screenshot shows the delete screen with the 'USER_ID' dropdown set to '100'. The 'Done' button is highlighted. The rest of the interface is identical to the first screenshot, including the 'Delete By' buttons, the large table at the bottom, and the 'DISPLAY' buttons at the bottom right.

Title 1	Title 2	Title 3	Title 4	Title 5
65	Name-65	1984-04-06 00... 1	NIL	
66	Name-66	1980-03-16 00... 1	NIL	
67	Name-67	1979-05-10 00... 1	NIL	
68	Name-68	1984-08-07 00... 1	NIL	
69	Name-69	1987-02-24 00... 0	NIL	
70	Name-70	1978-10-20 00... 0	NIL	
71	Name-71	1987-10-24 00... 0	NIL	
72	Name-72	1983-06-07 00... 1	NIL	
73	Name-73	1977-12-15 00... 0	NIL	
74	Name-74	1984-03-15 00... 0	NIL	
75	Name-75	1986-03-24 00... 1	NIL	
76	Name-76	1986-02-06 00... 0	NIL	
77	Name-77	1977-11-06 00... 1	NIL	
78	Name-78	1979-03-16 00... 1	NIL	
79	Name-79	1983-04-29 00... 1	NIL	
80	Name-80	1980-03-05 00... 0	NIL	
81	Name-81	1986-12-17 00... 1	NIL	
82	Name-82	1984-01-01 00... 1	NIL	
83	Name-83	1979-02-03 00... 1	NIL	
84	Name-84	1984-04-16 00... 0	NIL	
85	Name-85	1980-03-15 00... 0	NIL	
86	Name-86	1977-07-15 00... 1	NIL	
87	Name-87	1981-08-08 00... 0	NIL	
88	Name-88	1982-04-04 00... 1	NIL	
89	Name-89	1983-12-05 00... 1	NIL	
90	Name-90	1982-01-09 00... 1	NIL	
91	Name-91	1981-11-17 00... 1	NIL	
92	Name-92	1986-08-10 00... 1	NIL	
93	Name-93	1984-03-15 00... 0	NIL	
94	Name-94	1977-01-10 00... 0	NIL	
95	Name-95	1985-01-30 00... 0	NIL	
96	Name-96	1987-02-04 00... 1	NIL	
97	Name-97	1981-12-22 00... 1	NIL	
98	Name-98	1981-08-28 00... 1	NIL	
99	Name-99	1978-01-15 00... 1	NIL	

RECOVERY TABLE:

PRESS GET ALL BUTTON TO GET ALL THE DATA DELETED WITH RESPECTIVE TABLE NAME.

Delete Information Record

[Back](#) [GET TABLEWISE](#) [GET ALL](#) [RECOVER](#)

Title 1	Title 2	Title 3	Title 4	Title 5
12-APR-2020 0...	USER1	100.v.02-03-01....		

[RECOVER ALL](#)

For recovering data, press recover button, then select table name, after that select column name and enter the information about data which you want to recover.

Delete Information Record

[Back](#) [GET TABLEWISE](#) [GET ALL](#) [RECOVER](#)

Donor ID: [Done](#)

Donor: [Done](#)

Title 1	Title 2	Title 3	Title 4	Title 5
12-APR-2020 0...	Donor	200.Kidney.d.10...		
12-APR-2020 0...	USER1	100.v.02-03-01....		

HENCE after pressing recover button, your data is recovered in donor table.

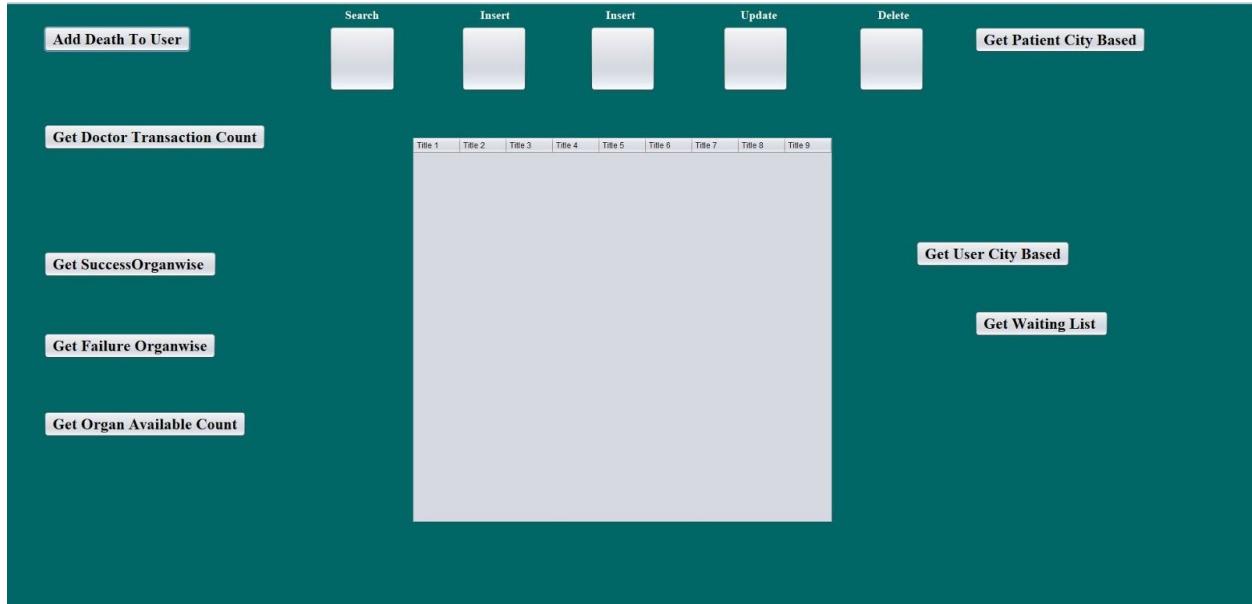
```
select * from donor where donor_id=200
```

