**📘 Day 37 – SQL 100 Days Challenge**

**Dataset: E-commerce Orders & Customer Behaviour**

**Tables & Sample Data**

1. **Customers**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| CustomerID | Name | Age | Country | Gender |
| 1 | Aarav Mehta | 28 | India | Male |
| 2 | Sophia Johnson | 35 | USA | Female |
| 3 | Wei Chen | 42 | China | Male |
| 4 | Maria Gonzalez | 30 | Spain | Female |
| 5 | David Smith | 50 | UK | Male |

1. **Orders**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| OrderID | CustomerID | OrderDate | OrderAmount | OrderStatus |
| 101 | 1 | 2024-06-10 | 250.00 | Completed |
| 102 | 2 | 2024-06-12 | 450.00 | Cancelled |
| 103 | 3 | 2024-06-15 | 300.00 | Completed |
| 104 | 4 | 2024-06-18 | 700.00 | Returned |
| 105 | 5 | 2024-06-20 | 200.00 | Completed |
| 106 | 1 | 2024-07-01 | 600.00 | Completed |
| 107 | 2 | 2024-07-05 | 150.00 | Completed |
| 108 | 3 | 2024-07-10 | 900.00 | Cancelled |

1. **Products**

|  |  |  |  |
| --- | --- | --- | --- |
| ProductID | ProductName | Category | Price |
| 201 | Laptop | Electronics | 800.00 |
| 202 | Headphones | Electronics | 150.00 |
| 203 | Shoes | Fashion | 120.00 |
| 204 | Watch | Fashion | 300.00 |
| 205 | Microwave | Home Appliances | 400.00 |

1. **OrderDetails**

|  |  |  |  |
| --- | --- | --- | --- |
| OrderDetailID | OrderID | ProductID | Quantity |
| 301 | 101 | 201 | 1 |
| 302 | 101 | 202 | 2 |
| 303 | 103 | 203 | 1 |
| 304 | 104 | 204 | 1 |
| 305 | 105 | 205 | 1 |
| 306 | 106 | 201 | 1 |
| 307 | 106 | 203 | 2 |
| 308 | 107 | 202 | 1 |
| 309 | 108 | 201 | 1 |

**Practice Questions (Day 37)**

1. **List all customers with their latest order date.**
2. **Find the total revenue generated from "Electronics" category.**
3. **Get the customers who have placed more than 2 orders.**
4. **Find the average order amount per customer.**
5. **Retrieve the top 2 highest-value orders.**
6. **List customers who have never placed a completed order.**
7. **Calculate category-wise total sales.**
8. **Show the month with the highest total revenue.**
9. **Find customers whose all orders are completed.**
10. **Rank products by sales quantity (highest to lowest).**

**🔹 Bonus Challenge:  
Find the percentage of cancelled orders for each customer.**