SQL JOINS: SNOWFLAKE

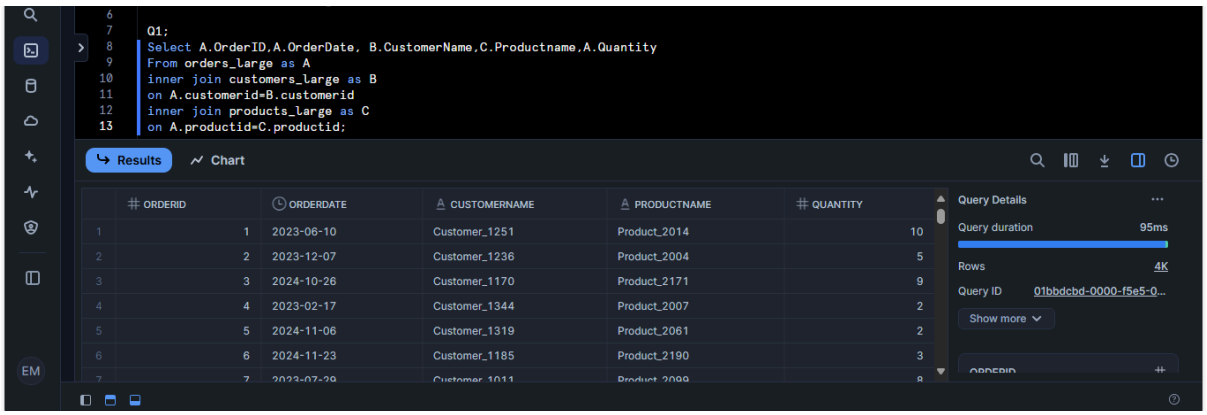
1. INNER JOIN: Orders with Customer and Product Names

Question:

List all orders along with the customer name and product name.

Expected Output Columns:

- OrderID, OrderDate, CustomerName, ProductName, Quantity



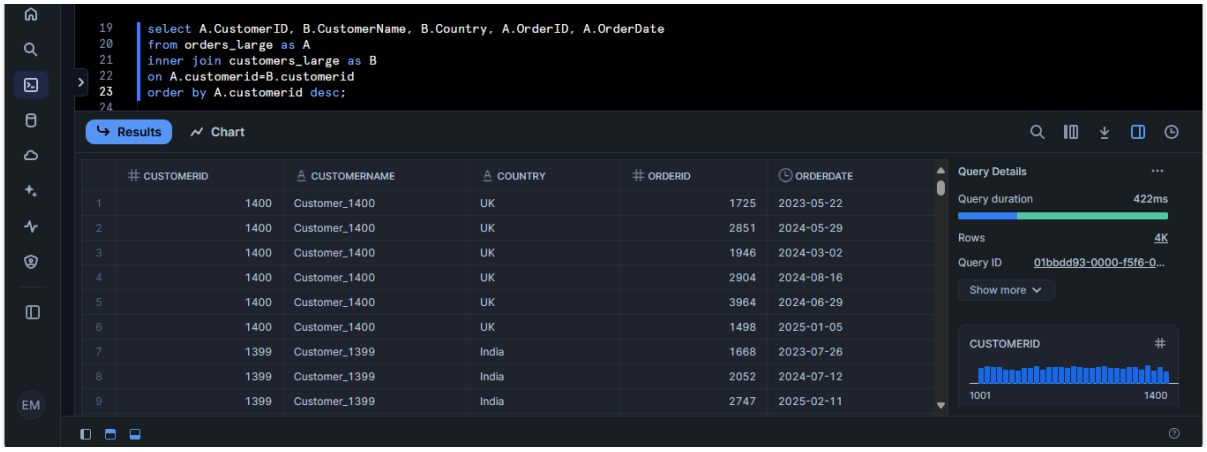
2. INNER JOIN: Customers Who Placed Orders

Question:

Which customers have placed at least one order?

Expected Output Columns:

