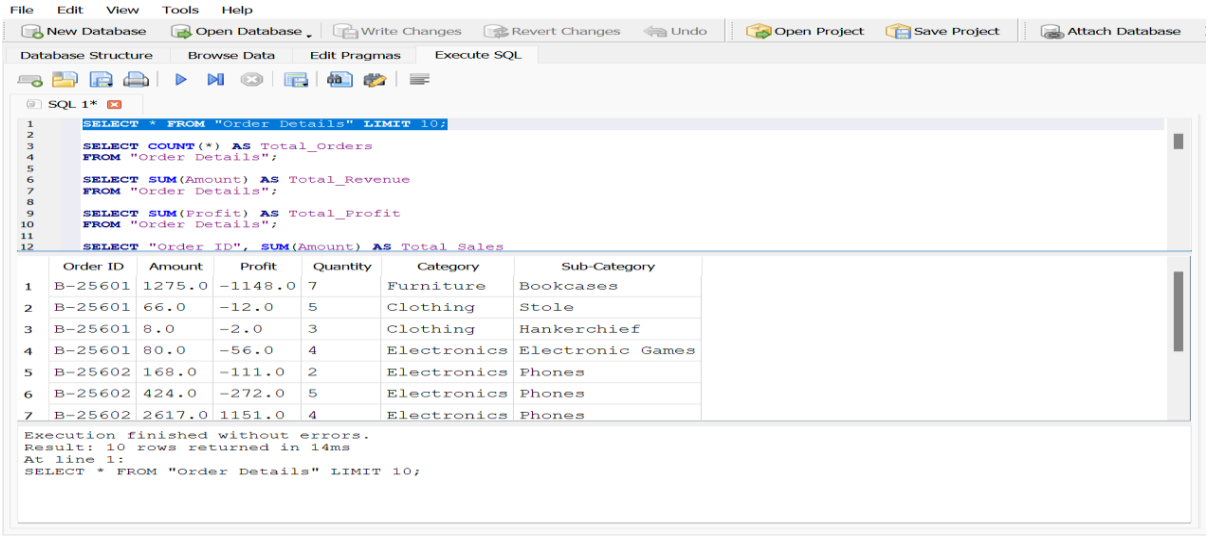
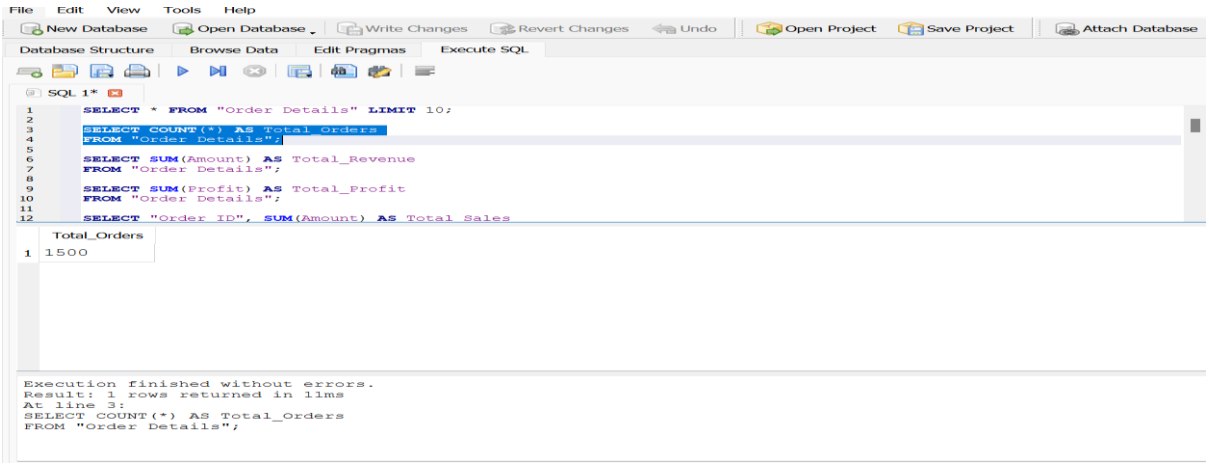
This query is to check the data:

SELECT * FROM "Order Details" LIMIT 10;



