Project

On

Hospital Management System

Implementation

Prepaired By :

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Tables created

```
   create table Employee(
   Eid varchar(10) primary key,
   Ename varchar(30) NOT NULL ,
   Eage number NOT NULL,
   Egender varchar(10) NOT NULL,
   Eaddress varchar(50) NOT NULL,
   Ejob varchar(20) NOT NULL
 );

create table Doctor(
 doctor_id varchar(10) primary key,
 department varchar(30) NOT NULL
);


create table Nurse(
 nurse_id varchar(10) primary key,
 nurse_type varchar(20) NOT NULL
);

create table room (
   Rno number primary key,
   Rtype varchar(10) NOT NULL,
   nurse_id varchar(10) ,
   FOREIGN KEY (nurse_id) REFERENCES Nurse(nurse_id)

);

create table Patient(
patient_id varchar(10) primary key,
name varchar(30) NOT NULL,
age    number NOT NULL,
gender varchar(10) NOT NULL,
doctor_id varchar(10) ,
room_no number ,
FOREIGN KEY (doctor_id) REFERENCES Doctor(doctor_id),
FOREIGN KEY (room_no) REFERENCES room(Rno)

);


 create table MedRecord(
    record_id varchar(10) primary key,
    disease varchar(50) NOT NULL,
    patient_id varchar(10),
    FOREIGN KEY(patient_id) REFERENCES Patient(patient_id)
 );


create table Bill (
    bill_no number primary key,
    patient_id varchar(10),
    doctor_fee number NOT NULL,
    room_fee number NOT NULL ,
    no_of_days number NOT NULL,
    lab_fee number NOT NULL,
    total number NOT NULL,
    FOREIGN KEY(patient_id) REFERENCES Patient(patient_id)
);
```

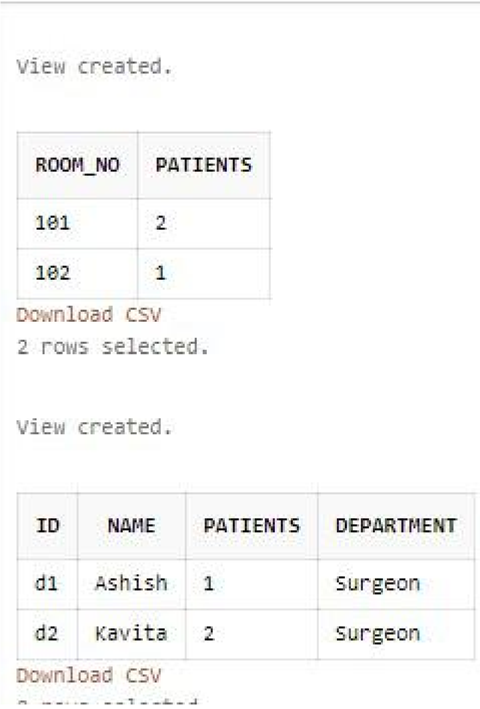
Views:

- The view Room_status shows Room number along with the the number of patiends assigned to given room.

```
create or replace view Room_status as
   select room_no,count(*) as Patients
      from Patient
       group by room_no
       order by room_no;

   select * from Room_status;
```

- The view doctor_status shows Doctor id , name of doctor , the number of patient which are currently under treatment by doctor and the department or speciallity of doctor.

```
  create or replace view doctor_status as
       with ttable(ID,count) as
       (select doctor_id ,count(*)
        from Patient group by doctor_id)
      select distinct ttable.ID as ID , Ename as Name ,ttable.count as
Patients,department
        from ttable inner join Patient on Patient.doctor_id = ttable.ID
inner join Doctor on Patient.doctor_id = Doctor.doctor_id
        inner join Employee on Eid = Patient.doctor_id;

select * from doctor_status;
```



View created.

ROOM_NO	PATIENTS
101	2
102	1

Download CSV
2 rows selected.

View created.

ID	NAME	PATIENTS	DEPARTMENT
d1	Ashish	1	Surgeon
d2	Kavita	2	Surgeon

Download CSV
2 rows selected.

Triggers:

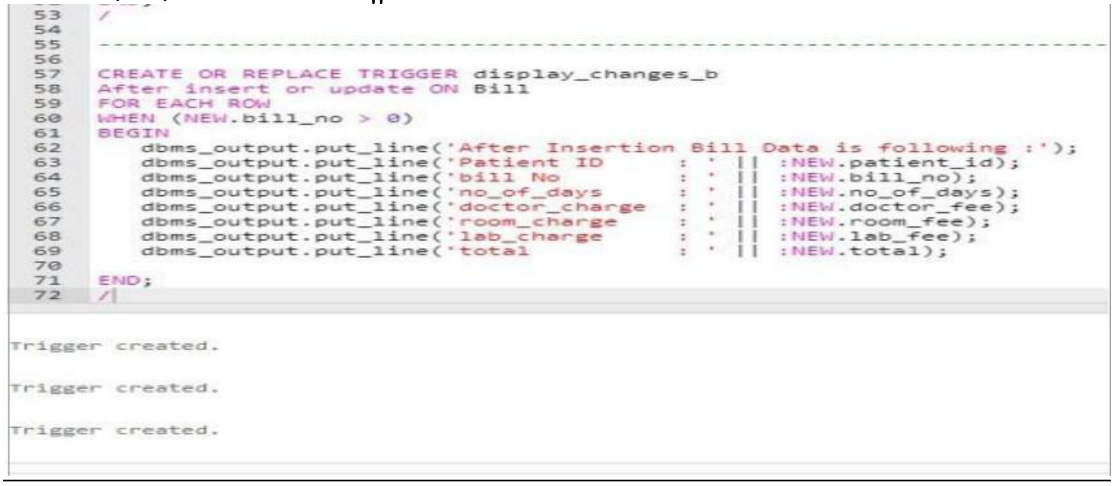
Creating and Implementing Triggers :

