Task 6

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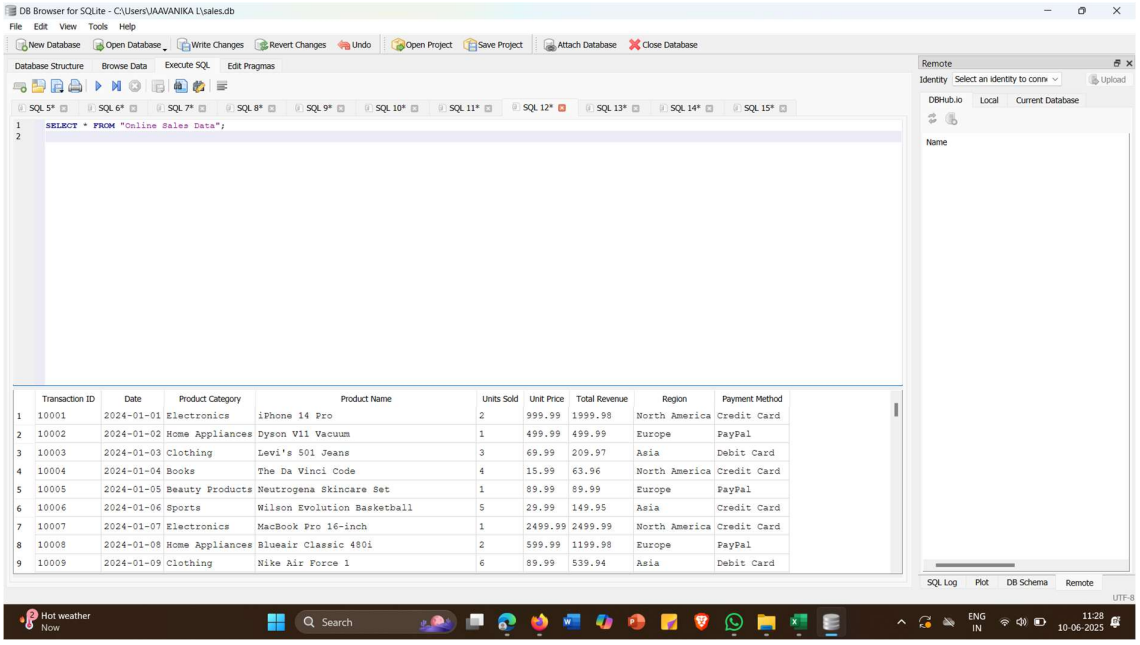
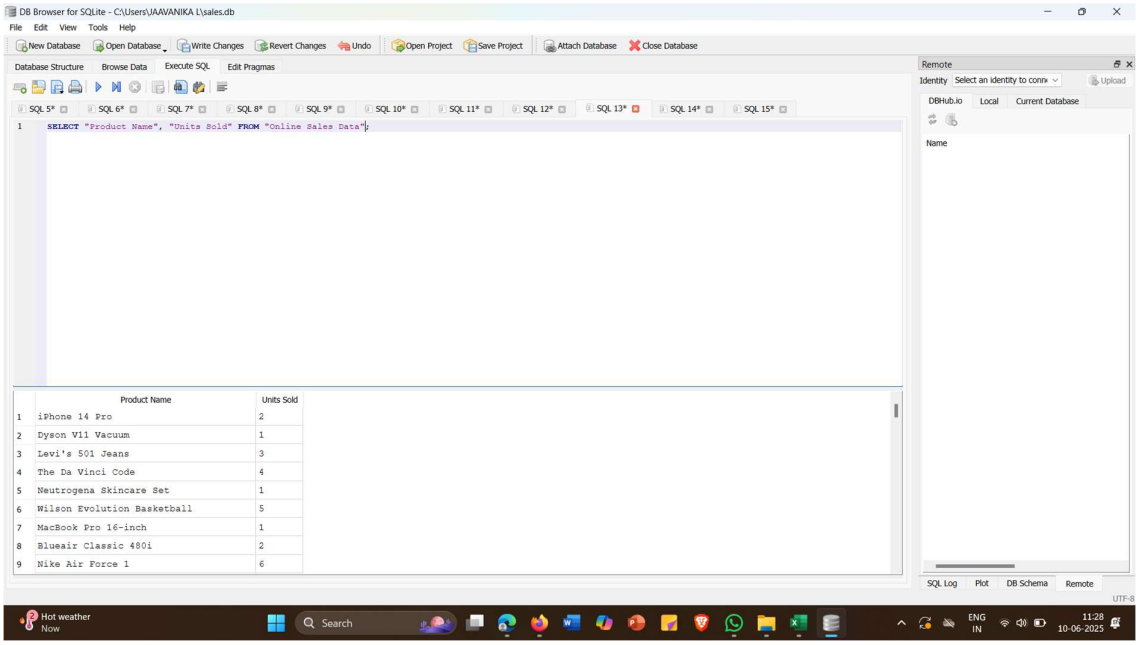
Part 1: Basic SQL Queries (SQLite Friendly)

