

```

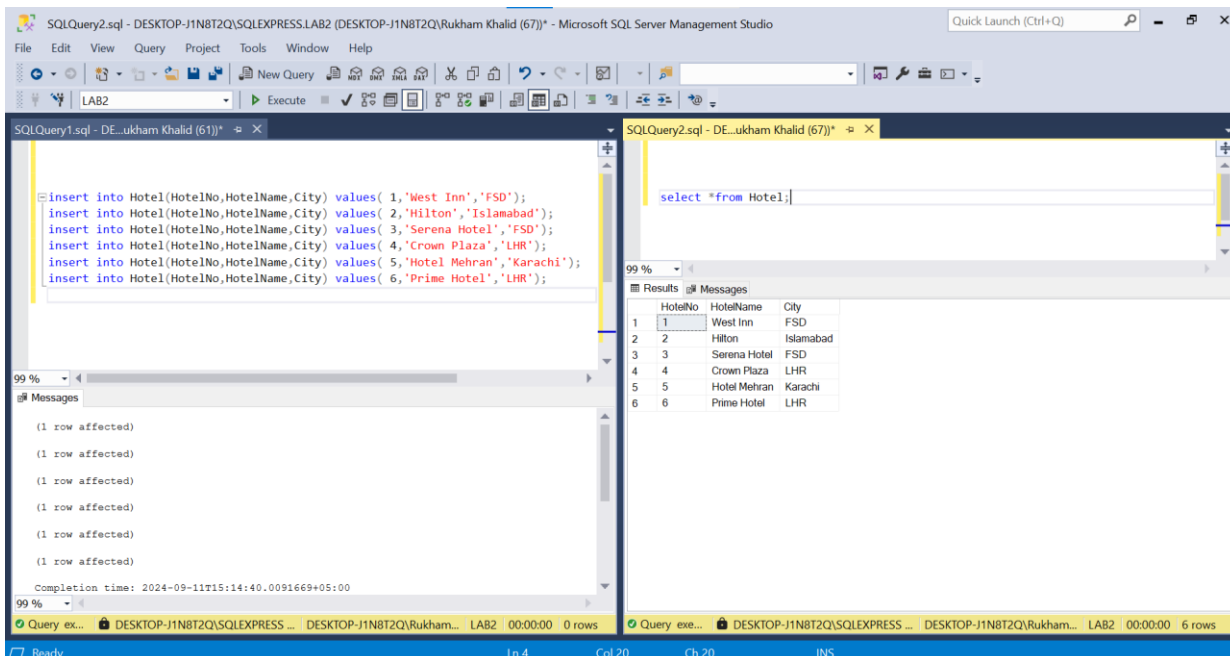
create table Hotel(
    HotelNo int primary key,
    HotelName varchar(15),City varchar(20),
    Price int,
    primary key (RoomNo, HotelNo)
);

create table Guest (
    GuestNo int primary key,
    GuestName varchar(15),
    GuestAddress varchar(15),
    DateFrom varchar(15),
    DateTo varchar(15),
    RoomNo int,
    HotelNo int,
    primary key (GuestNo, HotelNo, DateFrom)
);

create table Room (
    RoomNo int,
    HotelNo int,
    type varchar(15),
    Price int,
    primary key (RoomNo, HotelNo)
);

create table Booking (
    GuestNo int,
    DateFrom varchar(15),
    DateTo varchar(15),
    RoomNo int,
    HotelNo int,
    primary key (GuestNo, HotelNo, DateFrom)
);