The below Triggers will print data after inserting data into a table or updating the data into table:

```
CREATE OR REPLACE TRIGGER display_changes_p
After insert or update ON Patient
FOR EACH ROW
WHEN (NEW.age > 0)
BEGIN
dbms_output.put_line('After Insertion Patient Data is following :');
dbms_output.put_line('ID : ' || :NEW.patient_id);
dbms_output.put_line('Name : ' || :NEW.name);
dbms_output.put_line('Age : ' || :NEW.age);dbms_output.put_line('gender : ' || :NEW.gender);
dbms_output.put_line('doctor_id : ' || :NEW.doctor_id);
END;
/
-------------------------------------------------------------------------------------------------
CREATE OR REPLACE TRIGGER display_changes_e
After insert or update ON Employee
FOR EACH ROW
WHEN (NEW.Eage > 0)
BEGIN
```

```
dbms_output.put_line('After Insertion Employee Data is following :');
dbms_output.put_line('ID : ' || :NEW.Eid);
dbms_output.put_line('Name : ' || :NEW.Ename);
dbms_output.put_line('Age : ' || :NEW.Eage);
dbms_output.put_line('gender : ' || :NEW.Egender);
dbms_output.put_line('Address : ' || :NEW.Eaddress);
END;
/
---------------------------------------------------------------------------
----------------------------------
CREATE OR REPLACE TRIGGER display_changes_d
After insert ON Doctor
FOR EACH ROW
WHEN (NEW.department is not NULL)
BEGIN
dbms_output.put_line('Department: ' || :NEW.department);
END;
/
---------------------------------------------------------------------------
----------------------------
CREATE OR REPLACE TRIGGER display_changes_m
After insert or update ON MedRecord
FOR EACH ROW
WHEN (NEW.record_id is not NULL)
BEGIN
dbms_output.put_line('ID : ' || :NEW.record_id);
dbms_output.put_line('Disease : ' || :NEW.Disease);
END;
/
---------------------------------------------------------------------------
----------------------------
CREATE OR REPLACE TRIGGER display_changes_b
After insert or update ON Bill
FOR EACH ROW
WHEN (NEW.bill_no > 0)
BEGIN
dbms_output.put_line('After Insertion Bill Data is following :');
dbms_output.put_line('Patient ID : ' || :NEW.patient_id);
dbms_output.put_line('bill No : ' || :NEW.bill_no);
dbms_output.put_line('no_of_days : ' || :NEW.no_of_days);
dbms_output.put_line('doctor_charge : ' || :NEW.doctor_fee);
dbms_output.put_line('room_charge : ' || :NEW.room_fee);
dbms_output.put_line('lab_charge : ' || :NEW.lab_fee);
```

dbms_output.put_line('total : ' || :NEW.total);END;



```
/

------------------------------------------------------------------------

CREATE OR REPLACE TRIGGER display_changes_b
After insert or update ON Bill
FOR EACH ROW
WHEN (NEW.bill_no > 0)
BEGIN
   dbms_output.put_line('After Insertion Bill Data is following :');
   dbms_output.put_line('Patient ID      : ' || :NEW.patient_id);
   dbms_output.put_line('bill No         : ' || :NEW.bill_no);
   dbms_output.put_line('no_of_days      : ' || :NEW.no_of_days);
   dbms_output.put_line('doctor_charge   : ' || :NEW.doctor_fee);
   dbms_output.put_line('room_charge     : ' || :NEW.room_fee);
   dbms_output.put_line('lab_charge      : ' || :NEW.lab_fee);
   dbms_output.put_line('total           : ' || :NEW.total);

END;
/
```

