**RDBMS Task#5**

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

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

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

SELECT CustomerID, COUNT(OrderID) AS TotalOrders FROM Orders

GROUP BY CustomerID;

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

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

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

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

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

SELECT o.CustomerID, o.OrderID, o.OrderDate, o.OrderAmount FROM Orders o WHERE o.OrderDate IN ( SELECT MAX(OrderDate) FROM Orders WHERE CustomerID = o.CustomerID)ORDER BY o.CustomerID;

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

SELECT c.CustomerID, c.FirstName, c.LastName FROM Customers c LEFT JOIN Orders o ON c.CustomerID = o.CustomerID WHERE o.OrderID IS NULL;

1. Identify the most reviewed restaurant.

SELECT r.Name, COUNT(rv.ReviewID) AS ReviewCount FROM Reviews rv JOIN Restaurants r ON rv.RestaurantID = r.RestaurantID GROUP BY r.Name ORDER BY ReviewCount DESC LIMIT 1;

1. Find the most preferred payment method.

SELECT PaymentMethod, COUNT(PaymentID) AS PaymentCount FROM Payments GROUP BY PaymentMethod ORDER BY PaymentCount DESC LIMIT 1;

1. List the top 5 restaurants by total revenue.

SELECT r.Name, SUM(o.OrderAmount) AS TotalRevenue FROM Orders o JOIN Restaurants r ON o.RestaurantID = r.RestaurantID WHERE o.OrderStatus = 'Delivered' GROUP BY r.Name 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, o.OrderDate, o.OrderAmount, o.OrderStatus, c.FirstName, c.LastName, r.Name AS RestaurantName FROM Orders o JOIN Customers c ON o.CustomerID = c.CustomerID JOIN Restaurants r ON o.RestaurantID = r.RestaurantID

WHERE o.OrderStatus = 'Cancelled';