```



```

insert into Hotel(HotelNo,HotelName,City) values( 1,'West Inn','FSD');

insert into Hotel(HotelNo,HotelName,City) values( 2,'Hilton','Islamabad');

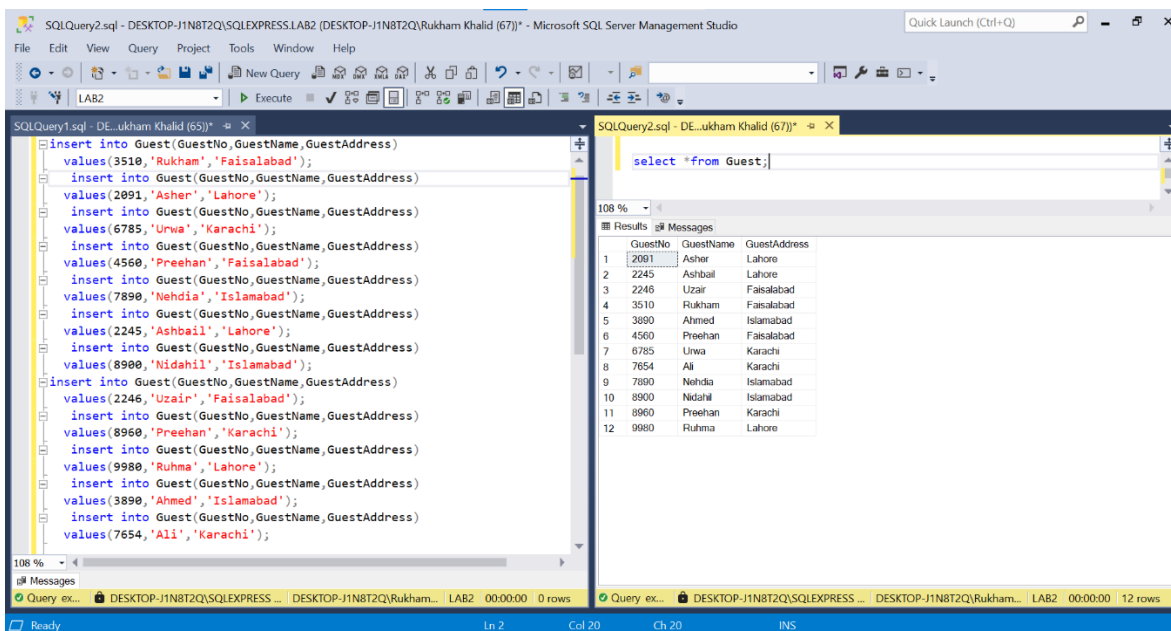
insert into Hotel(HotelNo,HotelName,City) values( 3,'Serena Hotel','FSD');

insert into Hotel(HotelNo,HotelName,City) values( 4,'Crown Plaza','LHR');

insert into Hotel(HotelNo,HotelName,City) values( 5,'Hotel Mehran','Karachi');

insert into Hotel(HotelNo,HotelName,City) values( 6,'Prime Hotel','LHR');

```



```

insert into
Guest(GuestNo,GuestName,GuestAddress)

values(3510,'Rukham','Faisalabad');

insert into
Guest(GuestNo,GuestName,GuestAddress)

values(2091,'Asher','Lahore');

insert into
Guest(GuestNo,GuestName,GuestAddress)

values(6785,'Urwa','Karachi');

insert into
Guest(GuestNo,GuestName,GuestAddress)

values(4560,'Preehan','Faisalabad');

```

```

insert into
Guest(GuestNo,GuestName,GuestAddress)

values(7890,'Nehdia','Islamabad');

insert into
Guest(GuestNo,GuestName,GuestAddress)

values(2245,'Ashbail','Lahore');

insert into
Guest(GuestNo,GuestName,GuestAddress)

values(8900,'Nidahil','Islamabad');

insert into
Guest(GuestNo,GuestName,GuestAddress)

values(2246,'Uzair','Faisalabad');

select *from Guest;

```

```

insert into
Guest(GuestNo,GuestName,GuestAddress)

values(8960,'Preehan','Karachi');

insert into
Guest(GuestNo,GuestName,GuestAddress)

values(9980,'Ruhma','Lahore');

insert into
Guest(GuestNo,GuestName,GuestAddress)

values(3890,'Ahmed','Islamabad');

insert into
Guest(GuestNo,GuestName,GuestAddress)

values(7654,'Ali','Karachi');

```

The screenshot displays the Microsoft SQL Server Management Studio interface. The left pane shows a list of queries, with the first one selected. The main editor window contains a series of SQL insert statements for a 'Room' table, followed by a 'select *from Room;' query. The right pane shows the results of the select query, displaying a table with columns: RoomNo, HotelNo, type, and Price. The table contains 18 rows of data.

