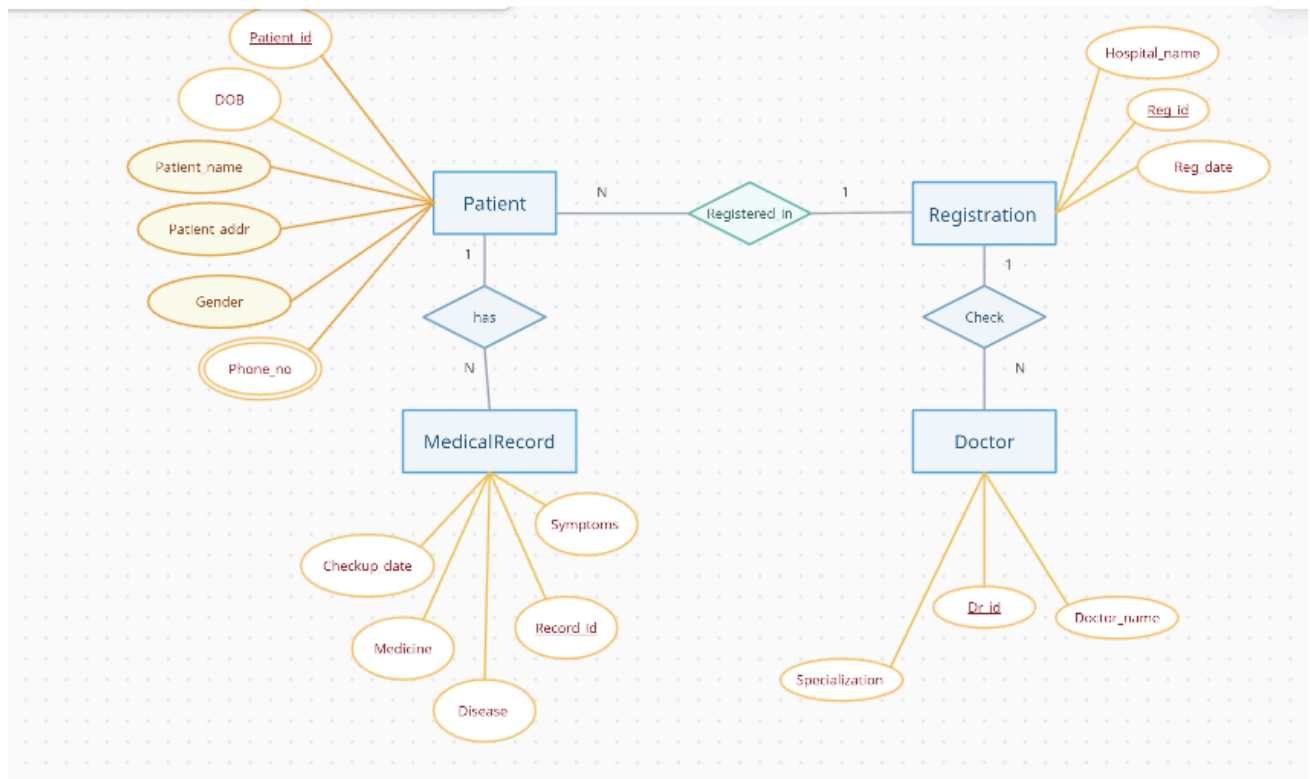


DATABASE TASK

Hospital Management System

ER Diagram



Patient : Patient ID (primary key),Name,DOB,Address,Gender,Phone number.

Doctor : Doctor ID (primary key),Name,Specialization.

Registration : Registration ID (primary key),Patient ID (foreign key),Hospital name,Registration date.

Medical Record : Record ID (primary key),Patient ID (foreign key),Symptoms,Checkup date,Medicine,Disease

The relationships between the entities are as follows:

A patient can have many registrations.

