Data Analysis for online food delivery platform using SQL

Tasks to be performed:

Create a stored procedure to display the restaurant name, type and cuisine where the table booking is not zero.

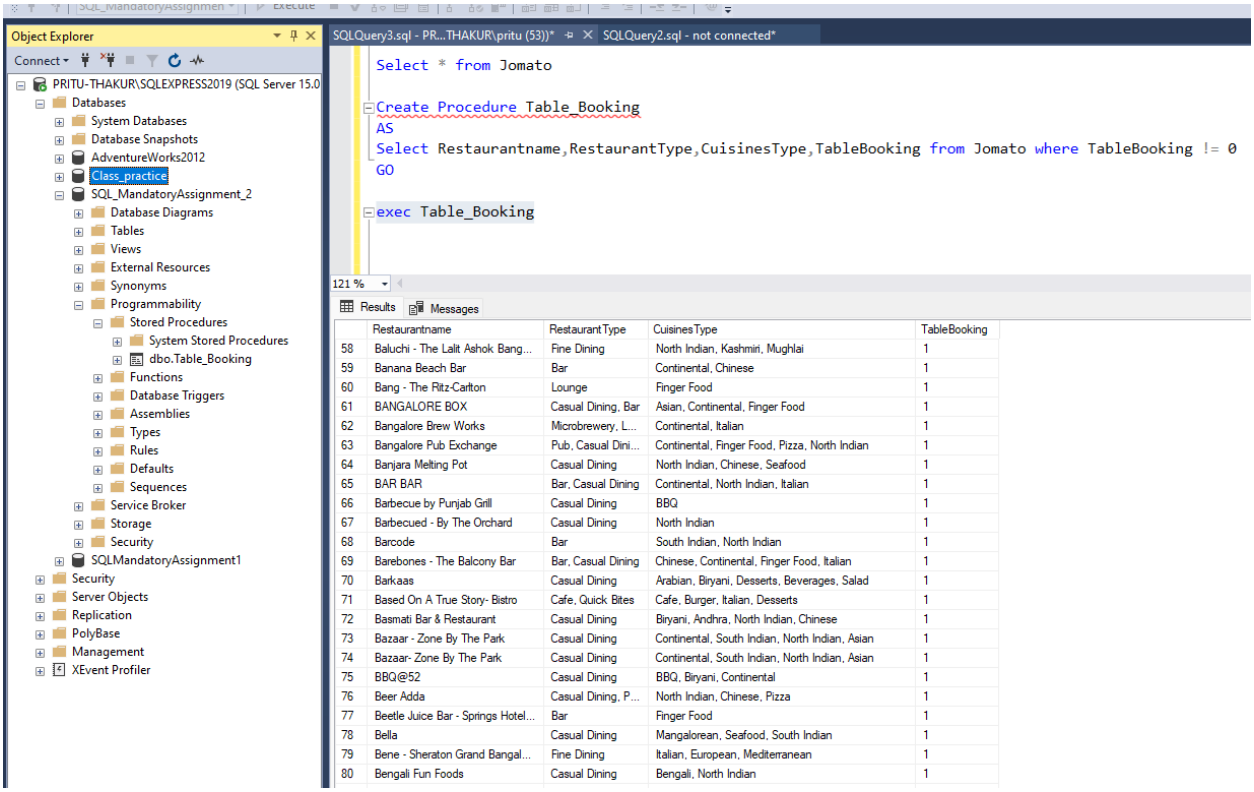
Query: Create Procedure Table_Booking

AS

Select Restaurantname,RestaurantType,CuisinesType,TableBooking from Jomato where TableBooking != 0