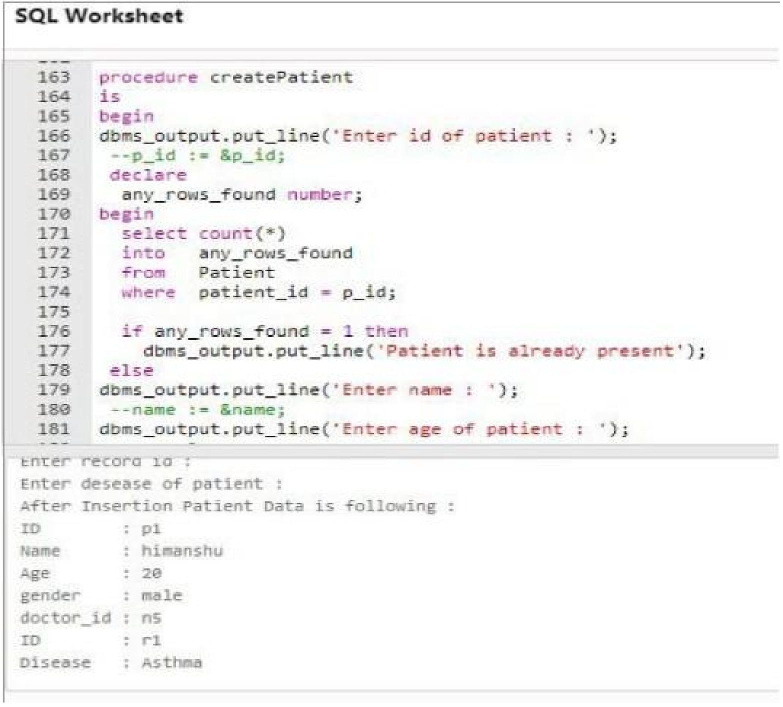
```
Trigger created.

Trigger created.

Trigger created.
```

Below query also shows implementation of procedure , function , cursors , triggers in PLSQL .

creation:

Add New Patient :- This module is used to add a new patient.
Add New Bill :- This module is used to add a new bill to patient.
Add New Doctor :- This module is used to add a new Doctor.
Add New Nurse :- This module is used to add a new Nurse.

Snapshot of creating a new patient I.e. insertion of a new patient data into Patient and MedRecord table.
If data of patient or employee is already present then it will show a message that data is already present .

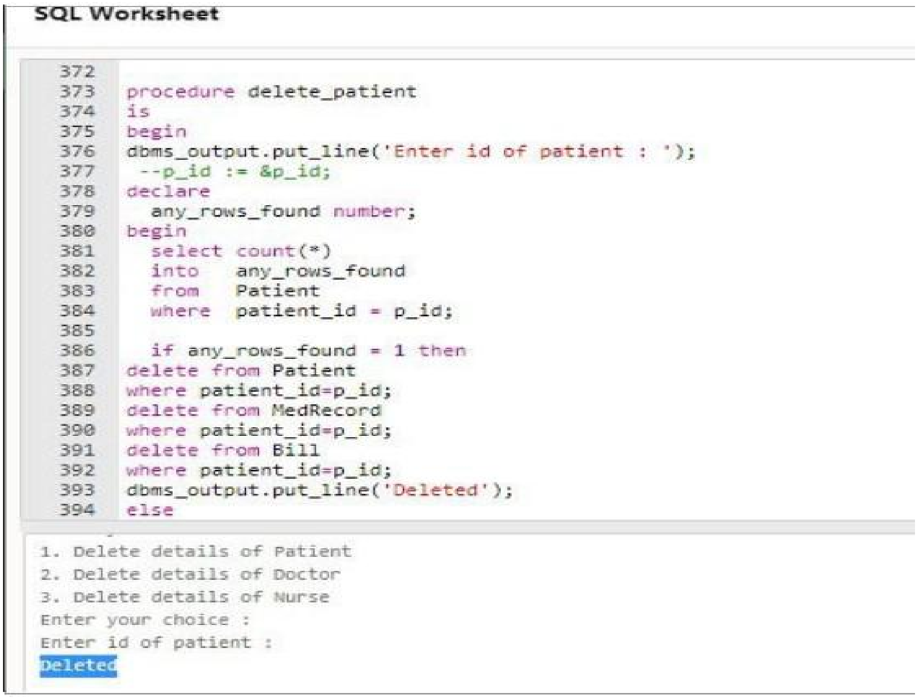


```
procedure createPatient
is
begin
dbms_output.put_line('Enter id of patient : ');
 --p_id := &p_id;
 declare
  any_rows_found number;
begin
  select count(*)
  into   any_rows_found
  from   Patient
  where  patient_id = p_id;

  if any_rows_found = 1 then
    dbms_output.put_line('Patient is already present');
 else
dbms_output.put_line('Enter name : ');
 --name := &name;
dbms_output.put_line('Enter age of patient : ');
```

```
Enter record id :
Enter desease of patient :
After Insertion Patient Data is following :
ID        : p1
Name      : himanshu
Age       : 20
gender    : male
doctor_id : n5
ID        : r1
Disease   : Asthma
```

Deletion of data :

Delete :- This module deletes the entry of a patient or a Doctor details. Deleting a patient record so have to delete MedRecord and Bill record of Patient too.
If data of patient or Employee is not present then will show a message that the data is not present.