Results Explain Describe Saved SQL History

DONOR_ID	ORGAN_DONATED	REASON_OF_DONATION	ORGANIZATION_ID	USER_ID
200	Kidney	d	100	2

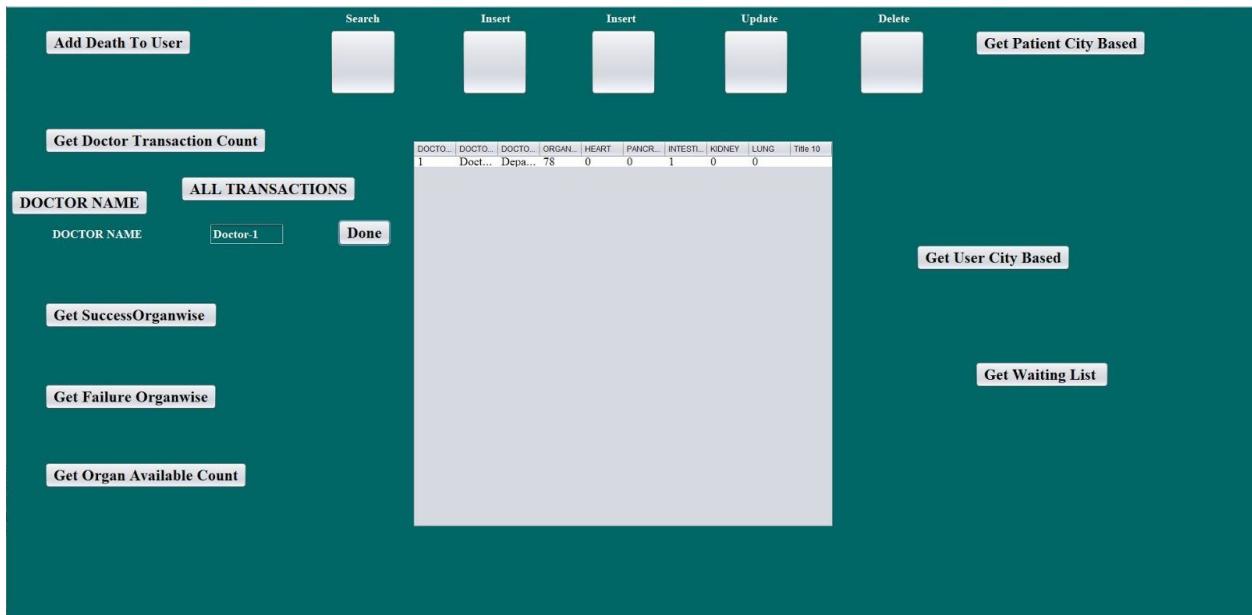
1 rows returned in 0.00 seconds [Download](#)

PROCEDURE SCREEN GUI:



PROCEDURE TO GET DOCTOR TRANSACTION:

Press GET DOCTOR TRANSACTION COUNT BUTTON and then press the doctor button so you will be asked to enter the doctor name. After entering the press done button and you will get all transaction of doctor-1 organwise.



Get Success Organwise:

Press GET SUCCESS ORGANWISE BUTTON and you will get output of successful transactions organwise.

Get Failure Organwise:

Press GET FAILURE ORGANWISE BUTTON and you will get output of failed transactions organwise.