GO

exec Table_Booking

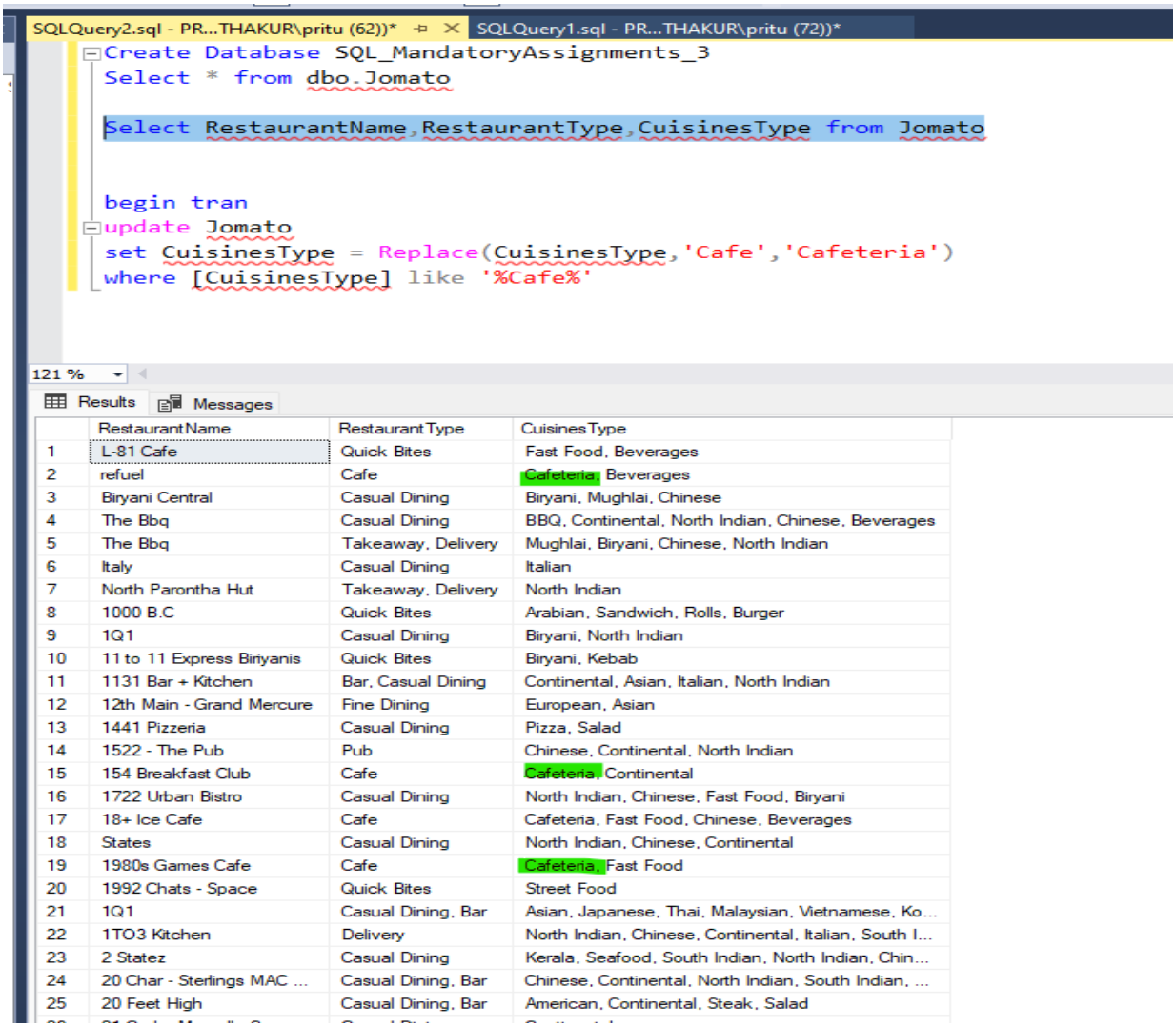


	Restaurantname	RestaurantType	CuisinesType	TableBooking
58	Baluchi - The Lalit Ashok Bang...	Fine Dining	North Indian, Kashmiri, Mughlai	1
59	Banana Beach Bar	Bar	Continental, Chinese	1
60	Bang - The Ritz-Carlton	Lounge	Finger Food	1
61	BANGALORE BOX	Casual Dining, Bar	Asian, Continental, Finger Food	1
62	Bangalore Brew Works	Microbrewery, L...	Continental, Italian	1
63	Bangalore Pub Exchange	Pub, Casual Dini...	Continental, Finger Food, Pizza, North Indian	1
64	Banjara Melting Pot	Casual Dining	North Indian, Chinese, Seafood	1
65	BAR BAR	Bar, Casual Dining	Continental, North Indian, Italian	1
66	Barbecue by Punjab Grill	Casual Dining	BBQ	1
67	Barbecued - By The Orchard	Casual Dining	North Indian	1
68	Barcode	Bar	South Indian, North Indian	1
69	Barebones - The Balcony Bar	Bar, Casual Dining	Chinese, Continental, Finger Food, Italian	1
70	Barkaas	Casual Dining	Arabian, Biryani, Desserts, Beverages, Salad	1
71	Based On A True Story- Bistro	Cafe, Quick Bites	Cafe, Burger, Italian, Desserts	1
72	Basmati Bar & Restaurant	Casual Dining	Biryani, Andhra, North Indian, Chinese	1
73	Bazaar - Zone By The Park	Casual Dining	Continental, South Indian, North Indian, Asian	1
74	Bazaar- Zone By The Park	Casual Dining	Continental, South Indian, North Indian, Asian	1
75	BBQ@52	Casual Dining	BBQ, Biryani, Continental	1
76	Beer Adda	Casual Dining, P...	North Indian, Chinese, Pizza	1
77	Beetle Juice Bar - Springs Hotel...	Bar	Finger Food	1
78	Bella	Casual Dining	Mangalorean, Seafood, South Indian	1
79	Bene - Sheraton Grand Bangal...	Fine Dining	Italian, European, Mediterranean	1
80	Bengali Fun Foods	Casual Dining	Bengali, North Indian	1

2.Create a transaction and update the cuisine type ‘Cafe’ to ‘Cafeteria’. Check the result and rollback it.