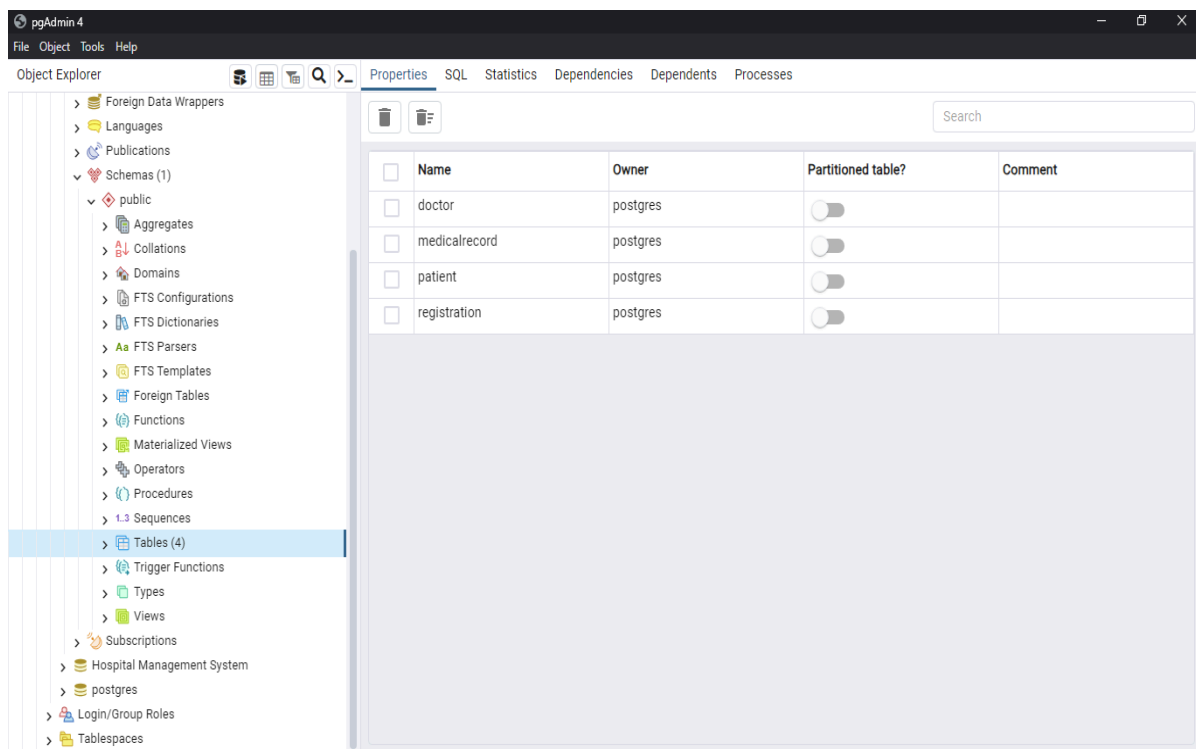
A registration is for one patient.

A patient can have many medical records.

A medical record is for one patient.

A doctor can have many medical records.

Database Created



Created a database named HMS with tables named Patient, Doctor, MedicalRecord, and Registration in PostgreSQL using SQL create table queries.

Table name	Tuples inserted	Tuples updated	Tuples deleted	Tuples HOT updated	Live tuples	Dead tuples
doctor	205	1	1	0	201	5
medicalrecord	104	0	0	0	102	2
patient	201	1	2	0	199	3
registration	101	2	0	0	101	2

Added data to each table.

