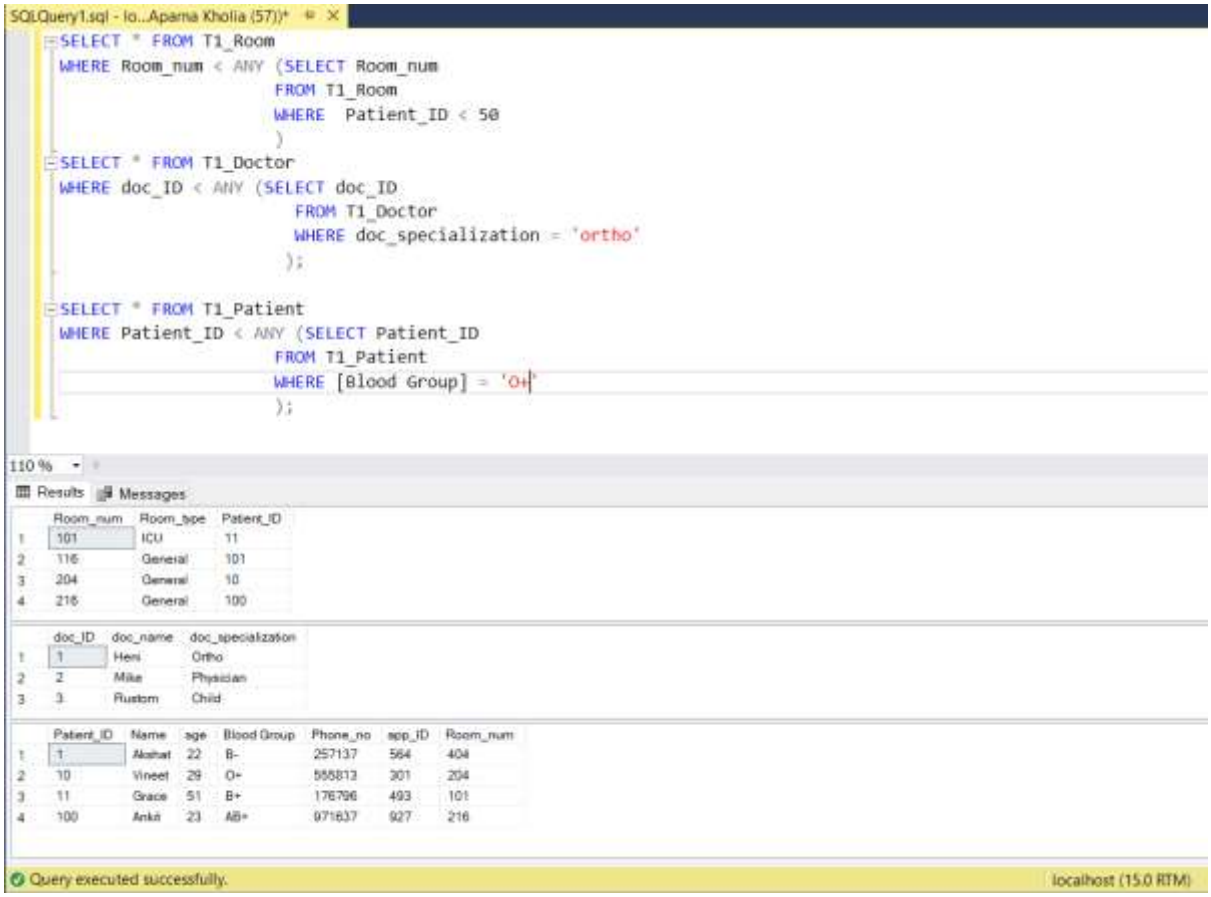
DBMS Lab Assignment 5

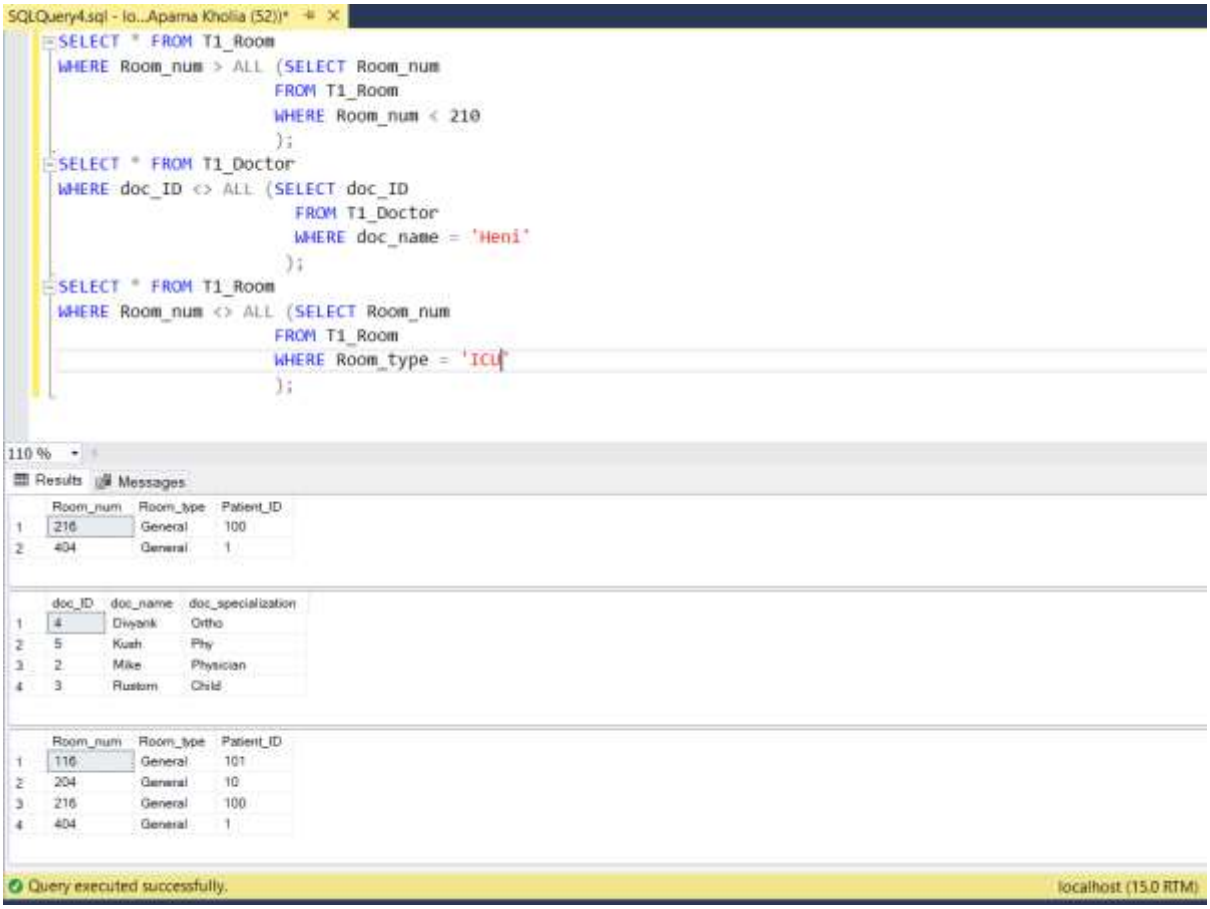
Name: Aparna Kholia
Reg No.: 19BCS116

1)