Query: **Replace Café to Cafeteria**

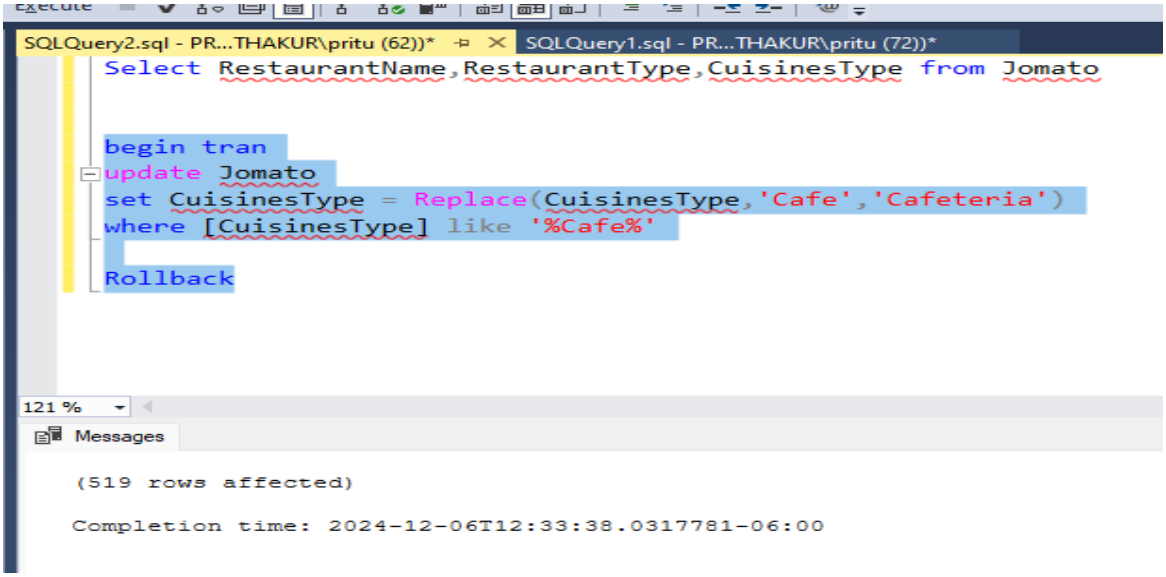
```
begin tran
update Jomato
set CuisinesType = Replace (CuisinesType,'Cafe','Cafeteria')
where [CuisinesType] like '%Cafe%'
```



	RestaurantName	RestaurantType	CuisinesType
1	L-81 Cafe	Quick Bites	Fast Food, Beverages
2	refuel	Cafe	Cafeteria, Beverages
3	Biryani Central	Casual Dining	Biryani, Mughlai, Chinese
4	The Bbq	Casual Dining	BBQ, Continental, North Indian, Chinese, Beverages
5	The Bbq	Takeaway, Delivery	Mughlai, Biryani, Chinese, North Indian
6	Italy	Casual Dining	Italian
7	North Parontha Hut	Takeaway, Delivery	North Indian
8	1000 B.C	Quick Bites	Arabian, Sandwich, Rolls, Burger
9	1Q1	Casual Dining	Biryani, North Indian
10	11 to 11 Express Biriyanis	Quick Bites	Biryani, Kebab
11	1131 Bar + Kitchen	Bar, Casual Dining	Continental, Asian, Italian, North Indian
12	12th Main - Grand Mercure	Fine Dining	European, Asian
13	1441 Pizzeria	Casual Dining	Pizza, Salad
14	1522 - The Pub	Pub	Chinese, Continental, North Indian
15	154 Breakfast Club	Cafe	Cafeteria, Continental
16	1722 Urban Bistro	Casual Dining	North Indian, Chinese, Fast Food, Biryani
17	18+ Ice Cafe	Cafe	Cafeteria, Fast Food, Chinese, Beverages
18	States	Casual Dining	North Indian, Chinese, Continental
19	1980s Games Cafe	Cafe	Cafeteria, Fast Food
20	1992 Chats - Space	Quick Bites	Street Food
21	1Q1	Casual Dining, Bar	Asian, Japanese, Thai, Malaysian, Vietnamese, Ko...
22	1TO3 Kitchen	Delivery	North Indian, Chinese, Continental, Italian, South I...
23	2 Statez	Casual Dining	Kerala, Seafood, South Indian, North Indian, Chin...
24	20 Char - Sterlings MAC ...	Casual Dining, Bar	Chinese, Continental, North Indian, South Indian, ...
25	20 Feet High	Casual Dining, Bar	American, Continental, Steak, Salad

