## RDBMS Task 5

## Zomato App Answer

1. **Retrieve the names and locations of restaurants with a rating of 4.5 or higher.**

SELECT RestaurantID, Name, City, Rating FROM Restaurants WHERE Rating>=4.5

1. **Find the total number of orders placed by each customer.**

SELECT c.CustomerID, CONCAT(c.FirstName,' ',c.LastName), COUNT(o.OrderID) AS Order\_Count FROM Customers c LEFT JOIN Orders o ON c.CustomerID=o.CustomerID GROUP BY c.CustomerID ORDER BY Order\_Count DESC

1. **List all restaurants offering "Italian" cuisine in "Mumbai"**

SELECT RestaurantID, Name, City, CuisineType, Rating FROM Restaurants WHERE CuisineType='Italian' AND City='Mumbai'

1. **Calculate the total revenue generated by each restaurant from completed orders.**

SELECT r.RestaurantID, r.Name, r.City, SUM(o.OrderAmount), o.OrderStatus FROM Restaurants r JOIN Orders o ON r.RestaurantID=o.RestaurantID WHERE o.OrderStatus='Delivered' GROUP BY r.RestaurantID

1. **Retrieve the most recent order placed by each customer.**

SELECT c.FirstName, c.LastName, o.OrderID, o.OrderDate o.OrderAmount, o.OrderStatus FROM Customers c JOIN Orders o ON c.CustomerID = o.CustomerID WHERE o.OrderDate = (SELECT MAX(OrderDate) FROM Orders WHERE CustomerID = c.CustomerID);

1. **List customers who have not placed any orders yet.**

SELECT c.CustomerID, CONCAT(c.FirstName,' ', c.LastName) as CustomerName, City FROM Customers c LEFT JOIN Orders o ON c.CustomerID=o.CustomerID WHERE o.CustomerID IS NULL

1. **Identify the most reviewed restaurants.**

SELECT r.Name AS RestaurantName,COUNT(rv.ReviewID) AS ReviewCount FROM Restaurants r JOIN Reviews rv ON r.RestaurantID = rv.RestaurantID GROUP BY r.RestaurantID, r.Name ORDER BY ReviewCount DESC

1. **Find the most preferred payment method.**

SELECT DISTINCT PaymentMethod, COUNT(PaymentID) as Payment\_count FROM Payments GROUP BY PaymentMethod ORDER BY Payment\_count DESC

1. **List the top 5 restaurants by total revenue**

SELECT r.RestaurantID, r.Name,SUM(o.OrderAmount) as TotalRevenue FROM Restaurants r JOIN Orders o ON r.RestaurantID=o.RestaurantID WHERE o.OrderStatus='Delivered' GROUP BY r.RestaurantID Order BY TotalRevenue DESC LIMIT 5

1. **Show the details of all cancelled orders along with the customer's and restaurant's names.**

SELECT o.OrderID, CONCAT(c.FirstName, ' ', c.LastName) as CustomerName, r.Name, r.City, o.OrderDate,o.OrderAmount, o.OrderStatus FROM Orders o JOIN Restaurants r ON r.RestaurantID=o.RestaurantID JOIN Customers c ON c.CustomerID=o.CustomerID WHERE o.OrderStatus='Cancelled'