#### **About the dataset:**

You work for a data analytics company, and your client is a food delivery platform similar to Jomato. They have provided you with a dataset containing information about various restaurants in a city. Your task is to analyze this dataset using SQL queries to extract valuable insights and generate reports for your client.

## Tasks to be performed:

- 1. Create a user-defined functions to stuff the Chicken into 'Quick Bites'. Eg: 'Quick Chicken Bites'.
- Create Function StuffChickenIntoWord(@word varchar(200))
   Returns varchar(100)
   As Begin
   Declare @result nvarchar(300)
   Set @result = 'Quick '+@word + ' Bites'
   Return @result
   End

Select dbo.StuffChickenIntoWord('Chicken') as Result



- 2. Use the function to display the restaurant name and cuisine type which has the maximum number of rating.
- Create Function Max\_Rating()
  Returns Table

As

Return

 ${\color{red} \textbf{Select} Restaurant Name, Cuisines Type, Rating}$ 

From Jomato Where Rating in (Select Max(Rating) From Jomato)

Select \* From Max\_Rating()



3. Create a Rating Status column to display the rating as 'Excellent' if it has more the 4 start rating, 'Good' if it has above 3.5 and below 5 star rating, 'Average' if it is above 3 and below 3.5 and 'Bad' if it is below 3 star rating.

Select \*,
 Case When Rating > 4 Then 'Excellent'
 When Rating >= 3.5 Then 'Good'
 When Rating >= 3 Then 'Average'
 Else 'Bad'
 End As Rating\_Status
 From Jomato
 Order By Rating Desc

868		Area	LocalAddress	Delivery_time	Rating_Status
	American, Continental, Chinese	Koramangala 4th Block	Koramangala 4th Block	94	Excellent
869	Modern Indian, North Indian, Pizza, Continen	Brigade Road	Shanti Nagar	68	Excellent
870	Continental, Asian, North Indian, South Indian	Brigade Road	Ulsoor	74	Excellent
871	Biryani, Chinese, Kebab	Banashankari	Banashankari	38	Excellent
872	Cafe, Salad, Wraps, Beverages	Jayanagar	Jayanagar	75	Excellent
873	Cafe	Brigade Road	Richmond Road	31	Good
874	Cafe	Lavelle Road	Richmond Road	41	Good
875	Bakery, Desserts	Banashankari	Banashankari	62	Good
876	South Indian, Coffee	Kalyan Nagar	Banaswadi	42	Good
877	Cafe, Bakery, Beverages, Burger, Continental	Brigade Road	Brigade Road	37	Good

4. Find the Ceil, floor and absolute values of the rating column and display the current date and separately display the year, month name and day.

Select CEILING(Rating) As Ceil\_Value,
 FLOOR(Rating) As Floor\_Value, ABS(Rating) As Absolute\_Value
 From Jomato

■ Results						
	Ceil_Value	Floor_Value	Absolute_Value			
1	4	3	3.90000009536743			
2	4	3	3.70000004768372			
3	3	2	2.70000004768372			
4	3	2	2.79999995231628			
5	4	3	3.40000009536743			
6	5	4	4.09999990463257			
7	3	2	2.79999995231628			
8	4	3	3.20000004768372			
9	4	3	3.70000004768372			
10	4	3	3.5			
11	5	4	4.40000009536743			
	-		4 0000000000000000000000000000000000000			

• Select GETDATE() As Date, Year(GETDATE()) As Year, DATENAME(Month, GETDATE()) As Month, Day(GETDATE()) As Day

	Date	Year	Month	Day
1	2024-01-23 01:12:54.190	2024	January	23

## 5. Display the restaurant type and total average cost using rollup.

#### • Select

Case When GROUPING(RestaurantType) = 1 Then 'Grand Total' When GROUPING(AverageCost) = 1 Then 'Sub Total' Else RestaurantType End As RestaurantType, Isnull(Sum(AverageCost),0) As Sub\_Total From Jomato Group By Rollup(RestaurantType,AverageCost)

	RestaurantType	Sub_Total
10	Bakery	11500
11	Bakery	560
12	Bakery	4800
13	Bakery	750
14	Bakery	800
15	Bakery	900
16	Sub Total	53770
17	Bakery, Bever	250
18	Sub Total	250
19	Bakery, Cafe	350
20	Bakery, Cafe	800
21	Bakery, Cafe	450
22	Bakery, Cafe	500
23	Bakery, Cafe	600
24	Bakery, Cafe	1400
25	Sub Total	4100
26	Bakery, Desse	100
27	Bakery, Desse	150
28	Bakery, Desse	400
29	Bakery, Desse	250
30	Bakery, Desse	900
31	Bakery, Desse	1200
32	Bakery, Desse	1000
33	Bakery, Desse	1200
34	Sub Total	5200

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## Tasks to be performed:

- 1. Create a stored procedure to display the restaurant name, type and cuisine where the table booking is not zero.
- Create Proc sp\_rstrname
   As Begin
   Select RestaurantName,CuisinesType
   From Jomato Where TableBooking > 0
   End

