**DBMS Project Report**

**Organ Donation Management System**

**Fourth-Semester**

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**Submitted To:**

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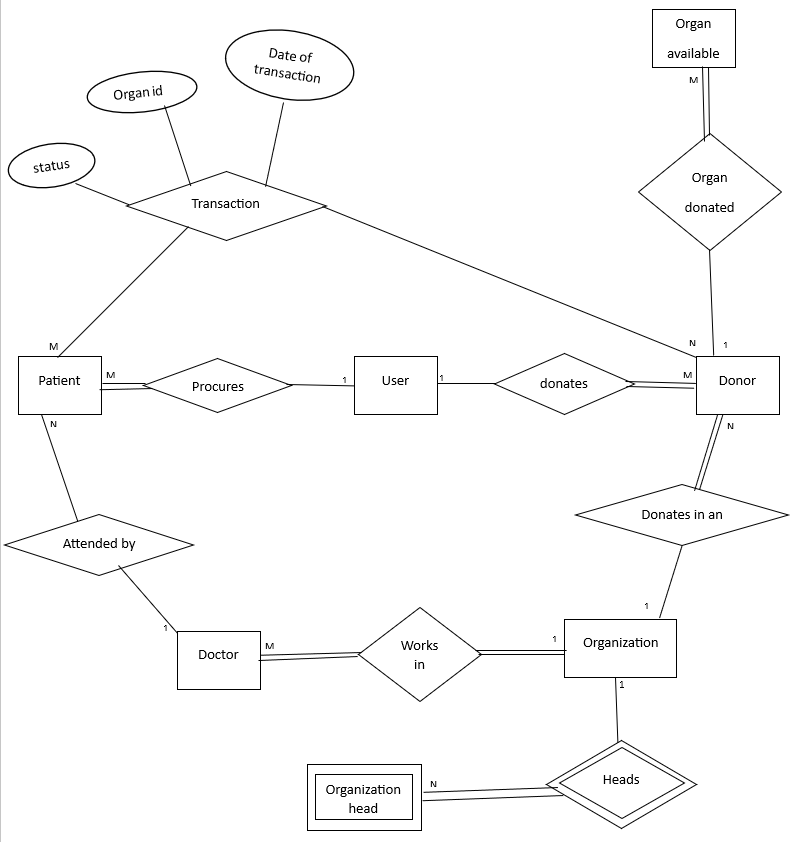
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8. **Introduction: -**

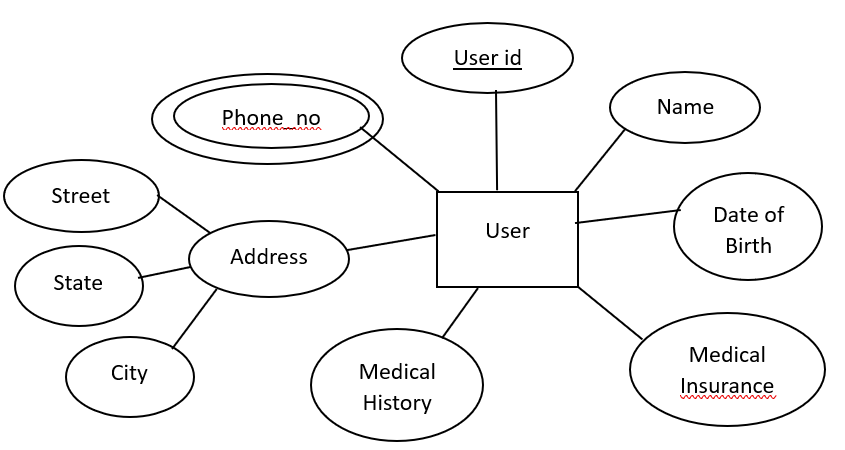
Organ Donation Organizations are pivotal in today’s medical institutions. Such organizations are responsible for evaluating and procuring for organ transplantation. These organizations have direct contact with the hospital and a donor’s family. The work of such organizations includes identifying the best candidates for the available organs and to coordinate with the medical institutions to decide on each organ recipient. They are also responsible for educating the public to increase the awareness of and participation in the organ donation process. Also, it keeps track of all transplantation operations carried till date.

The Organ Donation Management System is a database management system that uses database technology to construct, 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, etc of every person in the database design. In short, it maintains a database containing statistical information regarding network of organ donation and procurement of different countries.

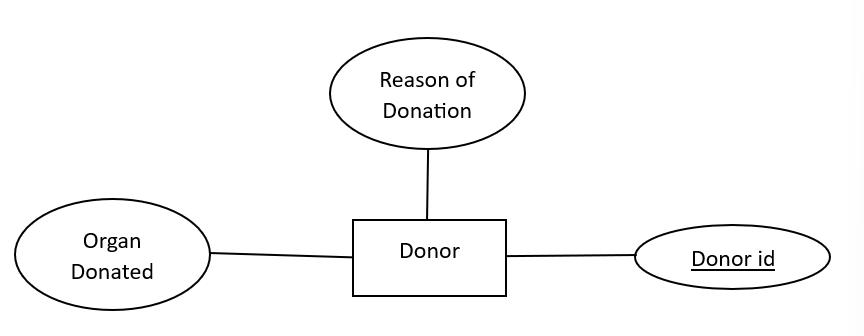
1. **ER -Diagrams: -**

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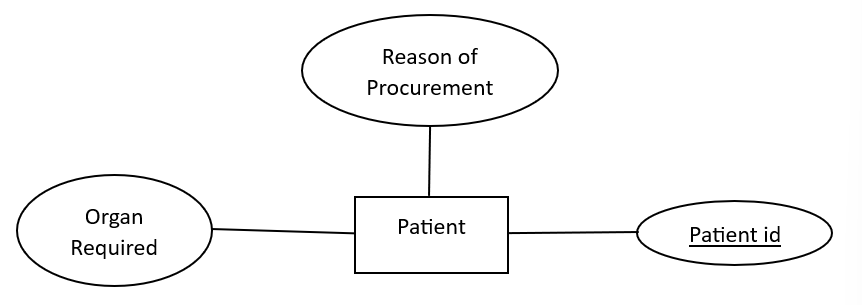
1. User