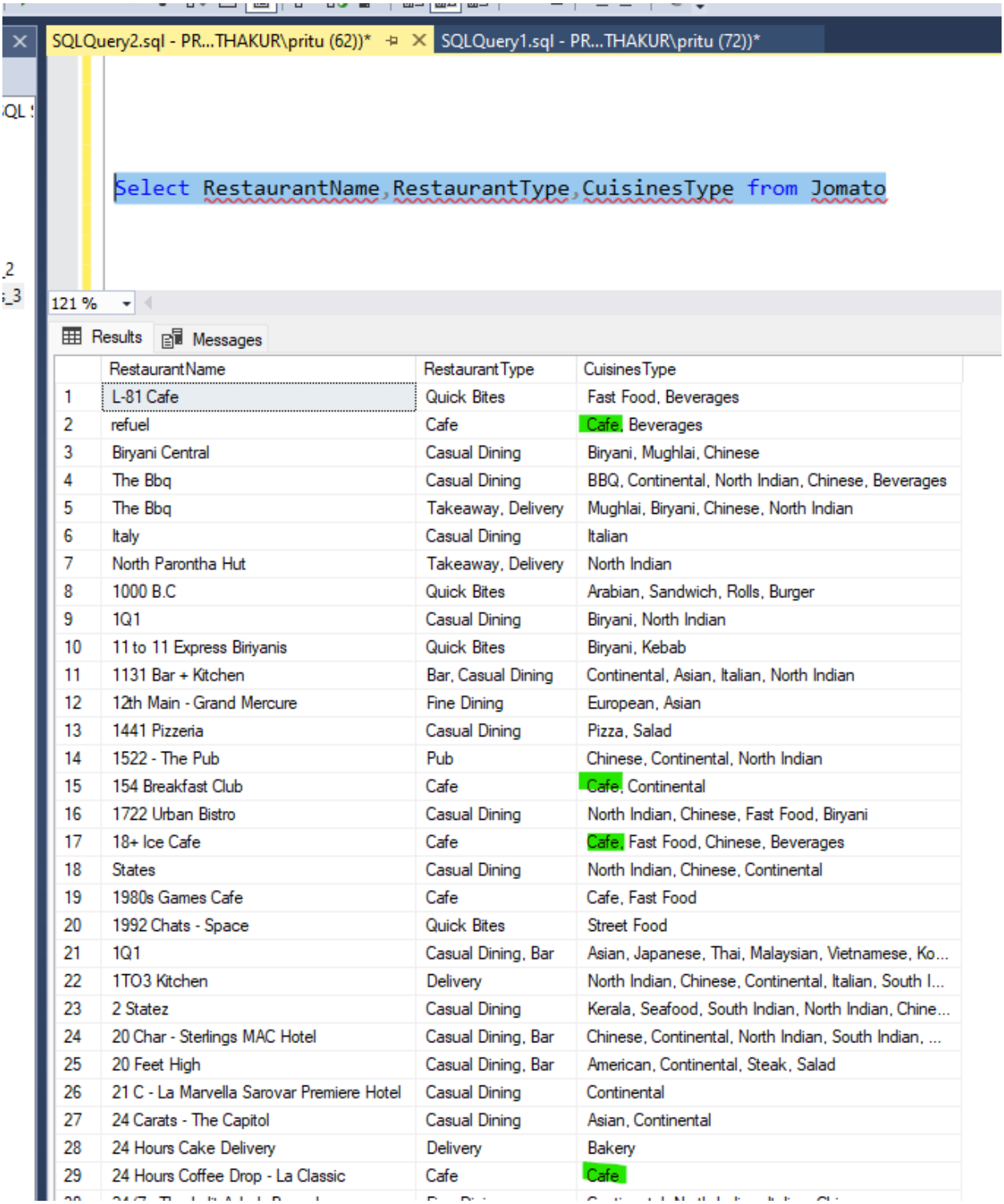
Query**: Rollback the result**

```
begin tran
update Jomato
set CuisinesType = Replace(CuisinesType,'Cafe','Cafeteria')
where [CuisinesType] like '%Cafe%'
Rollback
```



Query: **To check the result**

```
Select RestaurantName,RestaurantType,CuisinesType from Jomato
```



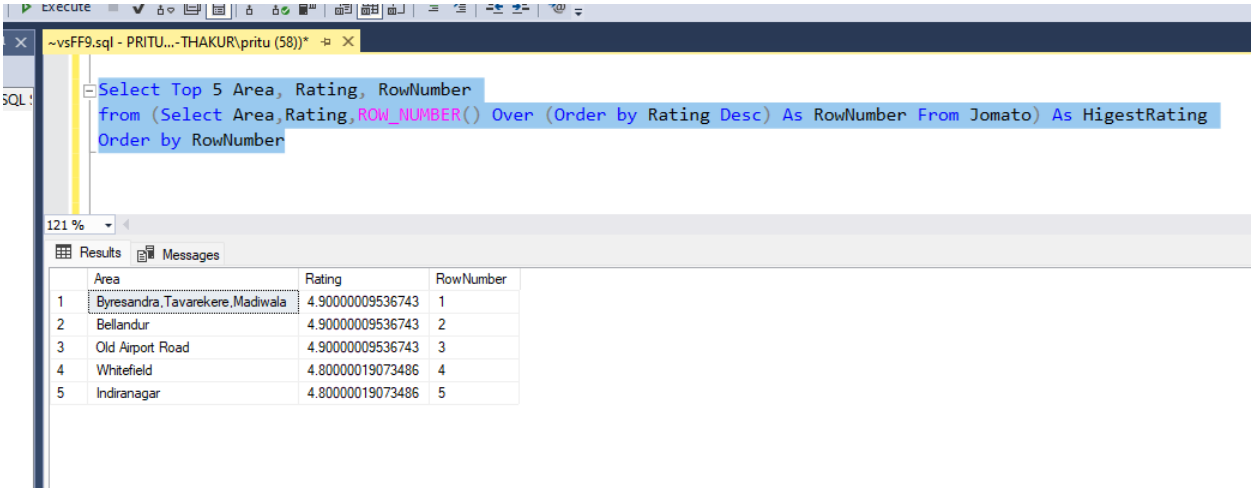
	RestaurantName	RestaurantType	CuisinesType
1	L-81 Cafe	Quick Bites	Fast Food, Beverages
2	refuel	Cafe	Cafe, Beverages
3	Biryani Central	Casual Dining	Biryani, Mughlai, Chinese
4	The Bbq	Casual Dining	BBQ, Continental, North Indian, Chinese, Beverages
5	The Bbq	Takeaway, Delivery	Mughlai, Biryani, Chinese, North Indian
6	Italy	Casual Dining	Italian
7	North Parontha Hut	Takeaway, Delivery	North Indian
8	1000 B.C	Quick Bites	Arabian, Sandwich, Rolls, Burger
9	1Q1	Casual Dining	Biryani, North Indian
10	11 to 11 Express Biriyanis	Quick Bites	Biryani, Kebab
11	1131 Bar + Kitchen	Bar, Casual Dining	Continental, Asian, Italian, North Indian
12	12th Main - Grand Mercure	Fine Dining	European, Asian
13	1441 Pizzeria	Casual Dining	Pizza, Salad
14	1522 - The Pub	Pub	Chinese, Continental, North Indian
15	154 Breakfast Club	Cafe	Cafe, Continental
16	1722 Urban Bistro	Casual Dining	North Indian, Chinese, Fast Food, Biryani
17	18+ Ice Cafe	Cafe	Cafe, Fast Food, Chinese, Beverages
18	States	Casual Dining	North Indian, Chinese, Continental
19	1980s Games Cafe	Cafe	Cafe, Fast Food
20	1992 Chats - Space	Quick Bites	Street Food
21	1Q1	Casual Dining, Bar	Asian, Japanese, Thai, Malaysian, Vietnamese, Ko...
22	1TO3 Kitchen	Delivery	North Indian, Chinese, Continental, Italian, South I...
23	2 Statez	Casual Dining	Kerala, Seafood, South Indian, North Indian, Chine...
24	20 Char - Sterlings MAC Hotel	Casual Dining, Bar	Chinese, Continental, North Indian, South Indian, ...
25	20 Feet High	Casual Dining, Bar	American, Continental, Steak, Salad
26	21 C - La Marvella Sarovar Premiere Hotel	Casual Dining	Continental
27	24 Carats - The Capitol	Casual Dining	Asian, Continental
28	24 Hours Cake Delivery	Delivery	Bakery
29	24 Hours Coffee Drop - La Classic	Cafe	Cafe

