# SQL ASSIGNMENT 2


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**Submitted on**: 10/02/2024.

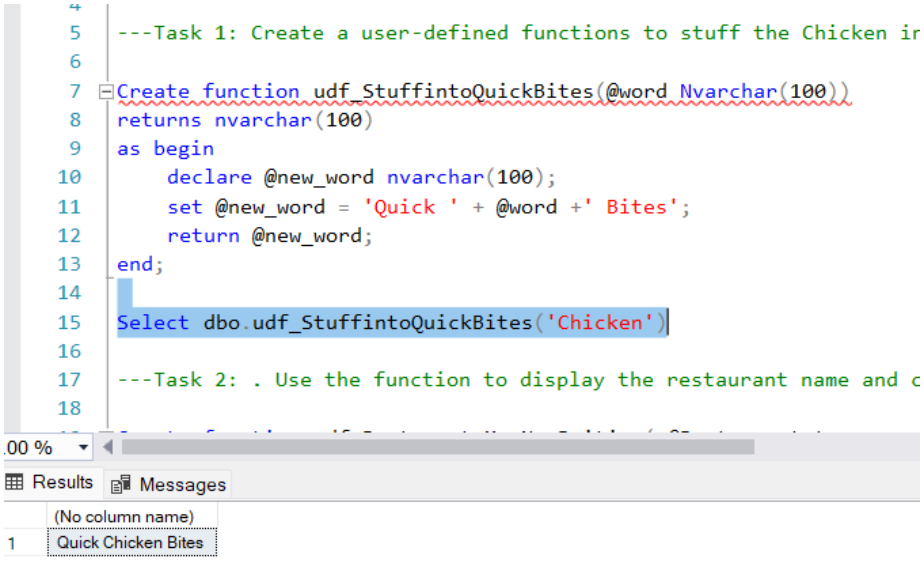
**Task:** 1. Create a user-defined function to stuff the Chicken into 'Quick Bites'.Eg: 'Quick Chicken Bites'

## 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:



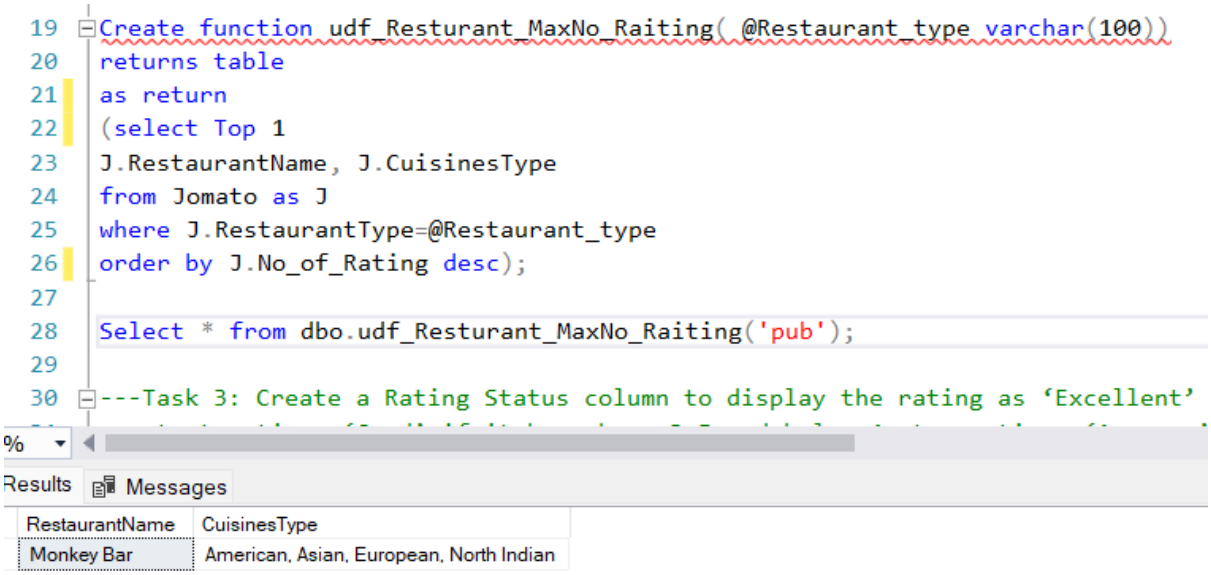
**Task:** 2. Use the function to display the restaurant name and cuisine type which has the maximum number of rating.

## 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:



**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:

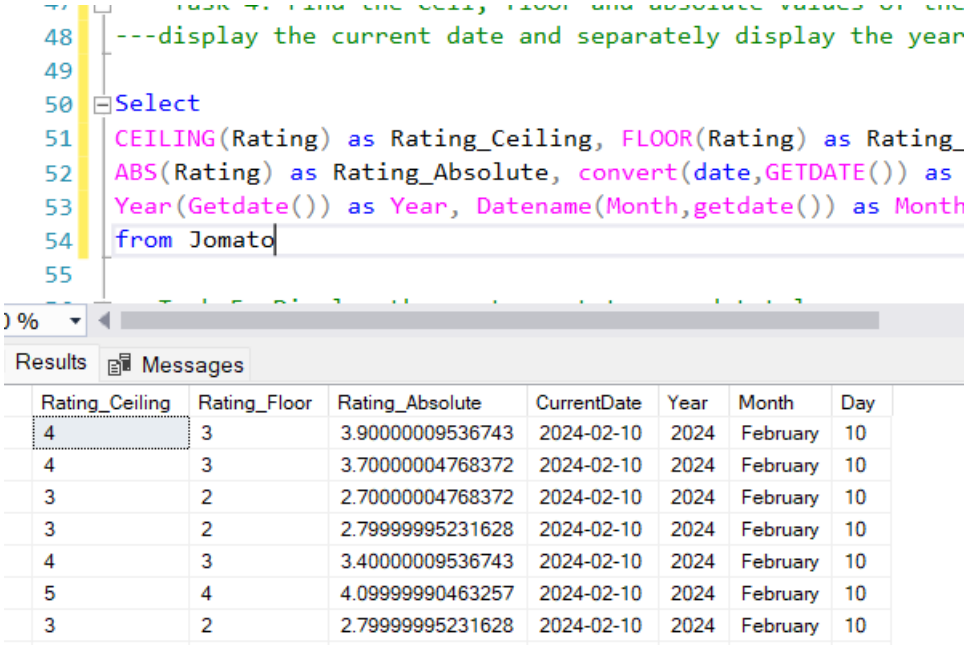
| ng | CuisinesType | Area | LocalAddress | Delivery_time | Rating_status |
|---|---|---|---|---|---|
| | Fast Food, Beverages | Byresandra,Tavarekere,Madiwala | HSR | 59 | Good |
| | Cafe, Beverages | Bannerghatta Road | Bannerghatta Road | 56 | Good |
| | Biryani, Mughlai, Chinese | Marathahalli | 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:



```
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:

```
58  Select RestaurantType, Avg(AverageCost) as [Total Average Cost]
59  from Jomato
60  group by RestaurantType with rollup;
61
62
```

100 %

Results | Messages

| | 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 |