

# SQL ASSIGNMENT 2



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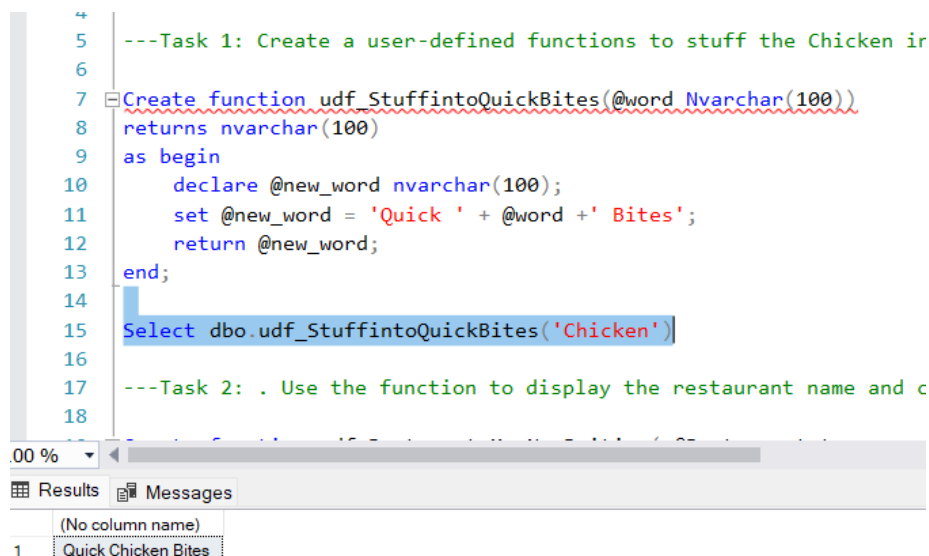
**Task: 1.** Create a user-defined function to stuff the Chicken into 'Quick Bites'. Eg: 'Quick Chicken Bites'

## Code:

```
Create function udf_StuffintoQuickBites(@word
Nvarchar(100))
returns nvarchar(100)
as begin
    declare @new_word nvarchar(100);
    set @new_word = 'Quick ' + @word + ' Bites';
    return @new_word;
end;

Select
dbo.udf_StuffintoQuickBites('Chicken')
```

## Result:

The screenshot shows the SQL Server Enterprise Manager interface. The top pane displays the SQL code for creating the function and executing it. The bottom pane shows the results of the execution. The function was successfully created and executed, returning the string 'Quick Chicken Bites'.

```
4
5 ---Task 1: Create a user-defined functions to stuff the Chicken ir
6
7 Create function udf_StuffintoQuickBites(@word Nvarchar(100))
8 returns nvarchar(100)
9 as begin
10     declare @new_word nvarchar(100);
11     set @new_word = 'Quick ' + @word + ' Bites';
12     return @new_word;
13 end;
14
15 Select dbo.udf_StuffintoQuickBites('Chicken')
16
17 ---Task 2: . Use the function to display the restaurant name and c
18
```

Results Messages

(No column name)
Quick Chicken Bites

**Task: 2.** Use the function to display the restaurant name and cuisine type which has the maximum number of rating.

## Code:

```
Create function udf_Resturant_MaxNo_Raiting(
@Restaurant_type varchar(100))
returns table
as return
(select Top 1
J.RestaurantName, J.CuisinesType
from Jomato as J
where J.RestaurantType=@Restaurant_type
order by J.No_of_Rating desc);
```

```
Select * from
dbo.udf_Resturant_MaxNo_Raiting('pub');
```

## Result:



The screenshot shows the SQL Server Enterprise Manager interface. The top pane displays the SQL code for creating the function and executing it. The bottom pane shows the results of the query, which is a table with two columns: RestaurantName and CuisinesType. The table contains one row with the value 'Monkey Bar' for RestaurantName and 'American, Asian, European, North Indian' for CuisinesType.

```
19 Create function udf_Resturant_MaxNo_Raiting( @Restaurant_type varchar(100))
20 returns table
21 as return
22 (select Top 1
23 J.RestaurantName, J.CuisinesType
24 from Jomato as J
25 where J.RestaurantType=@Restaurant_type
26 order by J.No_of_Rating desc);
27
28 Select * from dbo.udf_Resturant_MaxNo_Raiting('pub');
29
30 ---Task 3: Create a Rating Status column to display the rating as 'Excellent'
```

RestaurantName	CuisinesType
Monkey Bar	American, Asian, European, North Indian

**Task: 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 4 star rating, 'Average' if it is above 3 and below 3.5 and 'Bad' if it is below 3 star rating and

## Code:

```
Alter table Jomato add Rating_status varchar(50);
update Jomato set Rating_status =
    case
        when Rating > 4 then 'Excellent'
        when Rating > 3.5 AND Rating <= 4 then
            'Good'
        when Rating > 3 AND Rating <= 3.5 then
            'Average'
        when Rating <= 3 then 'Bad'
        else 'Unknown'
    end;

Select * from Jomato
```