Add Death To User	Search	Insert	Insert	Update	Delete	Get Patient City Based
Get Doctor Transaction Count						Get User City Based
Get SuccessOrganwise						Get Waiting List
Get Failure Organwise						
Get Organ Available Count						

Heart	Pancreas	Intestine	Kidney	Lungs	TOTAL	INTESTI...	KIDNEY	LUNG	Title 10
0	11	14	9	14	12				

Get Organ Available City Wise:

Press GET ORGAN AVAILABLE BUTTON and you will be asked to enter the city. After that press done,output will be given as number of organs available in respective entered city.

Add Death To User	Search	Insert	Insert	Update	Delete	Get Patient City Based
Get Doctor Transaction Count						Get User City Based
Get SuccessOrganwise						Get Waiting List
Get Failure Organwise						
Get Organ Available Count						

CITY	HEART	PANCR...	INTESTI...	KIDNEY	LUNG	INTESTI...	KIDNEY	LUNG	Title 10
Ahm...	0	3	7	3	5				

CITY Ahmedabad

Done

Get Patient City and Organ Wise:

Press GET PATIENT CITY AND ORGAN WISE BUTTON and you will be asked to enter city and organ required. Now press done button and all respective organs available in respective city will be displayed.

Add Death To User		Search	Insert	Insert	Update	Delete	Get Patient City Based																																									
<input type="button" value="Get Doctor Transaction Count"/>	<input type="button" value="Get SuccessOrganwise"/>	<input type="button" value="Get Failure Organwise"/>	<input type="button" value="Get Organ Available Count"/>				CITY <input type="text" value="Ahmedabad"/>	Done <input type="button" value="Done"/>																																								
							ORGAN REQUIRED <input type="text" value="Heart"/>																																									
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<input type="button" value="Get Waiting List"/>																																																

Get User City Based:

Press GET USER CITY BASED BUTTON and you will be asked to entered the city ,then press done button , now output will be displayed as all users of respective city.

Add Death To User		Search	Insert	Insert	Update	Delete	Get Patient City Based																																																																																																																																																																																																																																																	
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Get Waiting List City Based:

Press GET WAITING LIST BUTTON, then PRESS GET WAITING LIST CITYWISE BUTTON and you will be asked to enter the city. After that, Press Done button and output will be displayed as waiting list city wise.

PATIENT_ID	ORGAN	REASON	DOCTOR_ID	USER_ID	CITY	Title 7	Title 8	Title 9	Title 10
151	Panc...	Reas...	50	15	Ahm...				
134	Lung	Reas...	14	15	Ahm...				
118	Heart	Reas...	88	24	Ahm...				
81	Intest...	Reas...	46	24	Ahm...				
128	Panc...	Reas...	45	45	Ahm...				
96	Lung	Reas...	30	45	Ahm...				
100	Liver	Reas...	45	60	Ahm...				
129	Intest...	Reas...	56	69	Ahm...				
130	Panc...	Reas...	62	74	Ahm...				
67	Panc...	Reas...	92	74	Ahm...				
54	Kidney	Reas...	4	74	Ahm...				
93	Panc...	Reas...	98	77	Ahm...				
27	Intes...	Reas...	75	78	Ahm...				
180	Lung	Reas...	15	80	Ahm...				
29	Kidney	Reas...	45	80	Ahm...				
152	Lung	Reas...	81	89	Ahm...				
106	Kidney	Reas...	42	89	Ahm...				
102	Panc...	Reas...	71	95	Ahm...				
42	Lung	Reas...	78	95	Ahm...				
11	Kidney	Reas...	91	95	Ahm...				

Get Doctor Transaction Count
Get User City Based

Get SuccessOrganwise
Get Waiting List

Get Failure Organwise
Get Waiting List CITY BASED
ALL PATIENT

Get Organ Available Count
CITY
Ahmedabad

Done

SCREENSHOTS OF ERRORS GENERATED ON FRONT-END WHEN TRIGGER IS FIRED

INSERT INTO TRANSACTION STATUS TRIGGER:

When you will enter the value of status in transaction other than 0 or 1 , the trigger will raise the error. (Status:1=Transaction Successful Status,0=Transaction Unsuccessful)

The screenshot shows a web-based application interface. At the top, there are three buttons: "Back", "Insert By Organization", and "Insert By Organ Available". Below these are two more buttons: "Insert By Transaction" and "Insert By Transaction". A "Patient ID" field contains the value "20". An "Organ ID" field contains the value "30". A "Donor ID" field contains the value "21". A "Date Of Transaction" field contains the value "02-03-2020". A "Status" field contains the value "3". To the right of the form is a large table with columns labeled "Title 1", "Title 2", "Title 3", "Title 4", and "Title 5". The table contains numerous rows of data. In the center of the page, a modal dialog box is displayed with the title "ERROR". It contains a red exclamation mark icon and the message "Value entered in STATUS field should be 1 or 0". There is an "OK" button at the bottom of the dialog. At the bottom of the page, there are several buttons: "DISPLAY ORGANIZATION", "DISPLAY TRANSACTIONS", "DISPLAY ORGAN AVAILABLE", and "DISPLAY ORGANIZATION HEAD".