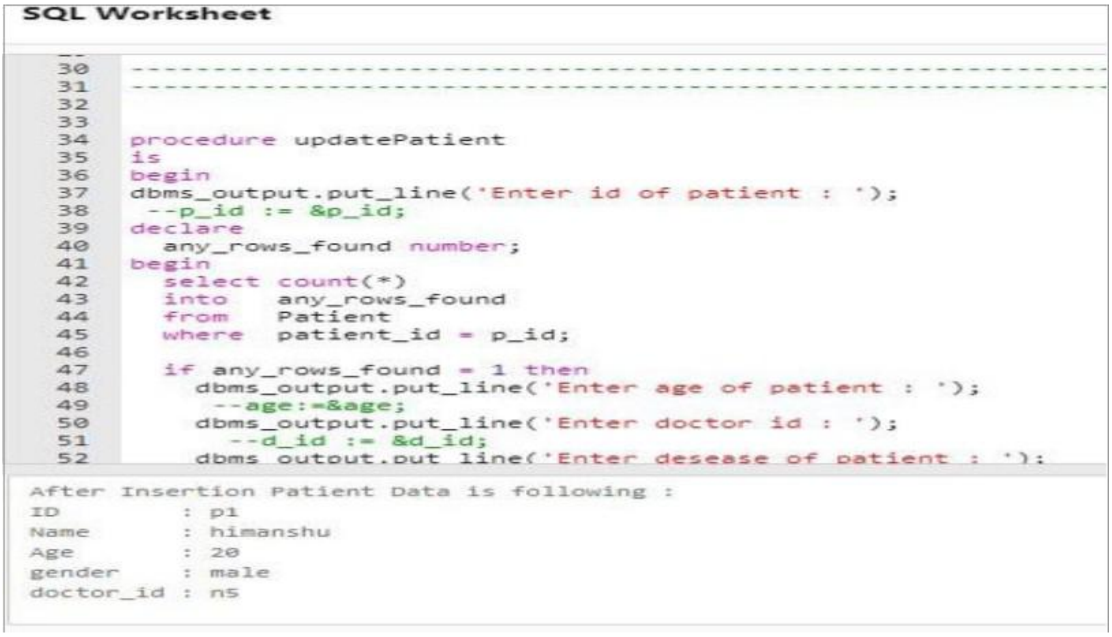
```
procedure delete_patient
is
begin
dbms_output.put_line('Enter id of patient : ');
 --p_id := &p_id;
declare
  any_rows_found number;
begin
  select count(*)
  into   any_rows_found
  from   Patient
  where  patient_id = p_id;

  if any_rows_found = 1 then
delete from Patient
where patient_id=p_id;
delete from MedRecord
where patient_id=p_id;
delete from Bill
where patient_id=p_id;
dbms_output.put_line('Deleted');
else
```

```
1. Delete details of Patient
2. Delete details of Doctor
3. Delete details of Nurse
Enter your choice :
Enter id of patient :
Deleted
```

Updation module:-

This module used to store or produce the patient reports and Doctor Details .

Updating a Patient Record age or disease or doctor assigned to patient can be change as shown below.
If data is not present then it will show that entity is not present.



```
-----------------------------------------------------------------
-----------------------------------------------------------------


procedure updatePatient
is
begin
dbms_output.put_line('Enter id of patient : ');
 --p_id := &p_id;
declare
  any_rows_found number;
begin
  select count(*)
  into   any_rows_found
  from   Patient
  where  patient_id = p_id;

  if any_rows_found = 1 then
    dbms_output.put_line('Enter age of patient : ');
     --age:=&age;
    dbms_output.put_line('Enter doctor id : ');
      --d_id := &d_id;
    dbms_output.put_line('Enter desease of patient : ');
```

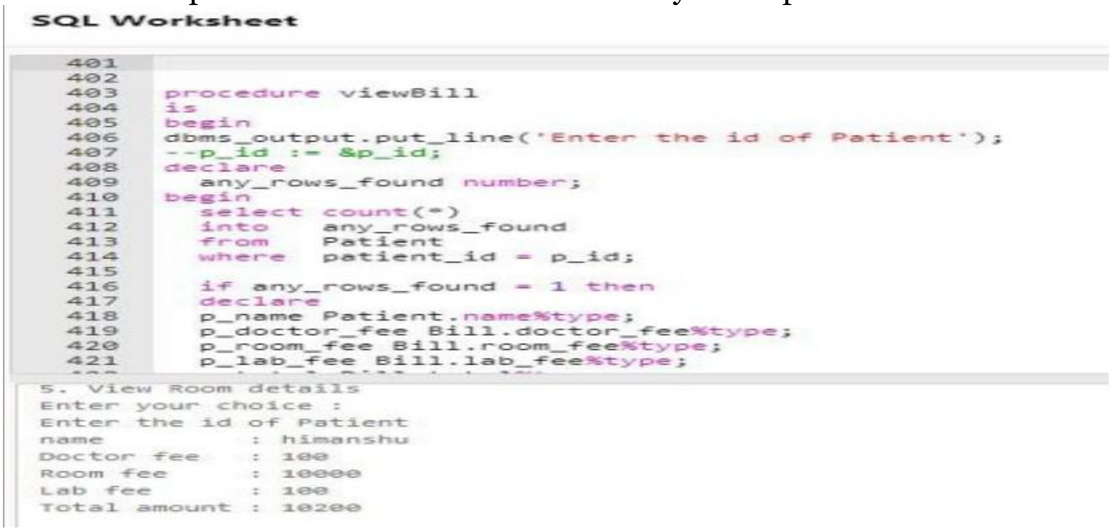
```
After Insertion Patient Data is following :
ID        : p1
Name      : himanshu
Age       : 20
gender    : male
doctor_id : n5
```

Viewing or Searching Data

View Details :- This module is used to view the details of a admitted patient and Doctor appointed in hospital.