3.Generate a row number column and find the top 5 areas with the highest rating of restaurants.

Query: Select Top 5 Area, Rating, RowNumber

from (Select Area,Rating,ROW_NUMBER() Over (Order by Rating Desc) As RowNumber From Jomato) As HigestRating

Order by RowNumber



	Area	Rating	RowNumber
1	Byresandra,Tavarekere,Madiwala	4.90000009536743	1
2	Bellandur	4.90000009536743	2
3	Old Airport Road	4.90000009536743	3
4	Whitefield	4.80000019073486	4
5	Indiranagar	4.80000019073486	5

4. Use the while loop to display the 1 to 50.

Query: Declare @OrderId Int

Set @OrderId = 1

While @OrderId<= 50

Begin

Select OrderID,RestaurantName,CuisinesType from Jomato

where OrderID = @OrderId

SET @OrderId = @OrderId + 1

End

~vsFF9.sql - PRITU...-THAKUR\pritu (58))*

```
Declare @OrderId Int
Set @OrderId = 1
While @OrderId<= 50
Begin
  Select OrderID,RestaurantName,CuisinesType from Jomato
  where OrderID = @OrderId
   SET @OrderId = @OrderId + 1
End
```

121 %

Results | Messages

	OrderID	RestaurantName	CuisinesType
1	1	L-81 Cafe	Fast Food, Beverages

	OrderID	RestaurantName	CuisinesType
1	2	refuel	Cafe, Beverages

	OrderID	RestaurantName	CuisinesType
1	3	Biryani Central	Biryani, Mughlai, Chinese

	OrderID	RestaurantName	CuisinesType
1	4	The Bbq	BBQ, Continental, North Indian, Chinese, Beverages

	OrderID	RestaurantName	CuisinesType
1	5	The Bbq	Mughlai, Biryani, Chinese, North Indian

	OrderID	RestaurantName	CuisinesType
1	6	Italy	Italian

	OrderID	RestaurantName	CuisinesType
1	7	North Parontha Hut	North Indian

	OrderID	RestaurantName	CuisinesType
1	8	1000 B.C	Arabian, Sandwich, Rolls, Burger

	OrderID	RestaurantName	CuisinesType
1	9	1Q1	Biryani, North Indian

	OrderID	RestaurantName	CuisinesType
1	10	11 to 11 Express Biriyanis	Biryani, Kebab

	OrderID	RestaurantName	CuisinesType
1	11	1131 Bar + Kitchen	Continental, Asian, Italian, North Indian

	OrderID	RestaurantName	CuisinesType
1	12	12th Main - Grand Mercure	European, Asian

	OrderID	RestaurantName	CuisinesType
1	13	1441 Pizzeria	Pizza, Salad

	OrderID	RestaurantName	CuisinesType
1	14	1522 - The Pub	Chinese, Continental, North Indian

```
Declare @OrderId Int
Set @OrderId = 1
While @OrderId<= 50
Begin
  Select OrderID,RestaurantName,CuisinesType from Jomato
  where OrderID = @OrderId
   SET @OrderId = @OrderId + 1
```

121 %

Results | Messages

	OrderID	RestaurantName	CuisinesType
1	37	3 Spice	North Indian, Chinese

	OrderID	RestaurantName	CuisinesType
1	38	30 Square	Tibetan, Nepalese, Momos

	OrderID	RestaurantName	CuisinesType
1	39	360 Atoms Restaurant And Cafe	Cafe, Chinese, Continental, Italian

	OrderID	RestaurantName	CuisinesType
1	40	36th Cross Coffee Mane	North Indian, Chinese

	OrderID	RestaurantName	CuisinesType
1	41	37 China Town	Chinese, Thai, North Indian, South Indian, Conti...