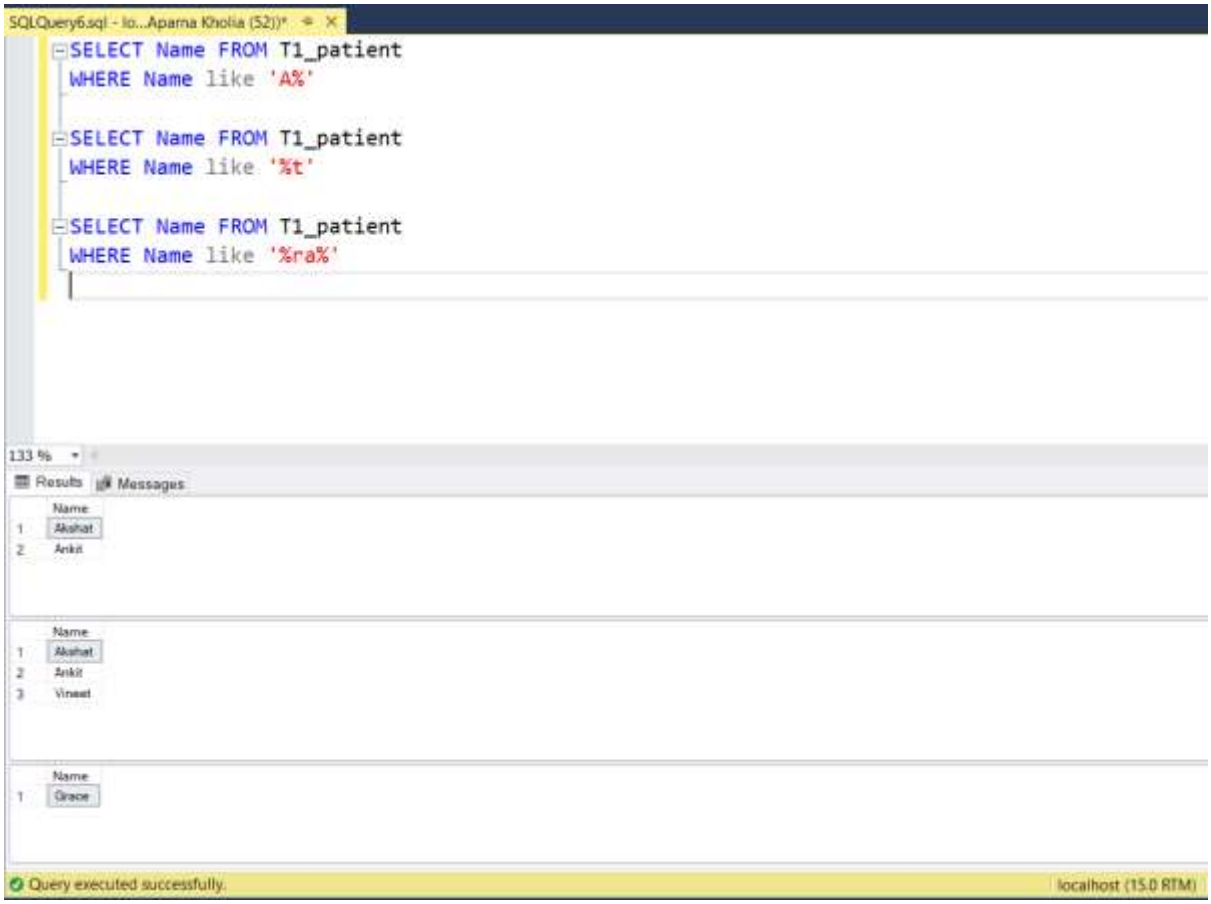
1.1) USE OF ANY



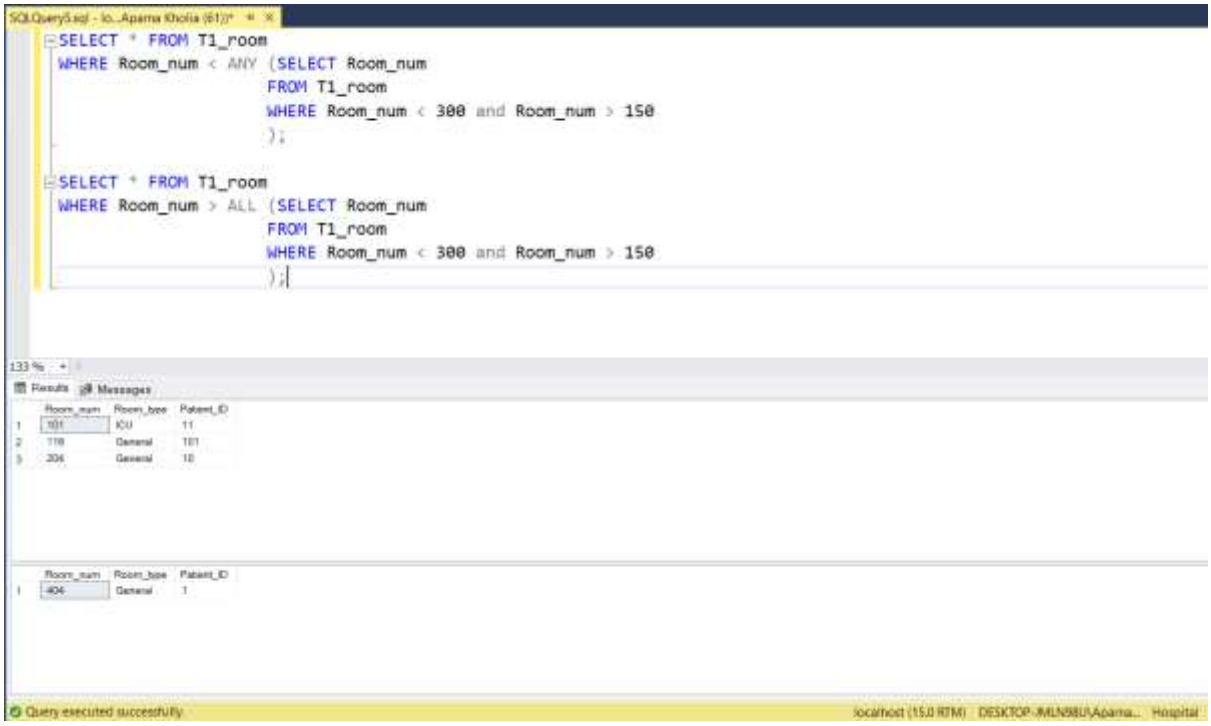
1.2) USE OF ALL


SQLQuery4.sql - lo...Aparna Kholia (52))*
SELECT * FROM T1_Room
WHERE Room_num > ALL (SELECT Room_num
FROM T1_Room
WHERE Room_num < 210
);
SELECT * FROM T1_Doctor
WHERE doc_ID <> ALL (SELECT doc_ID
FROM T1_Doctor
WHERE doc_name = 'Heni'
);
SELECT * FROM T1_Room
WHERE Room_num <> ALL (SELECT Room_num
FROM T1_Room
WHERE Room_type = 'ICU'
);
110 %
Results
Messages
Room_num Room_type Patient_ID
1 216 General 100
2 404 General 1
doc_ID doc_name doc_specialization
1 4 Divyank Ortho
2 5 Kush Phy
3 2 Mike Physician
4 3 Rustom Child
Room_num Room_type Patient_ID
1 116 General 101
2 204 General 10
3 216 General 100
4 404 General 1
Query executed successfully.
localhost (15.0 RTM)