- CustomerID, CustomerName, Country, OrderID, OrderDate



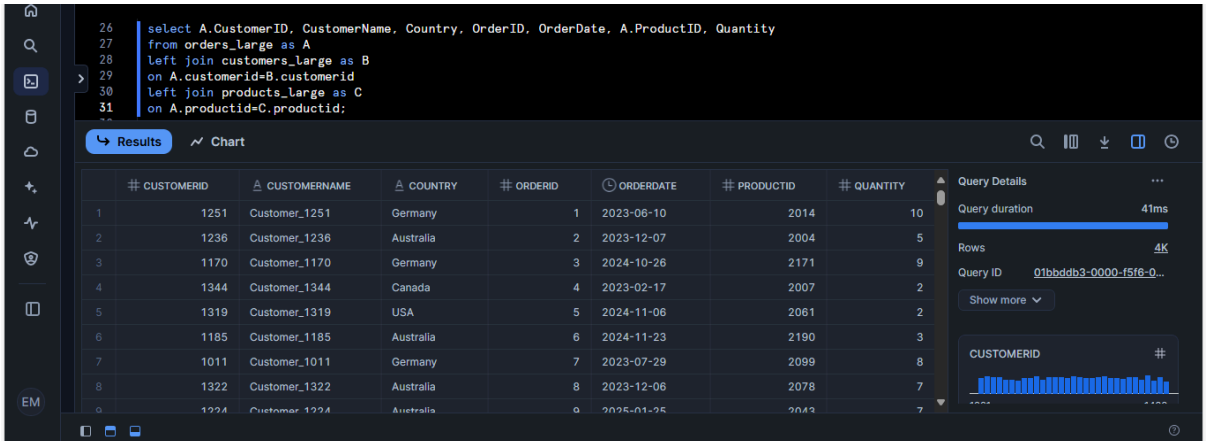
3. LEFT JOIN: All Customers and Their Orders

Question:

List all customers and any orders they might have placed. Include customers who have not placed any orders.

Expected Output Columns:

- CustomerID, CustomerName, Country, OrderID, OrderDate, ProductID, Quantity



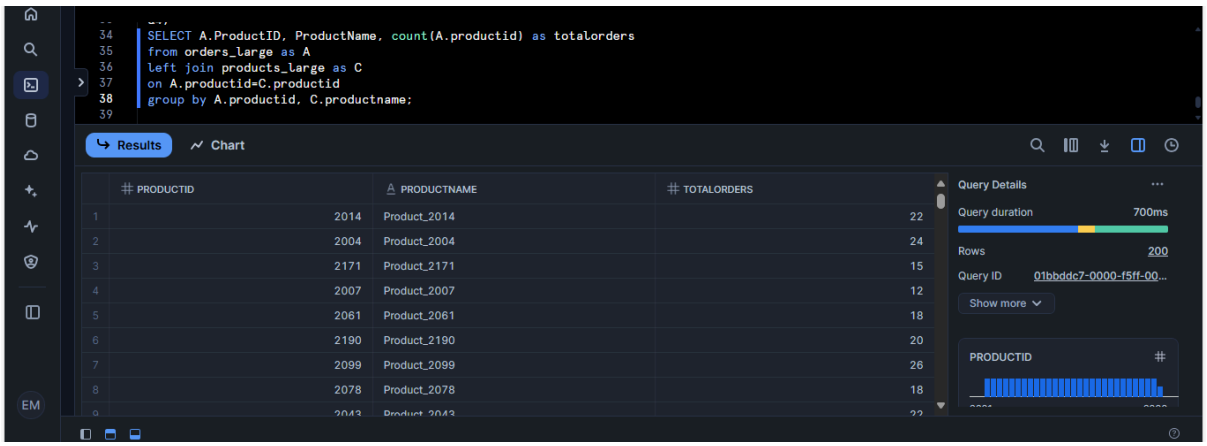
4. LEFT JOIN: Product Order Count

Question:

List all products and how many times each was ordered (if any).

Expected Output Columns:

- ProductID, ProductName, TotalOrders (TotalOrders is the count of how many times the product appears in orders)



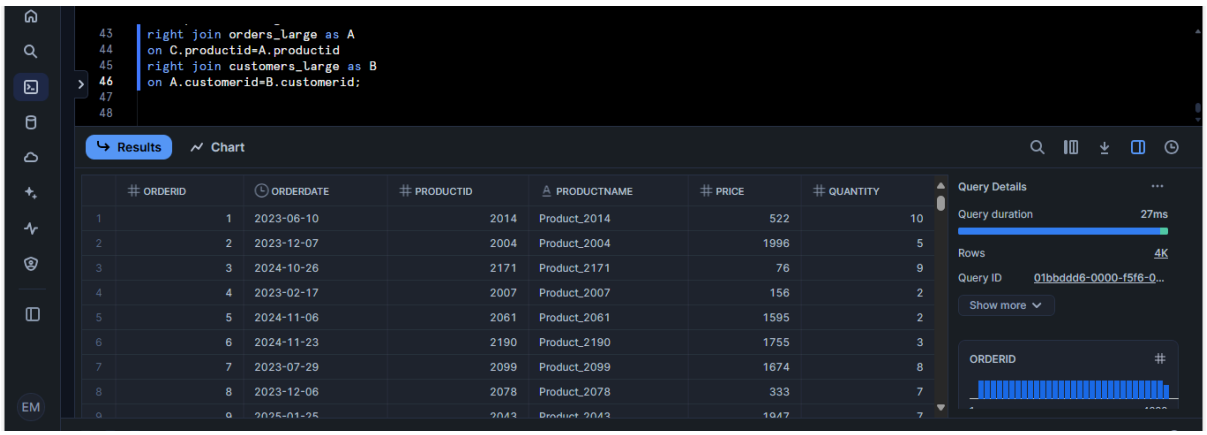
5. RIGHT JOIN: Orders with Product Info (Include Products Not Ordered)

Question:

Find all orders along with product details, including any products that might not have been ordered.