	OrderID	RestaurantName	CuisinesType
1	42	3B's - Buddies, Bar & Barbecues	North Indian, Mediterranean, European, BBQ

	OrderID	RestaurantName	CuisinesType
1	43	3G's - Gulp & Groove	Finger Food, Continental, Chinese

	OrderID	RestaurantName	CuisinesType
1	44	3rd Innings	Burger, Italian, North Indian, Chinese

	OrderID	RestaurantName	CuisinesType
1	45	4 Mangoes	Ice Cream

	OrderID	RestaurantName	CuisinesType
1	46	4 Seasons Restaurant	North Indian, Seafood, Middle Eastern, Chinese

	OrderID	RestaurantName	CuisinesType
1	47	4 States	South Indian

	OrderID	RestaurantName	CuisinesType
1	48	46 Ounces Brewgarden	Bar Food, Finger Food, Pizza

	OrderID	RestaurantName	CuisinesType
1	49	4700BC Popcorn	Fast Food

	OrderID	RestaurantName	CuisinesType
1	50	4Foodiez	South Indian, North Indian, Chinese

5. Write a query to Create a Top rating view to store the generated top 5 highest rating of restaurants.

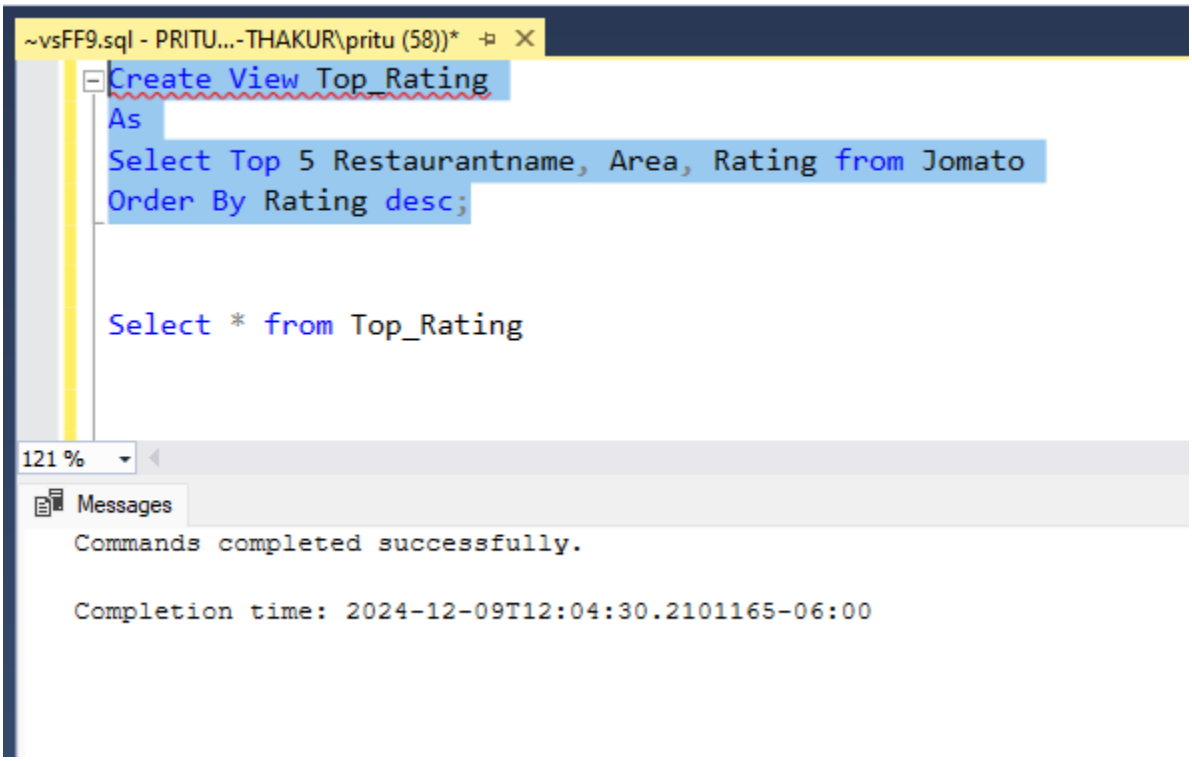
Query: Create View Top_Rating

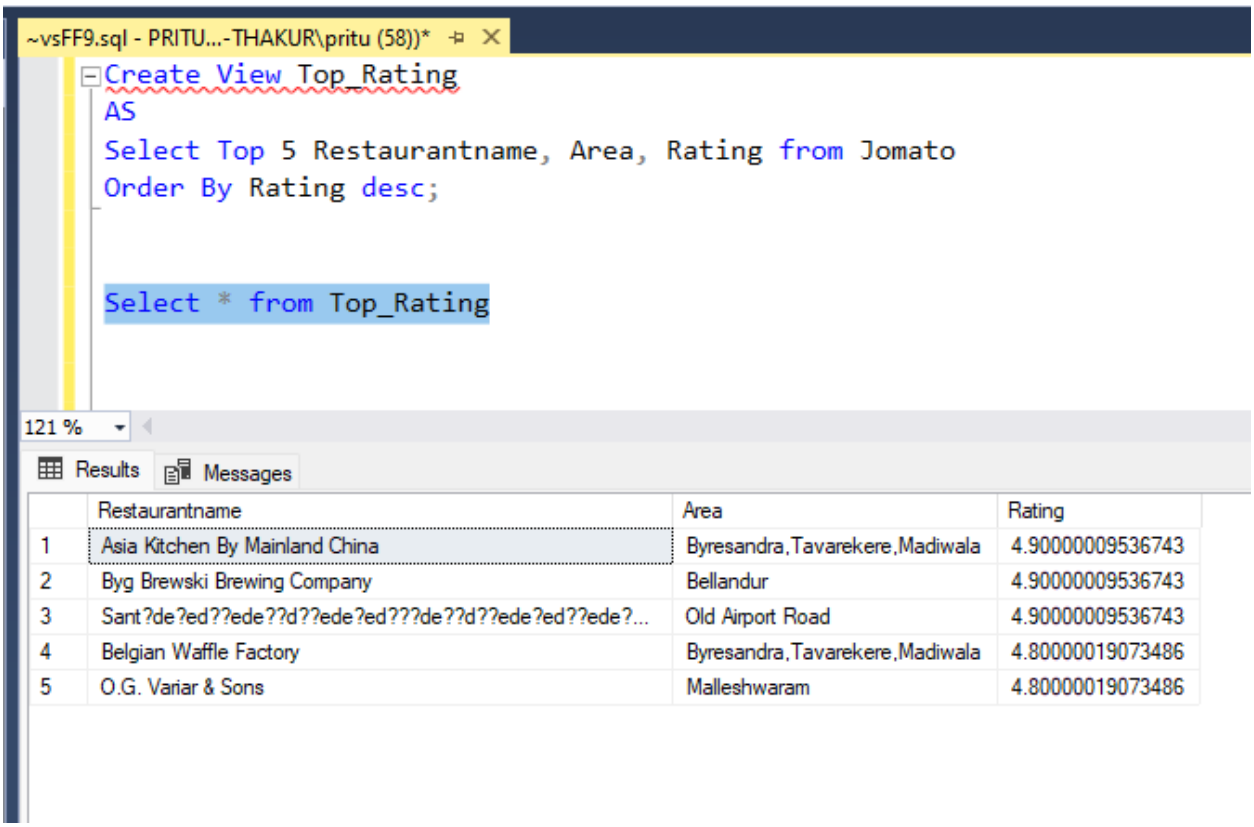
AS

Select Top 5 Restaurantname, Area, Rating from Jomato

Order By Rating desc;

Select * from Top_Rating





6. Write a trigger that sends an email notification to restaurant owner whenever a new record is inserted.(2 Solutions as per updated assignment)

Query: For Sending Email Notification

```
CREATE TRIGGER trg_Jomato_Insert

ON Jomato

AFTER INSERT

AS

BEGIN

    DECLARE @RestaurantName NVARCHAR(255);

    DECLARE @ClientEmail NVARCHAR(255);
```

```
   DECLARE @Message NVARCHAR(MAX);
SELECT
      @RestaurantName = RestaurantName,
      @OwnerEmail = 'prituirving1191@gmail.com' -- owner email coulmn is not there so hardcoding email
   FROM INSERTED;