1.3) USE OF LIKE

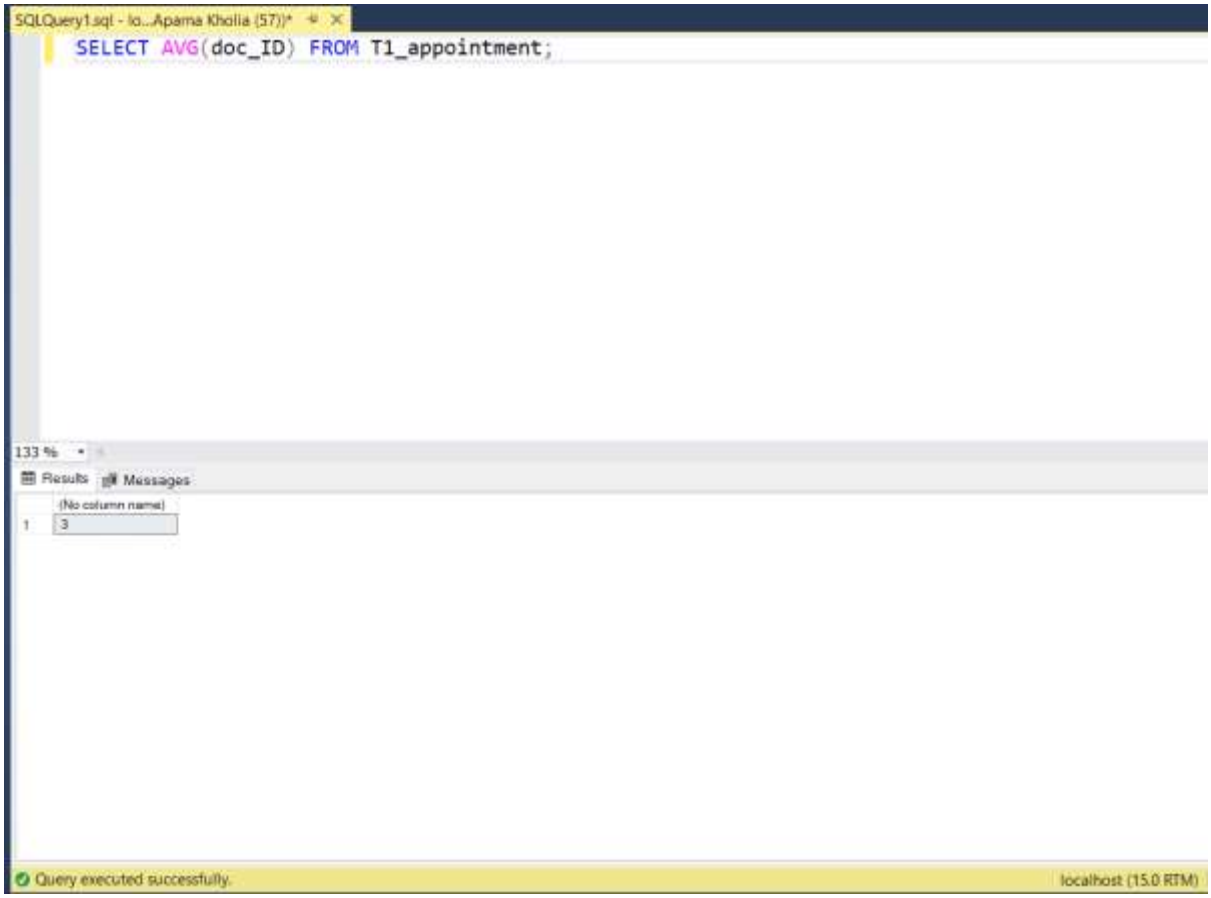


DIFFERENCE BETWEEN ANY AND ALL

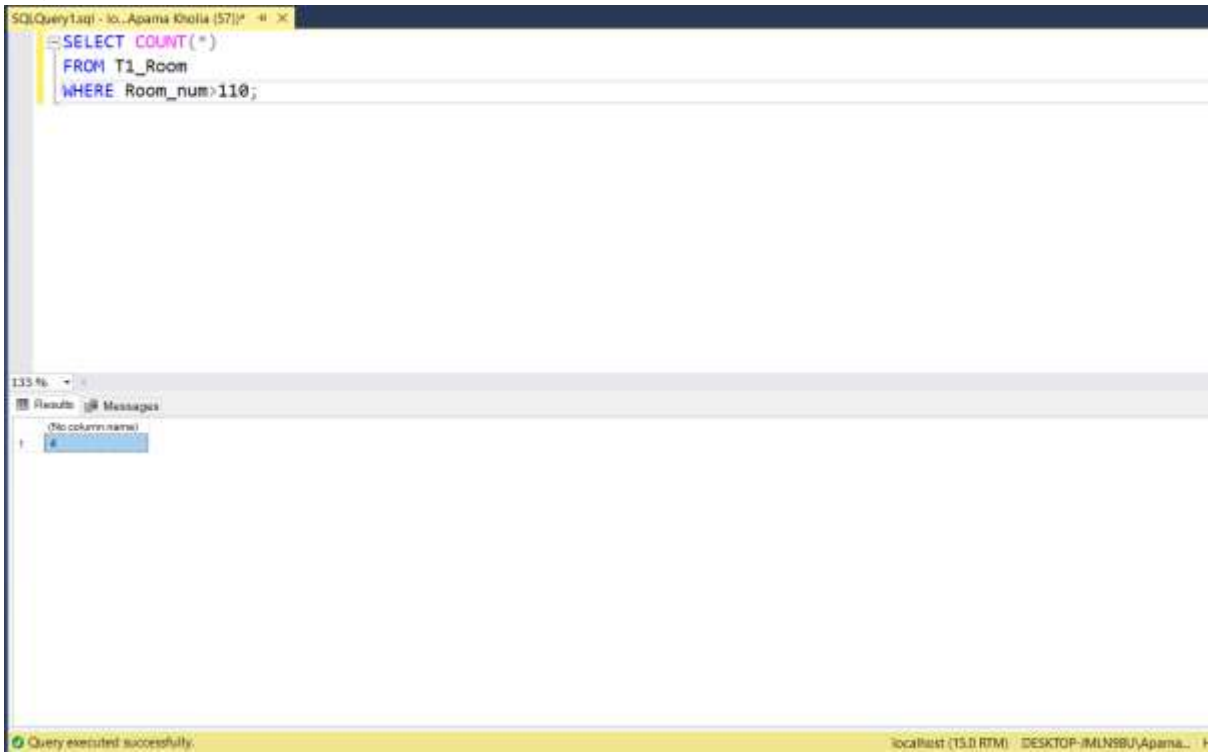


2)

