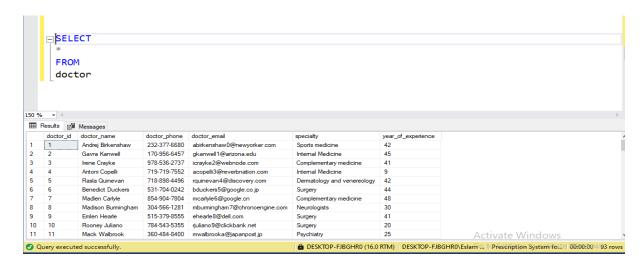
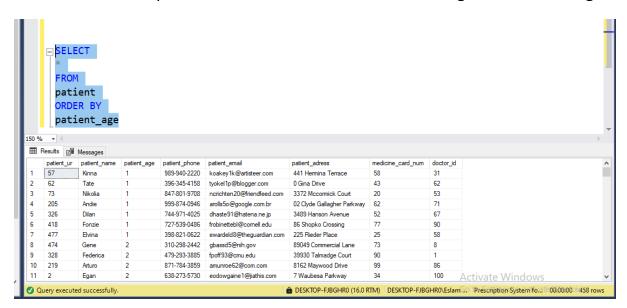
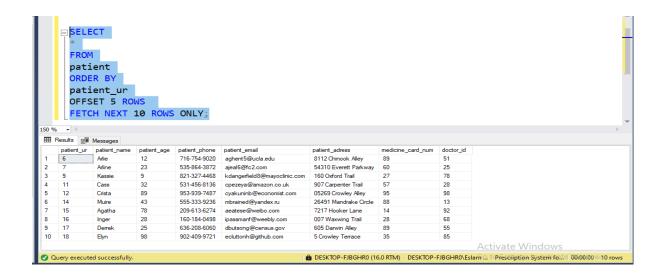
1. **SELECT**: Retrieve all columns from the Doctor table.



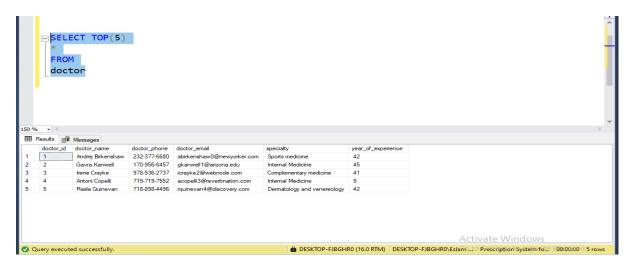
2. **ORDER BY**: List patients in the Patient table in ascending order of their ages.



3. **OFFSET FETCH**: Retrieve the first 10 patients from the Patient table, starting from the 5th record.



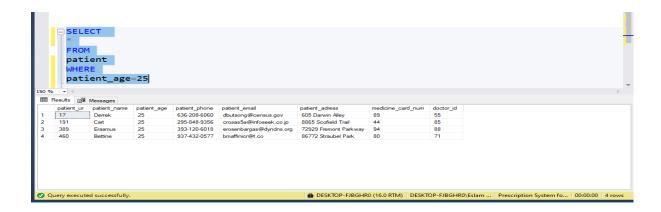
4. **SELECT TOP**: Retrieve the top 5 doctors from the Doctor table.



5. **SELECT DISTINCT**: Get a list of unique address from the Patient table.



6. WHERE: Retrieve patients from the Patient table who are aged 25.



7. **NULL**: Retrieve patients from the Patient table whose email is not provided.

```
SELECT
patient_email
FROM
patient
where
patient_email is NUll

sabl

150 % - 4

Results BM Messages

patient_email
```

8.AND: Retrieve doctors from the Doctor table who have experience greater than 5 years and specialize in 'Cardiology'.



9.IN: Retrieve doctors from the Doctor table whose speciality is either 'Dermatology' or 'Oncology'.



10.IN: Retrieve doctors from the Doctor table whose speciality is either 'Dermatology' or 'Oncology'.