Search :- This module searches the record of desired patient using his ID and Doctor using doctor id.

Below snapshot contains searching bill details and geting bill details of Patient .
If data is not present then it will show that entity is not present.



```


procedure viewBill
is
begin
dbms_output.put_line('Enter the id of Patient');
--p_id := &p_id;
declare
  any_rows_found number;
begin
  select count(*)
  into   any_rows_found
  from   Patient
  where  patient_id = p_id;

  if any_rows_found = 1 then
  declare
  p_name Patient.name%type;
  p_doctor_fee Bill.doctor_fee%type;
  p_room_fee Bill.room_fee%type;
  p_lab_fee Bill.lab_fee%type;
```

```
5. View Room details
Enter your choice :
Enter the id of Patient
name          : himanshu
Doctor fee    : 100
Room fee      : 10000
Lab fee       : 100
Total amount  : 10200
```

Code:

```
---------------variables Declaration ---------------------------
-----x=1 y=1 create patient--------x=1 y=2 create bill---
---x=1 y=3 create doctor-----x=1 y=4 create nurse--
---x=2 y=1 delete patient ------ x=2 y=2 delete doctor --- x=2 y=3 delete nurse
---x=3 y=1 update patient ---- x=3 y=2 update doctor ---- x=3 y=3 update nurse
---x=4 y=1 view bill----- x=4 y=2 view patient ----- x=4 y=3 view doctor
---x=4 y=4 view nurse ----- x=5 y=5 view room-details
declare
x number:=4;
y number:=1;
r_no number:=101;
res varchar(20):='yo';
p_id varchar(20):='p1';
names varchar(20):='himanshu';
age number:=21;
gender varchar(20):='male';
address varchar(50):='kr';
d_id varchar(10):='n2';
r_id varchar(10):='r4';
disease varchar(50):='CORONA';
bill_no number:=4;
roomfee number:=10000;
doctorfee number:=100;
no_of_days number:=1;
lab_charge number:=100;
total number:=2000;
dep varchar(20):='general';
u_age number := 23;

---------------------------------------------------------------------
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---------------------------------------------------------------------
---------------------------------------------------------------------
----------
        -----Updates
---------------------------------------------------------------------
---------------------------------------------------------------------
----------
---------------------------------------------------------------------
---------------------------------------------------------------------
----------



procedure updatePatient
```

```
is
begin
dbms_output.put_line('Enter id of patient : ');
 --p_id := &p_id;
declare
  any_rows_found number;
begin
  select count(*)
  into   any_rows_found
  from   Patient
  where  patient_id = p_id;

  if any_rows_found = 1 then
    dbms_output.put_line('Enter age of patient : ');
     --u_age:=&u_age;
   if(age>0) then
     update Patient
     set age = u_age
     where patient_id=p_id;
    end if;

else
dbms_output.put_line('No such Patient Found');
end if;
end;
end;
---------------------------------------------------------------------
---------------------------------------------------------------------
----------
---------------------------------------------------------------------
---------------------------------------------------------------------
----------


procedure updateDoctor
is
begin
dbms_output.put_line('Enter id of Doctor : ');
 --d_id := &d_id;
declare
  any_rows_found number;
begin
  select count(*)
  into   any_rows_found
  from   Doctor
  where  doctor_id = d_id;

  if any_rows_found = 1 then
    dbms_output.put_line('Enter age of Doctor : ');
     --age:=&u_age;
    if(age>0) then
     update Employee
      set Eage = u_age
     where Eid=d_id;
    end if;

else
dbms_output.put_line('No such Doctor Found');
end if;
end;
end;

---------------------------------------------------------------------
---------------------------------------------------------------------
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---------------------------------------------------------------------
---------------------------------------------------------------------
----------



procedure updateNurse
is
begin
dbms_output.put_line('Enter id of Nurse : ');
 --d_id := &d_id;
 declare
  any_rows_found number;
begin
  select count(*)
  into    any_rows_found
  from    Nurse
  where  nurse_id = d_id;

  if any_rows_found = 1 then

    dbms_output.put_line('Enter age of Nurse : ');
     --age:=&u_age;

    if(age>0) then
     update Employee
      set Eage = u_age
     where Eid=d_id;
    end if;
else
dbms_output.put_line('No such Nurse Found');
end if;
end;
end;
```

```
--------------------------------------------------------------------
--------------------------------------------------------------------
----------
--------------------------------------------------------------------
--------------------------------------------------------------------
----------
-------------------Creation
--------------------------------------------------------------------
--------------------------------------------------------------------
----------
--------------------------------------------------------------------
--------------------------------------------------------------------
----------
procedure createPatient
is
begin
dbms_output.put_line('Enter id of patient : ');
 --p_id := &p_id;
 declare
  any_rows_found number;
begin
  select count(*)
  into   any_rows_found
  from   Patient
  where  patient_id = p_id;

  if any_rows_found = 1 then