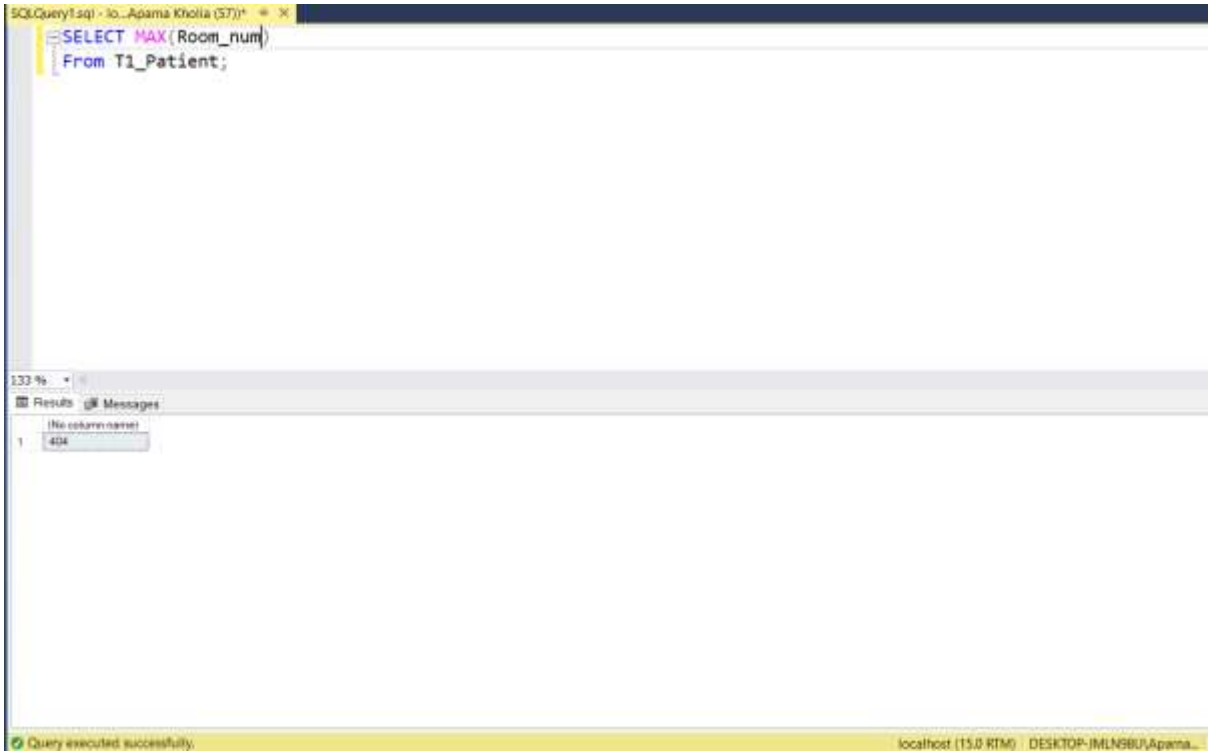
2.1) AVG



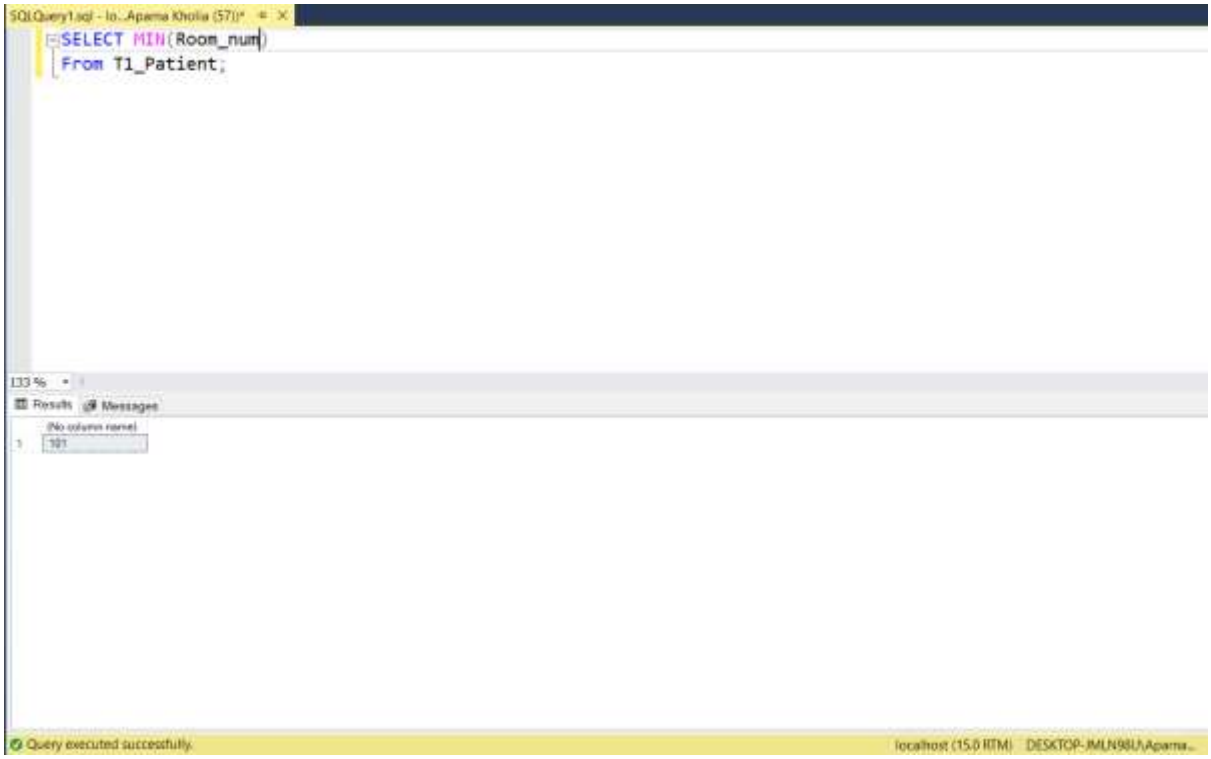
2.2) COUNT



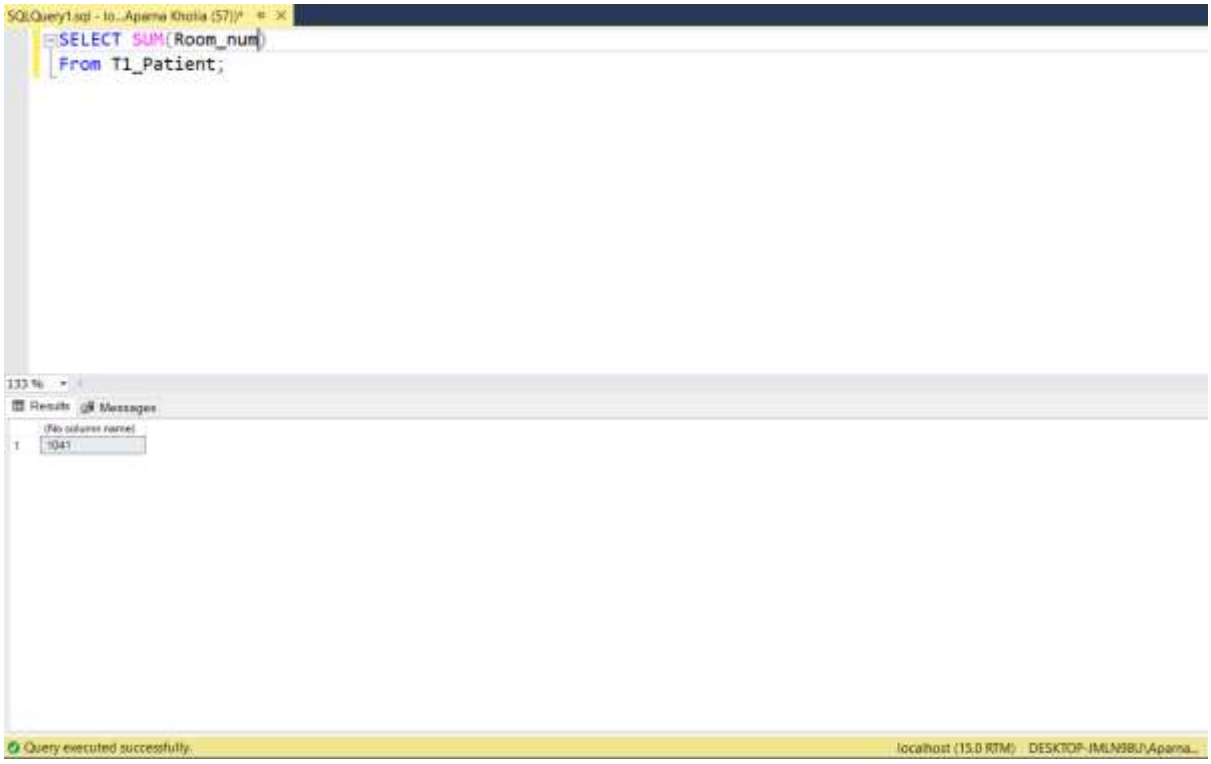
2.3) MAX


SQLQuery1.sql - lo...Aparna Kholia (57))*
SELECT MAX(Room_num)
From T1_Patient;
133 %
Results
Messages
(No column name)
1
404
Query executed successfully.
localhost (15.0 RTM)
DESKTOP-JMLN98U\Aparna...

2.4) MIN

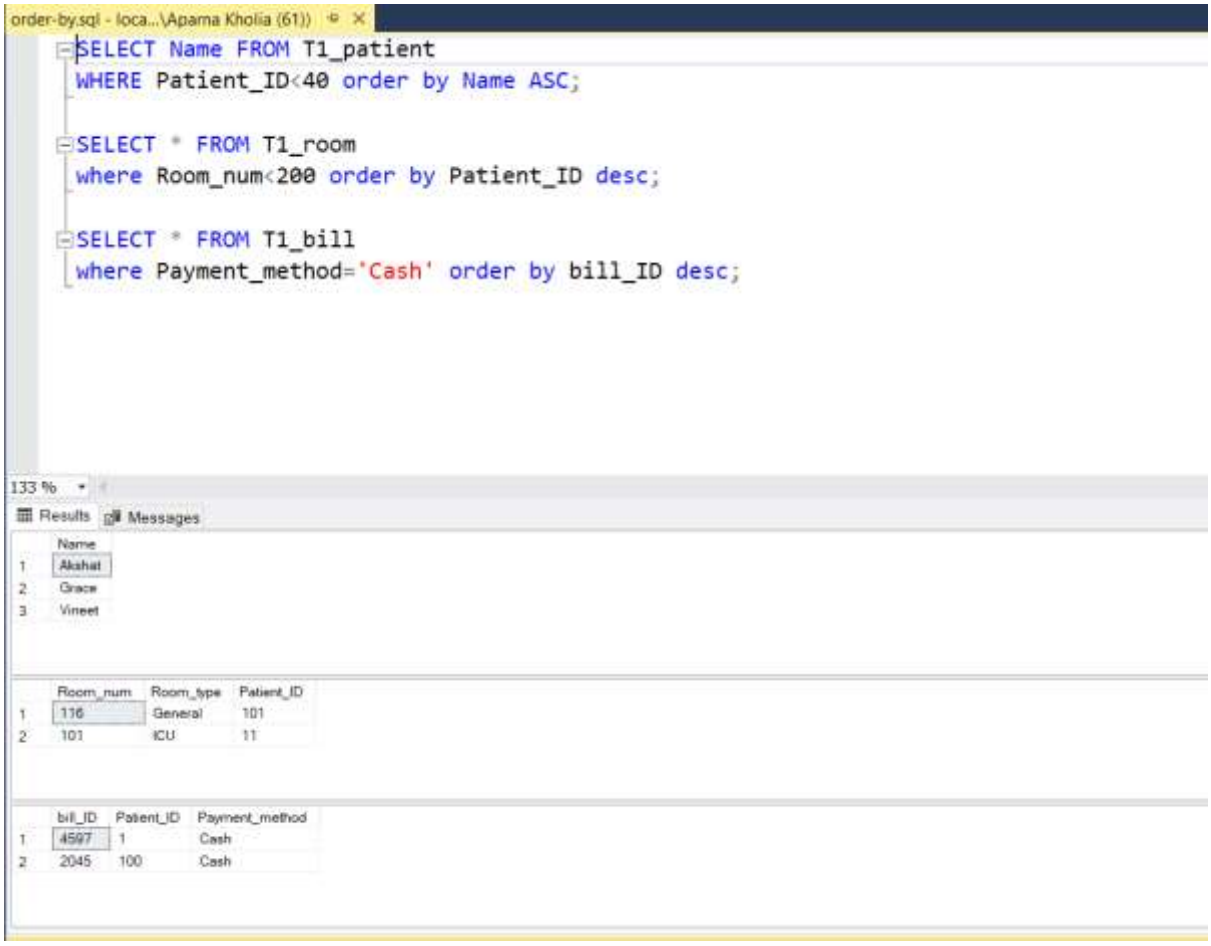

SQLQuery1.sql - lo...Aparna Kholia (57))*
SELECT MIN(Room_num)
From T1_Patient;
133 %
Results
Messages
(No column name)
1
101
Query executed successfully.
localhost (15.0 RTM)
DESKTOP-JMLN98U\Aparna...