Query Performed

1. Select query with and without conditions.

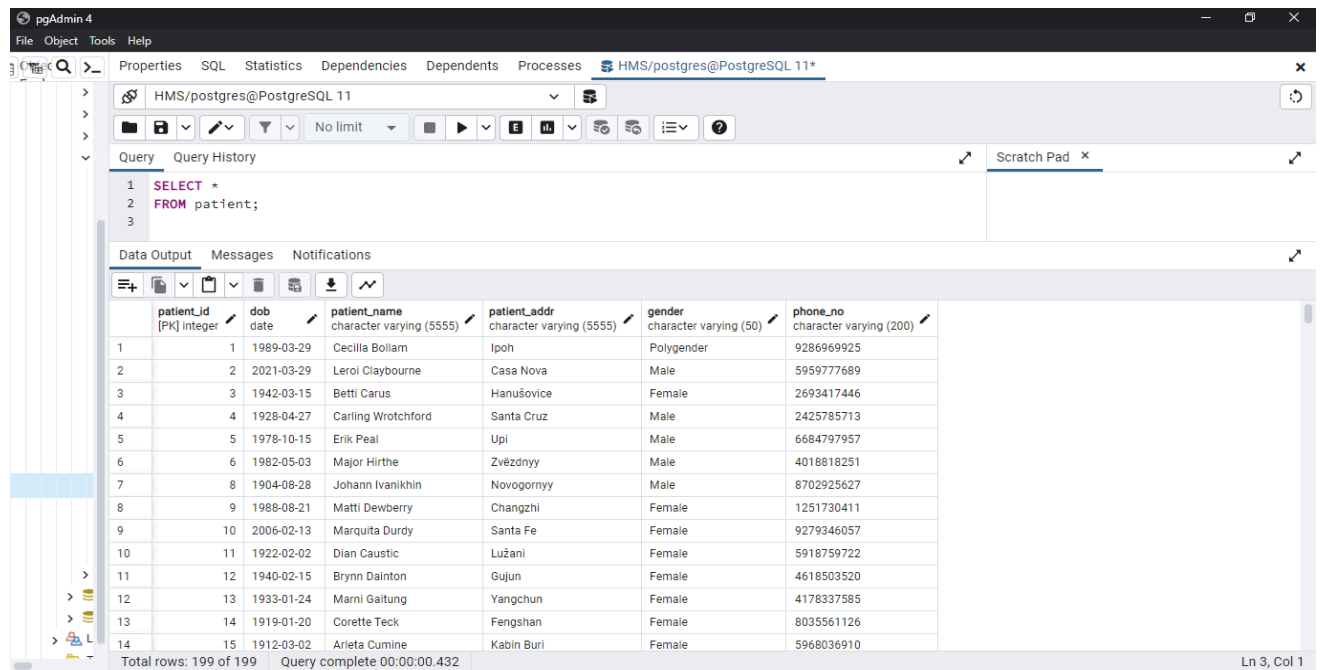
```
SELECT *
FROM Patient;
```

```
SELECT Doctor_name
FROM doctor;
```

```
SELECT *
FROM medicalrecord
WHERE checkup_date= '2022-12-25';
```

```
SELECT hospital_name, reg_id
FROM Registration
```

WHERE reg_id='3' OR reg_id='55';



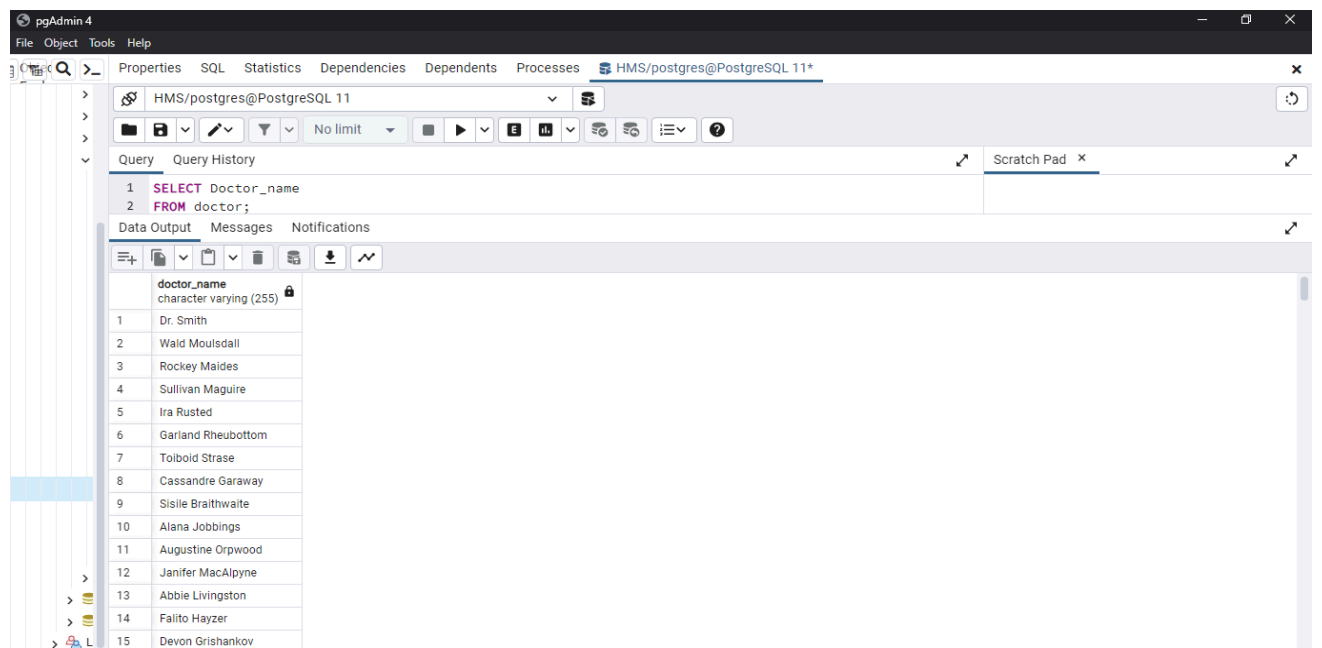
The screenshot shows the pgAdmin 4 interface with a SQL query executed. The query is:

```
1 SELECT *
2 FROM patient;
3
```