INSERT INTO ORGANIZATION GOVERNMENT APPROVED TRIGGER:

When you enter the value of a government approved field in organization table other than 0 or 1 , the trigger will raise the error. (Government Approved:1=government approved : 0=not government approved)

The screenshot shows a web-based application interface for managing organizations. At the top, there are several buttons: "Back", "Insert By Organization", "Insert By Organ Available", "Insert By Transaction", and "Insert By Organization Head". A central modal window displays an error message: "ERROR" with a red exclamation mark icon, followed by the text "Value entered in govt approved field should be 1 or 0". Below the modal, there is a "Done" button.

To the right of the modal, a large table is displayed with columns labeled "Title 1", "Title 2", "Title 3", "Title 4", and "Title 5". The data in the table is as follows:

Title 1	Title 2	Title 3	Title 4	Title 5
100	d	d	0	
1	Organization-1	New Delhi	1	
2	Organization-2	Mumbai	0	
3	Organization-3	Kolkata	0	
4	Organization-4	Kolkata	1	
5	Organization-5	Ahmedabad	0	
6	Organization-6	Kolkata	0	
7	Organization-7	Kolkata	0	
8	Organization-8	Ahmedabad	0	
9	Organization-9	Mumbai	1	
10	Organization-10	Ahmedabad	1	
11	Organization-11	Ahmedabad	1	
12	Organization-12	Mumbai	0	
13	Organization-13	Mumbai	0	
14	Organization-14	Ahmedabad	1	
15	Organization-15	Ahmedabad	0	
16	Organization-16	Kolkata	0	
17	Organization-17	Mumbai	1	
18	Organization-18	Mumbai	0	
19	Organization-19	Ahmedabad	1	
20	Organization-20	Ahmedabad	1	
21	Organization-21	Ahmedabad	0	
22	Organization-22	New Delhi	0	
23	Organization-23	Mumbai	1	
24	Organization-24	Ahmedabad	0	
25	Organization-25	Mumbai	0	
26	Organization-26	Ahmedabad	0	
27	Organization-27	Kolkata	0	
28	Organization-28	Mumbai	0	
29	Organization-29	Mumbai	1	
30	Organization-30	New Delhi	1	
31	Organization-31	New Delhi	0	
32	Organization-32	New Delhi	0	
33	Organization-33	New Delhi	0	
34	Organization-34	Kolkata	0	

At the bottom of the page, there are several buttons: "DISPLAY ORGANIZATION", "DISPLAY TRANSACTIONS", "DISPLAY ORGAN AVAILABLE", and "DISPLAY ORGAN HEAD".

INSERT USER MEDICAL INSURANCE TRIGGER ERROR:

When you enter the value of a medical insurance field in user table other than 0 or 1 , the trigger will raise the error. (Medical Insurance:1=user is insured : 0=user is not insured)



NEW FUNCTIONALITIES WE HAVE ADDED:-

- 1) Created Recovery Table which is used to recover the delete data from the database. The user can recover this data from this table which just works like a recycle bin for the computer or like recently deleted item in the mobile phone. Through this, Data Integrity can be maintained and data loss prevention can be done for a long period of time in the future which is actually fetched or used from the past.**
- 2) Created Log Table which stores the manipulation of the user or the steps which user has done like insert,add,update,etc. in the backend with respect to the tables just like storing the history of what the user has done**
- 3) We do validations for authenticating and transparency of this system for different occasions like checking the authentication of government approved organizations for organ donation, checking user and doctor's validity through their phone number, checking approved medical insurance availability and transaction success through these triggers.**
- 4) Providing search options based on name,id,city,state,organs,etc.**
- 5) We do store and display the total transaction of different surgeries either successful or unsuccessful of doctors as well as a particular organ.**

- 6) The front end part is made user friendly so as to effectively use even through basic understanding using minimal screens including all buttons at the same place.
- 7) Added the functionality of death of user by notifying it to the organizations so that they can be approached and asked to donate organs. This is because most of the people have very less idea of donation of organs and no body gets any idea at the instant of time when the death has occurred. So, approaching them directly will help the organizations and hospitals to collect more organs and help others. If the approached user agrees for donation, they are marked as 1 in the backend and if they are approached and they disagree for donation, they are marked as 0.

REMAINING FUNCTIONALITIES WHICH CAN BE ADDED

- 1) To make additional features of Campaigning and volunteering for creating tables and procedures to spread awareness about importance of organ donation and transplantation.
- 2) To make functions which returns the statistics about the whole database in form of the graph in jFrame for proper visual representation to the user.