1.Show all rows from the table



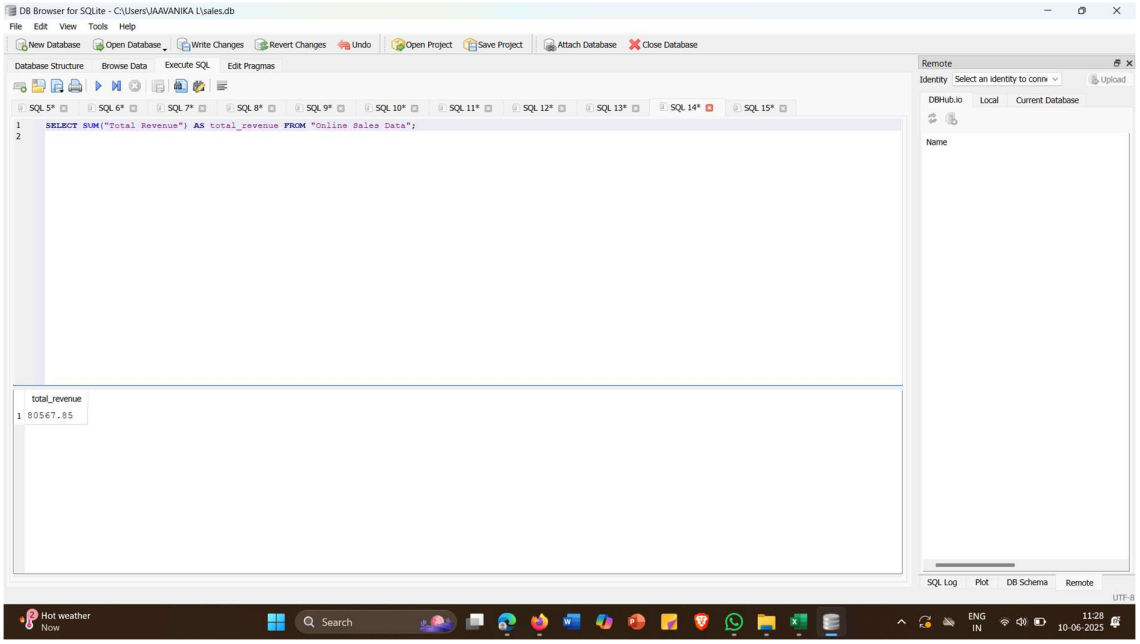
	Transaction ID	Date	Product Category	Product Name	Units Sold	Unit Price	Total Revenue	Region	Payment Method
1	10001	2024-01-01	Electronics	iPhone 14 Pro	2	999.99	1999.98	North America	Credit Card
2	10002	2024-01-02	Home Appliances	Dyson V11 Vacuum	1	499.99	499.99	Europe	PayPal
3	10003	2024-01-03	Clothing	Levi's 501 Jeans	3	69.99	209.97	Asia	Debit Card
4	10004	2024-01-04	Books	The Da Vinci Code	4	15.99	63.96	North America	Credit Card
5	10005	2024-01-05	Beauty Products	Neutrogena Skincare Set	1	89.99	89.99	Europe	PayPal
6	10006	2024-01-06	Sports	Wilson Evolution Basketball	5	29.99	149.95	Asia	Credit Card
7	10007	2024-01-07	Electronics	MacBook Pro 16-inch	1	2499.99	2499.99	North America	Credit Card
8	10008	2024-01-08	Home Appliances	Blueair Classic 480i	2	599.99	1199.98	Europe	PayPal
9	10009	2024-01-09	Clothing	Nike Air Force 1	6	89.99	539.94	Asia	Debit Card

