Assignment_07_08_09

1. **Count all orders for October 3:**

   ```
   SELECT COUNT(*) FROM Orders WHERE OrderDate = '2024-10-03';
   ```

2. **Count the number of different non-NULL city values in the Customers table:**

   ```
   SELECT COUNT(DISTINCT City) FROM Customers WHERE City IS NOT NULL;
   ```

3. **Select each customer's smallest order:**

   ```
   SELECT CustomerID, MIN(OrderAmount) FROM Orders GROUP BY CustomerID;
   ```

4. **Select the first customer, in alphabetical order, whose name begins with G:**

   ```
   SELECT CustomerName FROM Customers WHERE CustomerName LIKE 'G%' ORDER BY CustomerName LIMIT 1;
   ```

5. **Select the highest rating in each city:**

   ```
   SELECT City, MAX(Rating) FROM Customers GROUP BY City;
   ```

6. **Count the number of salespeople registering orders for each day:**

   ```
   SELECT OrderDate, COUNT(DISTINCT SalespersonID) FROM Orders GROUP BY OrderDate;
   ```

Assignment_08

1. **Count all orders for October 3:**

   ```
   SELECT COUNT(*) FROM Orders WHERE OrderDate = '2024-10-03';
   ```

2. **Count the number of different non-NULL city values in the Customers table:**

   ```
   SELECT COUNT(DISTINCT City) FROM Customers WHERE City IS NOT NULL;
   ```

3. **Select each customer's smallest order:**

   ```
   SELECT CustomerID, MIN(OrderAmount) FROM Orders GROUP BY CustomerID;
   ```

4. **Select the first customer, in alphabetical order, whose name begins with G:**

   ```
   SELECT CustomerName FROM Customers WHERE CustomerName LIKE 'G%' ORDER BY CustomerName LIMIT 1;
   ```

5. **Select the highest rating in each city:**

   ```
   SELECT City, MAX(Rating) FROM Customers GROUP BY City;
   ```

6. **Count the number of salespeople registering orders for each day (count each salesperson only once per day):**

   ```
   SELECT OrderDate, COUNT(DISTINCT SalespersonID) FROM Orders GROUP BY OrderDate;
   ```

Assignment_09

1. **List each order number followed by the name of the customer who made the order:**

```
SELECT Orders.OrderNumber, Customers.CustomerName
FROM Orders
JOIN Customers ON Orders.CustomerID = Customers.CustomerID;
```

2. **Give the names of both the salesperson and the customer for each order along with the order number:**

```
SELECT Orders.OrderNumber, Customers.CustomerName, Salespeople.SalespersonName
FROM Orders
JOIN Customers ON Orders.CustomerID = Customers.CustomerID
JOIN Salespeople ON Orders.SalespersonID = Salespeople.SalespersonID;
```

3. **Produce all customers serviced by salespeople with a commission above 12% (Output the customer's name, the salesperson's name, and the salesperson's rate of commission):**

```
SELECT Customers.CustomerName, Salespeople.SalespersonName, Salespeople.CommissionRate
FROM Customers
JOIN Orders ON Customers.CustomerID = Orders.CustomerID
JOIN Salespeople ON Orders.SalespersonID = Salespeople.SalespersonID
WHERE Salespeople.CommissionRate > 12;
```

4. **Calculate the amount of the salesperson's commission on each order by a customer with a rating above 100:**

```
SELECT Orders.OrderNumber,
       (Orders.OrderAmount * Salespeople.CommissionRate / 100) AS CommissionAmount
FROM Orders
JOIN Customers ON Orders.CustomerID = Customers.CustomerID
JOIN Salespeople ON Orders.SalespersonID = Salespeople.SalespersonID
WHERE Customers.Rating > 100;
```