2.5) SUM

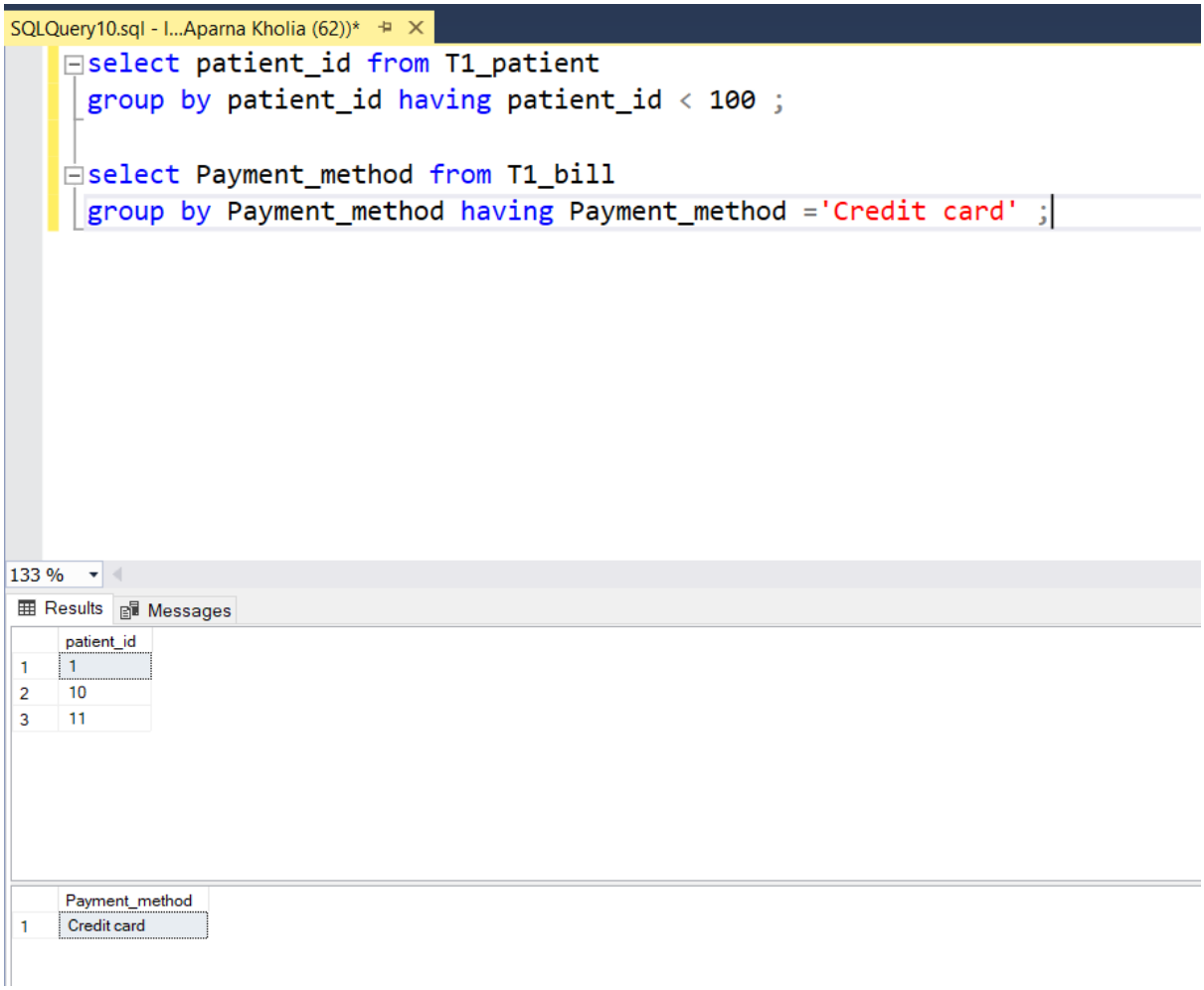

SELECT SUM(Room_num)
From T1_Patient;
133 %
Results
Messages
(No column name)
1
1041
Query executed successfully.
localhost (15.0 RTM)
DESKTOP-IMLN98U\Aparna...

3)

3.1) ORDER BY

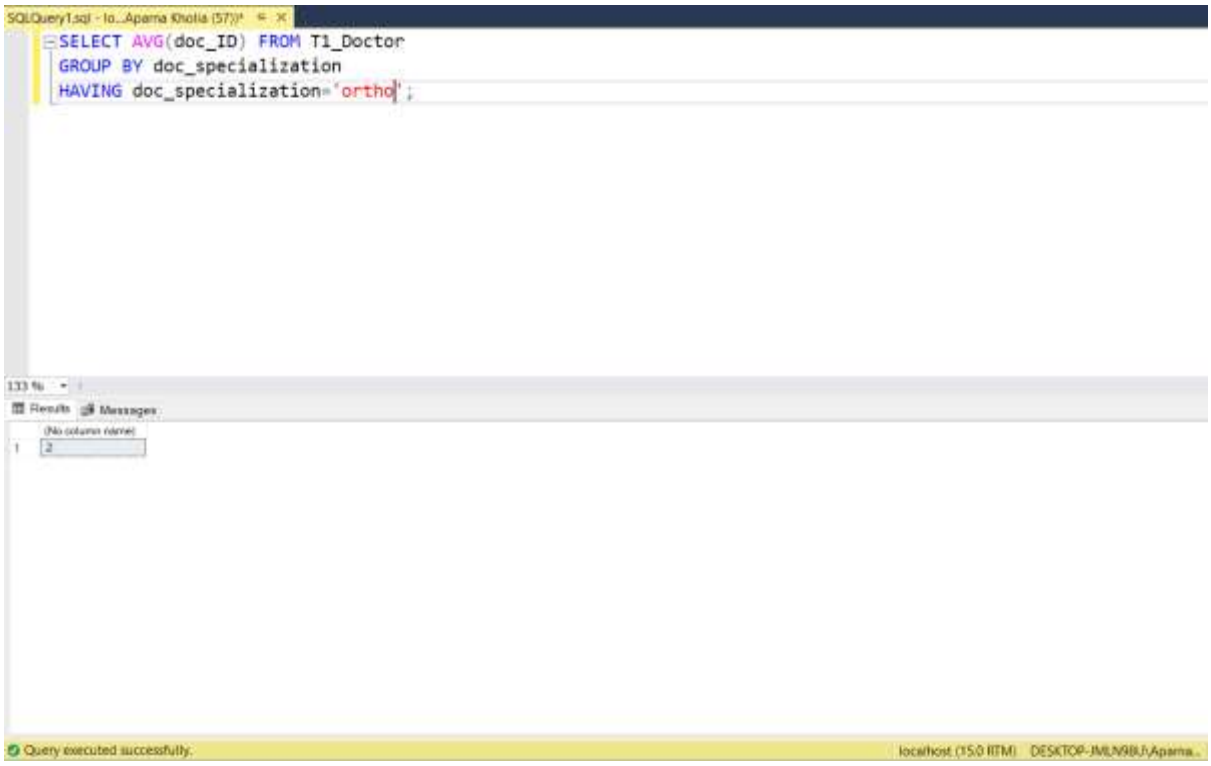

order-by.sql - loca...\Aparna Kholia (61))
SELECT Name FROM T1_patient
WHERE Patient_ID<40 order by Name ASC;
SELECT * FROM T1_room
where Room_num<200 order by Patient_ID desc;
SELECT * FROM T1_bill
where Payment_method='Cash' order by bill_ID desc;
133 %
Results
Messages
Name
1 Akshat
2 Grace
3 Vineet
Room_num Room_type Patient_ID
1 116 General 101
2 101 ICU 11
bill_ID Patient_ID Payment_method
1 4597 1 Cash
2 2045 100 Cash