2. Show only Product Name and Units Sold

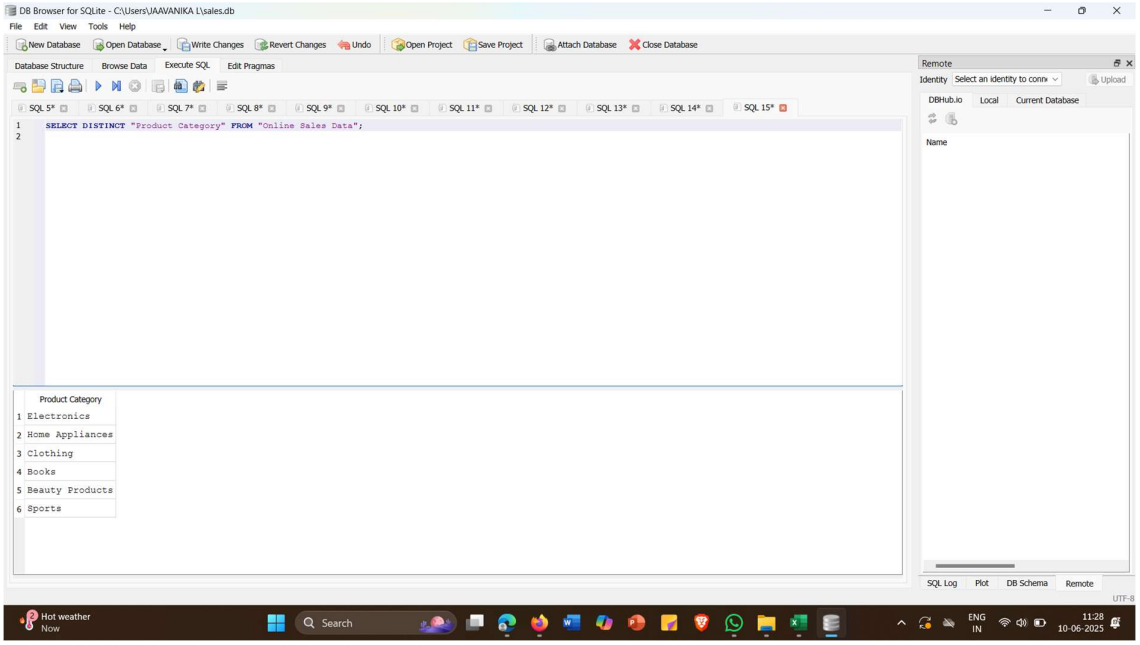


	Product Name	Units Sold
1	iPhone 14 Pro	2
2	Dyson V11 Vacuum	1
3	Levi's 501 Jeans	3
4	The Da Vinci Code	4
5	Neutrogena Skincare Set	1
6	Wilson Evolution Basketball	5
7	MacBook Pro 16-inch	1
8	Blueair Classic 480i	2
9	Nike Air Force 1	6