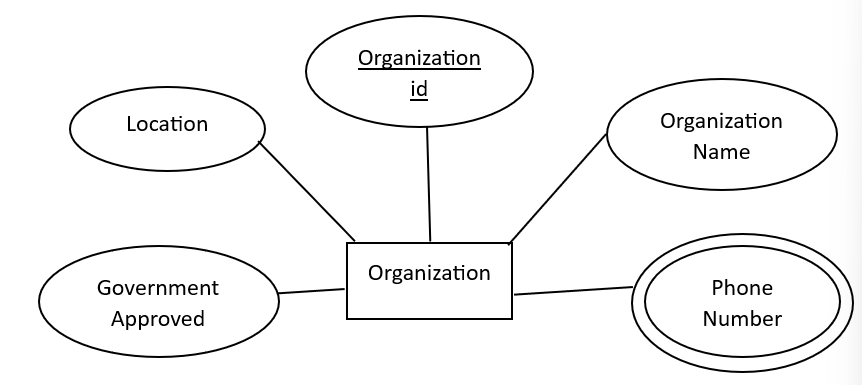
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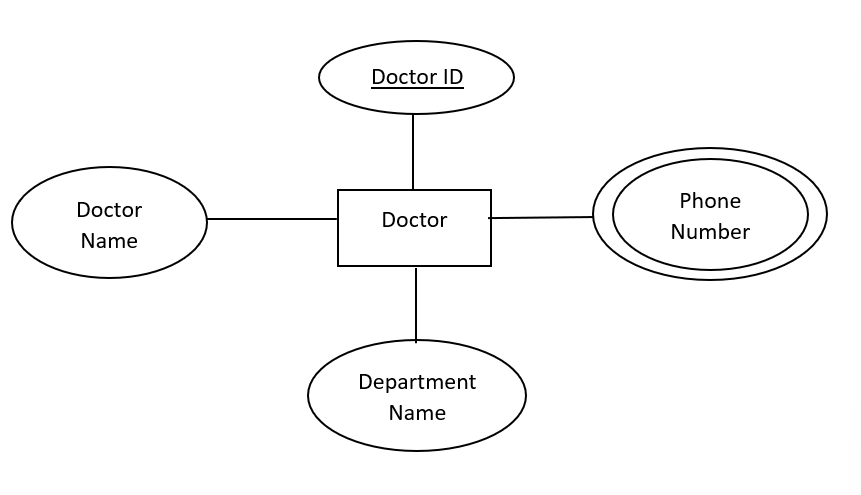
1. Donor

****

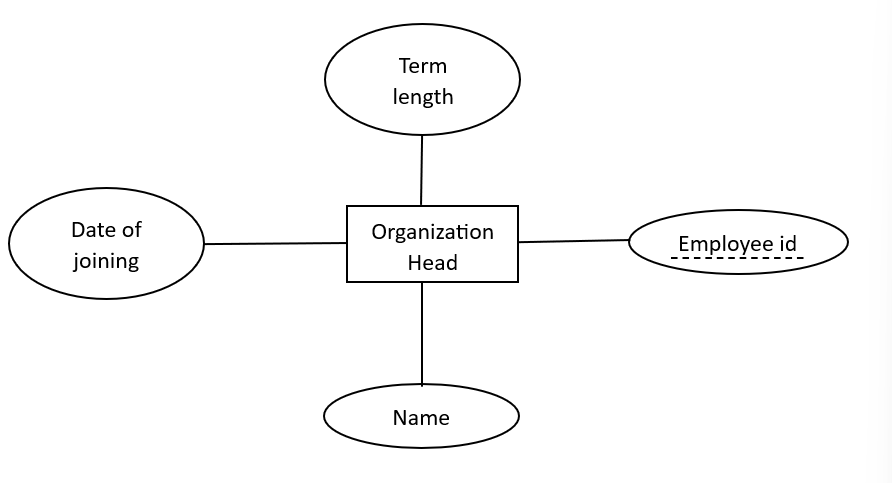
1. Patient

****

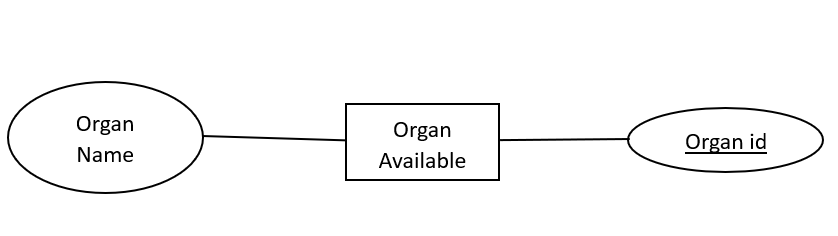
1. ****Organization
2. Doctor

****

1. Organization Head

****

1. Organ Available

****

1. **ER to Table: -**
2. User - Donor

|  |
| --- |
| **DONOR** |
| Donor id (primary key) |
| User id (foreign key) |
| Rean of donation |
| Organ donated |
| Organization id (foreign key) |

