

SQL Mandatory Assignment 3

Dataset: Jomato

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 stored procedure to display the restaurant name, type and cuisine where the table booking is not zero.

```
CREATE PROC Non_zero_tables_Restaurants
as
(
select restaurant_name, type, cuisine from jomato where table_booking <> 0);
EXEC Non_zero_tables_Restaurants;
```

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

```
BEGIN TRANSACTION
update restaurants SET cuisine_type = 'Cafeteria' where cuisine_type = 'cafe'

select * from restaurants;

rollback transaction
```

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

```
--3. Generate a row number column and find the top 5 areas with the highest rating of restaurants.
WITH ranked_restaurants AS (
SELECT
    rating,
    ROW_NUMBER() OVER (ORDER BY rating DESC) AS row_num
FROM
    restaurants
)
SELECT
    rating
FROM
    ranked_restaurants
WHERE
    row_num <= 5;
```

100 %
Results Messages

	rating
1	5
2	4
3	3

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

```
WITH numbers AS (  
    SELECT 1 AS num  
    UNION ALL  
    SELECT num + 1  
    FROM numbers  
    WHERE num < 50  
)  
SELECT num FROM numbers;
```

100 %

Results Messages

	num
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12

Query executed successfully. SRINU (16.0 RTM) SRINU\hp (59)

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

```
CREATE VIEW TopRating AS  
SELECT TOP 5 *  
FROM Restaurants  
ORDER BY rating DESC;
```

100 %

Messages

Commands completed successfully.

Completion time: 2024-02-08T13:06:00.3395921+05:30

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

```
-- Step 1: Create the trigger  
CREATE TRIGGER trgAfterInsert  
ON restaurants  
AFTER INSERT  
AS  
BEGIN  
    -- Step 2: Use RAISERROR to raise a custom message  
    RAISERROR ('A new record has been inserted into the table.', 0, 1) WITH NOWAIT;  
END;
```

100 %

Messages

Commands completed successfully.

Completion time: 2024-02-08T13:07:55.9557578+05:30