The results are displayed in a table with the following columns: patient_id (integer), dob (date), patient_name (character varying (555)), patient_addr (character varying (555)), gender (character varying (50)), and phone_no (character varying (200)).

patient_id	dob	patient_name	patient_addr	gender	phone_no
1	1989-03-29	Cecilia Bollam	Ipoh	Polygender	9286969925
2	2021-03-29	Lerol Claybourne	Casa Nova	Male	5959777689
3	1942-03-15	Betti Carus	Hanušovice	Female	2693417446
4	1928-04-27	Carling Wrotchford	Santa Cruz	Male	2425785713
5	1978-10-15	Erik Peal	Upi	Male	6684797957
6	1982-05-03	Major Hirthe	Zvězdnyy	Male	4018818251
7	1904-08-28	Johann Ivanikhin	Novogormyy	Male	8702925627
8	1988-08-21	Matti Dewberry	Changzhi	Female	1251730411
9	2006-02-13	Marquita Durdy	Santa Fe	Female	9279346057
10	1922-02-02	Dian Caustic	Lužani	Female	5918759722
11	1940-02-15	Brynn Dainton	Gujun	Female	4618503520
12	1933-01-24	Marni Gaitung	Yangchun	Female	4178337585
13	1919-01-20	Corette Teck	Fengshan	Female	8035561126
14	1912-03-02	Arieta Cumine	Kabin Buri	Female	5968036910