    dbms_output.put_line('Patient is already present');
 else
dbms_output.put_line('Enter name : ');
 --name := &name;
dbms_output.put_line('Enter age of patient : ');
 --age:=&age;
dbms_output.put_line('Enter gender of patient : ');
 --gender := &gender;
dbms_output.put_line('Enter doctor id : ');
  --d_id := &d_id;
dbms_output.put_line('Enter room no. : ');
  --r_no := &r_no;
dbms_output.put_line('Enter record id : ');
  --r_id := &r_id;
dbms_output.put_line('Enter desease of patient : ');
 --disease := &disease;
insert into Patient values(p_id,names,age,gender,d_id,r_no);
insert into MedRecord values(r_id,disease,p_id);
 end if;
 end;
end;
```

```
---------------------------------------------------------------------
---------------------------------------------------------------------
----------
---------------------------------------------------------------------
---------------------------------------------------------------------
----------


function createBill
return varchar2 is
msg varchar(20):='done';
begin
dbms_output.put_line('Enter id of patient : ');
 --p_id := &p_id;
 declare
  any_rows_found number;
begin
  select count(*)
  into    any_rows_found
  from    Patient
  where   patient_id = p_id;

  if any_rows_found = 1 then
dbms_output.put_line('Enter bill no. : ');
 --bill_no := &bill_no;
dbms_output.put_line('Enter doctor fee : ');
 --doctorfee:=&doctorfee;
dbms_output.put_line('Enter room fee  : ');
 --roomfee := &roomfee;
dbms_output.put_line('Enter no_of_days  : ');
 --no_of_days  := &no_of_days ;
dbms_output.put_line('Enter lab charge : ');
  --lab_charge:= &lab_charge;
total := lab_charge+roomfee+doctorfee;
insert into Bill values(bill_no,p_id,doctorfee,roomfee,no_of_days,lab_charge,total);
else
dbms_output.put_line('no such Patient exists');
end if;
end;
return msg;
 end;
---------------------------------------------------------------------
---------------------------------------------------------------------
----------
---------------------------------------------------------------------
---------------------------------------------------------------------
----------
```

```
function createDoctor
return varchar2 is
msg varchar(20):='done';
begin
dbms_output.put_line('Enter id of doctor : ');
 --d_id := &d_id;
declare
  any_rows_found number;
begin
  select count(*)
  into   any_rows_found
  from   Doctor
  where  doctor_id = d_id;
  if any_rows_found = 1 then
    dbms_output.put_line('Doctor is already present');
 else
dbms_output.put_line('Enter name of Doctor : ');
 --names := &names;
dbms_output.put_line('Enter age of  doctor: ');
 --age:=&age;
dbms_output.put_line('Enter Gender  : ');
 --gender := &gender;
dbms_output.put_line('Enter Address  : ');
 --address  := &address ;
dbms_output.put_line('Enter Department/speciality  : ');
 --dep  := &dep ;
insert into Employee values(d_id,names,age,gender,address,'Doctor');
insert into Doctor values(d_id,dep);
end if;
end;
return msg;
end;
---------------------------------------------------------------------
---------------------------------------------------------------------
----------
---------------------------------------------------------------------
---------------------------------------------------------------------
----------
function createNurse
return varchar2 is
msg varchar(20):='done';
begin
dbms_output.put_line('Enter id of Nurse : ');
 --d_id := &d_id;
declare
  any_rows_found number;
begin
  select count(*)
  into   any_rows_found
  from    Nurse
  where   nurse_id = d_id;
  if any_rows_found = 1 then
    dbms_output.put_line('Nurse is already present');
 else
dbms_output.put_line('Enter name of Nurse : ');
 --names := &names;
dbms_output.put_line('Enter age of  Nurse: ');
 --age:=&age;
dbms_output.put_line('Enter Gender  : ');
 --gender := &gender;
dbms_output.put_line('Enter Address  : ');
 --address  := &address ;
dbms_output.put_line('Enter Type  : ');
 --dep  := &dep ;
insert into Employee values(d_id,names,age,gender,address,'Nurse');
insert into Nurse values(d_id,dep);
end if;
end;
return msg;
end;



---------------------------------------------------------------------
---------------------------------------------------------------------
----------
---------------------------------------------------------------------
---------------------------------------------------------------------
----------
--------------------Deletion
---------------------------------------------------------------------
---------------------------------------------------------------------
----------
---------------------------------------------------------------------
---------------------------------------------------------------------
----------


procedure delete_doctor
is
begin
dbms_output.put_line('Enter id of doctor : ');
 --d_id := &d_id;
declare
  any_rows_found number;
begin
  select count(*)
  into    any_rows_found
  from    Doctor
  where   doctor_id = d_id;

  if any_rows_found = 1 then

delete from Doctor
where doctor_id=d_id;
delete from Employee
where Eid=d_id;
dbms_output.put_line('Deleted');
else
dbms_output.put_line('No such Doctor Found');
end if;
end;
end;


--------------------------------------------------------------------
--------------------------------------------------------------------
----------
--------------------------------------------------------------------
--------------------------------------------------------------------
