**📘 Day 42 – SQL Challenge (Intermediate–Advanced)**

**Dataset: E-Commerce Transactions & Returns**

**Table: Orders**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **OrderID** | **CustomerID** | **OrderDate** | **Amount** | **Status** | **PaymentMethod** |
| 1 | 101 | 2022-01-15 | 250 | Delivered | UPI |
| 2 | 102 | 2022-01-20 | 400 | Cancelled | CreditCard |
| 3 | 101 | 2022-02-05 | 600 | Delivered | Wallet |
| 4 | 103 | 2022-02-10 | 1200 | Returned | UPI |
| 5 | 104 | 2022-03-01 | 900 | Delivered | NetBanking |
| 6 | 105 | 2022-03-05 | 300 | Delivered | UPI |
| 7 | 101 | 2022-04-01 | 1100 | Delivered | CreditCard |
| 8 | 106 | 2022-04-05 | 700 | Delivered | Wallet |
| 9 | 102 | 2022-04-20 | 450 | Returned | UPI |
| 10 | 107 | 2022-05-02 | 2000 | Delivered | UPI |

**Table: Customers**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CustomerID** | **Name** | **Region** | **SignupDate** | **IsPrime** |
| 101 | Alice | South | 2021-05-01 | 1 |
| 102 | Bob | North | 2021-07-10 | 0 |
| 103 | Charlie | West | 2021-06-15 | 1 |
| 104 | Diana | East | 2021-08-20 | 0 |
| 105 | Ethan | South | 2021-10-05 | 1 |
| 106 | Fiona | North | 2021-12-01 | 0 |
| 107 | George | West | 2022-01-01 | 1 |

**❓ Day 41 Questions (Intermediate–Advanced)**

1. Write a query to get **total revenue per region**, excluding cancelled and returned orders.
2. Find the **top 2 customers with the highest total spending**.
3. Identify the **% of prime customers in each region**.
4. Retrieve customers who have **only placed returned/cancelled orders**.
5. Using a **window function**, calculate the **running total revenue per customer** ordered by date.
6. Find the **average order value (AOV)** for prime vs non-prime customers.
7. Identify the **month with the highest total revenue** (exclude cancelled/returned).
8. Show the **customer who placed the maximum single order** (highest Amount).
9. Write a query to get **repeat customers** (those who placed more than 1 order).
10. **Bonus Challenge 🎯**: Write a query to rank **regions by total revenue contribution** and display revenue share % using **CTE + window functions**.