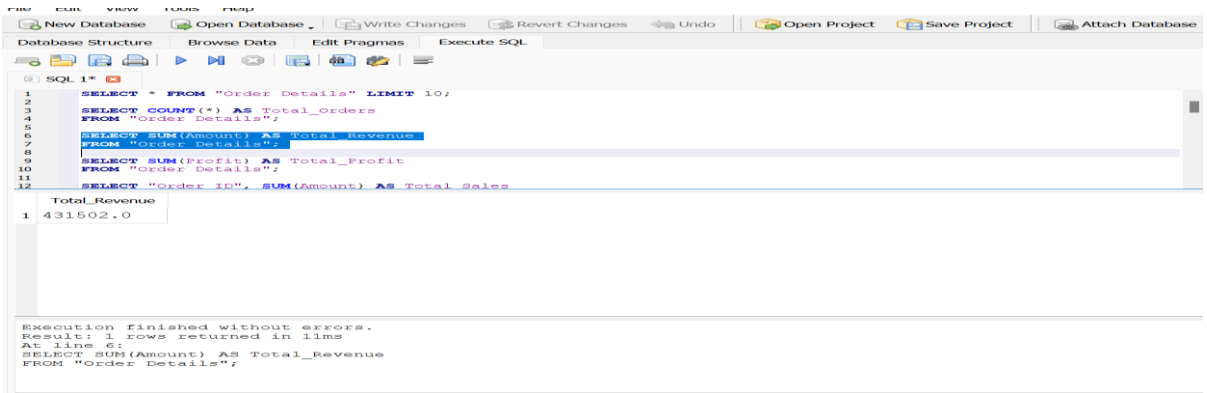
Query 1: Total number of orders

SELECT COUNT(*) AS Total_Order FR OM "Order Details";



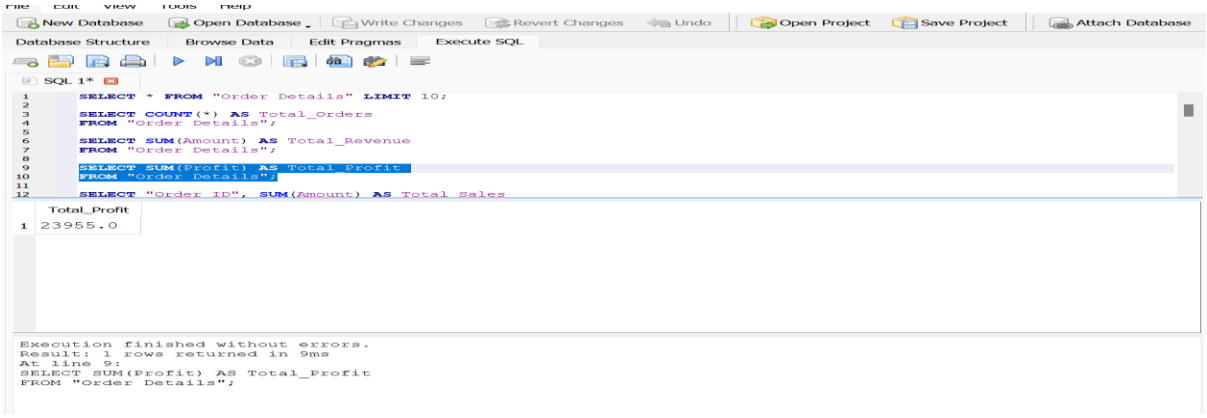
Query 2: Total revenue (sum of Amount column)

SELECT SUM(Amount) AS Total_ Revenue FROM "Order Details";