1. User – Patient

|  |
| --- |
| **USER** |
| User id |
| Name |
| Date of birth |
| Medical insurance |
| Medical history |
| Street |
| State |
| City |
| Phone number |

|  |
| --- |
| **PATIENT** |
| Patient id (primary key) |
| User id (foreign key) |
| Reason of procurement |
| Organ required |
| Doctor id (foreign key) |

|  |
| --- |
| **USER** |
| User id (primary key) |
| Name |
| Date of birth |
| Medical insurance |
| Medical history |
| Street |
| State |
| City |
| Phone number |

|  |
| --- |
| **USER** |
| User id (primary key) |
| Name |
| Date of birth |
| Medical insurance |
| Medical history |
| Street |
| State |
| City |
| Phone number |

1. Patient – doctor

|  |
| --- |
| **PATIENT** |
| Patient id (primary key) |
| User id (foreign key) |
| Doctor id (foreign key) |
| Reason of procurement |
| Organ required |

|  |
| --- |
| **Doctor** |
| Doctor id (primary key) |
| Phone number |
| Department Name |
| Doctor name |
| Organization id (foreign key) |

1. Doctor - Organization

|  |
| --- |
| **Organization** |
| Organization id (primary key) |
| Organization Name |
| Phone number |
| Government Approved |
| Location |

|  |
| --- |
| **Doctor** |
| Doctor id (primary key) |
| Organization Id (foreign key) |
| Phone number |
| Department Name |
| Doctor name |

1. Donor – Patient

|  |
| --- |
| **Transaction** |
| Donor id(foreign key) |
| Patient id(foreign key) |
| Date of transaction |
| Status |
| Organ id |

|  |
| --- |
| **DONOR** |
| Donor id (primary key) |
| User id (foreign key) |
| Reason of donation |
| Organ donated |
| Organization id(foreign key) |

|  |
| --- |
| **PATIENT** |
| Patient id (primary key) |
| User id (foreign key) |
| Doctor id (foreign key) |
| Reason of procurement |

1. Organ available – donor

|  |
| --- |
| **DONOR** |
| Donor id (primary key) |
| User id (foreign key) |
| Reason of donation |
| Organ donated |
| Organization id (foreign key) |

|  |
| --- |
| **Organ available** |
| Organ id (primary key) |
| Donor id (foreign key) |
| Organ name |

1. Organization – Organization head

|  |
| --- |
| **Organization** |
| Organization id (primary key) |
| Organization Name |
| Phone number |
| Government Approved |
| Location |

|  |
| --- |
| **Organization head** |
| Organization id (foreign key) |
| Employee id |
| Name |
| Date of Joining |
| Term length |

1. Organization – Donor

|  |
| --- |
| **Organization** |
| Organization id (primary key) |
| Organization Name |
| Phone number |
| Government Approved |
| Location |

|  |
| --- |
| **DONOR** |
| Donor id (primary key) |
| User id (foreign key) |
| Reason of donation |
| Organ donated |
| Organization id (foreign key) |

1. **Normalization: -**

Table 1:

User\_id, date\_of\_birth, medical\_insurance,

medical\_history, street, city, state, patient\_id,

organ\_required, reason\_of\_procurement, doctor\_id, doctor\_name, department\_name,

organization\_id, organ\_id, organ\_name, donor\_id,

organ\_donated, reason\_of\_donation, organisation\_id, date\_of\_transaction, status

F.D:

User\_id -> name, date\_of\_birth, medical\_insurance, medical\_history, street, city, state

Patient\_id -> organ\_required, reason\_of\_procurement, doctor\_id, user\_id

Donor\_id -> organ\_donated, reason\_of\_donation, organisation\_id, user\_id

Organ\_id -> organ\_name, donor\_id

Patient\_id, organ\_id -> date\_of\_transaction, status, donor\_id

Doctor\_id -> doctor\_name, department\_name, organization\_id

*Prime attribute:* (organ\_id patient\_id)

1 NF :

TABLE 1:

User\_id -> name

User\_id -> date\_of\_birth

User\_id -> medical\_insurance

User\_id -> medical\_history

User\_id -> street

User\_id -> city

User\_id -> state

Doctor\_id -> doctor\_name

Doctor\_id -> department\_name

Doctor\_id -> organization\_id

Patient\_id, organ\_id -> date\_of\_transaction

Patient\_id, organ\_id -> Status

Patient\_id, organ\_id -> donor\_id

Organ\_id -> organ\_name

Organ\_id -> donor\_id

Donor\_id -> organ\_donated

Donor\_id -> reason\_of\_donation

Donor\_id -> organisation\_id

Donor\_id -> user\_id

Patient\_id -> organ\_required

Patient\_id -> reason\_of\_procurement

Patient\_id -> doctor\_id

Patient\_id -> user\_id

*Candidate key:* (patient\_id, organ\_id)

*Foreign key:* organization\_id

2NF:

Table 1.1:

Patient\_id, organ\_id -> date\_of\_transaction

Patient\_id, organ\_id -> Status

Patient\_id, organ\_id -> donor\_id

*Candidate key:* (patient\_id,organ\_id)

*Foreign key:* patient\_id, organ\_id

Table 1.2:

User\_id -> name

User\_id -> date\_of\_birth

User\_id -> medical\_insurance

User\_id -> medical\_history

User\_id -> street

User\_id -> city

User\_id -> state

Doctor\_id -> doctor\_name

Doctor\_id -> department\_name

Doctor\_id -> organization\_id

Patient\_id -> organ\_required

Patient\_id -> reason\_of\_procurement

Patient\_id -> doctor\_id

Patient\_id -> user\_id

*Primary Key:* patient\_id

*Foreign key:* organization\_id

Table 1.3:

Organ\_id -> organ\_name

Organ\_id -> donor\_id

Donor\_id -> organ\_donated

Donor\_id -> reason\_of\_donation

Donor\_id -> organisation\_id

Donor\_id -> user\_id

*Primary Key:* organ\_id

*Foreign key:* organization\_id

3NF:

Table 1.1: ***transaction:***

Patient\_id, organ\_id -> date\_of\_transaction

Patient\_id, organ\_id -> Status

Patient\_id, organ\_id -> donor\_id

*Primary Key:* Patient\_id, organ\_id

*Foreign key:* patient\_id, organ\_id,donor\_id

Table 1.2.1: ***patient:***

Patient\_id -> organ\_required

Patient\_id -> reason\_of\_procurement

Patient\_id -> doctor\_id

Patient\_id -> user\_id

*Primary Key:* patient\_id

*Foreign key:* doctor\_id,user\_id

Table 1.2.2: ***user:***

User\_id -> name

User\_id -> date\_of\_birth

User\_id -> medical\_insurance

User\_id -> medical\_history

User\_id -> street

User\_id -> city

User\_id -> state

*Primary Key:* user\_id

Table 1.2.3: ***doctor:***

Doctor\_id -> doctor\_name

Doctor\_id -> department\_name

Doctor\_id -> organization\_id

*Primary Key:* doctor\_id

*Foreign key:* organization\_id

Table 1.3.1: ***organ\_available:***

Organ\_id -> organ\_name

Organ\_id -> donor\_id

*Primary Key:* organ\_id

*Foreign key:* donor\_id

Table 1.3.2: ***donor:***

Donor\_id -> organ\_donated

Donor\_id -> reason\_of\_donation

Donor\_id -> organization\_id

Donor\_id -> user\_id

*Primary Key:* donor\_id

*Foreign key:* user\_id, organization\_id

Table2:

Organization\_id, organization\_name, location, government\_approved, employee\_id, name, date\_of\_joining, term\_length

F.D:

Organization\_id -> organization\_name,location,

government\_approved

Organization\_id, employee\_id -> name, date\_of\_joining, term\_length

*Prime attributes:* (employee\_id organization\_id)

1NF:

Table 1:

Organization\_id -> organization\_name

Organization\_id -> location

Organization\_id -> government\_approved

Organization\_id, employee\_id -> name Organization\_id, employee\_id -> date\_of\_joining

Organization\_id, employee\_id -> term\_length

2NF:

Table1.1: ***organization\_head***

Organization\_id, employee\_id -> name Organization\_id, employee\_id -> date\_of\_joining

Organization\_id, employee\_id -> term\_length

*Candidate key:* (Organization\_id, employee\_id)

*Foreign key:* organization\_id

Table 1.2: ***organization:***

Organization\_id -> organization\_name

Organization\_id -> location

Organization\_id -> government\_approved

*Primary key:* organization\_id

Table 3: ***user\_phone\_number:***

User\_id, phone\_number

F.D:

User\_id -> phone\_number

*Prime attribute:* user\_id

*Foreign key:* user\_id

Table 4: ***organization\_phone\_number:***

organization\_id, phone\_number

F.D:

organization\_id -> phone\_number

*Prime attribute:* organization\_id

*Foreign key:* organization\_id

Table 5: ***doctor\_phone\_number***

doctor\_id, phone\_number

F.D:

doctor\_id -> phone\_number

*Prime attribute:* doctor\_id

*Foreign key:* doctor\_id

Table 6: ***login:***

User\_name, password

F.D:

user\_id -> password

*Prime attribute:* user\_name

1. **SQL and PL/SQL**

CREATE TABLE login(

username VARCHAR(20) NOT NULL,

password VARCHAR(20) NOT NULL

);

INSERT INTO login VALUES ('admin','admin');

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)

);

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

);

CREATE TABLE Organization(

Organization\_ID int NOT NULL,

Organization\_name varchar(20) NOT NULL,

Location varchar(20),

Government\_approved int not null,check (Government\_approved in(0,1)),

PRIMARY KEY(Organization\_ID)

);

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)

);

CREATE TABLE Patient(

Patient\_ID int,

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,

PRIMARY KEY(Patient\_Id)

);

CREATE TABLE Donor(

Donor\_ID int,

organ\_donated varchar(20) NOT NULL,

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,

FOREIGN KEY(Organization\_ID) REFERENCES Organization(Organization\_ID) ON DELETE CASCADE,

PRIMARY KEY(Donor\_ID)

);

CREATE TABLE Organ\_available(

Organ\_ID int GENERATED BY DEFAULT ON NULL AS IDENTITY START WITH 1 INCREMENT BY 1,

Organ\_name varchar(20) NOT NULL,

Donor\_ID int NOT NULL,

FOREIGN KEY(Donor\_ID) REFERENCES Donor(Donor\_ID) ON DELETE CASCADE,

PRIMARY KEY(Organ\_ID)

);

CREATE TABLE Transaction(

Patient\_ID int NOT NULL UNIQUE,

Organ\_ID int NOT NULL,

Donor\_ID int NOT NULL,

Date\_of\_transaction date NOT NULL,

Status int NOT NULL,check( Status in(1,0)),

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)

);

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

);

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

);

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)