3.2) GROUP BY and HAVING

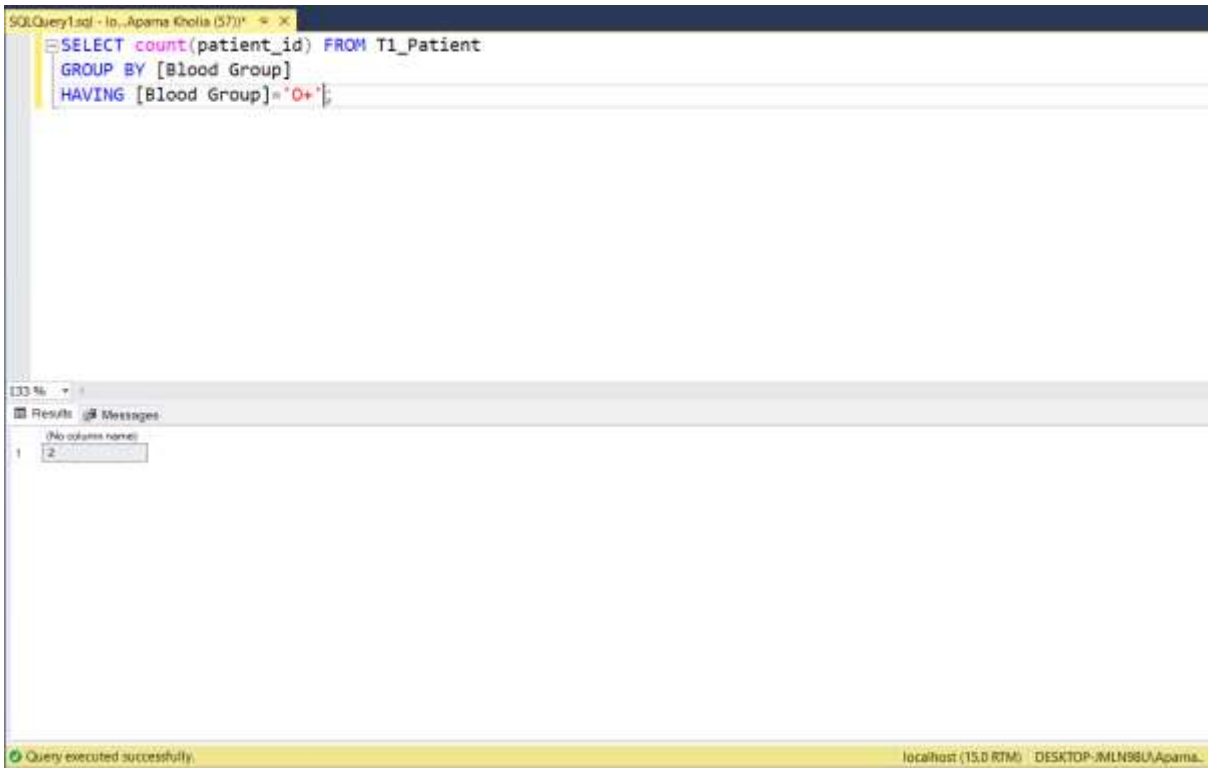


4)