Exec sp\_rstrname

	RestaurantName	CuisinesType
1	1131 Bar + Kitchen	Continental, Asian, Italian, North Indian
2	12th Main - Grand Mercure	European, Asian
3	154 Breakfast Club	Cafe, Continental
4	1722 Urban Bistro	North Indian, Chinese, Fast Food, Biryani
5	States	North Indian, Chinese, Continental
6	1Q1	Asian, Japanese, Thai, Malaysian, Vietnamese, Ko
7	20 Char - Sterlings MAC Hotel	Chinese, Continental, North Indian, South Indian,
8	20 Feet High	American, Continental, Steak, Salad
9	24/7 - The Lalit Ashok Bangalore	Continental, North Indian, Italian, Chinese
10	24@43 - The Oterra	North Indian, Asian, Continental
11	24th Main	North Indian, South Indian, Chinese
12	3B's - Buddies, Bar & Barbecues	North Indian, Mediterranean, European, BBQ
13	3G's - Gulp & Groove	Finger Food, Continental, Chinese
14	4 Seasons Restaurant	North Indian, Seafood, Middle Eastern, Chinese
15	46 Ounces Brewgarden	Bar Food, Finger Food, Pizza
16	55 Wall Street	Finger Food, North Indian, Chinese
17	70 Brigade - Iris Hotel	Chinese, North Indian, Pizza
18	AB's - Absolute Barbecues	European, Mediterranean, North Indian, BBQ
19	Agent Jack's Bar	Continental, North Indian, Italian
20	Aioli	Mediterranean, Continental, Italian, Salad
21	Ajwa Thalassery Biryani	Biryani, South Indian
22	Akkad Bakkad	North Indian, Chinese
23	Akss - India Reimagined	Modern Indian, North Indian
24	Alba - JW Marriott Bengaluru	Italian
25	Alchamy The Chancon Pavilion	Modern Indian

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

#### • Begin Transaction

Update Jomato Set CuisinesType = 'Cafeteria'

Select \* From Jomato Where CuisinesType = 'Cafeteria'

#### Rollback

Result	ts Messages							
'ld	RestaurantName	RestaurantType	Rating	No_of_Rating	AverageCost	OnlineOrder	TableBooking	CuisinesType
1	L-81 Cafe	Quick Bites	3.90000009536743	48	400	1	0	Cafeteria
2	refuel	Cafe	3.70000004768372	37	400	1	0	Cafeteria
3	Biryani Central	Casual Dining	2.70000004768372	135	550	1	0	Cafeteria
4	The Bbq	Casual Dining	2.79999995231628	40	700	1	0	Cafeteria
5	The Bbq	Takeaway, Delivery	3.40000009536743	37	200	0	0	Cafeteria
6	Italy	Casual Dining	4.09999990463257	305	700	1	0	Cafeteria
7	North Parontha Hut	Takeaway, Delivery	2.79999995231628	40	300	0	0	Cafeteria
8	1000 B.C	Quick Bites	3.20000004768372	49	300	1	0	Cafeteria
9	1Q1	Casual Dining	3.70000004768372	41	450	0	0	Cafeteria
10	11 to 11 Express	Quick Bites	3.5	22	300	1	0	Cafeteria
11	1131 Bar + Kitchen	Bar, Casual Dining	4.40000009536743	2861	1500	0	1	Cafeteria
12	12th Main - Gran	Fine Dining	4.09999990463257	353	2000	0	1	Cafeteria
13	1441 Pizzeria	Casual Dining	4.09999990463257	119	800	1	0	Cafeteria
14	1522 - The Pub	Pub	4.19999980926514	1731	1400	1	0	Cafeteria
15	154 Breakfast Club	Cafe	4	1509	900	1	1	Cafeteria
16	1722 Urban Bistro	Casual Dining	4.09999990463257	218	600	1	1	Cafeteria
17	18+ Ice Cafe	Cafe	3.5	24	550	0	0	Cafeteria
18	States	Casual Dining	3.90000009536743	620	1000	0	1	Cafeteria

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

With Rating As

 (
 Select distinct(Area), Rating From Jomato
 )

Select Top 5 Area From Rating Order By Rating Desc

Area
Bellandur
Old Airport Road
Byresandra, Tavarekere, Madiwala
Malleshwaram
Indiranagar

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

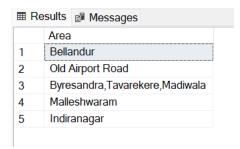
```
    Declare @val int = 1
        While @val <=50
        Begin
        Print @val
        Set @val = @val + 1
        End</li>
```

Messages	
1	
2	
3	
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23	
24	

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

```
Create View Top5Restr
As
With Rating As
(
Select distinct(Area),Rating From Jomato
)

Select Top 5 Area From Rating Order By Rating Desc
Select * From Top5Restr
```



Message

#### 6. Create a trigger that give an message whenever a new record is inserted.

```
    Create Trigger Tr_Insert
    On Jomato
    For Insert
    As
    Begin
    Declare @Id int
    Select @Id = OrderId From Jomato
    Insert into Tr_Msg (Message)
    Values('New Item Added At '+cast(GETDATE()as Varchar(20))+' Id Number Is '+cast(@Id as Varchar(20)))
    End
    insert into Jomato Values(8000,'Malabar Dines','Dining',2,100,1000,50,10,
    'Fast Food','Mahipalpur','Mahipalpur',60)

Select * From Tr_Msg

■ Results ■ Messages
```

New Item Added At Jan 23 2024 3:37AM Id Number ...