);

insert into user1 values( 1 ,'Name-1','19-8-2001',1,'NIL','Street-1','New Delhi','Delhi');

insert into user1 values( 2 ,'Name-2','10-12-1975',0,'NIL','Street-2','Mumbai','Maharashtra');

insert into user1 values( 3 ,'Name-3','4-6-1976',0,'NIL','Street-3','Mumbai','Maharashtra');

insert into user1 values( 4 ,'Name-4','13-10-1985',1,'NIL','Street-4','Ahmedabad','Gujarat');

insert into user1 values( 5 ,'Name-5','12-10-1983',1,'NIL','Street-5','Kolkata','West Bengal');

insert into user1 values( 6 ,'Name-6','18-1-1977',1,'NIL','Street-6','Kolkata','West Bengal');

insert into user1 values( 7 ,'Name-7','26-2-1996',0,'NIL','Street-7','New Delhi','Delhi');

insert into user1 values( 8 ,'Name-8','12-4-1973',1,'NIL','Street-8','Mumbai','Maharashtra');

insert into user1 values( 9 ,'Name-9','1-11-976',0,'NIL','Street-9','Mumbai','Maharashtra');

insert into user1 values( 10 ,'Name-10','18-11-1978',1,'NIL','Street-10','New Delhi','Delhi');

insert into user1 values( 11 ,'Name-11','6-1-1976',1,'NIL','Street-11','Mumbai','Maharashtra');

insert into user1 values( 12 ,'Name-12','1-11-1983',1,'NIL','Street-12','Mumbai','Maharashtra');

insert into user1 values( 13 ,'Name-13','9-1-1989',1,'NIL','Street-13','New Delhi','Delhi');

insert into user1 values( 14 ,'Name-14','5-10-1972',1,'NIL','Street-14','Mumbai','Maharashtra');

insert into user1 values( 15 ,'Name-15','23-9-1986',0,'NIL','Street-15','Ahmedabad','Gujarat');

insert into user1 values( 16 ,'Name-16','26-11-1982',1,'NIL','Street-16','New Delhi','Delhi');

insert into user1 values( 17 ,'Name-17','19-3-1976',0,'NIL','Street-17','Mumbai','Maharashtra');

insert into user1 values( 18 ,'Name-18','17-10-1973',0,'NIL','Street-18','New Delhi','Delhi');

insert into user1 values( 19 ,'Name-19','18-3-1980',0,'NIL','Street-19','Kolkata','West Bengal');

insert into user1 values( 20 ,'Name-20','1-8-1998',1,'NIL','Street-20','Kolkata','West Bengal');

insert into User\_phone\_no values(1,'9876543215');

insert into User\_phone\_no values(1,'9876542645');

insert into User\_phone\_no values(2,'6546543215');

insert into User\_phone\_no values(3,'9878353215');

insert into User\_phone\_no values(4,'9876587615');

insert into User\_phone\_no values(5,'9876542345');

insert into User\_phone\_no values(6,'8876543215');

insert into User\_phone\_no values(7,'7976543215');

insert into User\_phone\_no values(8,'9892543215');

insert into User\_phone\_no values(9,'9887643215');

insert into User\_phone\_no values(10,null);

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 Doctor values(1,'Doctor-1','Department-1',1);

insert into Doctor values(2,'Doctor-2','Department-2',1);

insert into Doctor values(3,'Doctor-3','Department-3',2);

insert into Doctor values(4,'Doctor-4','Department-4',2);

insert into Doctor values(5,'Doctor-5','Department-5',3);

insert into Doctor values(6,'Doctor-6','Department-6',3);

insert into Doctor values(7,'Doctor-7','Department-7',5);

insert into Doctor values(8,'Doctor-8','Department-8',4);

insert into Doctor values(9,'Doctor-9','Department-9',5);

insert into Doctor values(10,'Doctor-10','Department-10',3);

insert into Doctor values(11,'Doctor-11','Department-11',4);

insert into Doctor values(12,'Doctor-12','Department-12',1);

insert into Patient values(1,'Heart','Reason-1',1,1);

insert into Patient values(2,'Kidney','Reason-2',2,2);

insert into Patient values(3,'Pancreas','Reason-3',3,4);

insert into Patient values(4,'Kidney','Reason-4',2,5);

insert into Patient values(5,'Heart','Reason-5',1,6);

insert into Patient values(6,'Lung','Reason-6',6,7);

insert into Patient values(7,'Intestine','Reason-7',9,8);

insert into Patient values(8,'Intestine','Reason-8',9,9);

insert into Patient values(9,'Lung','Reason-9',6,10);

insert into Patient values(10,'Kidney','Reason-10',2,3);

insert into Donor values(1,'Heart','Reason-1',1,11);

insert into Donor values(2,'Pancreas','Reason-2',1,12);

insert into Donor values(3,'Pancreas','Reason-3',2,13);

insert into Donor values(4,'Intestine','Reason-4',2,14);

insert into Donor values(5,'Kidney','Reason-5',3,15);

insert into Donor values(6,'Pancreas','Reason-6',4,16);

insert into Donor values(7,'Kidney','Reason-7',5,17);

insert into Donor values(8,'Kidney','Reason-8',5,18);

insert into Donor values(9,'Heart','Reason-9',3,19);

insert into Donor values(10,'Heart','Reason-10',2,20);

insert into Transaction values(1,100,1,'19-9-2014',0);

insert into Transaction values(5,190,9,'30-4-2013',1);

insert into Transaction values(2,154,5,'10-4-2017',1);

insert into Transaction values(4,110,7,'28-9-2013',1);

insert into Transaction values(10,136,8,'27-3-2017',0);

insert into Transaction values(3,128,2,'1-8-2010',0);

insert into Transaction values(7,164,4,'2-4-2012',1);

insert into organization\_phone\_no values(1,'9871234568');

insert into organization\_phone\_no values(1,'9457234568');

insert into organization\_phone\_no values(2,'9871915568');

insert into organization\_phone\_no values(3,'9845234568');

insert into organization\_phone\_no values(4,'8871234568');

insert into organization\_phone\_no values(5,'9871273458');

insert into organization\_phone\_no values(1,'68712335568');

insert into organization\_phone\_no values(2,'8871274568');

insert into organization\_phone\_no values(3,'7871234568');

insert into organization\_phone\_no values(4,'7871224568');

insert into organization\_phone\_no values(5,'8871294568');

insert into organization\_head values(1,1,'ram','19-9-2019',20);

insert into organization\_head values(2,2,'shyam','2-7-2005',20);

insert into organization\_head values(3,3,'arjun','13-12-1992',40);

insert into organization\_head values(4,4,'harjot','2-1-2017',30);

