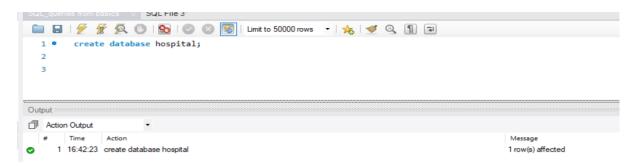
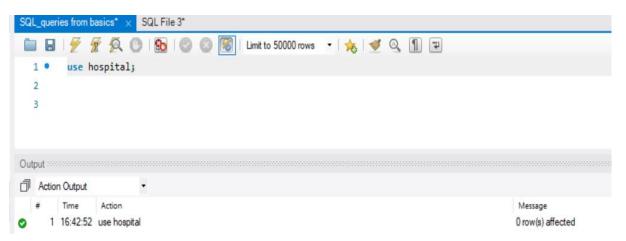
Hospital Management -Case Study



1. The first step is to create the database which we are going to use



2.We must use the database we have created



- 3.Next we have to create the tables and then we are going to insert values on it .so we are going to create three tables namely patients, doctors and appointments.
 - first, we create table for patients:

```
CREATE TABLE Patients (
patient_id INT PRIMARY KEY,
patient_name VARCHAR(100),
dob DATE,
gender VARCHAR(10),
phone VARCHAR(20),
address VARCHAR(255),
insurance_provider VARCHAR(100),
insurance_id VARCHAR(50),
blood_type VARCHAR(10),
allergies TEXT
);
13
```

❖ Next create table for the doctors:

Next create table for Appointments:

Now we can start inserting the data on the table patients:

```
SQL_queries from basics* × SQL File 3*

| Instract into Patients (patient_id, patient_name, dob, gender, phone, address, insurance_provider, insurance_id, bout to VALUES
| VALUES | VALUES | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Values | Va
```

Now the values to doctor's table:

```
SQL_queries from basics* x SQL File 3*

| SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQL File 3* | SQ
```

❖ Now for the appointment table:

```
SQL_queries from basics* × SQL File 3*

1 • INSERT INTO Appointments (appointment_id, patient_id, doctor_id, appointment_date, status, reason_for_visit, diagnoted values

3 (1, 1, 1, '2024-07-25 10:00:00', 'scheduled', 'Routine checkup', NULL, NULL, NULL),

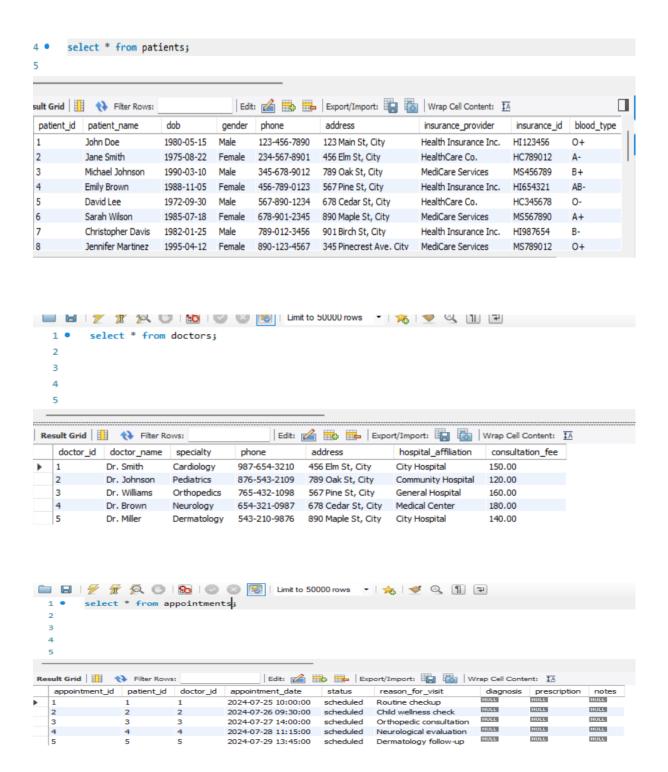
4 (2, 2, 2, '2024-07-26 09:30:00', 'scheduled', 'Child wellness check', NULL, NULL, NULL),

5 (3, 3, 3, '2024-07-27 14:00:00', 'scheduled', 'Orthopedic consultation', NULL, NULL, NULL),

6 (4, 4, 4, '2024-07-28 11:15:00', 'scheduled', 'Neurological evaluation', NULL, NULL),

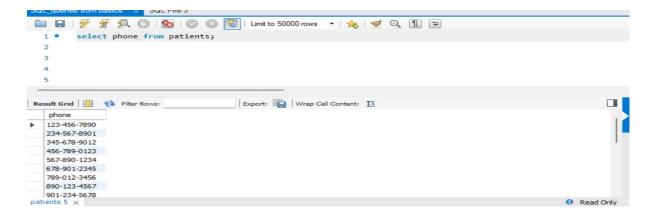
7 (5, 5, 5, '2024-07-29 13:45:00', 'scheduled', 'Dermatology follow-up', NULL, NULL), NULL);
```