RoomNo	HotelNo	type	Price
1	3	S	1200
2	8	S	1000
3	10	S	1200
4	12	D	1500
5	14	F	2500
6	16	D	4500
7	18	F	6500
8	19	S	1300
9	21	F	1800
10	22	S	3000
11	23	S	1100
12	25	F	3000
13	31	D	1500
14	33	F	3000
15	43	F	2200
16	44	S	1300
17	56	D	2000
18	87	D	1700

```

insert into Room(HotelNo,RoomNo,type,Price) values( 1,10,'S',1200);

insert into Room(HotelNo,RoomNo,type,Price) values( 1,12,'D',1500);

insert into Room(HotelNo,RoomNo,type,Price) values( 1,14,'F',2500);

insert into Room(HotelNo,RoomNo,type,Price) values( 2,22,'S',3000);

insert into Room(HotelNo,RoomNo,type,Price) values( 2,16,'D',4500);

insert into Room(HotelNo,RoomNo,type,Price) values( 2,18,'F',6500);

insert into Room(HotelNo,RoomNo,type,Price) values( 3,44,'S',1300);

insert into Room(HotelNo,RoomNo,type,Price) values( 3,56,'D',2000);

insert into Room(HotelNo,RoomNo,type,Price) values( 3,33,'F',3000);

insert into Room(HotelNo,RoomNo,type,Price) values( 4,23,'S',1100);

insert into Room(HotelNo,RoomNo,type,Price) values( 4,31,'D',1500);

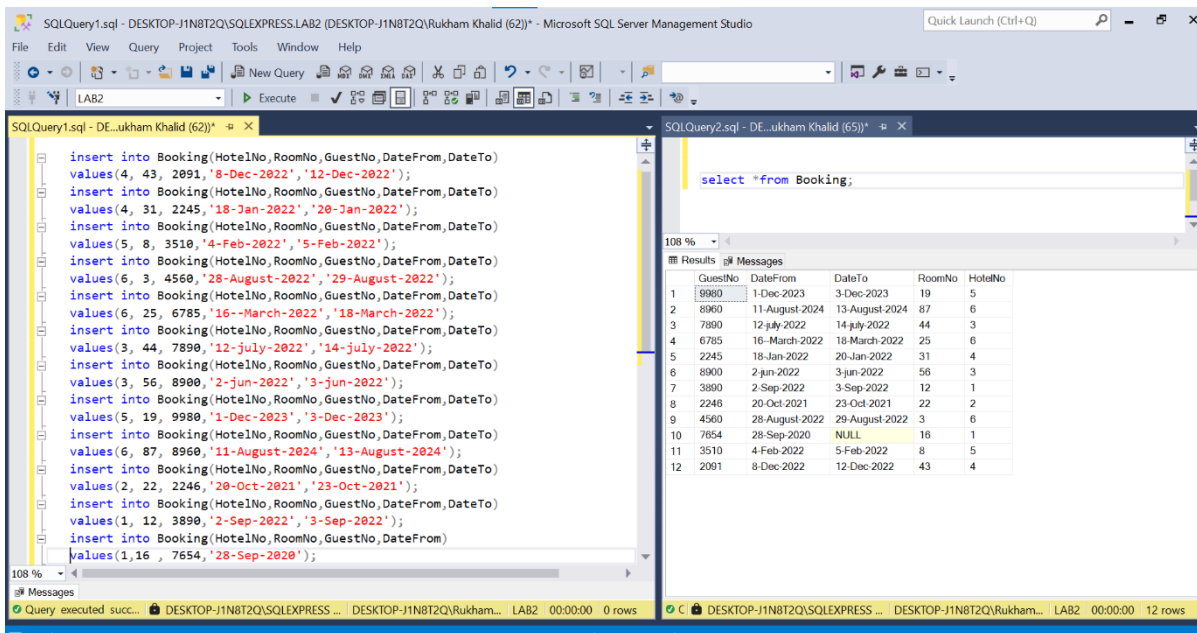
```

```

insert into Room(HotelNo,RoomNo,type,Price) values( 4,43,'F',2200);
insert into Room(HotelNo,RoomNo,type,Price) values( 5,08,'S',1000);
insert into Room(HotelNo,RoomNo,type,Price) values( 5,19,'D',1300);
insert into Room(HotelNo,RoomNo,type,Price) values( 5,21,'F',1800);
insert into Room(HotelNo,RoomNo,type,Price) values( 6,03,'S',1200);
insert into Room(HotelNo,RoomNo,type,Price) values( 6,87,'D',1700);
insert into Room(HotelNo,RoomNo,type,Price) values( 6,25,'F',3000);

select *from Room;

```



```

insert into Booking(HotelNo,RoomNo,GuestNo,DateFrom,DateTo)
values(4, 43, 2091,'8-Dec-2022','12-Dec-2022');

insert into Booking(HotelNo,RoomNo,GuestNo,DateFrom,DateTo)
values(4, 31, 2245,'18-Jan-2022','20-Jan-2022');

insert into Booking(HotelNo,RoomNo,GuestNo,DateFrom,DateTo)
values(5, 8, 3510,'4-Feb-2022','5-Feb-2022');

insert into Booking(HotelNo,RoomNo,GuestNo,DateFrom,DateTo)
values(6, 3, 4560,'28-August-2022','29-August-2022');

insert into Booking(HotelNo,RoomNo,GuestNo,DateFrom,DateTo)
values(6, 25, 6785,'16--March-2022','18-March-2022');

insert into Booking(HotelNo,RoomNo,GuestNo,DateFrom,DateTo)
values(3, 44, 7890,'12-july-2022','14-july-2022');

insert into Booking(HotelNo,RoomNo,GuestNo,DateFrom,DateTo)
values(3, 56, 8900,'2-jun-2022','3-jun-2022');