Total rows: 199 of 199 Query complete 00:00:00.432 Ln 3, Col 1

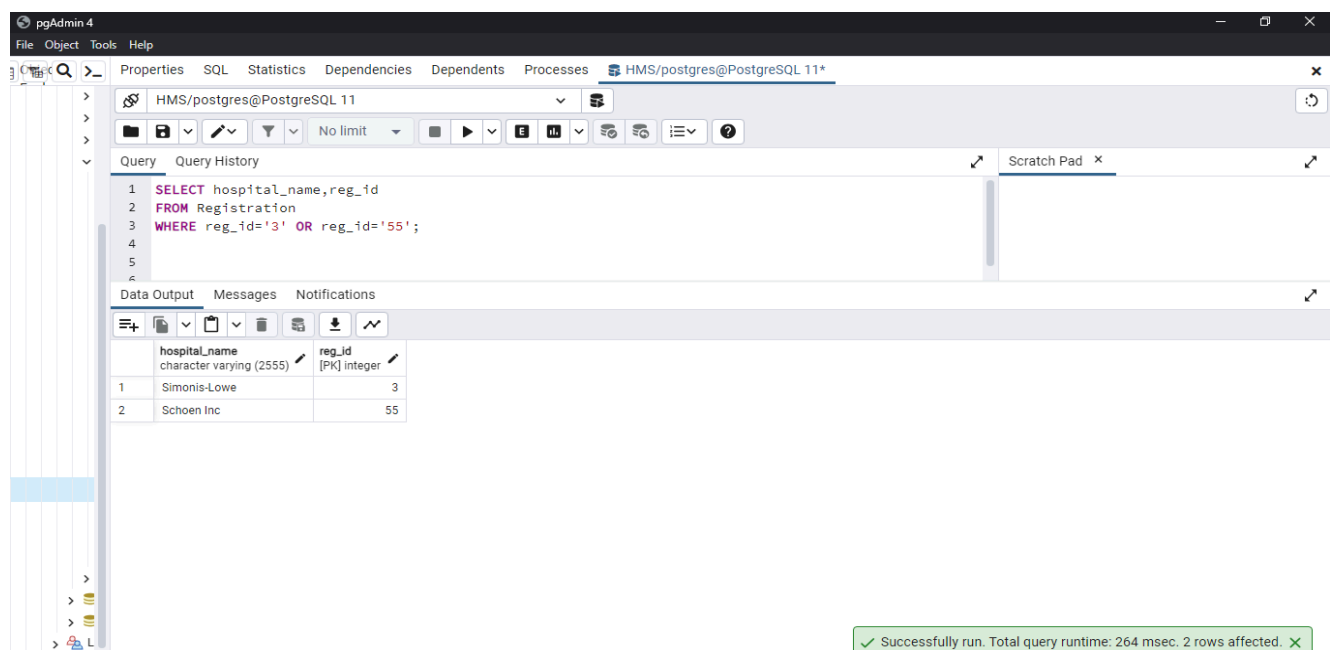
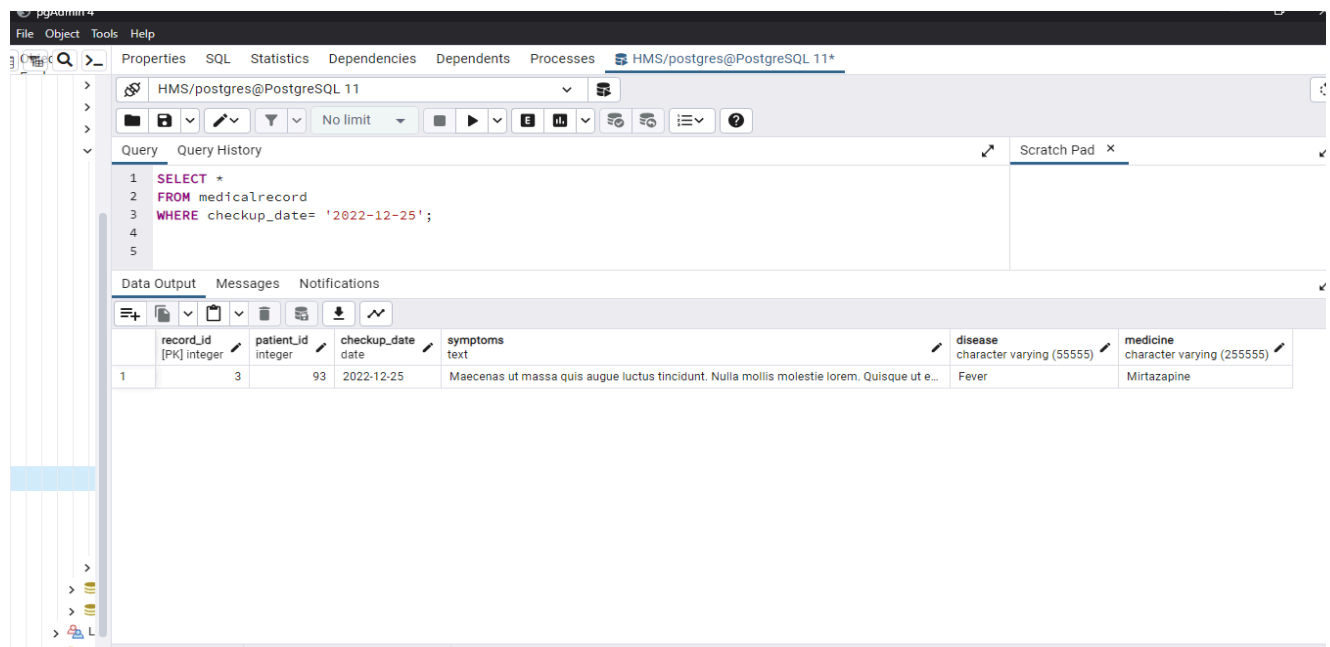