SET @Message ='A new record has been added to the Jomato system for your restaurant: ' + @RestaurantName + '.' + CHAR(13) + CHAR(10) +
            'Please log in to verify the details.';
EXEC msdb.dbo.sp_send_dbmail
      @profile_name = 'SQLServerMailAccount',
      @recipients = @ ClientEmail,
      @subject = 'New Record Inserted in Jomato',
      @body = @Message;
END;


Insert into Jomato values (7105,'The Bbq','FineDinning',4.8,80,1000,3,3,'NorthIndian','Shaikpet','hyderabad', 45)
```

```sql
CREATE TRIGGER trg_Jomato_Insert
ON Jomato
AFTER INSERT
AS
BEGIN

    DECLARE @RestaurantName NVARCHAR(255);
    DECLARE @OwnerEmail NVARCHAR(255);
    DECLARE @Message NVARCHAR(MAX);

    SELECT
        @RestaurantName = RestaurantName,
        @OwnerEmail = 'prituirving1191@gmail.com' -- owner email coulmn is not there so hardcoding email
    FROM INSERTED;


    SET @Message ='A new record has been added to the Jomato system for your restaurant: ' + @RestaurantName + '.' + CHAR(13) + CHAR(10) +
                  'Please log in to verify the details.';

    EXEC msdb.dbo.sp_send_dbmail
        @profile_name = 'DefaultMailProfile',
        @recipients = @OwnerEmail,
        @subject = 'New Record Inserted in Jomato',
        @body = @Message;
END;

Insert into Jomato values (7105,'PunjabiTadka','FineDinning',4.8,80,1000,3,3,'NorthIndian','Shaikpet','hyderabad',45)
```

```
Messages
Mail (Id: 1) queued.

(1 row affected)

Completion time: 2024-12-09T15:08:16.3622846-06:00
```

```sql
FROM sysmail_profile;

SELECT
    mailitem_id,
    profile_id,
    recipients,
    subject,
    body,
    sent_status,
    sent_date,
    last_mod_date
FROM sysmail_allitems
ORDER BY last_mod_date DESC;


SELECT
    log_date,
    log_type,
    mailitem_id,
    description
```