```

```

insert into Booking(HotelNo,RoomNo,GuestNo,DateFrom,DateTo)
values(5, 19, 9980,'1-Dec-2023','3-Dec-2023');

insert into Booking(HotelNo,RoomNo,GuestNo,DateFrom,DateTo)
values(6, 87, 8960,'11-August-2024','13-August-2024');

insert into Booking(HotelNo,RoomNo,GuestNo,DateFrom,DateTo)
values(2, 22, 2246,'20-Oct-2021','23-Oct-2021');

insert into Booking(HotelNo,RoomNo,GuestNo,DateFrom,DateTo)
values(1, 12, 3890,'2-Sep-2022','3-Sep-2022');

insert into Booking(HotelNo,RoomNo,GuestNo,DateFrom)
values(1,16 , 7654,'28-Sep-2020');

select *from Booking;

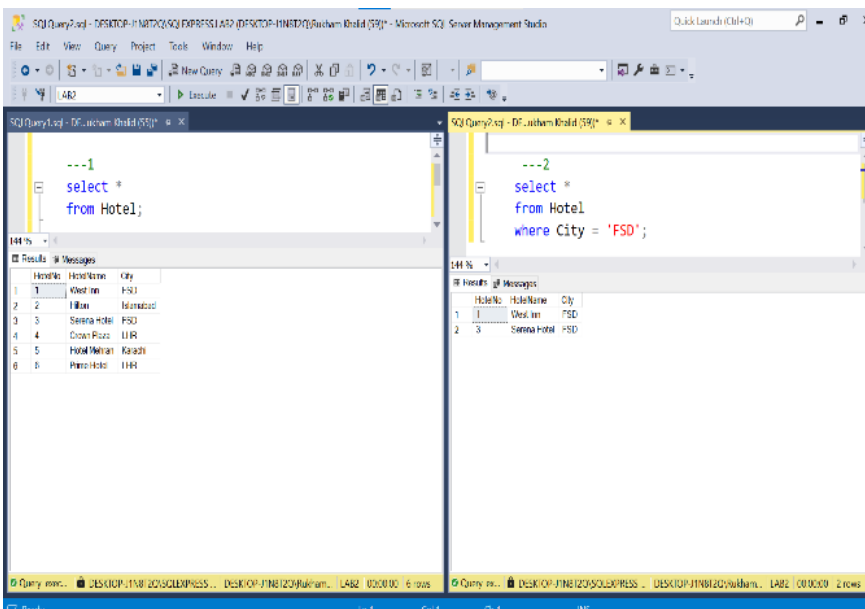
```

```

--1
select *
from Hotel;

--2
select *
from Hotel
where City = 'FSD';