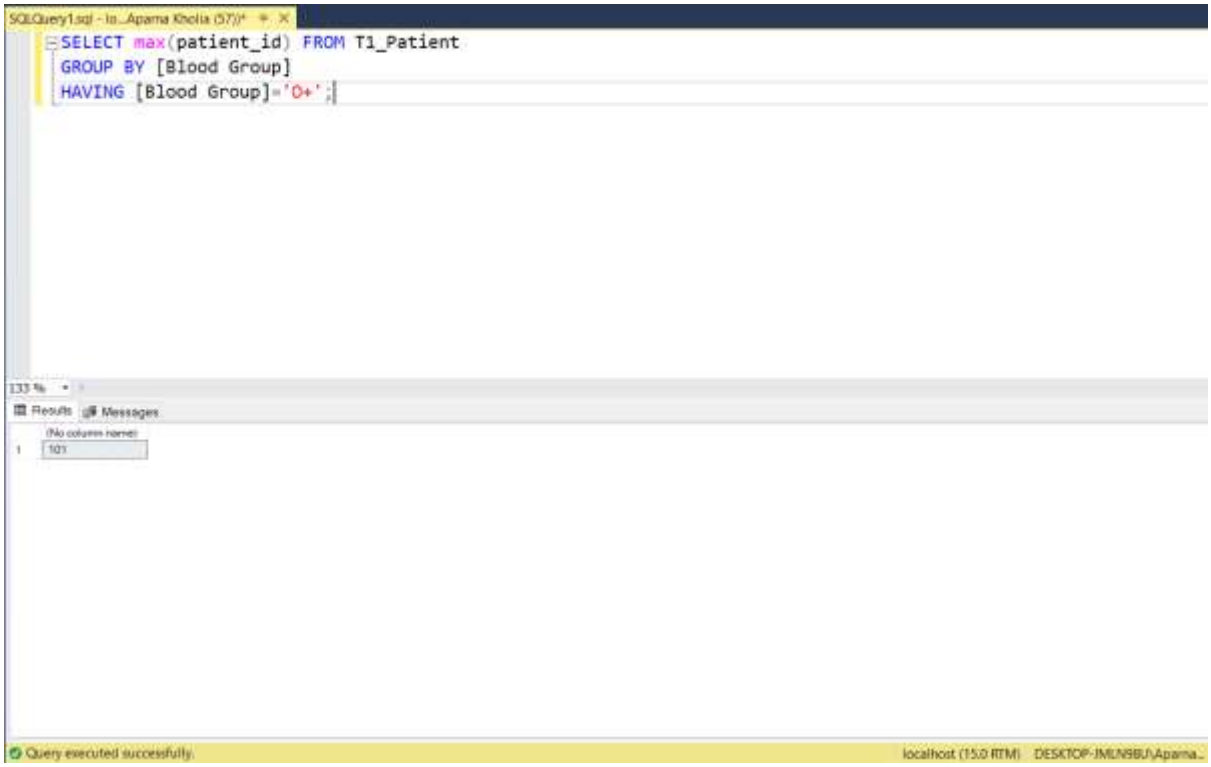
4.1) AVG



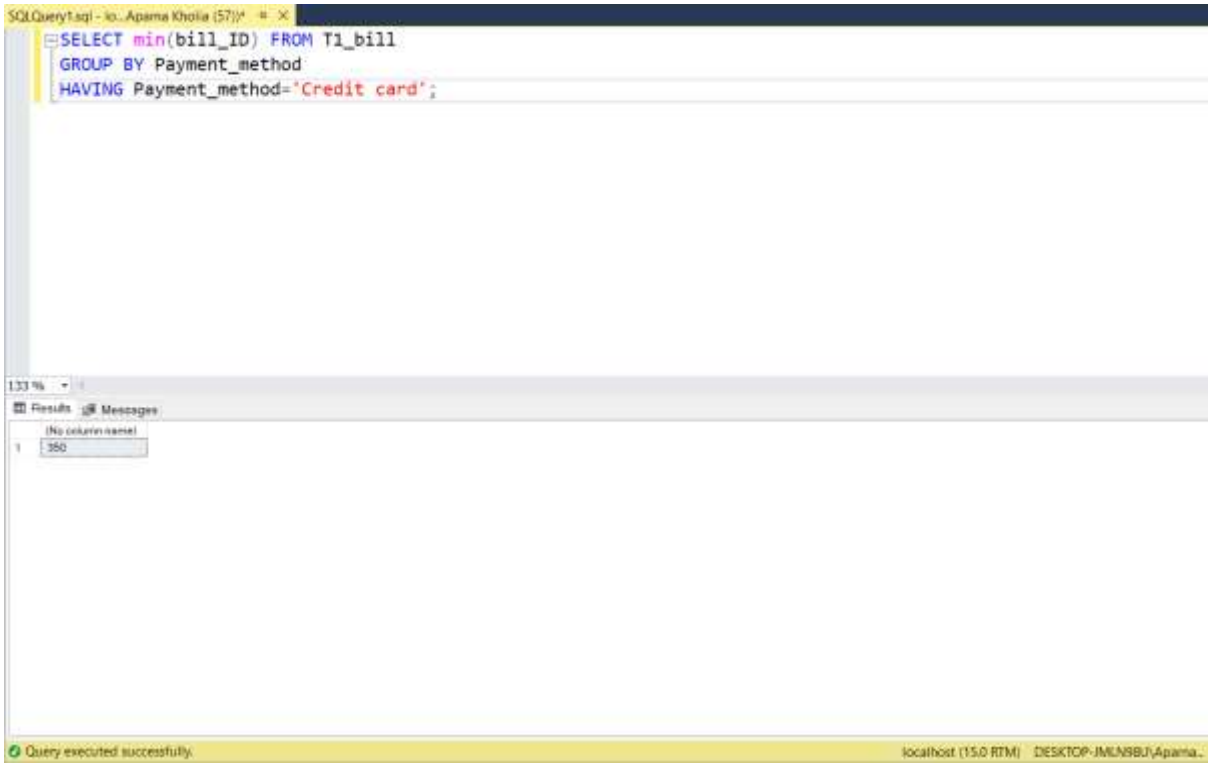
4.2) COUNT



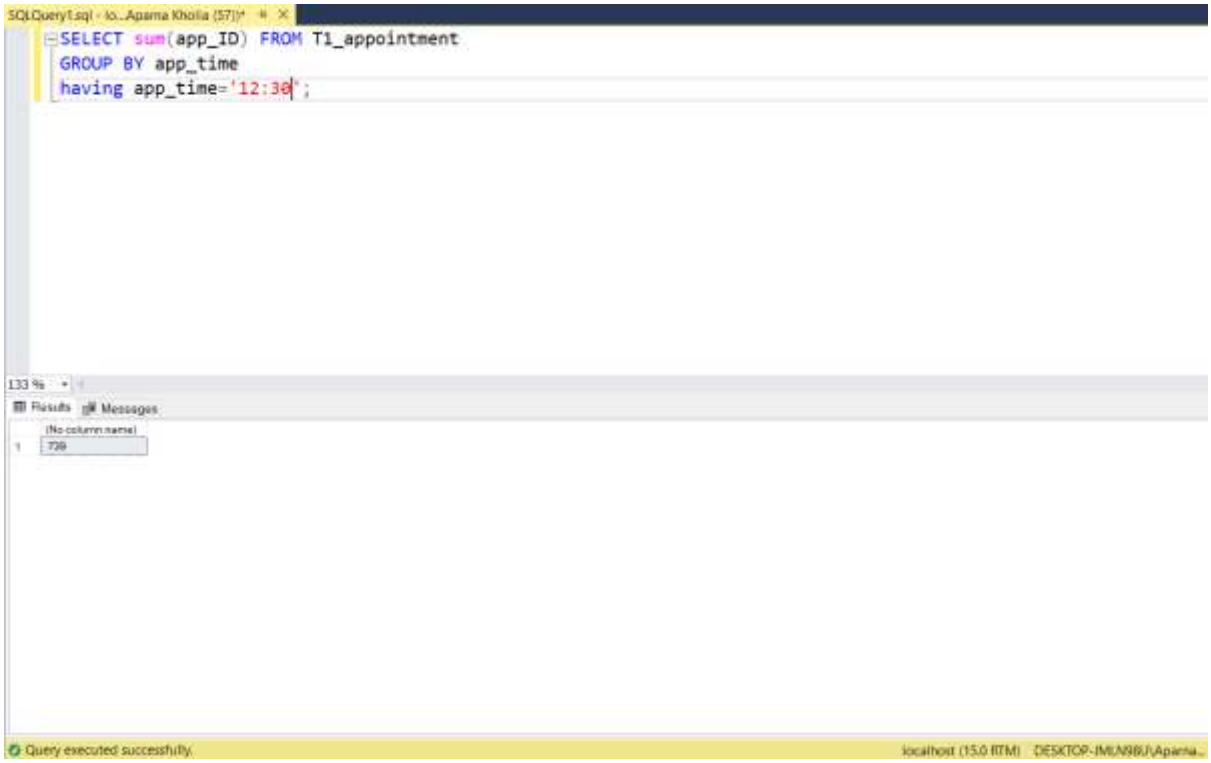
4.3)Max


SELECT max(patient_id) FROM T1_Patient
GROUP BY [Blood Group]
HAVING [Blood Group]='O+';
Results
Messages
(No column name)
101
Query executed succesfully.
localhost (15.0 RTM)

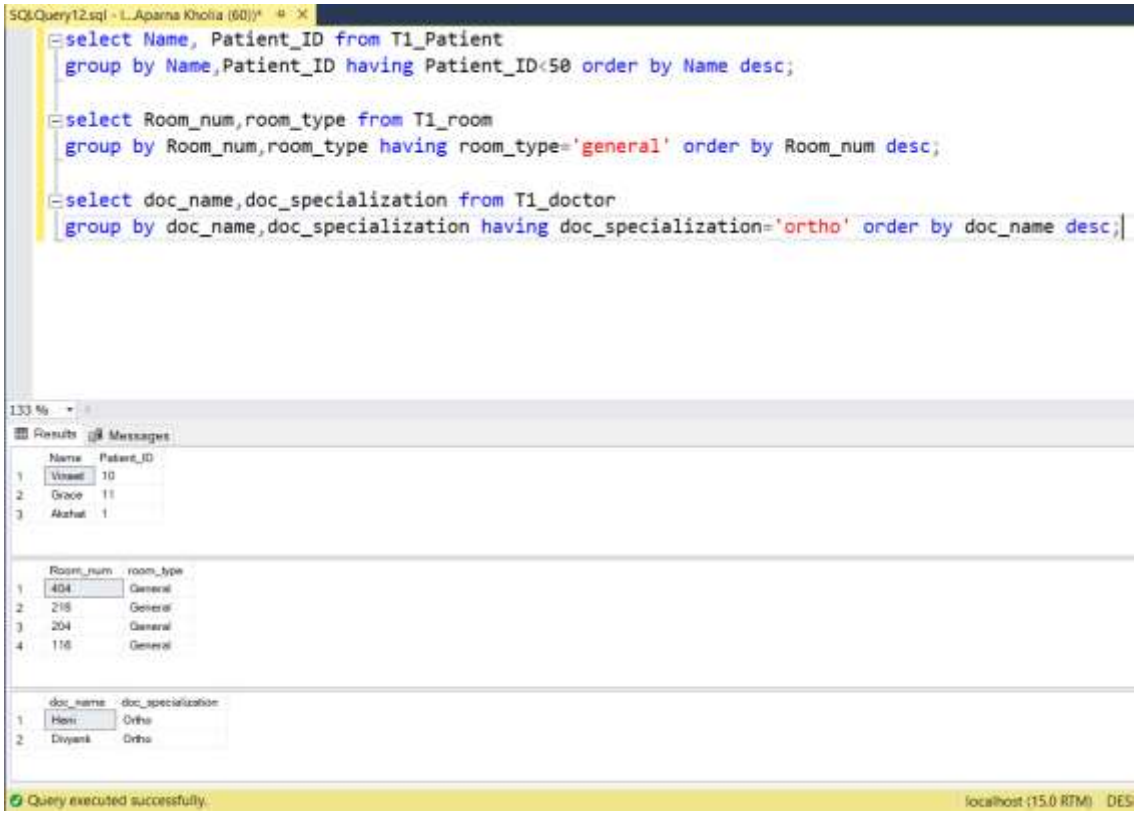
4.4) Min


SELECT min(bill_ID) FROM T1_bill
GROUP BY Payment_method
HAVING Payment_method='Credit card';
Results
Messages
(No column name)
350
Query executed successfully.
localhost (15.0 RTM)

4.5) Sum



5)Nested queries using ORDER BY, GROUP BY and HAVING



6)