## Result:

ng	CuisinesType	Area	LocalAddress	Delivery_time	Rating_status
	Fast Food, Beverages	Byresandra,Tavarekere,Madiwala	HSR	59	Good
	Cafe, Beverages	Bannerghatta Road	Bannerghatta Road	56	Good
	Biryani, Mughlai, Chinese	Marathahalli	Marathahalli	50	Bad
	BBQ, Continental, North Indian, Chinese, Beverages	Bellandur	Bellandur	57	Bad
	Mughlai, Biryani, Chinese, North Indian	Whitefield	Whitefield	63	Average
	Italian	Banashankari	Kumaraswamy Layout	56	Excellent
	North Indian	Indiranagar	Old Airport Road	53	Bad
	Arabian, Sandwich, Rolls, Burger	Byresandra,Tavarekere,Madiwala	Koramangala 5th Block	57	Average

**Task: 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.

## Code:

```
Select
CEILING(Rating) as Rating_Ceiling, FLOOR(Rating) as
Rating_Floor,
ABS(Rating) as Rating_Absolute,
convert(date,GETDATE()) as CurrentDate,
Year(Getdate()) as Year, Datename(Month,getdate())
as Month, Day(getdate()) as Day
from Jomato
```

## Result:

SQL Query Editor

```

47  --- TASK 4: Find the Ceil, floor and absolute values of the
48  ---display the current date and separately display the year
49
50  Select
51  CEILING(Rating) as Rating_Ceiling, FLOOR(Rating) as Rating_
52  ABS(Rating) as Rating_Absolute, convert(date,GETDATE()) as
53  Year(Getdate()) as Year, Datename(Month,getdate()) as Month
54  from Jomato
55

```

Results Messages

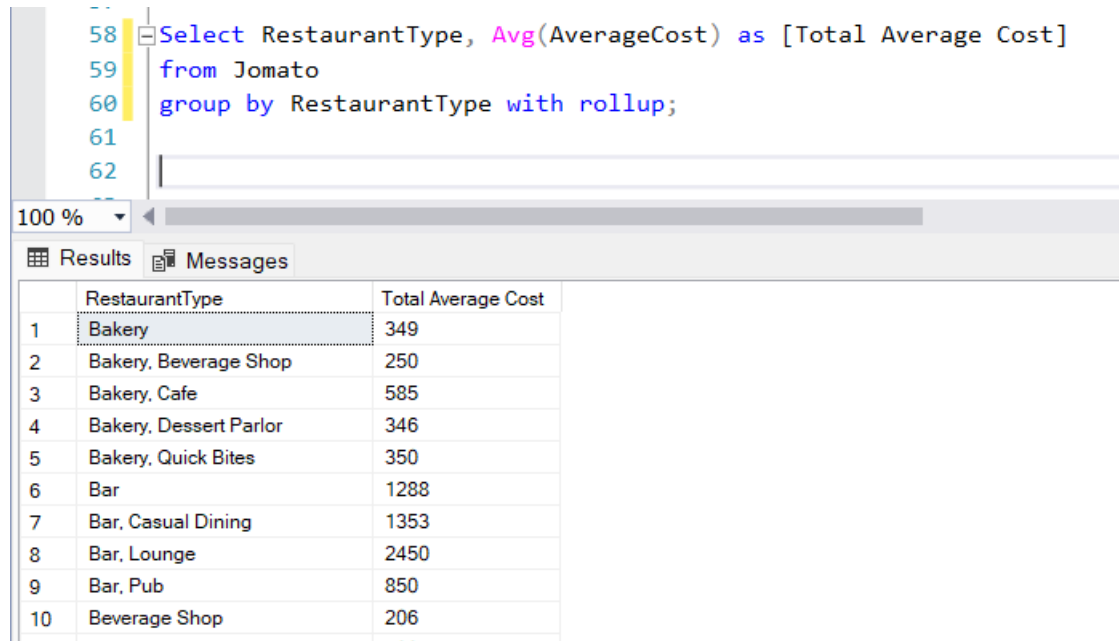
Rating_Ceiling	Rating_Floor	Rating_Absolute	CurrentDate	Year	Month	Day
4	3	3.90000009536743	2024-02-10	2024	February	10
4	3	3.70000004768372	2024-02-10	2024	February	10
3	2	2.70000004768372	2024-02-10	2024	February	10
3	2	2.79999995231628	2024-02-10	2024	February	10
4	3	3.40000009536743	2024-02-10	2024	February	10
5	4	4.09999990463257	2024-02-10	2024	February	10
3	2	2.79999995231628	2024-02-10	2024	February	10

**Task: 5.** Display the restaurant type and total average cost using rollup.

## Code:

```
Select RestaurantType,
Avg(AverageCost) as [Total Average Cost]
from Jomato
group by RestaurantType with rollup;
```

## Result:



	RestaurantType	Total Average Cost
1	Bakery	349
2	Bakery, Beverage Shop	250
3	Bakery, Cafe	585
4	Bakery, Dessert Parlor	346
5	Bakery, Quick Bites	350
6	Bar	1288
7	Bar, Casual Dining	1353
8	Bar, Lounge	2450
9	Bar, Pub	850
10	Beverage Shop	206