```

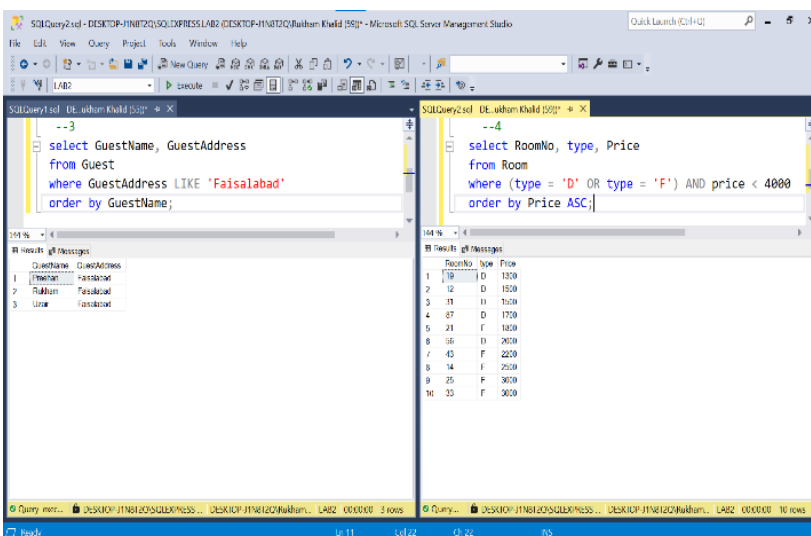


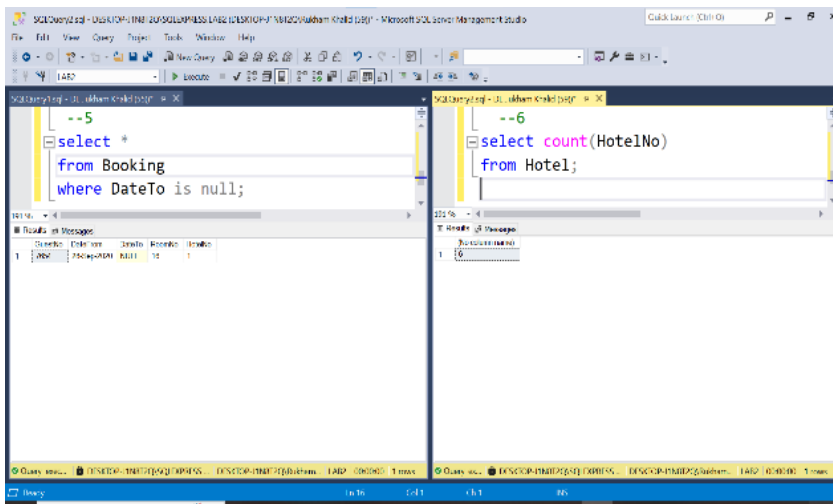
```

3- select GuestName,
GuestAddress
from Guest
where GuestAddress LIKE
'Faisalabad' order by GuestName;

--4
select RoomNo, type, Price from
Room
where (type = 'D' OR type = 'F')
AND price < 4000
order by Price ASC;

```





--5

select *

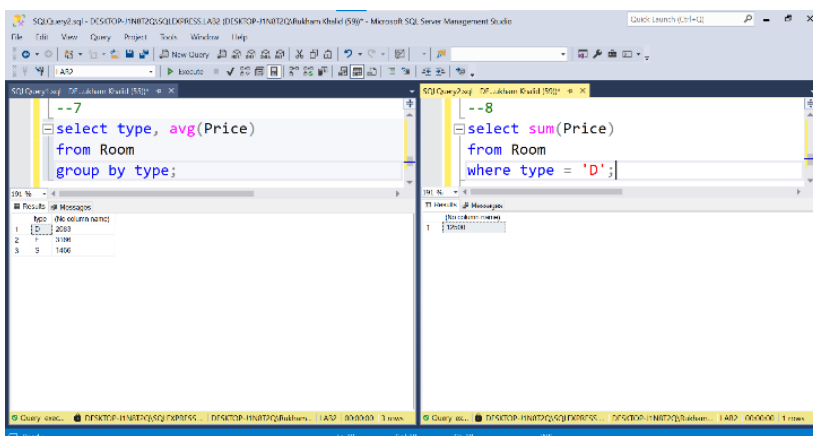
from Booking

where DateTo is null;

--6

select count(HotelNo)

from Hotel;



--7

select type, avg(Price)

from Room

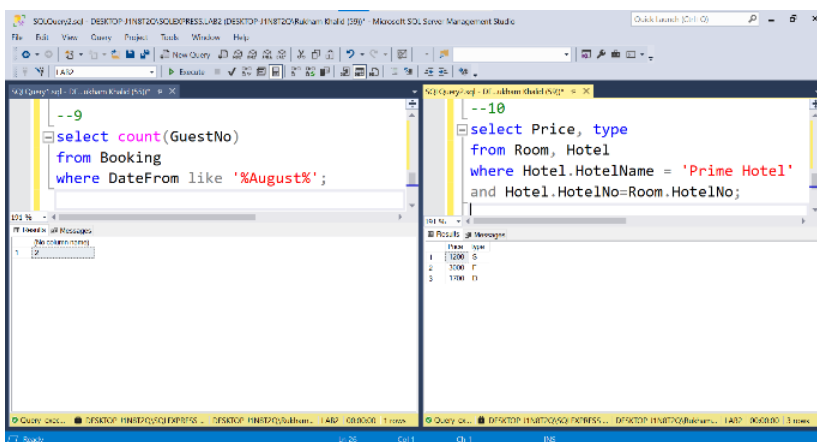
group by type;

--8

select sum(Price)

from Room

where type = 'D';