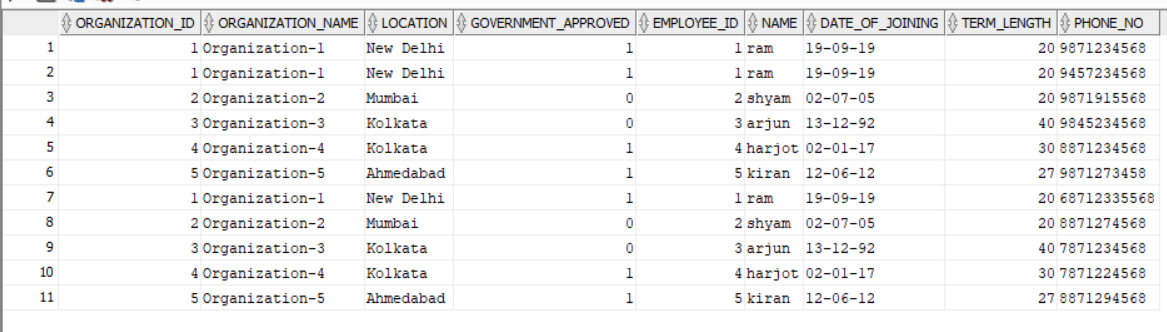
insert into organization\_head values(5,5,'kiran','12-6-2012',27);

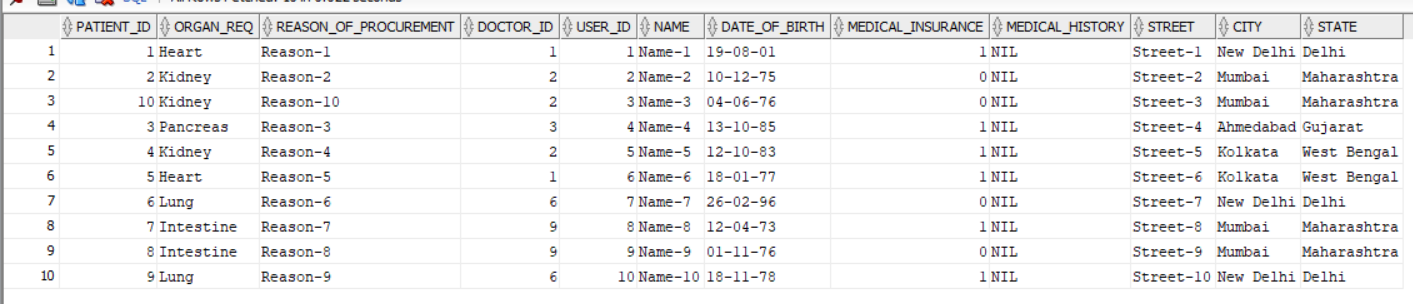
**JOINS:**

select o.organization\_id,o.organization\_name,o.location,o.Government\_approved,

h.employee\_id,h.name,h.date\_of\_joining,h.term\_length,

p.phone\_no from organization o inner join organization\_head h on o.organization\_id=h.organization\_id inner join organization\_phone\_no p on h.organization\_id=p.organization\_id;



select p.patient\_id, p.organ\_req ,p.reason\_of\_procurement,p.doctor\_id,p.user\_id,u.name,u.date\_of\_birth,u.medical\_insurance,u.medical\_history,u.street,u.city,u.state from Patient p left join User1 u on p.user\_id=u.user\_id;

**PL/SQL:**

create trigger ADD\_DONOR

after insert

on Donor

for each row

begin

insert into Organ\_available(Organ\_name, Donor\_ID)

values (:new.organ\_donated, :new.Donor\_ID);

end;

create trigger REMOVE\_ORGAN

after insert

on Transaction

for each row

begin

delete from Organ\_available

where Organ\_ID = :new.Organ\_ID;

end;

set serveroutput on

create or replace procedure change\_government\_approved(a in int,c in int)

is

b Organization%rowtype;

large\_value exception;

pragma exception\_init(large\_value,-02290);

begin

update Organization set Government\_approved=c where Organization\_ID =a;

select \*into b from Organization where Organization\_ID=a;

dbms\_output.put\_line('Organization id:'|| b.Organization\_ID);

dbms\_output.put\_line('Organization name: '|| b.Organization\_name);

dbms\_output.put\_line('Location: '|| b.Location);

dbms\_output.put\_line('Government approved: '|| b.Government\_approved);

exception

when large\_value then

dbms\_output.put\_line('value too big for column');