3. Show total revenue of all transactions

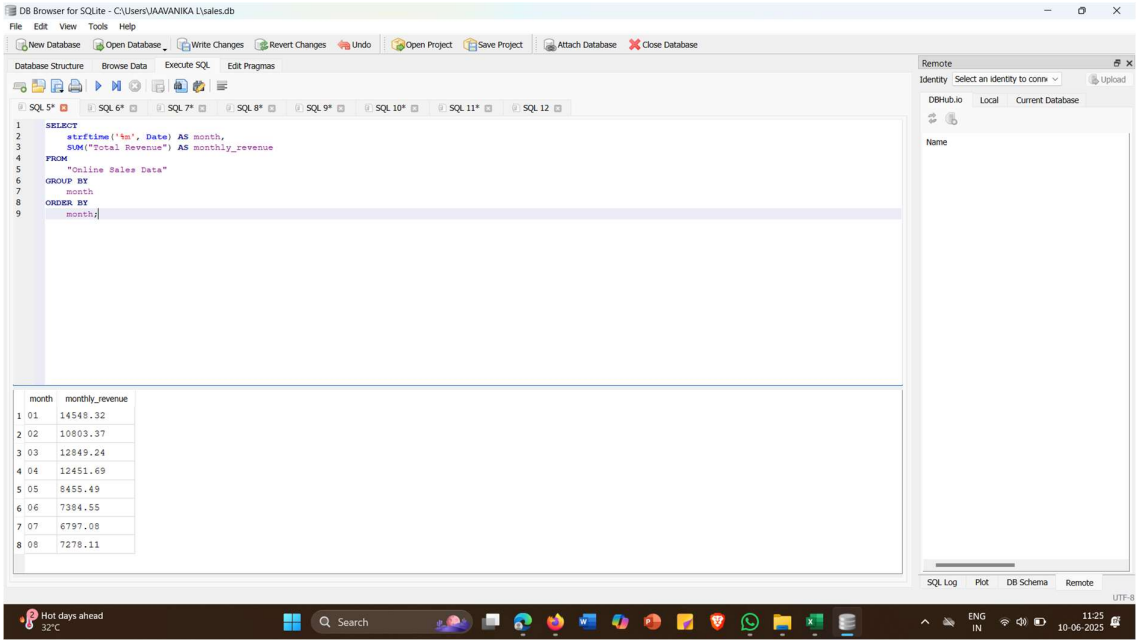


4. Show unique product categories

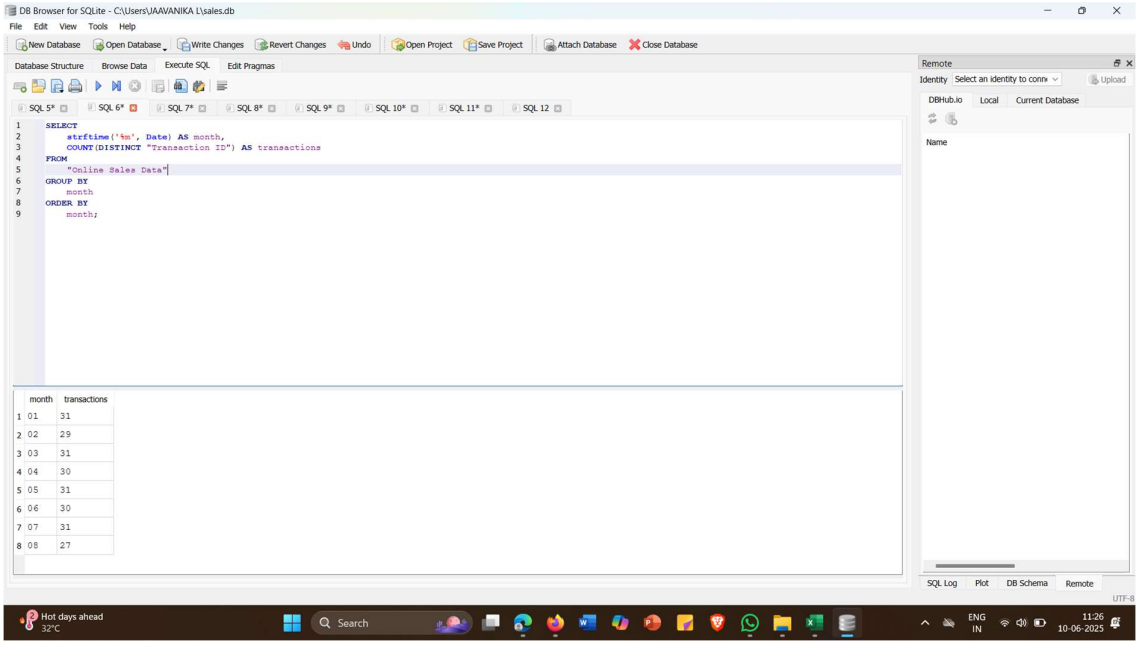


Part 2: Business Insights Queries (MySQL / SQLite)

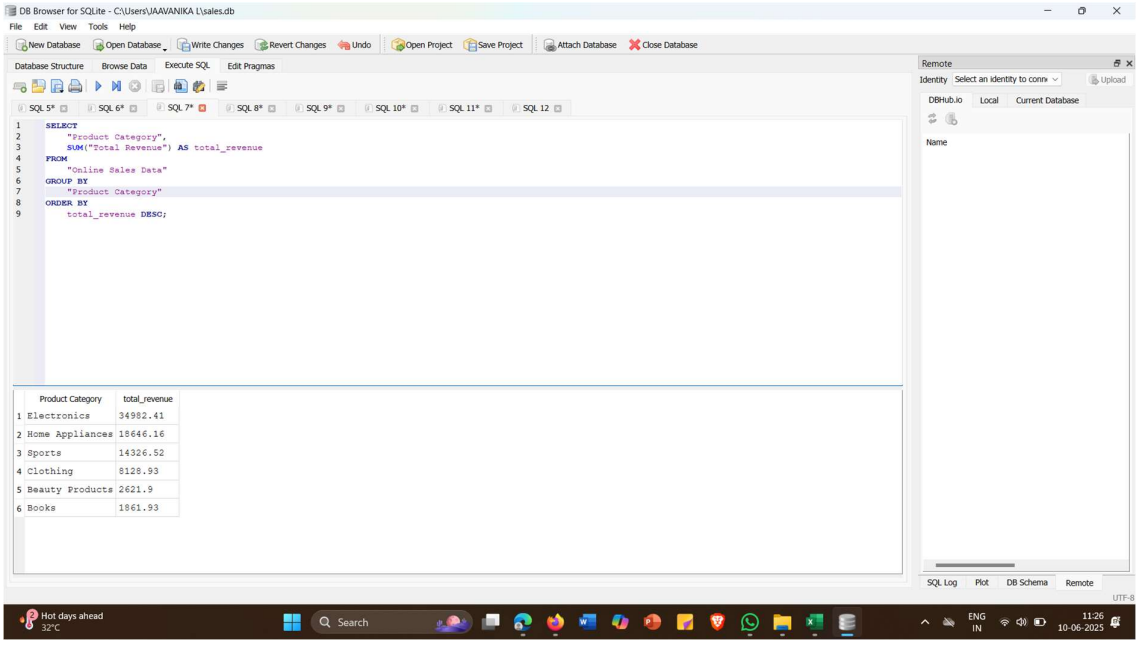
1.Use strftime('%m', Date) for month (SQLite equivalent of EXTRACT(MONTH FROM Date))



