

ANIKET CHAKRABORTY ASSIGNMENT 3 ANSWER COPY

MSSQL Query – 1

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

```
CREATE PROC USP_FilterNonZeroBooking
@input BIT
AS
(
SELECT
    RestaurantName, RestaurantType, CuisinesType
FROM JomatoSales
WHERE TableBooking = @input
);

EXEC USP_FilterNonZeroBooking 1;
```

Answer – 1

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

MSSQL Query – 2

```
2) Create a transaction and update the cuisine type 'Cafe' to 'Cafeteria'
--- Check the result and rollback it
BEGIN TRANSACTION;

UPDATE JomatoSales
SET CuisinesType = 'Cafeteria'
WHERE CuisinesType = 'Cafe';

SELECT TOP 5 RestaurantName, RestaurantType, CuisinesType
FROM JomatoSales
WHERE CuisinesType = 'Cafeteria';

ROLLBACK TRANSACTION;

SELECT TOP 5 RestaurantName, RestaurantType, CuisinesType
FROM JomatoSales
WHERE CuisinesType = 'Cafe';
```

Answer – 2

Before Rollback

	RestaurantName	RestaurantType	CuisinesType
1	24 Hours Coffee Drop - La Classic	Cafe	Cafeteria
2	4th Tea Block	Cafe	Cafeteria
3	Alchemy Coffee Roasters	Cafe	Cafeteria
4	Art Cafe	Cafe	Cafeteria
5	Artville Cafe	Cafe	Cafeteria

After Rollback

	RestaurantName	RestaurantType	CuisinesType
1	24 Hours Coffee Drop - La Classic	Cafe	Cafe
2	4th Tea Block	Cafe	Cafe
3	Alchemy Coffee Roasters	Cafe	Cafe
4	Art Cafe	Cafe	Cafe
5	Artville Cafe	Cafe	Cafe

MSSQL Query – 3

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

SELECT TOP 5
    RestaurantName, Area, ROUND(CAST(Rating AS float),2) AS Rating,
    ROW_NUMBER()
    OVER(ORDER BY Rating DESC) AS RowNumber
FROM JomatoSales;
```

Answer – 3

	RestaurantName	Area	Rating	RowNumber
1	Asia Kitchen By Mainland China	Byresandra,Tavarekere,Madiwala	4.9	1
2	Byg Brewski Brewing Company	Bellandur	4.9	2
3	Sant?de?ed??ede??d??ede?ed???de??d??ede?ed??ede??...	Old Airport Road	4.9	3
4	Punjab Grill	Whitefield	4.8	4
5	The Pizza Bakery	Indiranagar	4.8	5

MSSQL Query – 4

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

```

DECLARE @StartNum INT = 1
WHILE @StartNum <= 50
BEGIN
PRINT @StartNum
SET @StartNum = @StartNum + 1
END;

```

Answer – 4

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34
35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

MSSQL Query – 5

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

```

CREATE VIEW VW_TopFiveRatedRestaurant
AS
SELECT TOP 5
    RestaurantName, Rating, No_of_Rating
FROM JomatoSales
ORDER BY Rating DESC, No_of_Rating DESC;

SELECT * FROM VW_TopFiveRatedRestaurant;

```

Answer – 5

	RestaurantName	Rating	No_of_Rating
1	Byg Brewski Brewing Company	4.9000000000	16345
2	Asia Kitchen By Mainland China	4.9000000000	2178
3	Sant?de?ed??ede??d??ede?ed???de??d??ede?ed??ede??...	4.9000000000	246
4	The Pizza Bakery	4.8000000000	1724
5	O.G. Variar & Sons	4.8000000000	1156

MSSQL Query – 6

6) Write a trigger that sends an email notification to the restaurant owner whenever a new record is inserted.

```
--- Audit table creation
CREATE TABLE AuditLog (
  LogId INT PRIMARY KEY IDENTITY(1,1),
  LogMessage VARCHAR(MAX),
  LogDate DATETIME DEFAULT GETDATE());

--- Create the Trigger as TG_Jomato_Insert
CREATE TRIGGER TG_Jomato_Insert ON JomatoSales
FOR INSERT
AS
BEGIN
  DECLARE @Name VARCHAR(100), @Place VARCHAR(100), @Rating FLOAT;
  SELECT
    @Name = RestaurantName , @Place = Area, @Rating = Rating FROM INSERTED;
  INSERT INTO AuditLog(LogMessage) VALUES
    ('Dear owner, a new restaurant named ' + @Name + ' is opened near ' + @Place +
    ' having a rating of ' + CAST(@Rating AS VARCHAR))
END;
```

```
--- Insert a new record in the JomatoSales table
INSERT INTO JomatoSales VALUES
(7105, 'Oasis', 'Casual Dinning', 4.2000000000, 1230, 365, 1, 0, 'All types',
'Park Street', 'Kolkata', '58');
INSERT INTO JomatoSales VALUES
(7106, 'DBapi Biryani House', 'Casual Dinning', 3.6000000000, 1030, 315,
1, 0, 'All types', 'Sodepur More', 'Kolkata', '52');

--- Check the AuditLog Table
SELECT * FROM AuditLog;
```

Answer – 6

	LogId	LogMessage	LogDate
1	1	Dear owner, a new restaurant named Oasis is opened near Park Streethaving a rating of 4.2	2025-02-25 19:29:00.317
2	2	Dear owner, a new restaurant named DBapi Biryani House is opened near Sodepur More having a rating of 3.6	2025-02-25 19:31:19.790