11. LIKE: Retrieve doctors from the Doctor table whose names start with 'Dr.'



12. **Column & Table Aliases**: Select the name and email of doctors, aliasing them as 'DoctorName' and 'DoctorEmail'



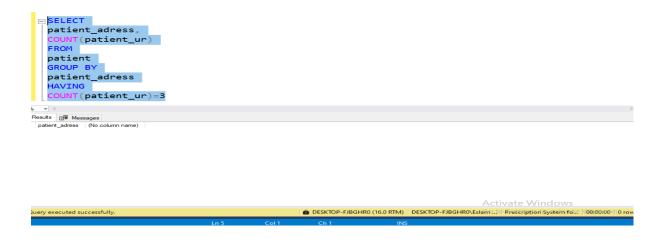
13.Joins: Retrieve all prescriptions with corresponding patient names



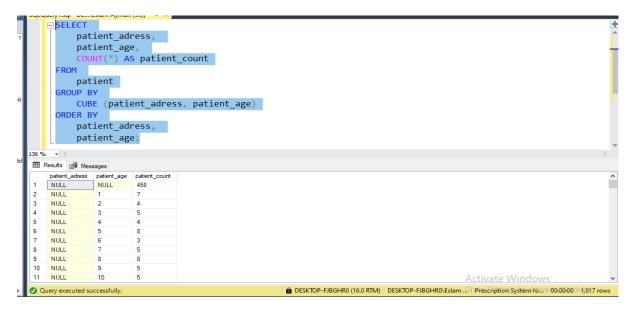
14. **GROUP BY:** Retrieve the count of patients grouped by their cities



15. **HAVING:** Retrieve cities with more than 3 patients.



17. **CUBE:** Retrieve counts of patients considering all possible combinations of city and age



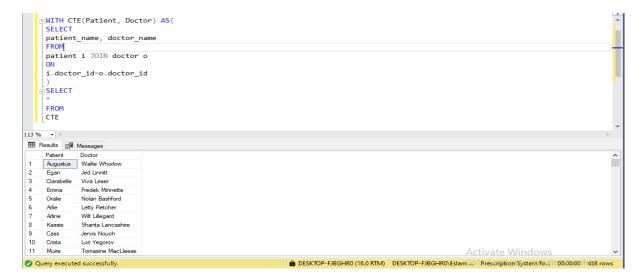
18. ROLLUP: Retrieve counts of patients rolled up by city



19. UNION: Retrieve a combined list of doctors and patients



20. **Common Table Expression (CTE):** Retrieve patients along with their doctors using a CTE



21. **INSERT:** Insert a new doctor into the Doctor table

```
INSERT INTO doctor (doctor_name,doctor_phone,doctor_email,specialty,year_of_experience)

VALUES ('ESLAM', '55.22.1541', 'EA@YAHOO.COM', 'EASA',15);

Messages

(1 row affected)

Completion time: 2024-07-06T18:56:45.2658162+03:00
```

22. **INSERT Multiple Rows:** Insert multiple patients into the Patient table

```
☐ INSERT INTO patient

(patient_name,patient_age,patient_phone,patient_adress,medicine_card_num,doctor_id)

VALUES ('ESLAM', 30,'54165.652.658125','sohag',15,59),

('ahmed', 45,'5846.51.561','cairo',15,5);
```

24. UPDATE: Update the phone number of a doctor

```
UPDATE doctor

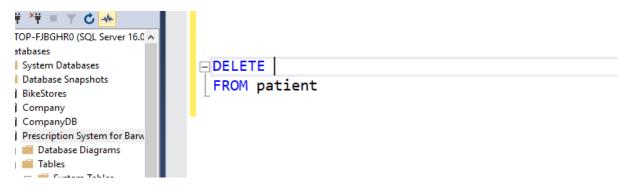
SET doctor_phone='1557.3215.3264'

BE Messages

(94 rows affected)

Completion time: 2024-07-06T19:23:41.7897580+03:00
```

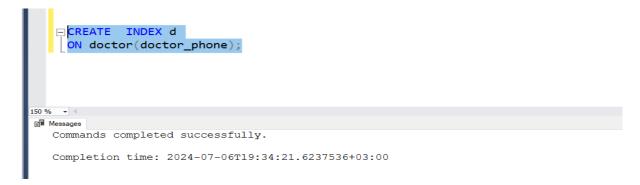
26. **DELETE:** Delete a patient from the Patient table



28. **View:** Create a view that combines patient and doctor information for easy access



29. **Index:** Create an index on the 'phone' column of the Patient table to improve search performance



30. Backup: Perform a backup of the entire database to ensure data safety