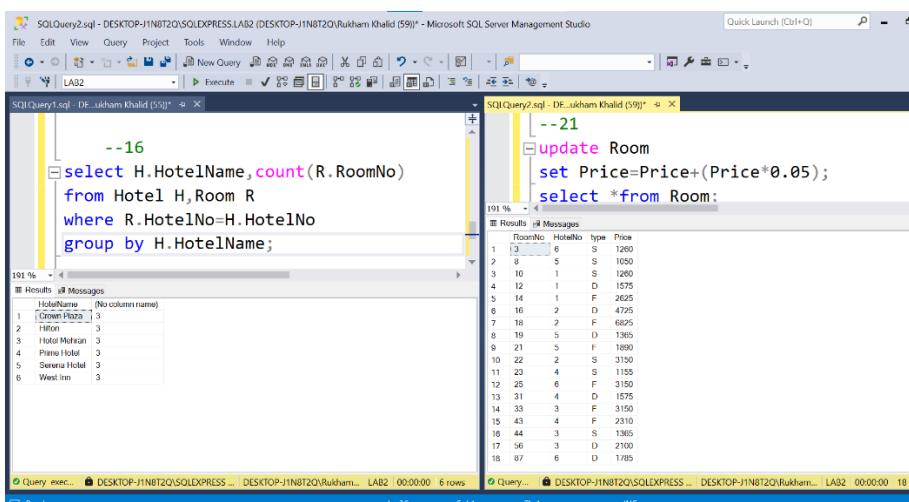


--9

select count(GuestNo)

from Booking

where DateFrom like '%August%';



--16

select

H.HotelName, count(R.RoomNo)

from Hotel H, Room R where

R.HotelNo=H.HotelNo

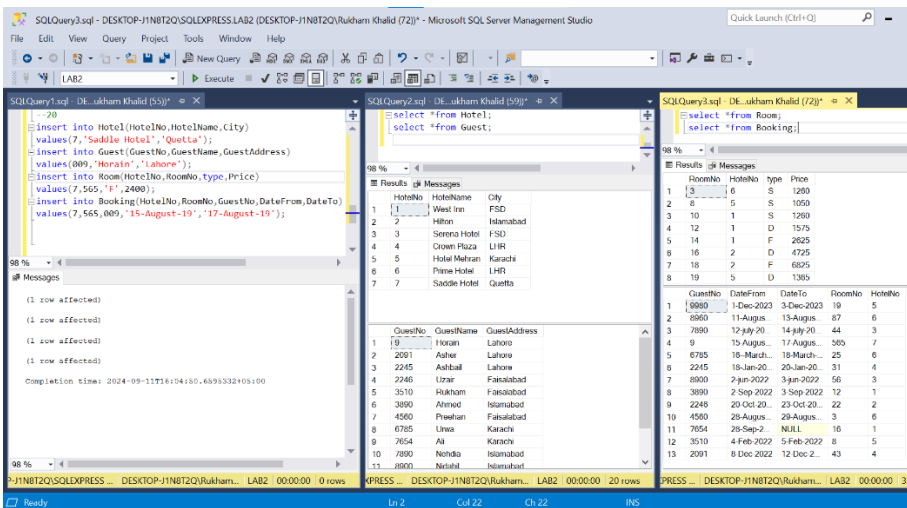
group by H.HotelName;

--21

update Room set

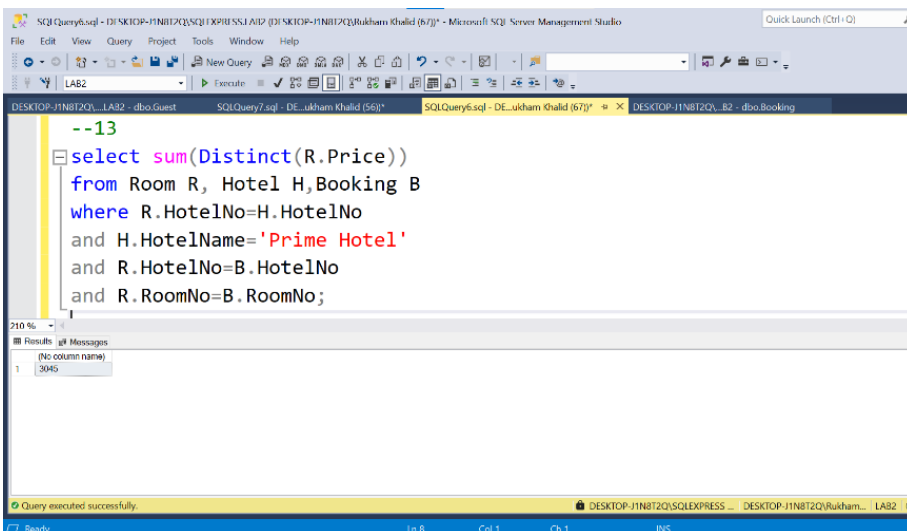
Price=Price+(Price*0.05);

select * from Room;



