

```

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

```

```

create table Guest (
    GuestNo int primary key,
    GuestName varchar(15),
    GuestAddress varchar(15),
);

```

```

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

```

```

create table Booking (
    GuestNo int,
    DateFrom varchar(15) Primary key,

```

```

DateTo varchar(15),

RoomNo int,

HotelNo int

Constraint fk_Hotel foreign Key (HotelNo) References Hotel(HotelNo),

Constraint fk_Guest foreign Key (GuestNo) References Guest(GuestNo),

);

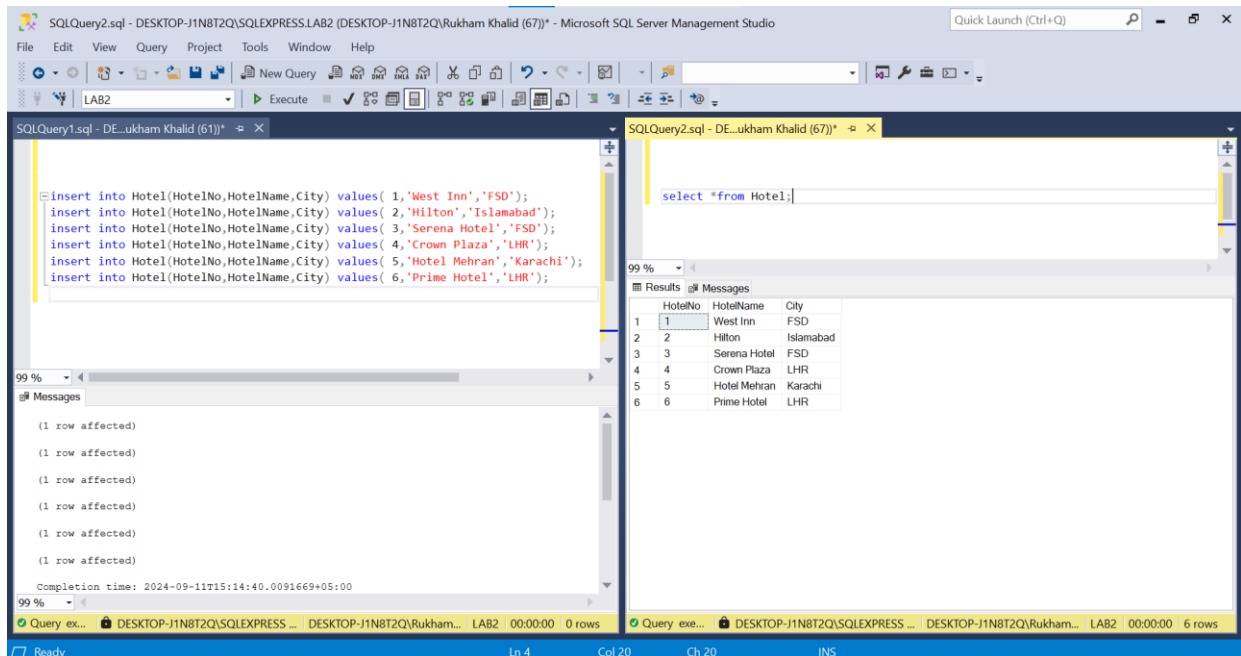
select *from Hotel;

select *from Guest;

select *from Room;

select *from Booking;