❖ After successfully creating and inserting the value into the tables. We can verify whether tables are created or not using the select which display whole table.

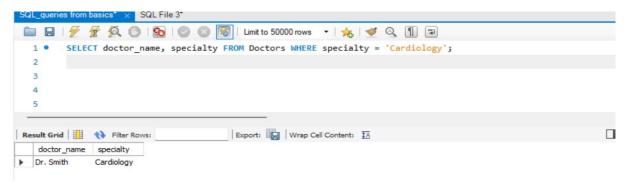


CASE STUDY

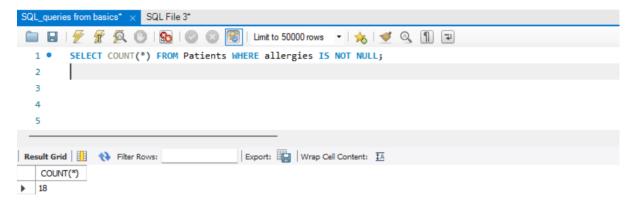
1. Retrieve all patients' names and their phone numbers.



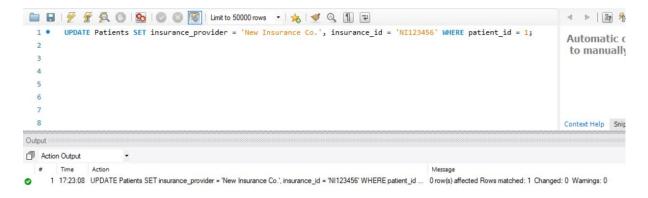
2. Find all doctors specializing in Cardiology.



3. Count the number of patients with allergies



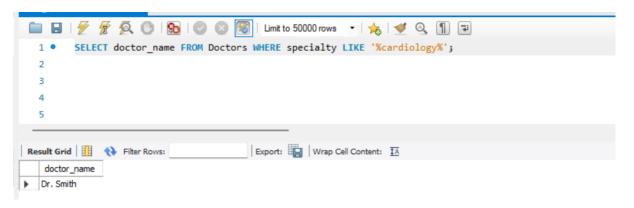
4. Update a patient's insurance provider and ID based on their ID.



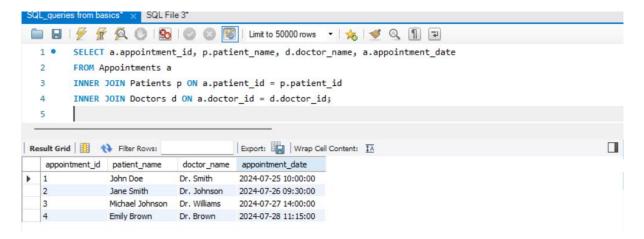
5. Delete a doctor from the database.



