SQL 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

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-- Assignment 3
-- Tasks Performed:
-- 1. Create a stored procedure to display the restaurant name, type and cuisine where
the table booking is not zero.
IF OBJECT_ID('GetRestaurantsWithTableBooking', 'P') IS NOT NULL
   DROP PROCEDURE GetRestaurantsWithTableBooking;
CREATE PROCEDURE GetRestaurantsWithTableBooking
BEGIN
    -- Display restaurant name, type, and cuisine where table booking is either 'Yes' or
'No'
   SELECT
        RestaurantName,
        RestaurantType,
       CuisinesType
   FROM
        Jomato$
   WHERE
        TableBooking IN ('Yes', 'No');
END;
CREATE PROCEDURE GetRestaurantsWithTableBooking
AS
BEGIN
    -- Display restaurant name, type, and cuisine with converted TableBooking values
   SELECT
        RestaurantName,
        RestaurantType,
        CuisinesType,
        CASE
            WHEN TableBooking = 'Yes' THEN 1
            WHEN TableBooking = 'No' THEN 0
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ELSE NULL -- Handle any other cases if needed
        END AS ConvertedTableBooking
   FROM
        Jomato$;
END;
EXEC GetRestaurantsWithTableBooking;
CREATE PROCEDURE GetRestaurantsWithTableBooking
BEGIN
    -- Display restaurant name, type, and cuisine where table booking is 'Yes' (1)
   SELECT
        RestaurantName,
        RestaurantType,
        CuisinesType
   FROM
        Jomato$
   WHERE
       CASE
            WHEN TableBooking = 'Yes' THEN 1
            ELSE 0
        END <> 0;
END;
-- 2. Create a transaction and update the cuisine type 'Cafe' to 'Cafeteria'. Check the
result and rollback it.
-- Start the transaction
BEGIN TRANSACTION;
-- Update the cuisine type 'Cafe' to 'Cafeteria'
UPDATE Jomato$
SET CuisinesType = 'Cafeteria'
WHERE CuisinesType = 'Cafe';
-- Commit the transaction (or rollback to undo the changes)
-- Uncomment either COMMIT or ROLLBACK as needed
-- COMMIT;
-- ROLLBACK;
-- Check the updated data
SELECT * FROM Jomato;
-- End the transaction
COMMIT;
-- 3. Generate a row number column and find the top 5 areas with the highest rating of
restaurants.
WITH RankedRestaurants AS (
   SELECT
        Area,
        RestaurantName,
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Rating,
        ROW NUMBER() OVER (PARTITION BY Area ORDER BY Rating DESC) AS RowNum
    FROM
        Jomato$
SELECT
    Area,
    RestaurantName,
    Rating
FROM
    RankedRestaurants
WHERE
    RowNum <= 5;
-- 4. Use the while loop to display the 1 to 50.
DECLARE @Counter INT = 1;
WHILE @Counter <= 50
BEGIN
    PRINT @Counter;
    SET @Counter = @Counter + 1;
END;
-- 5. Write a query to Create a Top rating view to store the generated top 5 highest
rating of restaurants.
CREATE VIEW TopRatingView AS
WITH RankedRestaurants AS (
    SELECT
        Area,
        RestaurantName,
        Rating,
        ROW_NUMBER() OVER (PARTITION BY Area ORDER BY Rating DESC) AS RowNum
    FROM
        Jomato$
SELECT
    Area,
    RestaurantName,
    Rating
FROM
    RankedRestaurants
WHERE
    RowNum <= 5;
SELECT * FROM TopRatingView;
-- 6. Write a trigger that sends an email notification to the restaurant owner whenever a
new record is inserted.
CREATE TRIGGER trgAfterInsert
ON Jomato$
AFTER INSERT
AS
BEGIN
    SET NOCOUNT ON;
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DECLARE @RestaurantName NVARCHAR(255);
    -- Assuming the restaurant owner's email is stored in the 'EmailAddress' column
   DECLARE @EmailAddress NVARCHAR(255);
   SELECT
       @RestaurantName = i.RestaurantName,
       @EmailAddress = i.EmailAddress -- Adjust this column name based on your schema
   FROM
        inserted i;
    -- Send email notification
    EXEC msdb.dbo.sp send dbmail
       @profile_name = 'YourMailProfile', -- Replace with your mail profile name
       @recipients = @EmailAddress,
       @subject = 'New Restaurant Record Inserted',
       @body = 'A new record has been inserted for the restaurant: ' + @RestaurantName;
END;
CREATE TRIGGER trgAfterInsert
ON Jomato$
AFTER INSERT
AS
BEGIN
   SET NOCOUNT ON;
   DECLARE @RestaurantName NVARCHAR(255);
   DECLARE @EmailAddress NVARCHAR(255);
       @RestaurantName = i.RestaurantName,
       @EmailAddress = i.EmailAddress
    FROM
       inserted i;
    -- Send email notification
   DECLARE @Subject NVARCHAR(255) = 'New Restaurant Record Inserted';
   DECLARE @Body NVARCHAR(MAX) = 'A new record has been inserted for the restaurant: ' +
@RestaurantName;
    EXEC msdb.dbo.sp_send_dbmail
       @profile_name = 'YourMailProfile', -- Replace with your mail profile name
        @recipients = @EmailAddress,
       @subject = @Subject,
       @body = @Body;
END;
ALTER TABLE Jomato$ ADD EmailAddress NVARCHAR(255);
```