```



```

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

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

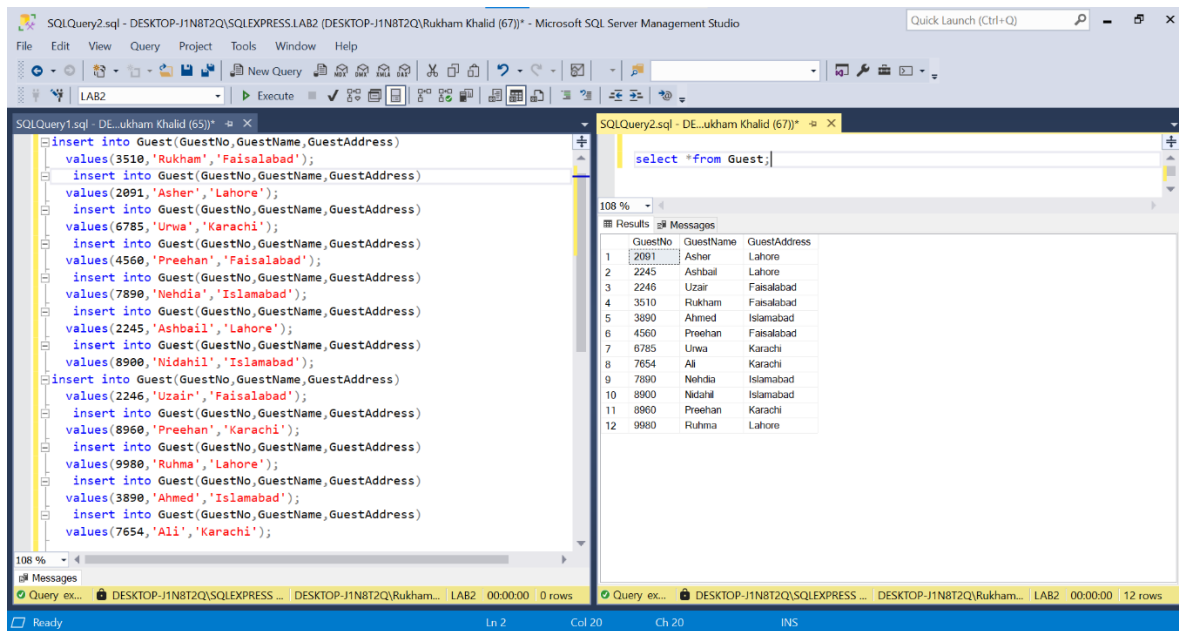
insert into Hotel(HotelNo,HotelName,City) values( 3,'Serena Hotel','FSD');

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');
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)

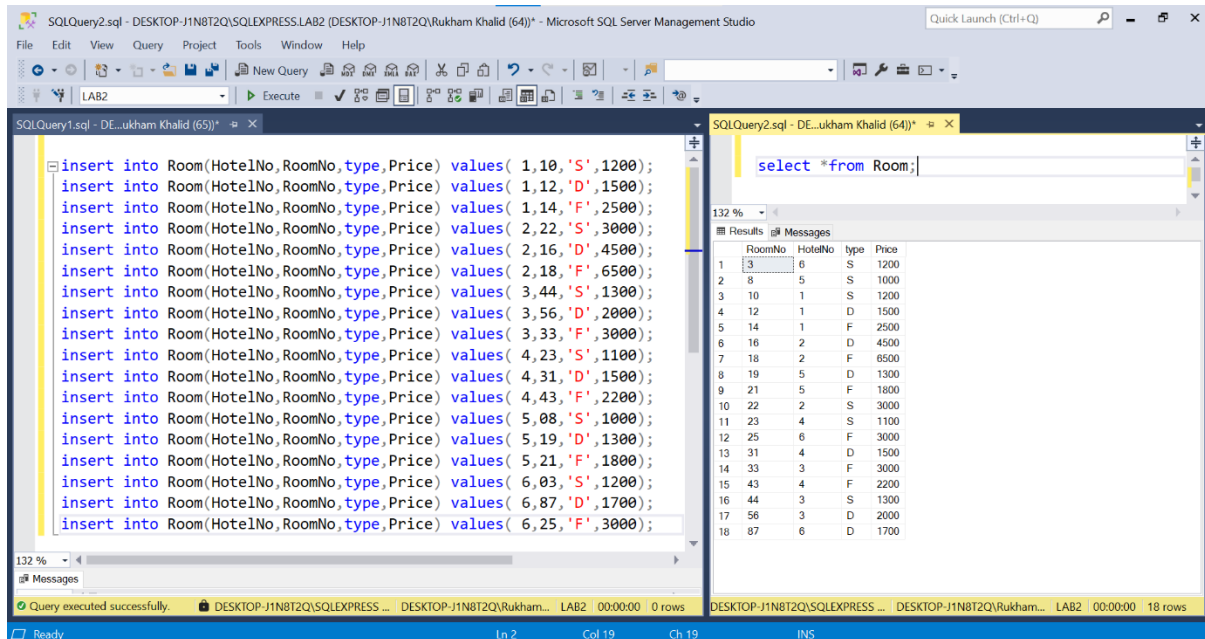
values(3890,'Ahmed','Islamabad');

insert into Guest(GuestNo,GuestName,GuestAddress)

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

select *from Guest;