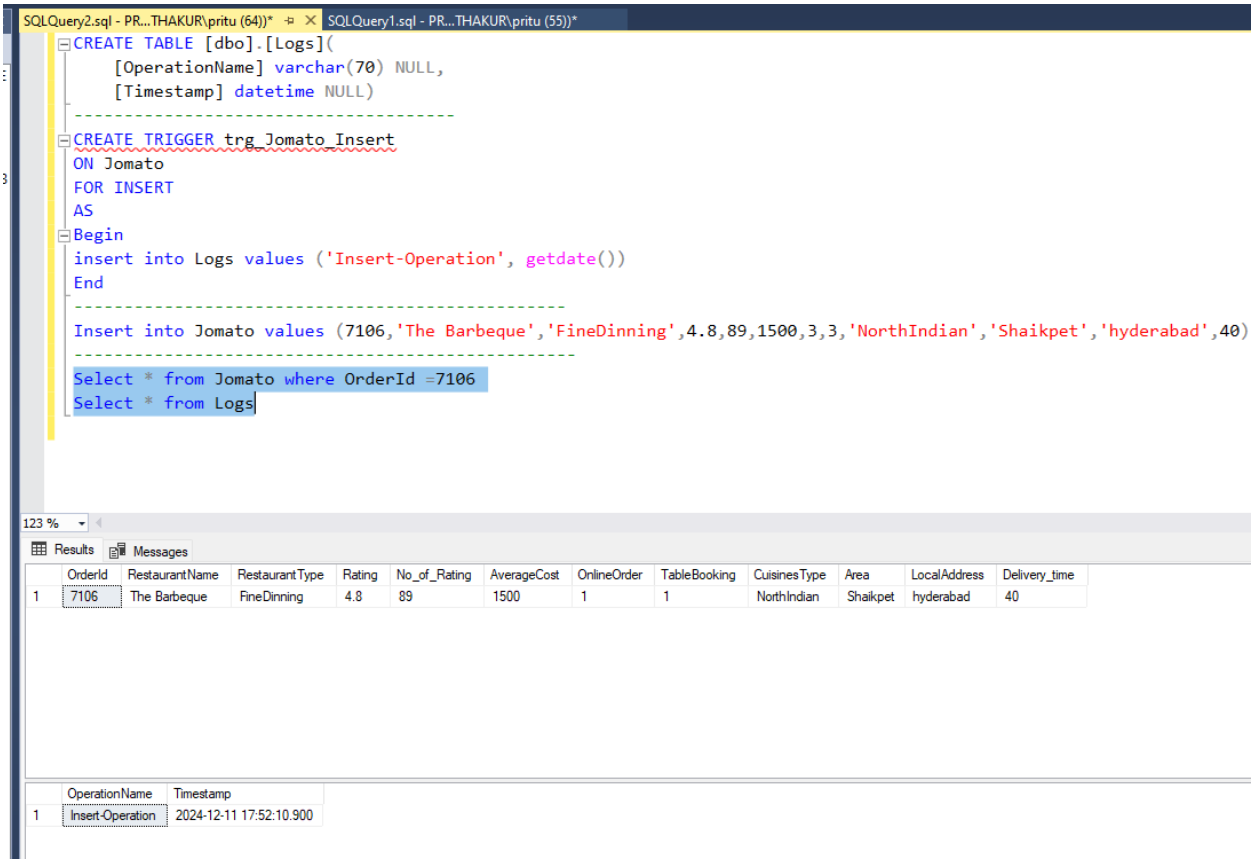
Results | Messages

	mailitem_id	profile_id	recipients	subject	body	sent_status	sent_date	last_mod_date
1	1	1	prituirving1191@gmail.com	New Record Inserted in Jomato	A new record has been added to the Jomato syste...	failed	2024-12-09 15:08:17.000	2024-12-09 15:08:17.600

Alternate Solution When Trigger Message is sent for Any Insert operation:

1.Create Log Table

```
CREATE TABLE [dbo].[Logs]([OperationName] varchar(70) NULL,

[Timestamp] datetime NULL)

CREATE TRIGGER trg_Jomato_Insert

ON Jomato FOR INSERT

AS

Begin

insert into Logs values ('Insert-Operation', getdate())

End;

Insert into Jomato values (7106,'The
Barbeque','FineDinning',4.8,89,1500,3,3,'NorthIndian','Shaikpet','hyder
abad',40)

Select * from Jomato where OrderId =7106

Select * from Logs
```


SQLQuery2.sql - PR...THAKUR\pritu (64))*
SQLQuery1.sql - PR...THAKUR\pritu (55))*
CREATE TABLE [dbo].[Logs](
[OperationName] varchar(70) NULL,
[Timestamp] datetime NULL)
CREATE TRIGGER trg_Jomato_Insert
ON Jomato
FOR INSERT
AS
Begin
insert into Logs values ('Insert-Operation', getdate())
End
Insert into Jomato values (7106,'The Barbeque','FineDinning',4.8,89,1500,3,3,'NorthIndian','Shaikpet','hyderabad',40)
Select * from Jomato where OrderId =7106
Select * from Logs
123 %
Results
Messages
OrderId RestaurantName RestaurantType Rating No_of_Rating AverageCost OnlineOrder TableBooking CuisinesType Area LocalAddress Delivery_time
1 7106 The Barbeque FineDinning 4.8 89 1500 1 1 NorthIndian Shaikpet hyderabad 40
OperationName Timestamp
1 Insert-Operation 2024-12-11 17:52:10.900