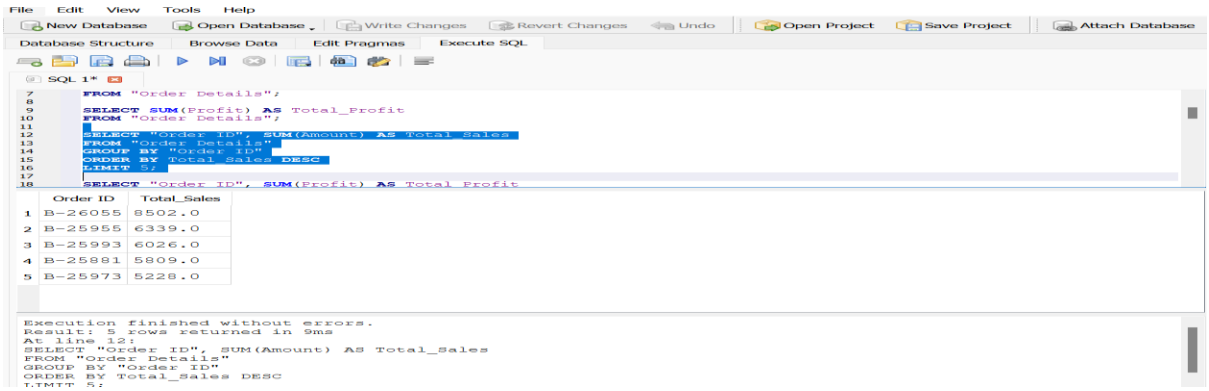
Query 3: Total profit generated

SELECT SUM(Profit) AS Total_Profit FROM "Order Details";



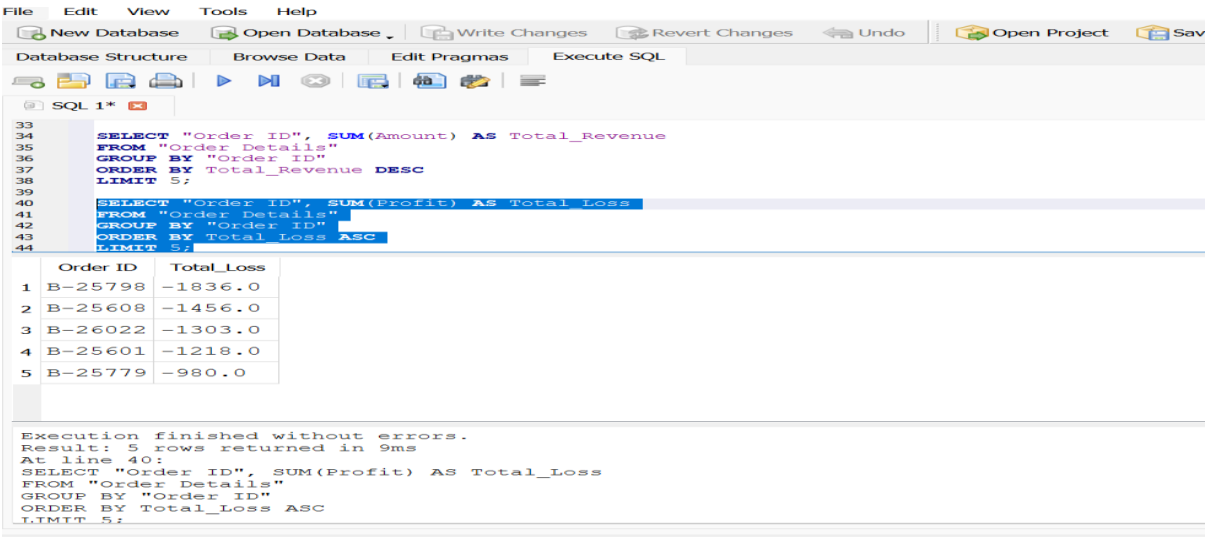
Query 4: Best-selling product (based on total revenue)

SELECT "Order ID", SUM(Amount) AS Total_Sales FROM "Order Details" GROUP BY "Order ID"ORDER BY Total_Sales DESC LIMIT 1;