```



```

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);

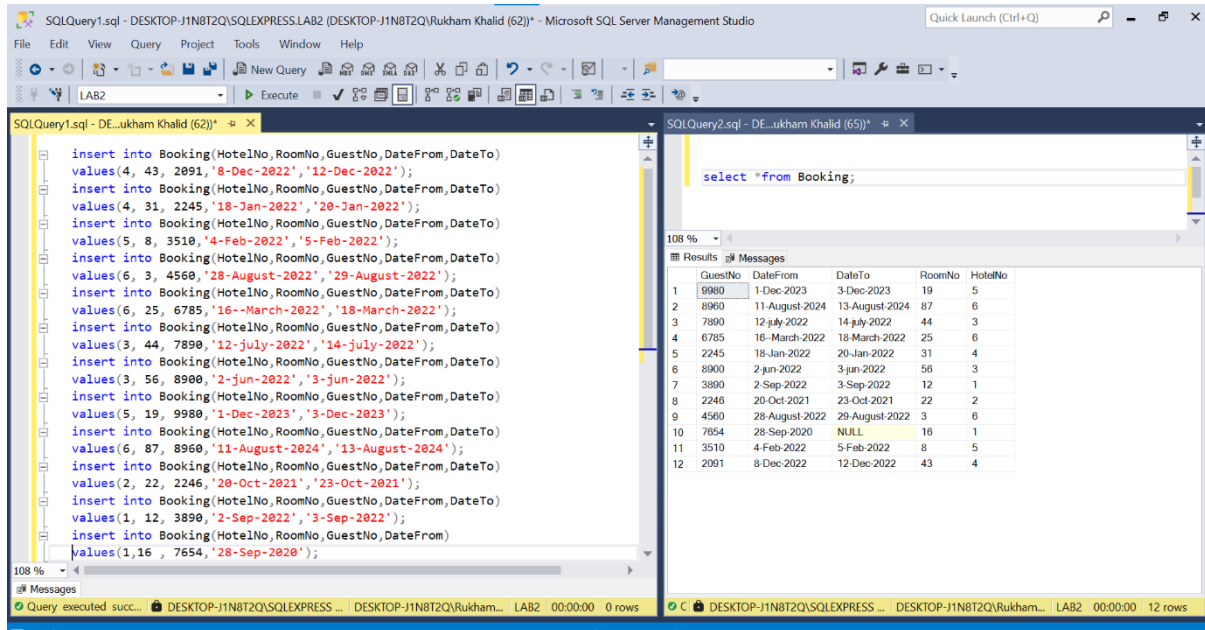
```

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)

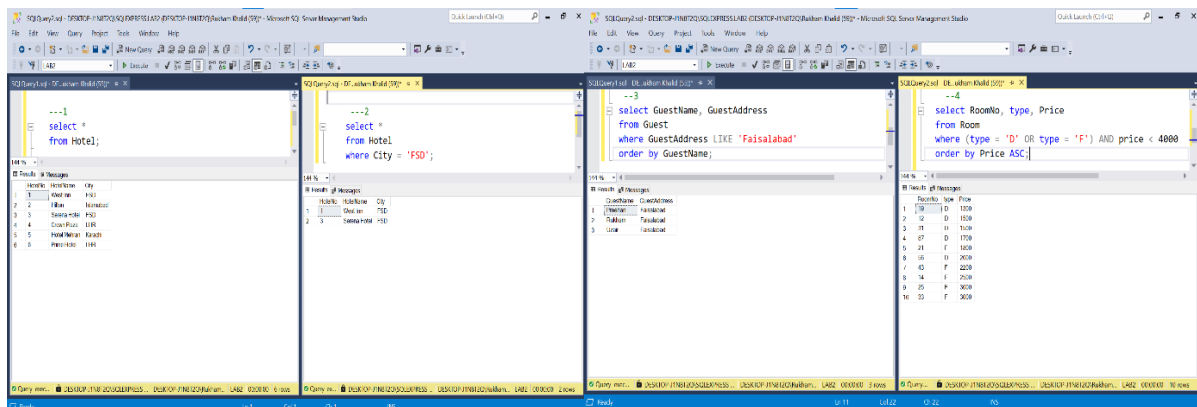
values(1, 12, 3890,'2-Sep-2022','3-Sep-2022');

