OSDB TEST

Roll_no: 25

Name : Mrinaal Paliwal

1. create database hospital;
2. \c hospital;

```
postgres=# create database hospital;
CREATE DATABASE
postgres=# \c hospital;
You are now connected to database "hospital" as user "postgres".
```

3. Using the following schema:

```
patient(pid serial pk
        name composite(firstname lastname)
)
doctor(
        did pk
        name
        specialization
        staff-id, fk

)
treatment(
        tid, pk
        did, fk
        pid, fk
        staff-id, fk
        diesease,
        prescription,
        appointment_date,
        treatment-start-date,
        treatment-end-date

)
room(
        pid, fk
        room-no

)
staff(
        staff-id, pk
        type,
        name,

)
payment(
        pay-id, pk
        type,
        date,
)
```

4. Patient table:

Create sequence pid increment 1 minvalue 1 start 1;

Create table patient(

Patient_id int primary key,

Name char(40)

);

```
hospital=# Create table patient(
hospital(# Patient_id serial primary key,
hospital(# Name char(40)
hospital(# );
CREATE TABLE
hospital=# \d patient
                                    Table "public.patient"
   Column   |     Type      | Collation | Nullable |                  Default
------------+---------------+-----------+----------+-------------------------------------------
 patient_id | integer       |           | not null | nextval('patient_patient_id_seq'::regclass)
 name       | character(40) |           |          |
Indexes:
    "patient_pkey" PRIMARY KEY, btree (patient_id)
```

Insert into patient values(nextval('pid'),'Mrinaal Paliwal');

```
hospital=# Create table patient(
hospital(# Patient_id int primary key,
hospital(# Name char(40)
hospital(# );
CREATE TABLE
hospital=# Insert into patient values(nextval('pid'),'Mrinaal Paliwal');
INSERT 0 1
hospital=# select * from patient;
 patient_id |                   name
------------+-----------------------------------------
          1 | Mrinaal Paliwal
(1 row)
```

5. Staff-Table

Create sequence stid increment 1 minvalue 1 start 1;

Create table staff(

staff_id int primary key,

Name char(40),

Staff_type char(40)

);

Insert into staff values(nextval('stid'),'Ajit','ward-boy');

```
hospital=# Create sequence stid increment 1 minvalue 1 start 1;
CREATE SEQUENCE
hospital=# Create table staff(
hospital(# staff_id int primary key,
hospital(# Name char(40),
hospital(# Staff_type char(40)
hospital(# );
CREATE TABLE
hospital=# Insert into staff values(nextval('stid'),'Ajit','ward-boy');
INSERT 0 1
hospital=# Insert into staff values(nextval('stid'),'Arijit','ward-boy');
INSERT 0 1
hospital=# Insert into staff values(nextval('stid'),'Neha','nurse');
INSERT 0 1
hospital=# Insert into staff values(nextval('stid'),'Mia','nurse');
INSERT 0 1
hospital=# Insert into staff values(nextval('stid'),'Rosie','nurse');
INSERT 0 1
hospital=# select * from staff;
 staff_id |                   name                   |               staff_type
----------+------------------------------------------+----------------------------------------
        1 | Ajit                                     | ward-boy
        2 | Arijit                                   | ward-boy
        3 | Neha                                     | nurse
        4 | Mia                                      | nurse
        5 | Rosie                                    | nurse
(5 rows)
```

6. Doctor

Create sequence docid increment 1 minvalue 1 start 1;

```
hospital=# Create sequence docid increment 1 minvalue 1 start 1;
CREATE SEQUENCE
```

Create table doctor(

doc_id int primary key,

Name char(40),

Staff_id int,

Specialization char(40)

);

Alter table doctor add constraint fk_doc_staff foreign key(staff_id) references staff(staff_id);

```
hospital=# Create table doctor(
hospital(# doc_id int primary key,
hospital(# Name char(40),
hospital(# Staff_id int,
hospital(# Specialization char(40)
hospital(# );
CREATE TABLE
hospital=# Alter table doctor add constraint fk_doc_staff foreign key(staff_id) references staff(staff_id);
ALTER TABLE
hospital=#
```

Insert into doctor values(nextval('docid'),'Aruna',3,'neurology');

```
hospital=# Alter table doctor add constraint fk_doc_staff foreign key(staff_id) references staff(staff_id);
ALTER TABLE
hospital=# Insert into doctor values(nextval('docid'),'Aruna',3,'neurology');
INSERT 0 1
hospital=# Insert into doctor values(nextval('docid'),'Arjuna',1,'ent');
INSERT 0 1
hospital=# Insert into doctor values(nextval('docid'),'Rama',2,'cardiology');
INSERT 0 1
hospital=# Insert into doctor values(nextval('docid'),'Sita',4,'Psychology');
INSERT 0 1
hospital=# Insert into doctor values(nextval('docid'),'Balrama',5,'Physiotherapy');
INSERT 0 1
hospital=# select * from doctor;
 doc_id |                  name                  | staff_id |             specialization
--------+----------------------------------------+----------+----------------------------------------
      1 | Aruna                                  |        3 | neurology
      2 | Arjuna                                 |        1 | ent
      3 | Rama                                   |        2 | cardiology
      4 | Sita                                   |        4 | Psychology
      5 | Balrama                                |        5 | Physiotherapy
(5 rows)
```

7. Treatment table

Create sequence trid increment 1 minvalue 1 start 1;

Create table treatment(

tr_id int primary key,

doc_id int,

patient_id

Specialization char(40)

);