The screenshot shows the pgAdmin 4 interface with a SQL query executed. The query is:

```
1 SELECT Doctor_name
2 FROM doctor;
```

The results are displayed in a table with the following columns: doctor_name (character varying (255)).

doctor_name
Dr. Smith
Wald Mouldsall
Rockey Maides
Sullivan Maguire
Ira Rusted
Garland Rheubottom
Toibold Strase
Cassandre Garaway
Sisile Braithwaite
Alana Jobbings
Augustine Orpwood
Janifer MacAlpyne
Abbie Livingston
Falito Hayzer
Devon Grishankov



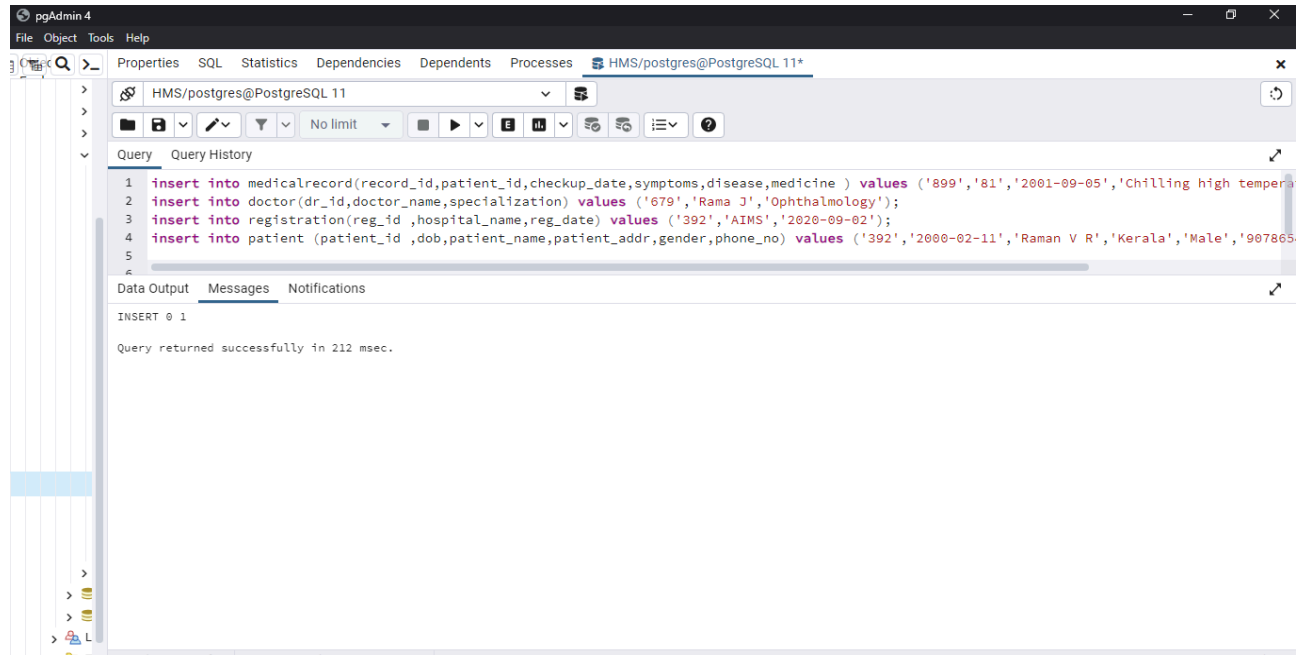
2.Insert query

insert into medicalrecord(record_id,patient_id,symptoms,disease,medicine)
values ('898','81','2001-09-05','Chilling high temperature','Fever','Dolo 635');

```

insert into doctor(dr_id,doctor_name,specialization) values ('678','Rama
J','Ophthalmology');
insert into registration(reg_id ,hospital_name,reg_date) values
('390','AIMS','2020-09-02');
insert into patient (patient_id ,dob,patient_name,patient_addr,gender,phone_no)
values ('390','2000-02-11','Raman V R','Kerala','Male','9078654321');