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

values(1,16 , 7654,'28-Sep-2020');

```

```
select *from Booking;
```



--1

```
select *
from Hotel;
```

--2

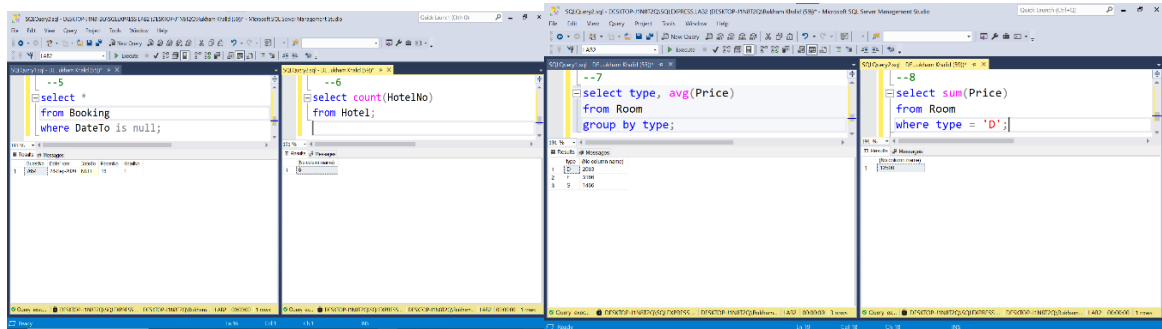
```
select *
from Hotel
where City = 'FSD';
```

--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

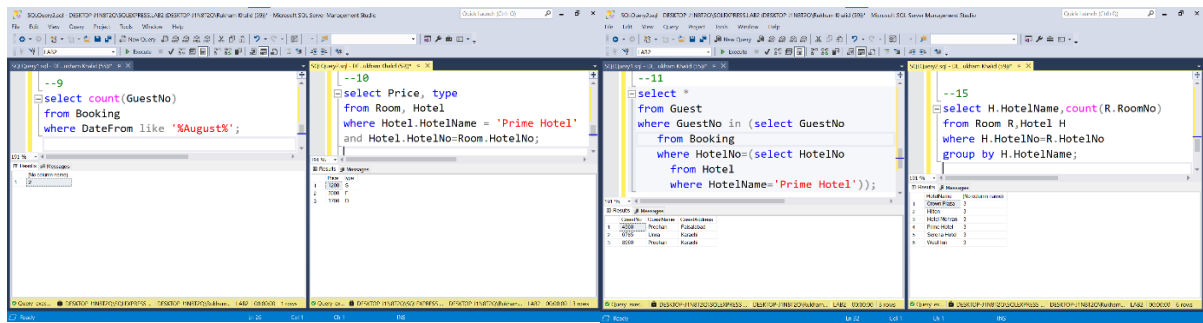
```
select count(HotelNo)  
from Hotel;
```

--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%';

--10

select Price, type

from Room, Hotel

where Hotel.HotelName = 'Prime Hotel'

and Hotel.HotelNo=Room.HotelNo;

--11

select *

from Guest

where GuestNo in (select GuestNo