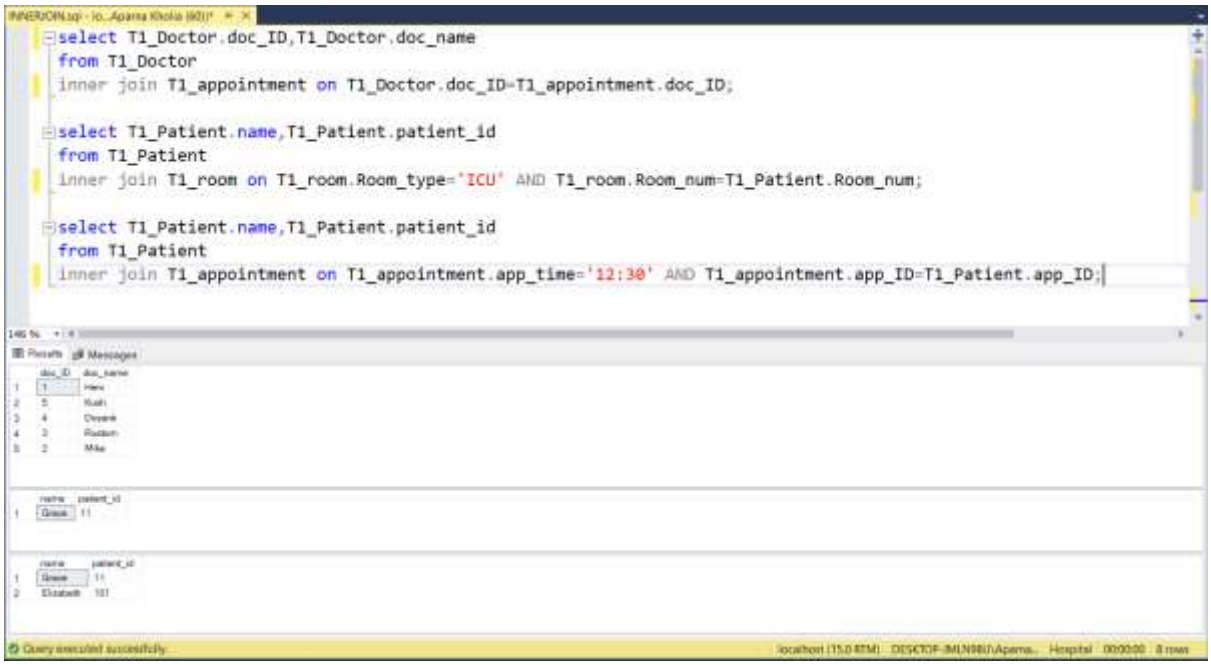
CODE:

```
SELECT doc_ID FROM T1_Doctor
EXCEPT
SELECT doc_ID FROM T1_appointment;

SELECT * FROM T1_appointment
WHERE exists(SELECT doc_ID FROM T1_Doctor WHERE doc_ID <500 and T1_appointment.doc_ID=T1_Doctor.doc_ID) ;

SELECT * FROM T1_appointment
WHERE not exists(SELECT doc_ID FROM T1_Doctor WHERE doc_ID <5 and T1_appointment.doc_ID=T1_Doctor.doc_ID);

SELECT  doc_ID FROM T1_appointment
UNION
SELECT doc_ID FROM T1_Doctor;

SELECT  doc_ID FROM T1_appointment
INTERSECT
SELECT doc_ID FROM T1_Doctor;
```

OUTPUT:

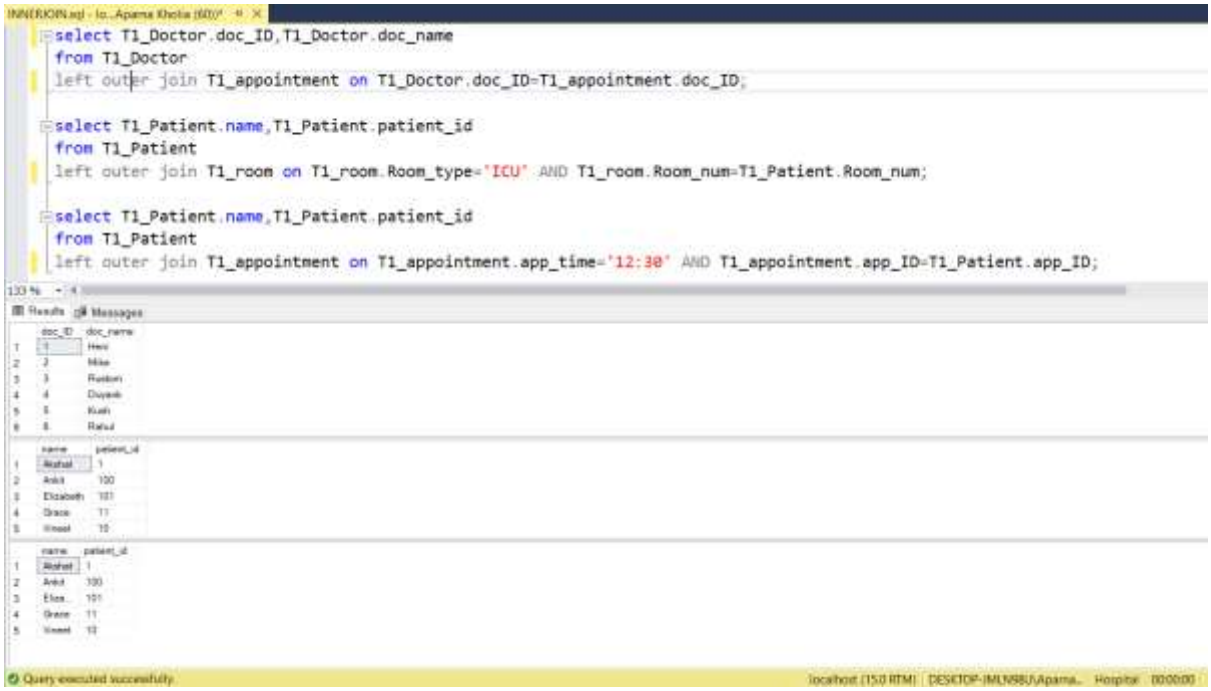
7)

7.1) Inner join



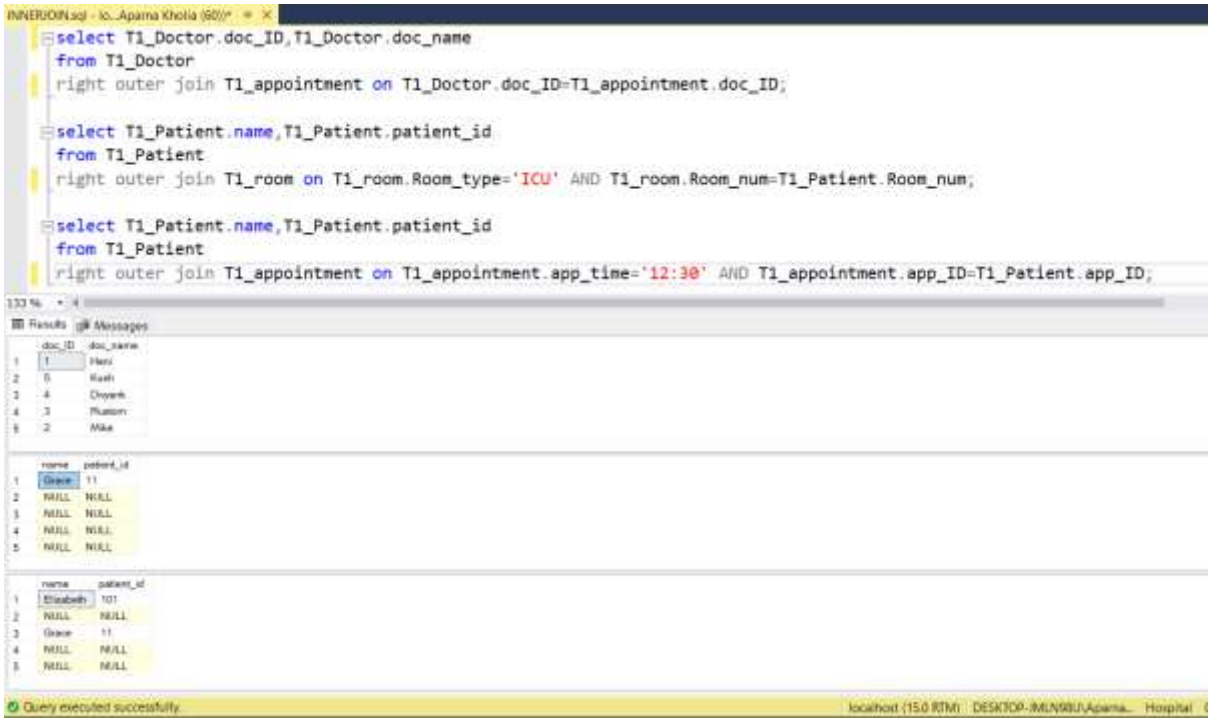
```
select T1_Doctor.doc_ID,T1_Doctor.doc_name
from T1_Doctor
inner join T1_appointment on T1_Doctor.doc_ID=T1_appointment.doc_ID;

select T1_Patient.name,T1_Patient.patient_id
from T1_Patient
inner join T1_room on T1_room.Room_type='ICU' AND T1_room.Room_num=T1_Patient.Room_num;

select T1_Patient.name,T1_Patient.patient_id
from T1_Patient
inner join T1_appointment on T1_appointment.app_time='12:30' AND T1_appointment.app_ID=T1_Patient.app_ID;
```

7.2) left outer join



```
select T1_Doctor.doc_ID,T1_Doctor.doc_name
from T1_Doctor
left outer join T1_appointment on T1_Doctor.doc_ID=T1_appointment.doc_ID;

select T1_Patient.name,T1_Patient.patient_id
from T1_Patient
left outer join T1_room on T1_room.Room_type='ICU' AND T1_room.Room_num=T1_Patient.Room_num;

select T1_Patient.name,T1_Patient.patient_id
from T1_Patient
left outer join T1_appointment on T1_appointment.app_time='12:30' AND T1_appointment.app_ID=T1_Patient.app_ID;
```

7.3) Right outer join



8) JOIN