```

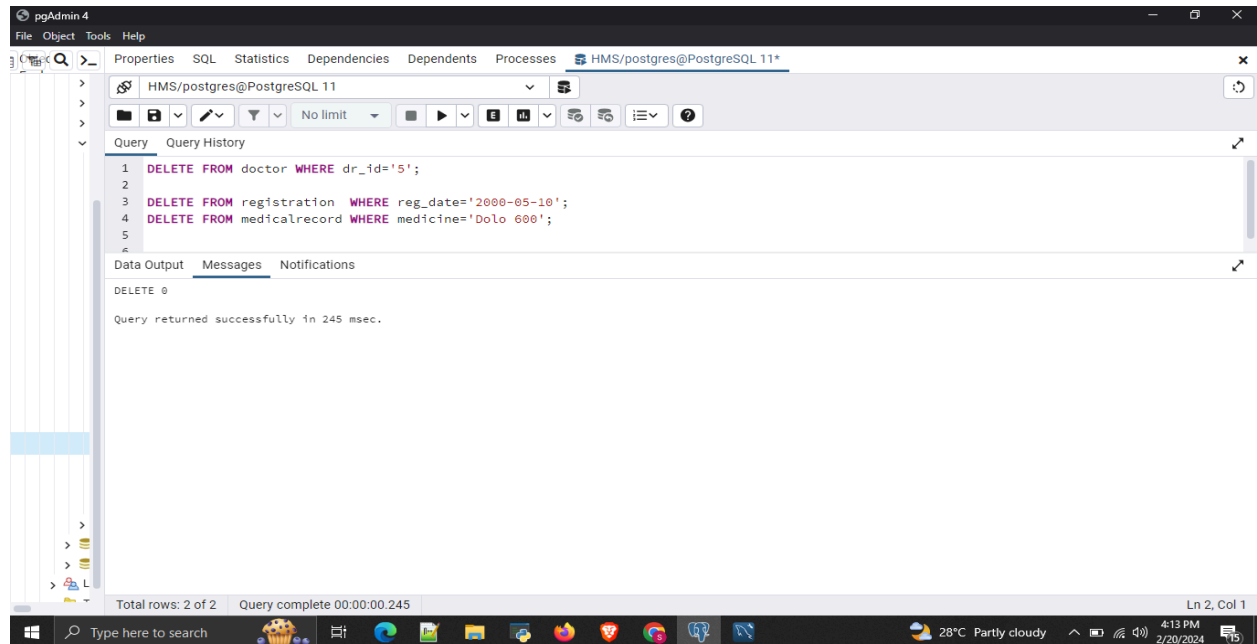


3.Delete query.

```

DELETE FROM doctor WHERE dr_id='4';
DELETE FROM patient WHERE patient_name='Nola Shale';
DELETE FROM registration WHERE reg_date='2000-05-10';
DELETE FROM medicalrecord WHERE medicine='Dolo 600';

```



4.Update query

```
UPDATE doctor  
SET dr_id='556'  
WHERE doctor_name='Kalila Lober';
```

```
UPDATE patient  
SET patient_id='5689'  
WHERE dob='1/24/1933';
```

```
UPDATE registration  
SET reg_id='998'  
WHERE hospital_name='AIMS';
```

```
UPDATE medicalrecord  
SET medicine='Cipla'  
WHERE medicine='Dolo 600';
```

pgAdmin 4

File Object Tools Help

Properties SQL Statistics Dependencies Dependents Processes HMS/postgres@PostgreSQL 11*

HMS/postgres@PostgreSQL 11

No limit

Query Query History

```
1 UPDATE doctor
2 SET dr_id='566'
3 WHERE doctor_name='Kalila Lober';
4
```

Data Output Messages Notifications

UPDATE 1

Query returned successfully in 245 msec.

Total rows: 2 of 2 Query complete 00:00:00.245 Ln 2, Col 14

pgAdmin 4

File Object Tools Help

Properties SQL Statistics Dependencies Dependents Processes HMS/postgres@PostgreSQL 11*

HMS/postgres@PostgreSQL 11

No limit

Query Query History

```
1 UPDATE medicalrecord
2 SET medicine='Cipla'
3 WHERE medicine='DoLo 680';
```

Data Output Messages Notifications

UPDATE 0

Query returned successfully in 226 msec.

✓ Query returned successfully in 226 msec. ✕

Total rows: 2 of 2 Query complete 00:00:00.226 Ln 3, Col 27