

NIKET CHAKRABORTY ASSIGNMENT 2 ANSWER COPY

Task-1 MSSQL Query:

```
1) Create a user-defined functions to stuff the Chicken into 'Quick Bites'. Eg: 'Quick Chicken Bites'
CREATE FUNCTION DBO.FN_ChickenBites
(@InputString VARCHAR(MAX))
RETURNS VARCHAR(MAX)
AS
BEGIN
    DECLARE @OutputString VARCHAR(MAX)
    SET @OutputString = REPLACE(@InputString, 'Bites', 'Chicken Bites')
    RETURN @OutputString
END;

SELECT TOP 10
dbo.FN_ChickenBites(RestaurantType) AS ModifiedResType
FROM JomatoSales
WHERE RestaurantType = 'Quick Bites';
```

Task-1 Result:

	ModifiedResType
1	Quick Chicken Bites
2	Quick Chicken Bites
3	Quick Chicken Bites
4	Quick Chicken Bites
5	Quick Chicken Bites
6	Quick Chicken Bites
7	Quick Chicken Bites
8	Quick Chicken Bites
9	Quick Chicken Bites
10	Quick Chicken Bites

Task-2 MSSQL Query:

```
2) Use the function to display the restaurant name and cuisine type which has the maximum number of rating.

SELECT
    RestaurantName, CuisinesType
FROM JomatoSales
WHERE
    No_of_Rating = (SELECT MAX(No_of_Rating) FROM JomatoSales);
```

Task-2 Result:

	RestaurantName	CuisinesType
1	Byg Brewski Brewing Company	Continental, North Indian, Italian, South India...

Task-3 MSSQL Query:

```
3) Create a Rating Status column to display the rating as 'Excellent' if it has more
than 4 star rating, 'Good' if it has above 3.5 and below 4 star rating, 'Average'
if it above 3 star and below 3.5 star rating and 'Bad' if it is below 3 star rating
SELECT TOP 10
    ROUND(CAST(Rating AS FLOAT),2) AS Rating,
    RatingStatus =
    CASE
    WHEN Rating > 4 THEN 'Excellent'
    WHEN Rating BETWEEN 3.5 AND 4 THEN 'Good'
    WHEN Rating BETWEEN 3 AND 3.5 THEN 'Average'
    ELSE 'Bad'
    END
FROM JomatoSales;
```

Task-3 Result:

	Rating	RatingStatus
1	3.9	Good
2	3.7	Good
3	2.7	Bad
4	2.8	Bad
5	3.4	Average
6	4.1	Excellent
7	2.8	Bad
8	3.2	Average
9	3.7	Good
10	3.5	Good

Task-4 MSSQL Query:

```
4A) Find Ceil, floor and absolute values of the rating column
SELECT TOP 10
    ROUND(CAST(Rating AS FLOAT),2) AS Rating,
    CEILING(Rating) AS Ceil_Value,
    FLOOR(Rating) AS Floor_Value,
    ROUND(ABS(CAST(Rating AS FLOAT)),2) AS Absolute_Value
FROM JomatoSales;
```

```
4B) Display the current date and separately display the year
month_name and day
SELECT
    CONVERT(DATE, GETDATE()) AS CurrentDate,
    DATEPART(YEAR, GETDATE()) AS CurrentYear,
    DATENAME(MONTH, GETDATE()) AS Month_Name,
    DATEPART(DAY, GETDATE()) AS DayNum;
```

Task-4 Result:

Answer of 4A)

	Rating	Ceil_Value	Floor_Value	Absolute_Value
1	3.9	4	3	3.9
2	3.7	4	3	3.7
3	2.7	3	2	2.7
4	2.8	3	2	2.8
5	3.4	4	3	3.4
6	4.1	5	4	4.1
7	2.8	3	2	2.8
8	3.2	4	3	3.2
9	3.7	4	3	3.7
10	3.5	4	3	3.5

Answer of 4B)

	CurrentDate	CurrentYear	Month_Name	DayNum
1	2025-02-24	2025	February	24

Task-5 MSSQL Query:

```
5) Display the restaurant type and total average cost using roll up
SELECT
    RestaurantType,
    SUM(AverageCost) AS TotalAvgCost
FROM JomatoSales
GROUP BY ROLLUP(RestaurantType);
```

Task-5 Result:

	RestaurantType	TotalAvgCost
1	Bakery	53770
2	Bakery, Beverage Shop	250
3	Bakery, Cafe	4100
4	Bakery, Dessert Parlor	5200
5	Bakery, Quick Bites	6300
6	Bar	104400
7	Bar, Casual Dining	71750
8	Bar, Lounge	4900
9	Bar, Pub	850
10	Beverage Shop	24350
11	Beverage Shop, Cafe	500
12	Beverage Shop, Dessert Parlor	2050
13	Beverage Shop, Quick Bites	6700
14	Bhojanalya	300
15	Cafe	234150
16	Cafe, Bakery	6500
17	Cafe, Bar	1200
18	Cafe, Casual Dining	15500
19	Cafe, Dessert Parlor	10200
20	Cafe, Lounge	1000
21	Cafe, Quick Bites	4950
22	Casual Dining	1220950
23	Casual Dining, Bar	138650
24	Casual Dining, Cafe	26500
25	Casual Dining, Irani Cafee	1300
26	Casual Dining, Lounge	3700

	RestaurantType	TotalAvgCost
54	Lounge	102750
55	Lounge, Bar	9300
56	Lounge, Cafe	1600
57	Lounge, Casual Dining	11200
58	Lounge, Microbrewery	2000
59	Mess	12000
60	Microbrewery	9600
61	Microbrewery, Bar	1200
62	Microbrewery, Casual Dining	26800
63	Microbrewery, Lounge	1700
64	Microbrewery, Pub	13800
65	Pub	41150
66	Pub, Bar	2100
67	Pub, Casual Dining	32200
68	Pub, Microbrewery	10600
69	Quick Bites	860740
70	Quick Bites, Bakery	1450
71	Quick Bites, Beverage Shop	3450
72	Quick Bites, Cafe	1650
73	Quick Bites, Dessert Parlor	2550
74	Quick Bites, Food Court	200
75	Quick Bites, Meat Shop	350
76	Quick Bites, Mess	400
77	Quick Bites, Sweet Shop	2300
78	Sweet Shop	10550
79	Sweet Shop, Quick Bites	6600
80	Takeaway	4650
81	Takeaway, Delivery	111939
82	NULL	3807739