--20

insert into Hotel(HotelNo,HotelName,City)



values(7,'Saddle Hotel','Quetta');

insert into
Guest(GuestNo,GuestName,GuestA
ddress)

values(009,'Horain','Lahore');

insert into
Room(HotelNo,RoomNo,type,Price)

values(7,565,'F',2400);

insert into
Booking(HotelNo,RoomNo,GuestNo
,DateFrom,DateTo)

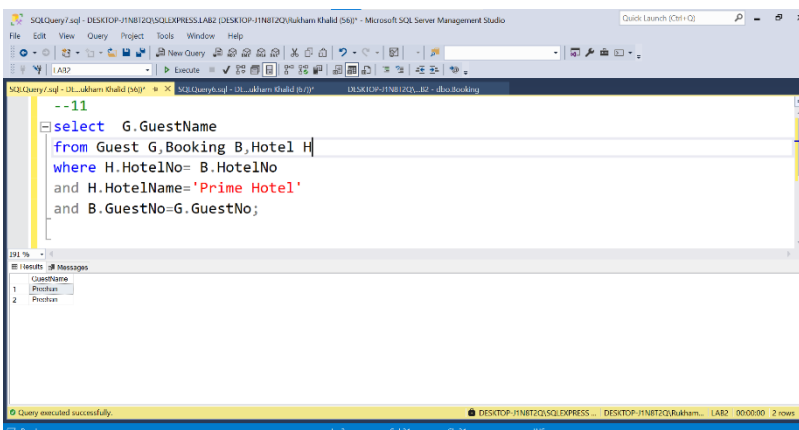
values(7,565,009,'15-August-
19','17-August-19');

--13

select sum(Distinct(R.Price))
from Room R, Hotel H,Booking B
where R.HotelNo=H.HotelNo
and H.HotelName='Prime Hotel'
and R.HotelNo=B.HotelNo
and R.RoomNo=B.RoomNo;

---11

select G.GuestName
from Guest G,Booking B,Hotel H
where H.HotelNo= B.HotelNo
and H.HotelName='Prime Hotel'
and B.GuestNo=G.GuestNo;




```
--10
select R.type,R.Price
from Room R,Hotel H
where H.HotelNo=R.HotelNo
and H.HotelName='Prime Hotel';
```

type	Price
115	1350
2	3150
3	1750

Query executed successfully.

--10

```
select R.type,R.Price

from Room R,Hotel H

where H.HotelNo=R.HotelNo

and H.HotelName='Prime Hotel';
```

```
--15
select H.HotelName,count(R.RoomNo)
from Room R,Hotel H
where H.HotelNo=R.HotelNo
group by H.HotelName;
```

HotelName	(No column name)
1	Crown Plaza 3
2	Hilton 3
3	Hotel Mehran 3
4	Prime Hotel 3
5	Saddle Hotel 1
6	Serena Hotel 3
7	West Inn 3

Query executed successfully.

--15

```
select
H.HotelName,count(R.RoomNo)

from Room R,Hotel H

where H.HotelNo=R.HotelNo

group by H.HotelName;
```

```
--17
select H.HotelName,
count(Distinct(B.RoomNo))
from Hotel H,Room R,Booking B
where B.DateFrom like '%August%'
and H.HotelNo=B.HotelNo
group by H.HotelName;
```

HotelName	(No column name)
1	Prime Hotel 2
2	Saddle Hotel 1

Query executed successfully.

--17

```
select H.HotelName,
count(Distinct(B.RoomNo))

from Hotel H,Room R,Booking B

where B.DateFrom like '%August%'

and H.HotelNo=B.HotelNo

group by H.HotelName;

group by H.HotelName;
```


SQLQuery7.sql - DESKTOP-J1N8T2Q\SQLEXPRESS.LAB2 (DESKTOP-J1N8T2Q\Rukham Khalid (56))* - Microsoft SQL Server Management Studio

```
--14
select Distinct R.RoomNo,R.type
from Room R,Hotel H,Booking B
where H.HotelNo=R.HotelNo
and R.RoomNo not in (B.RoomNo)
and H.HotelName='Prime Hotel';
```

Results

	RoomNo	type
1	3	S
2	25	F
3	87	D

Query executed successfully.