----------


procedure delete_nurse
is
begin
dbms_output.put_line('Enter id of nurse : ');
 --d_id := &d_id;
declare
  any_rows_found number;
begin
  select count(*)
  into    any_rows_found
  from    Nurse
  where   nurse_id = d_id;

  if any_rows_found = 1 then
delete from Nurse
where nurse_id=d_id;
delete from Employee
where Eid=d_id;
dbms_output.put_line('Deleted');
else
dbms_output.put_line('No such Nurse Found');
end if;
end;
end;
```

```
---------------------------------------------------------------------
---------------------------------------------------------------------
----------
---------------------------------------------------------------------
---------------------------------------------------------------------
----------


procedure delete_patient
is
begin
dbms_output.put_line('Enter id of patient : ');
 --p_id := &p_id;
declare
  any_rows_found number;
begin
  select count(*)
  into   any_rows_found
  from   Patient
  where  patient_id = p_id;

  if any_rows_found = 1 then

delete from MedRecord
where patient_id=p_id;
delete from Bill
where patient_id=p_id;
delete from Patient
where patient_id=p_id;
dbms_output.put_line('Deleted');
else
dbms_output.put_line('No such Patient Found');
end if;
end;
end;
---------------------------------------------------------------------
---------------------------------------------------------------------
----------
---------------------------------------------------------------------
---------------------------------------------------------------------
----------
 ----View Data

---------------------------------------------------------------------
---------------------------------------------------------------------
----------
---------------------------------------------------------------------
---------------------------------------------------------------------
----------
```

```
procedure viewBill
is
begin
dbms_output.put_line('Enter the id of Patient');
--p_id := &p_id;
declare
  any_rows_found number;
begin
  select count(*)
  into   any_rows_found
  from   Patient
  where  patient_id = p_id;

  if any_rows_found = 1 then
  declare
  cursor data is
  select Patient.patient_id,Patient.name,doctor_fee,room_fee,lab_fee,total from
Patient
  inner join Bill on Patient.patient_id = Bill.patient_id;
  begin
  for i in data
  loop
  if(i.patient_id=p_id) then

   dbms_output.put_line('name          : '|| i.name);
   dbms_output.put_line('Doctor fee    : '|| i.doctor_fee);
   dbms_output.put_line('Room fee      : '|| i.room_fee);
   dbms_output.put_line('Lab fee       : '|| i.lab_fee);
   dbms_output.put_line('Total amount : '|| i.total );

  end if;
  end loop;
  end;

  else
  dbms_output.put_line('No Such Patient is found');
  end if;
  end;
  end;




--
--------------------------------------------------------------
--------------------------------------------------------------
---------
```

```
--
---------------------------------------------------------------------
---------------------------------------------------------------------
----------

procedure viewPatient
is
begin
dbms_output.put_line('Enter the id of Patient');
--p_id := &p_id;
declare
  any_rows_found number;
begin
  select count(*)
  into   any_rows_found
  from   Patient
  where  patient_id = p_id;

  if any_rows_found = 1 then
  declare
  p_name Patient.name%type;
  p_age Patient.age%type;
  p_gender Patient.gender%type;
  p_room_no Patient.room_no%type;
  p_Disease MedRecord.disease%type;
  begin
  select name,age,gender,room_no into p_name,p_age,p_gender,p_room_no from
Patient where patient_id = p_id;
  select disease into p_Disease
   from MedRecord where MedRecord.patient_id = p_id;
   dbms_output.put_line('name      : '|| p_name);
   dbms_output.put_line('age       : '|| p_age);
   dbms_output.put_line('Gender    : '|| p_gender);
   dbms_output.put_line('Room No.  : '|| p_room_no);
   dbms_output.put_line('Disease   : '|| p_Disease );

  end;

  else
  dbms_output.put_line('No Such Patient is found');
  end if;
  end;
  end;


---------------------------------------------------------------------
---------------------------------------------------------------------
---------
```

```
---------------------------------------------------------------------
---------------------------------------------------------------------
----------

procedure viewDoctor
is
begin
dbms_output.put_line('Enter the id of Doctor');
--d_id := &d_id;
declare
  any_rows_found number;
begin
  select count(*)
  into   any_rows_found
  from   Doctor
  where  doctor_id = d_id;

  if any_rows_found = 1 then
  declare
  d_name  Employee.Ename%type;
  d_age  Employee.Eage%type;
  d_gender  Employee.Egender%type;
  d_dep  Doctor.department%type;
  d_address Employee.Eaddress%type;
  begin
  select Ename,Eage,Egender,Eaddress into d_name,d_age,d_gender,d_address from
Employee where Eid = d_id;
  select department into d_dep
   from Doctor where doctor_id = d_id;
   dbms_output.put_line('name         : '|| d_name);
   dbms_output.put_line('age          : '|| d_age);
   dbms_output.put_line('Gender       : '|| d_gender);
   dbms_output.put_line('address.     : '|| d_address);
   dbms_output.put_line('Department   : '|| d_dep );

  end;

  else
  dbms_output.put_line('No Such Doctor is found');
  end if;
  end;
  end;


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```