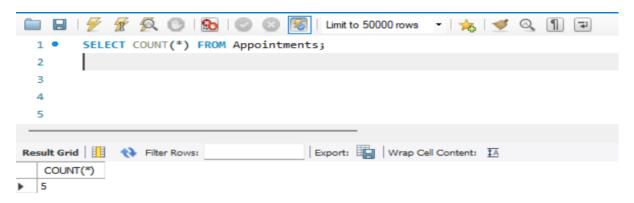
6. Find doctors who is Cardiologist.



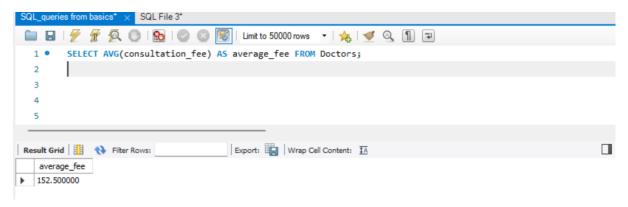
7. List all appointments with their associated patient and doctor names.



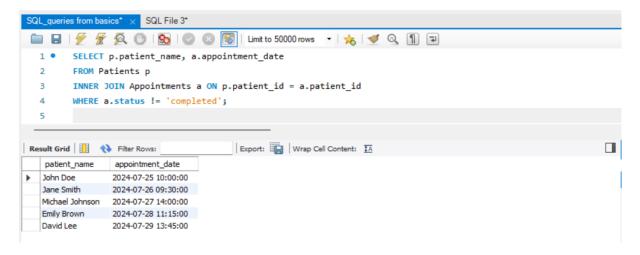
8. Calculate the total number of appointments.



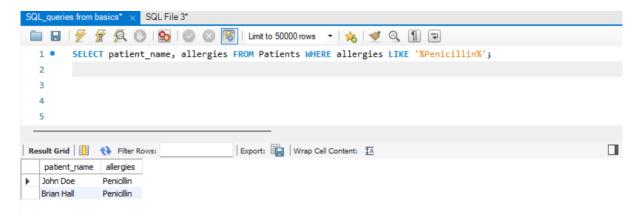
9. Find the average consultation fee of all doctors.



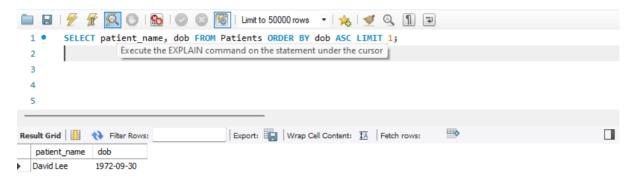
10. Identify patients who have appointments scheduled but have not been marked as complete.



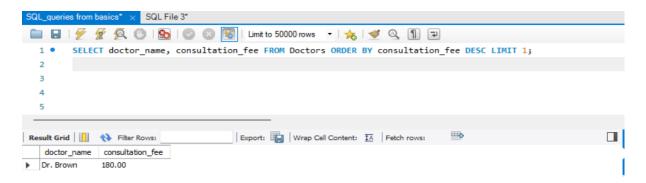
11. List patients who have a specific allergy (e.g., Penicillin).



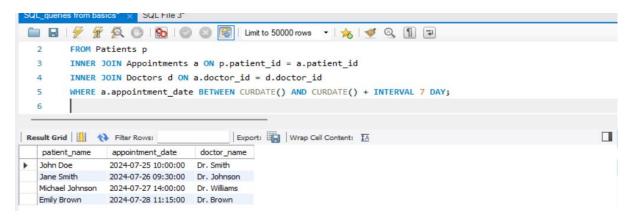
12. Find the oldest patient by age.



13. Determine the doctor with the highest consultation fee.



14. Identify Patients with Upcoming Appointments



15. Identify Doctors with High Patient Volume