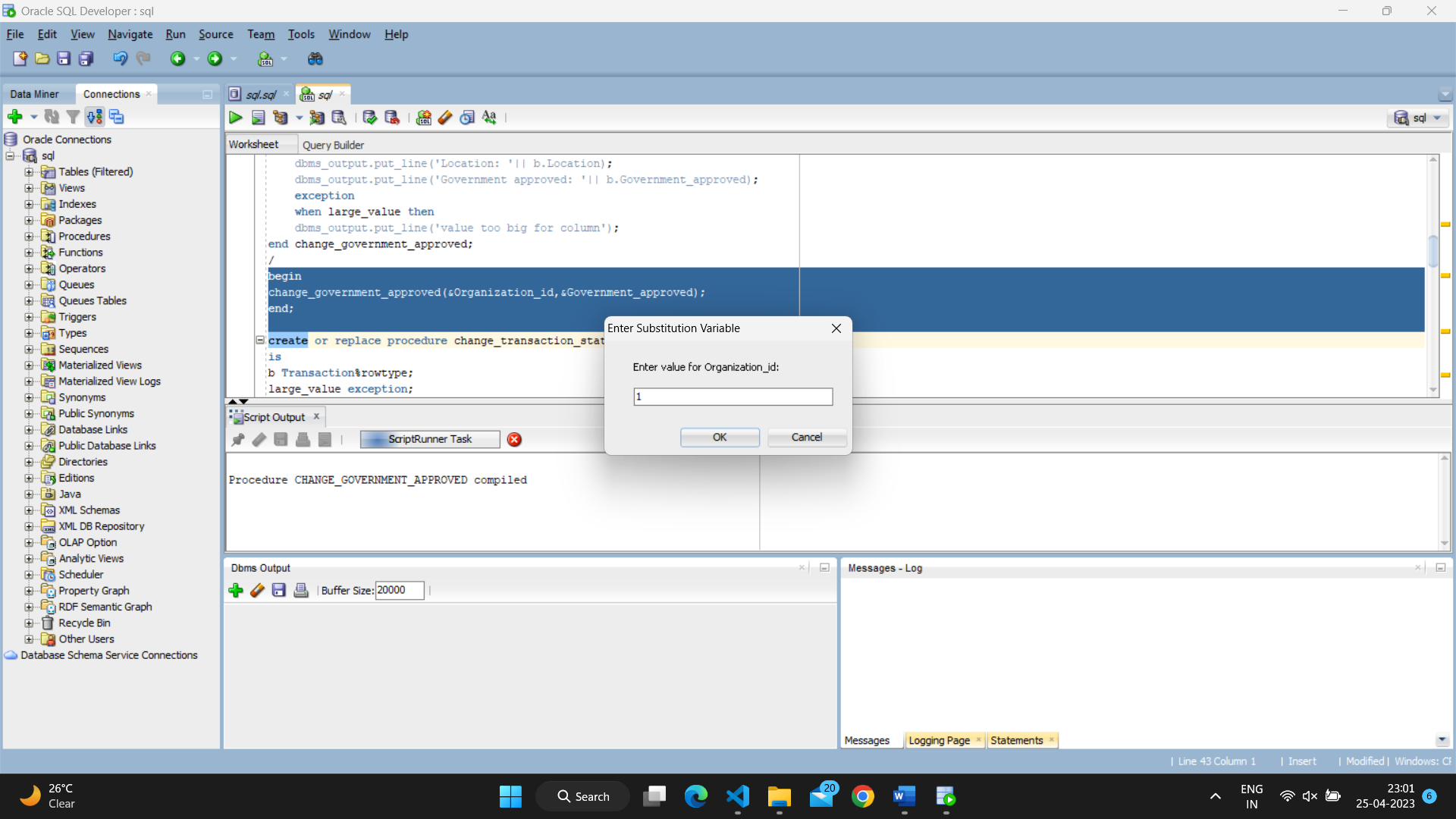
end change\_government\_approved;

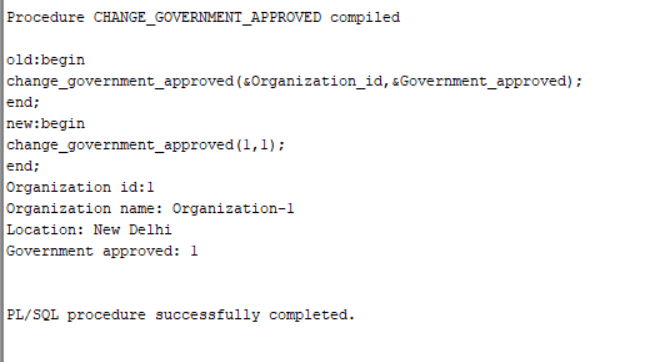
/

begin

change\_government\_approved(&Organization\_id,&Government\_approved);

end;





create or replace procedure change\_transaction\_status\_of\_patient(a in int,c in int)

is

b Transaction%rowtype;

large\_value exception;

pragma exception\_init(large\_value,-02290);

begin

update Transaction set Status=c where Patient\_ID =a;

select \*into b from Transaction where Patient\_ID=a;

dbms\_output.put\_line('Patient id: '|| b.Patient\_ID);

dbms\_output.put\_line('Organ id: '|| b.Organ\_ID);

dbms\_output.put\_line('donor id '|| b.Donor\_ID);

dbms\_output.put\_line('Status: '|| b.Status);

dbms\_output.put\_line('date of transaction: '|| b.Date\_of\_transaction);

exception

when large\_value then

dbms\_output.put\_line('value to big for column');