```
procedure viewNurse
is
begin
dbms_output.put_line('Enter the id of Nurse');
--d_id := &d_id;
declare
  any_rows_found number;
begin
  select count(*)
  into    any_rows_found
  from    Nurse
  where   nurse_id = d_id;

  if any_rows_found = 1 then
  declare
  d_name   Employee.Ename%type;
  d_age   Employee.Eage%type;
  d_gender   Employee.Egender%type;
  d_dep   Nurse.nurse_type%type;
  d_address Employee.Eaddress%type;
  begin
  select Ename,Eage,Egender,Eaddress into d_name,d_age,d_gender,d_address from
Employee where Eid = d_id;
  select nurse_type into d_dep
   from Nurse where nurse_id = d_id;
   dbms_output.put_line('name          : '|| d_name);
   dbms_output.put_line('age           : '|| d_age);
   dbms_output.put_line('Gender        : '|| d_gender);
   dbms_output.put_line('address.      : '|| d_address);
   dbms_output.put_line('Department   : '|| d_dep );

  end;

  else
  dbms_output.put_line('No Such Nurse is found');
  end if;
  end;
  end;


--------------------------------------------------------------------
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----------
----end of procedures---
--------------------------------------------------------------------
--------------------------------------------------------------------
----------
```

```
begin
dbms_output.put_line('------------------------------------------------
-------------------------------------------------------------------
-----------------');
dbms_output.put_line('------------------------------------------------
-------------------------------------------------------------------
-----------------');
dbms_output.put_line('                                              Welcome
To Hospital Management System');
dbms_output.put_line('------------------------------------------------
-------------------------------------------------------------------
-----------------');
dbms_output.put_line('------------------------------------------------
-------------------------------------------------------------------
-----------------');

dbms_output.put_line('Menu : ');
dbms_output.put_line('1. Insert Data');
dbms_output.put_line('2. Delete Data');
dbms_output.put_line('3. Update Data');
dbms_output.put_line('4. View Data');

dbms_output.put_line('Enter your choice : ');

--x := &x; ---input value of x from user

  if(x=1) then
    dbms_output.put_line('1. insert details of Patient');
    dbms_output.put_line('2. insert bill details of Patient');
    dbms_output.put_line('3. insert details of Doctor');
    dbms_output.put_line('4. insert details of Nurse');

    dbms_output.put_line('Enter your choice : ');

    --y := &y; ----input value of y from user

      if(y=1) then
        createPatient();
      elsif(y=2) then
        res := createBill();
        dbms_output.put_line(res);
      elsif(y=3) then
       res := createDoctor();
        dbms_output.put_line(res);
       elsif(y=4) then
       res := createNurse();
        dbms_output.put_line(res);
      else
       dbms_output.put_line('not valid input');
```

```
     end if;

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 elsif(x=2) then
   dbms_output.put_line('1. Delete details of Patient');
   dbms_output.put_line('2. Delete details of Doctor');
   dbms_output.put_line('3. Delete details of Nurse');

   dbms_output.put_line('Enter your choice : ');

   --y := &y;----input value of y from user

    if(y=1) then
      delete_patient();
    elsif(y=2) then
     delete_doctor();
    elsif(y=3) then
     delete_nurse();
    else
      dbms_output.put_line('not valid input');
    end if;

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elsif(x=3)then
   dbms_output.put_line('1. Update details of Patient');
   dbms_output.put_line('2. Update details of Doctor');
   dbms_output.put_line('2. Update details of Nurse');

   dbms_output.put_line('Enter your choice : ');

   --y := &y;----input value of y from user

   if(y=1) then
    updatePatient();
   elsif(y=2) then
    updateDoctor();
   elsif(y=3) then
    updateNurse();
   else
     dbms_output.put_line('not valid input');
    end if;

   -----------------------------------------------------
   -----------------------------------------------------
```

```
elsif(x=4)then
    dbms_output.put_line('1. View Bill detail of Patient');
    dbms_output.put_line('2. View personal detail of Patient');
    dbms_output.put_line('3. View details of Doctor');
    dbms_output.put_line('4. View details of Nurse');
    dbms_output.put_line('5. View Room details');

    dbms_output.put_line('Enter your choice : ');

    --y := &y;----input value of y from user

    if(y=1) then
     viewBill();
    elsif(y=2) then
     viewPatient();
    elsif(y=3) then
     viewDoctor();
    elsif(y=4) then
     viewNurse();
    else
     dbms_output.put_line('not a valid input');
     end if;


  else
    dbms_output.put_line('NOT A VALID INPUT INPUT AGAIN');
  end if;

end;
/

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---------------------------------------END--------------------
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```