--14

select Distinct R.RoomNo,R.type
from Room R,Hotel H,Booking B
where H.HotelNo=R.HotelNo
and R.RoomNo not in (B.RoomNo)
and H.HotelName='Prime Hotel';

SQLQuery2.sql - DESKTOP-J1N8T2Q\SQLEXPRESS.LAB2 (DESKTOP-J1N8T2Q\Rukham Khalid (54))* - Microsoft SQL Server Management Studio

```
--18
select H.HotelName,max(R.type)
from Booking B, Hotel H, Room R
where B.roomNo = R.roomNo
and R.hotelNo = H.hotelNo
and H.City = 'LHR'
and R.HotelNo = H.HotelNo
group by H.HotelName;
```

Results

	HotelName	(No column name)
1	Crown Plaza	F
2	Prime Hotel	S

Query executed successfully.

--18

select H.HotelName,max(R.type)
from Booking B, Hotel H, Room R
where B.roomNo = R.roomNo
and R.hotelNo = H.hotelNo
and H.City = 'LHR'
and R.HotelNo = H.HotelNo
group by H.HotelName;

SQLQuery1.sql - DESKTOP-J1N8T2Q\SQLEXPRESS.LAB2 (DESKTOP-J1N8T2Q\Rukham Khalid (60))* - Microsoft SQL Server Management Studio

```
---19
select H.HotelName, sum(R.Price)
from Room R, Hotel H, Booking B
where R.RoomNo not in (select RoomNo from Booking)
and H.HotelNo = B.HotelNo
and H.HotelNo = R.HotelNo
group by H.HotelName;
```

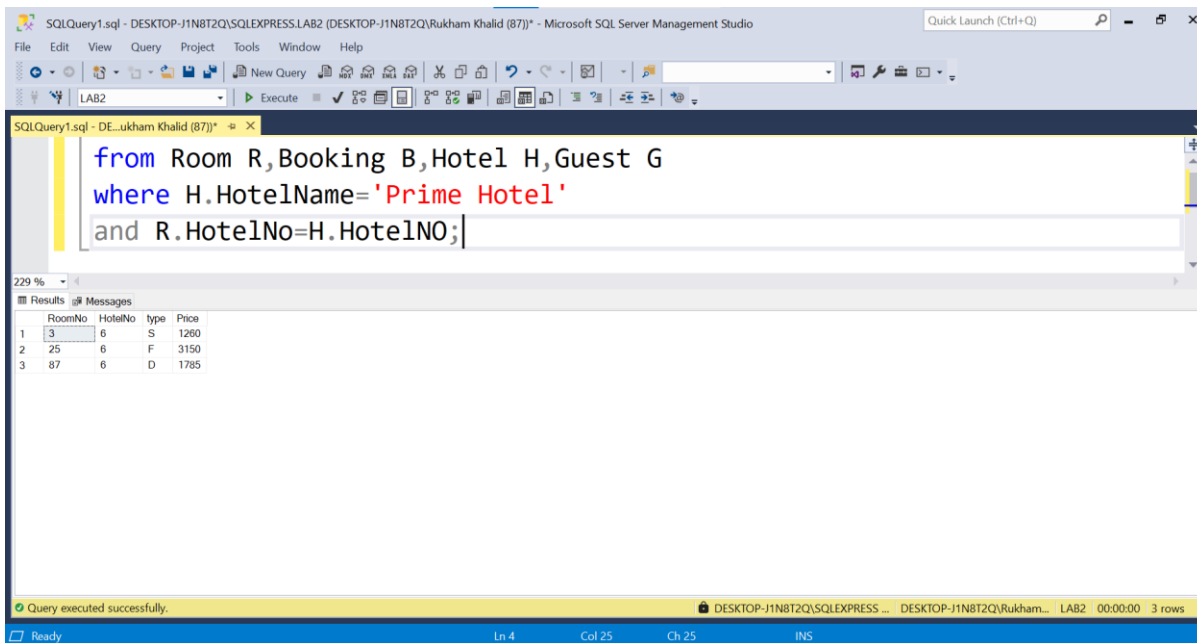
Results

	HotelName	(No column name)
1	Crown Plaza	2310
2	Hilton	6825
3	Hotel Mehran	3780
4	Prime Hotel	6300
5	Serena Hotel	6300
6	West Inn	7770

Query executed successfully.

---19

select H.HotelName, sum(R.Price)
from Room R, Hotel H, Booking B
where R.RoomNo not in (select
RoomNo from Booking)
and H.HotelNo = B.HotelNo
and H.HotelNo = R.HotelNo
group by H.HotelName;



12-

select Distinct R.*

from Room R,Booking B,Hotel H,Guest G

where H.HotelName='Prime Hotel'

and R.HotelNo=H.HotelNO;