from Booking

where HotelNo=(select HotelNo

from Hotel

where HotelName='Prime Hotel'));

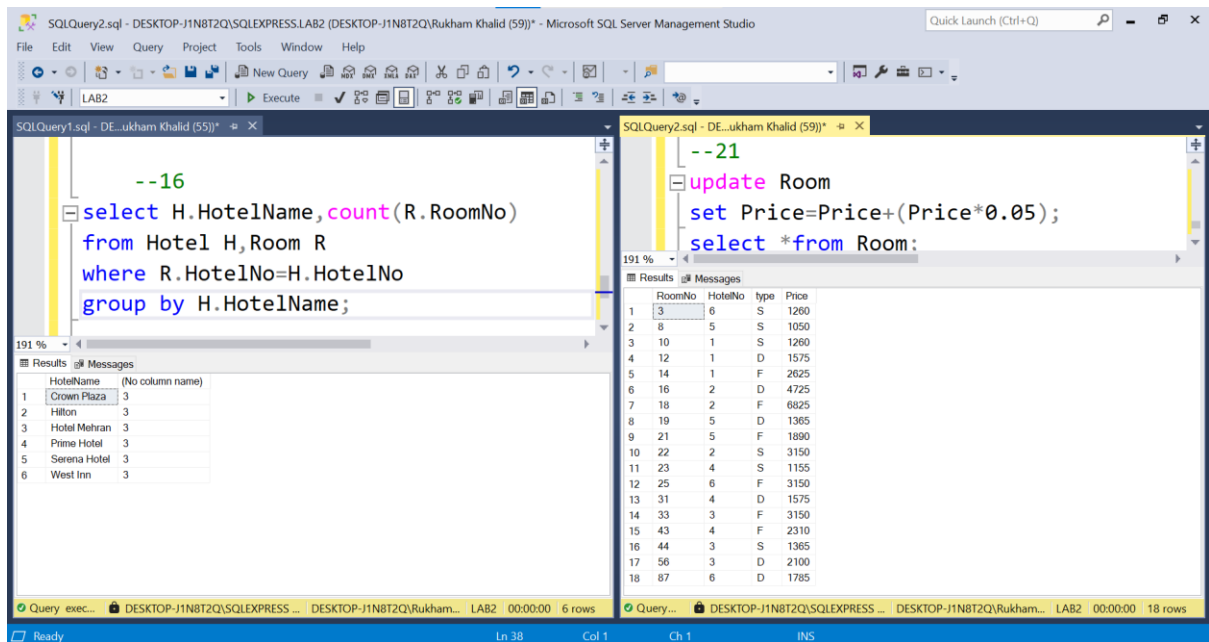
--15

select H.HotelName,count(R.RoomNo)

from Room R,Hotel H

where H.HotelNo=R.HotelNo

group by H.HotelName;



--16

select H.HotelName,count(R.RoomNo)

from Hotel H,Room R

where R.HotelNo=H.HotelNo

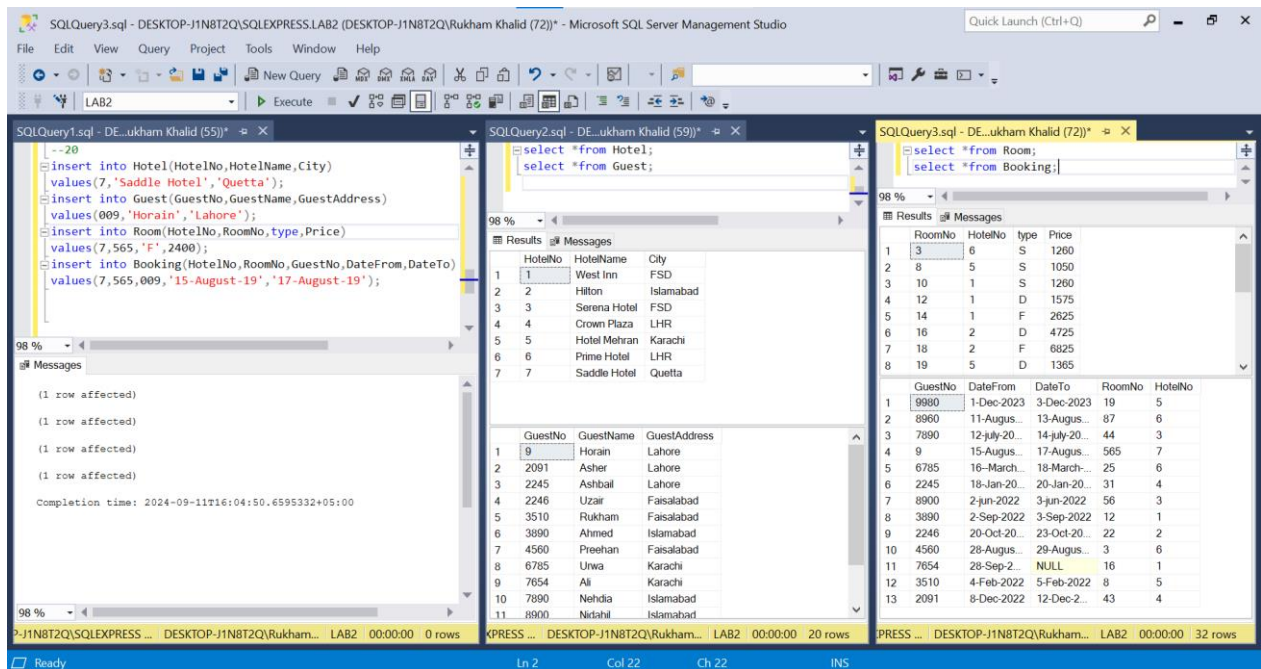
group by H.HotelName;

--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,GuestAddress)

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');

select *from Hotel;

select *from Guest;

select *from Room;

select *from Booking;