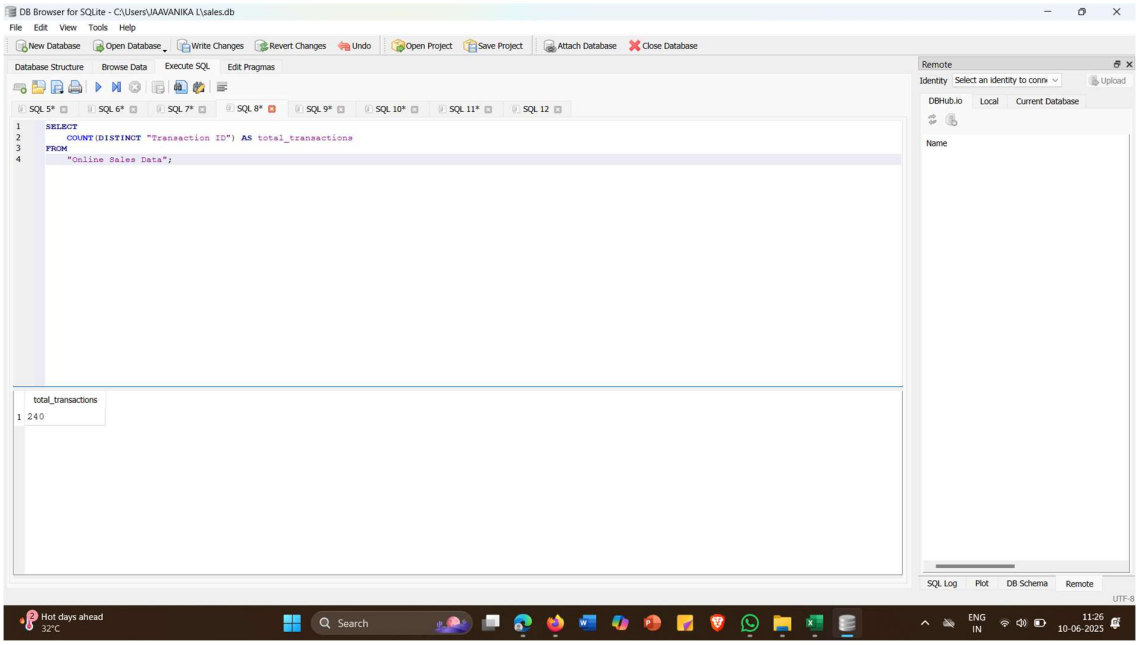
2. GROUP BY month (Transaction volume by month)