Expected Output Columns:

• OrderID, OrderDate, ProductID, ProductName, Price, Quantity



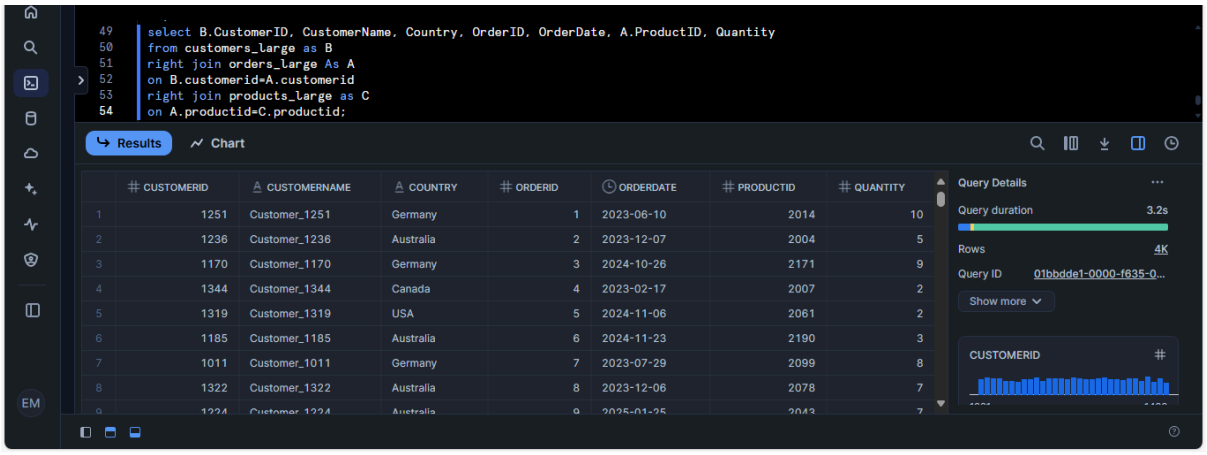
6. RIGHT JOIN: Customer Info with Orders (Include All Customers)

Question:

Which customers have made orders, and include customers even if they have never placed an order.

Expected Output Columns:

• CustomerID, CustomerName, Country, OrderID, OrderDate, ProductID, Quantity



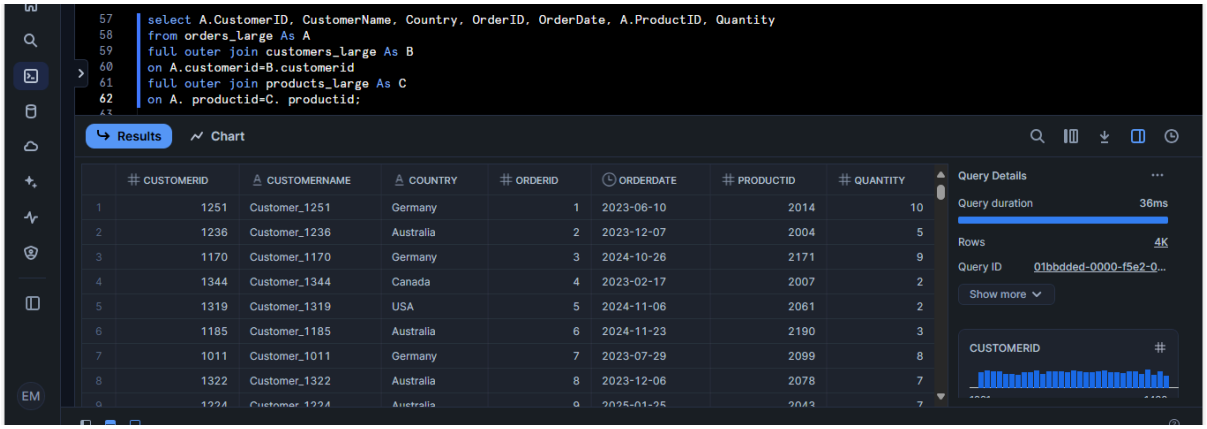
7. FULL OUTER JOIN: All Customers and All Orders

Question:

List all customers and orders, showing NULLs where customers have not ordered or where orders have no customer info.

Expected Output Columns:

- CustomerID, CustomerName, Country, OrderID, OrderDate, ProductID, Quantity



8. FULL OUTER JOIN: All Products and Orders

Question:

List all products and orders, showing NULLs where products were never ordered or orders are missing product info.

Expected Output Columns:

- ProductID, ProductName, Price, OrderID, OrderDate, CustomerID, Quantity