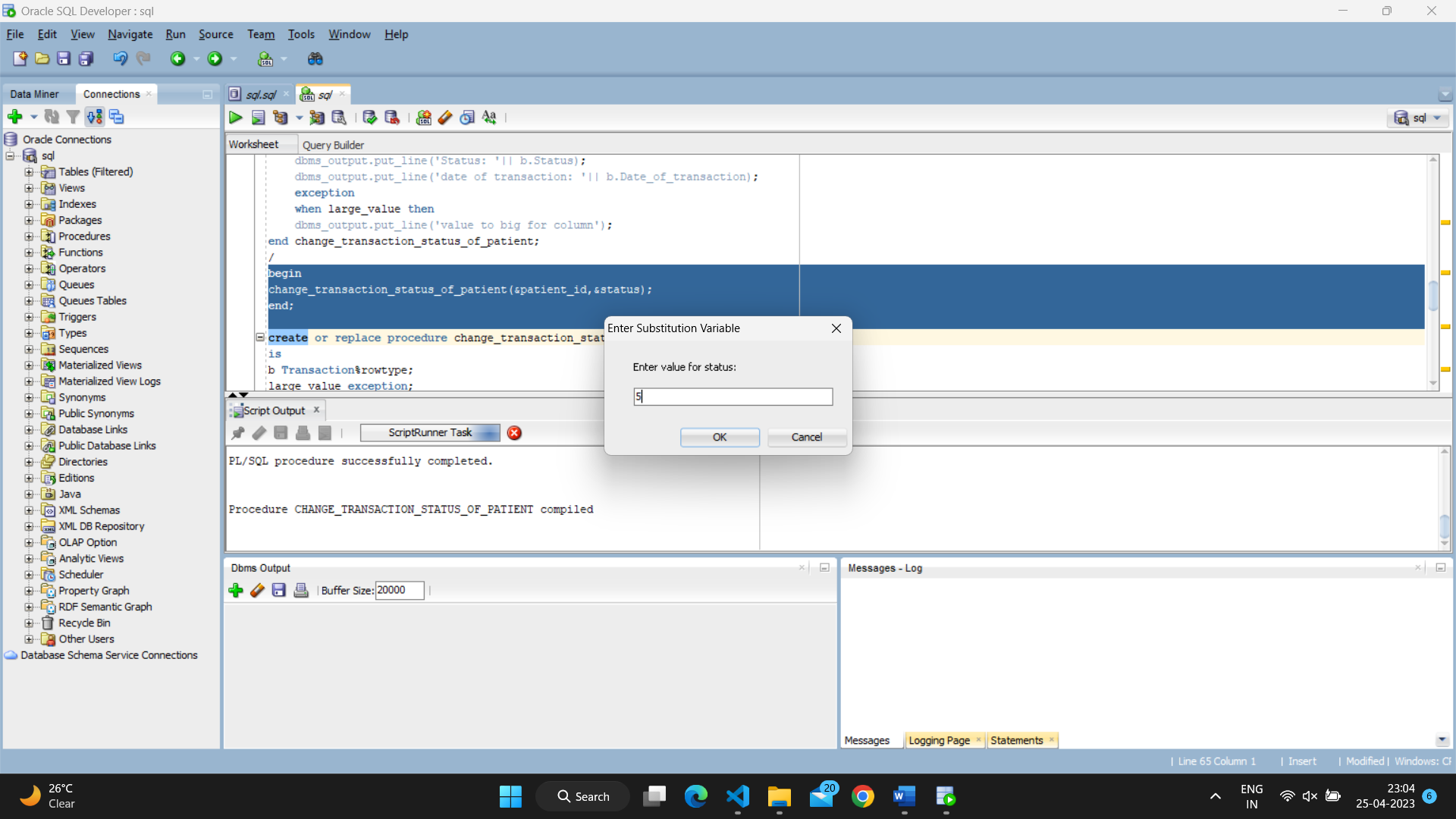
end change\_transaction\_status\_of\_patient;

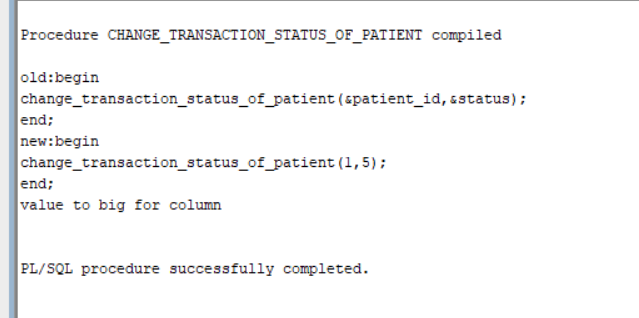
/

begin

change\_transaction\_status\_of\_patient(&patient\_id,&status);

end;





create or replace procedure change\_transaction\_status\_of\_donor(a in int,c in int)

is

b Transaction%rowtype;

large\_value exception;

pragma exception\_init(large\_value,-02290);

begin

update Transaction set Status=c where Donor\_ID =a;

select \* into b from Transaction where Donor\_ID=a;

dbms\_output.put\_line('Patient id: '|| b.Patient\_ID);

dbms\_output.put\_line('Organ id: '|| b.Organ\_ID);

dbms\_output.put\_line('donor id '|| b.Donor\_ID);

dbms\_output.put\_line('Status: '|| b.Status);

dbms\_output.put\_line('date of transaction: '|| b.Date\_of\_transaction);

exception

when large\_value then

dbms\_output.put\_line('value to big for column');

end change\_transaction\_status\_of\_donor;

/

begin

change\_transaction\_status\_of\_donor(&donor\_id,&status);

end;

declare

cursor o1(a int) is

select \* from Organization where Government\_approved=a;

begin

for rec in o1(&Government\_approved) loop

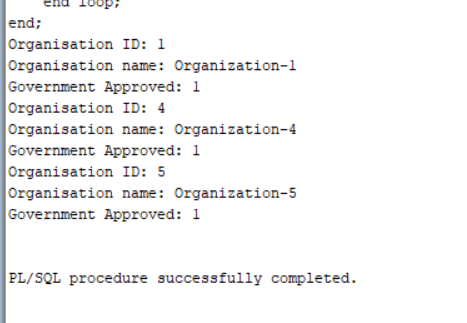
dbms\_output.put\_line('Organisation ID: '||rec.Organization\_ID);

dbms\_output.put\_line('Organisation name: '||rec.Organization\_name);

dbms\_output.put\_line('Government Approved: '||rec.Government\_approved);

end loop;

end;



1. **Conclusion: -**

To sum up, this Organ Donation Management System helps us to keep track of and manage the transplantation operations carried till date. This database system helps us manage the information regarding the donor, patient, doctor, and other people and organizations involved.

1. **References: -**

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<https://forums.oracle.com/ords/apexds/post/database-trigger-pl-sql-ora-00984-column-not-allowed-here-7506>

<https://stackoverflow.com/questions/64487272/pls-00103-encountered-the-symbol-begin-when-expecting-one-of-the-following>