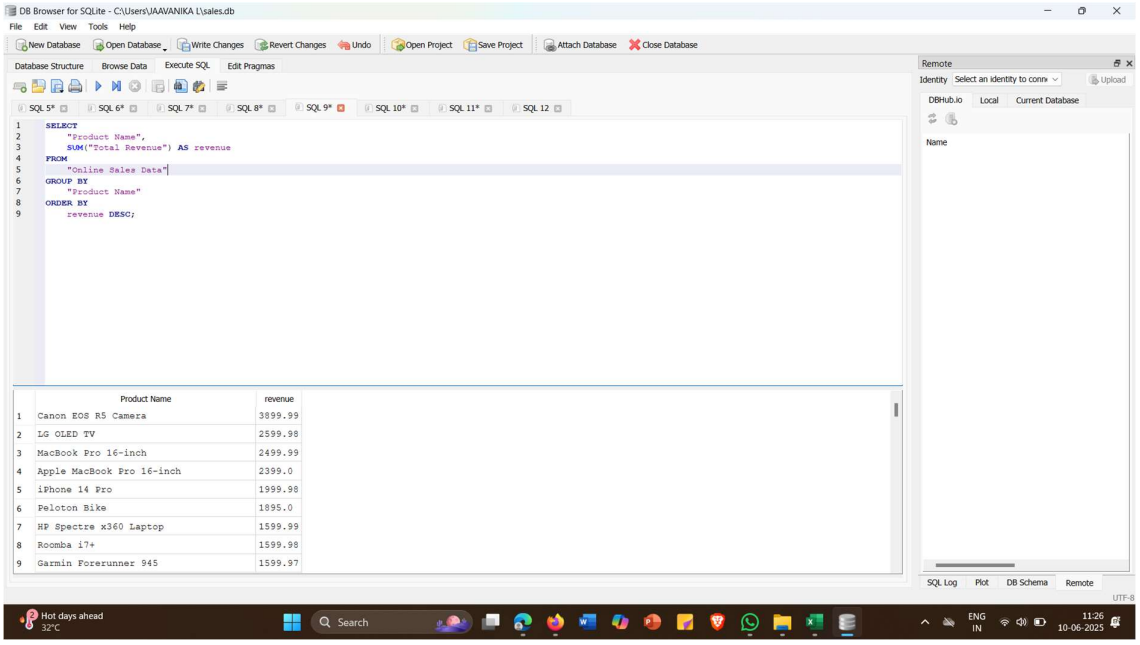
3. SUM() for revenue (Revenue by product category)



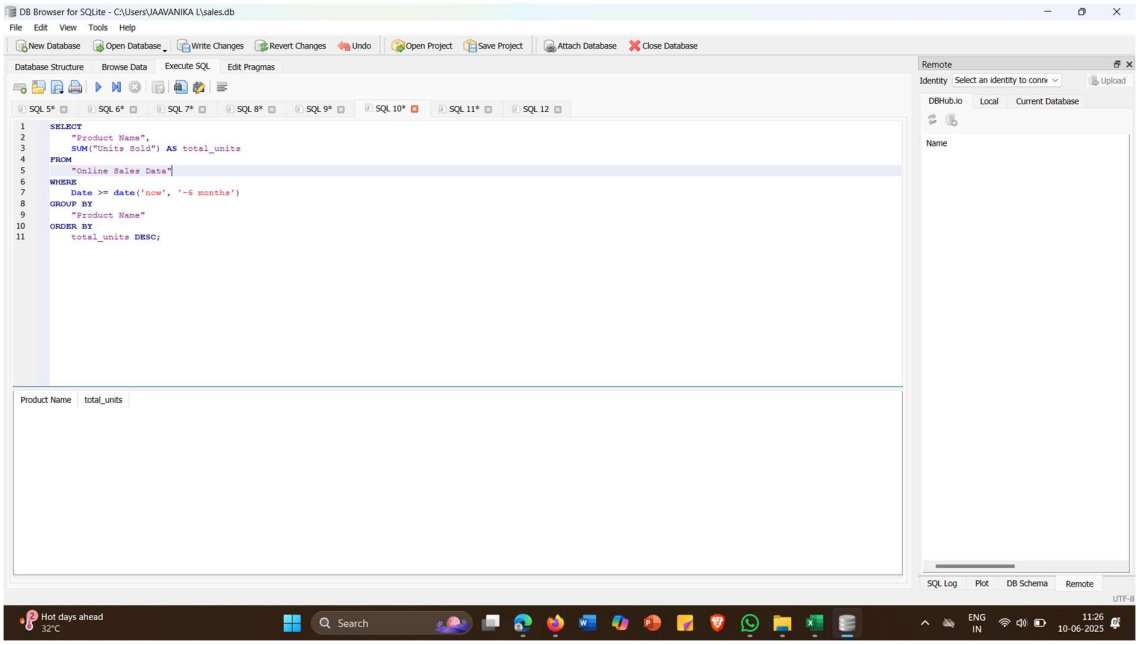
4. COUNT(DISTINCT order_id) for volume (Total transactions)



5. ORDER BY for sorting (Revenue by product name)



6A. Filter for recent 6 months (Units sold by product name)



6B. Top 5 products by revenue