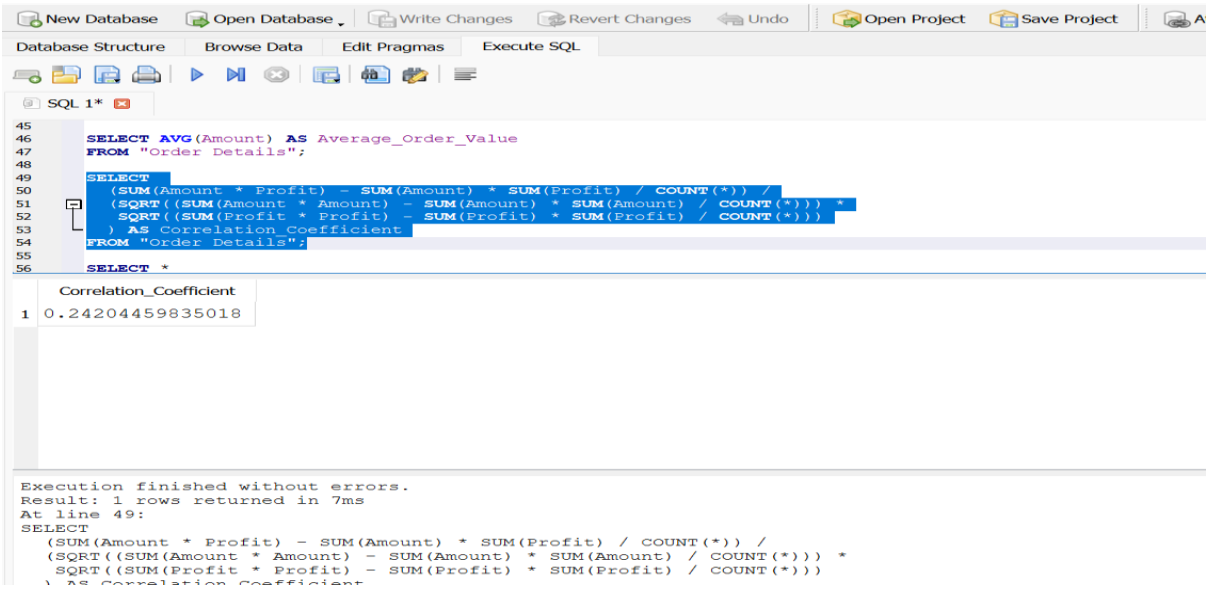
Query 5: Highest profit item

SELECT "Order ID", SUM(Profit) AS Total_Profit FROM "Order Details" GROUP BY "Order ID" ORDER BY Total_Profit DESC LIMIT 5;



Query 6: Count of profitable vs loss orders

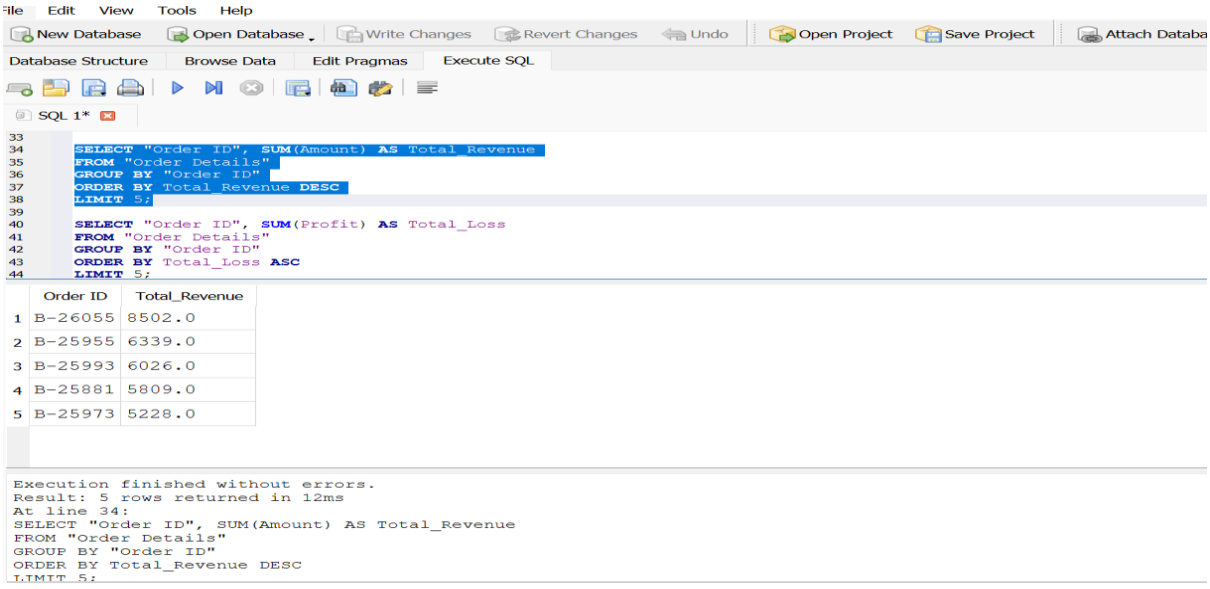
SELECT CASE WHEN Profit > 0 THEN 'Profit' WHEN Profit < 0 THEN 'Loss' ELSE 'Break-even' END AS Category, COUNT(*) AS Count_Orders FROM"OrderDetails" GROUP BY Category;



Query 7: Top 5 highest revenue orders

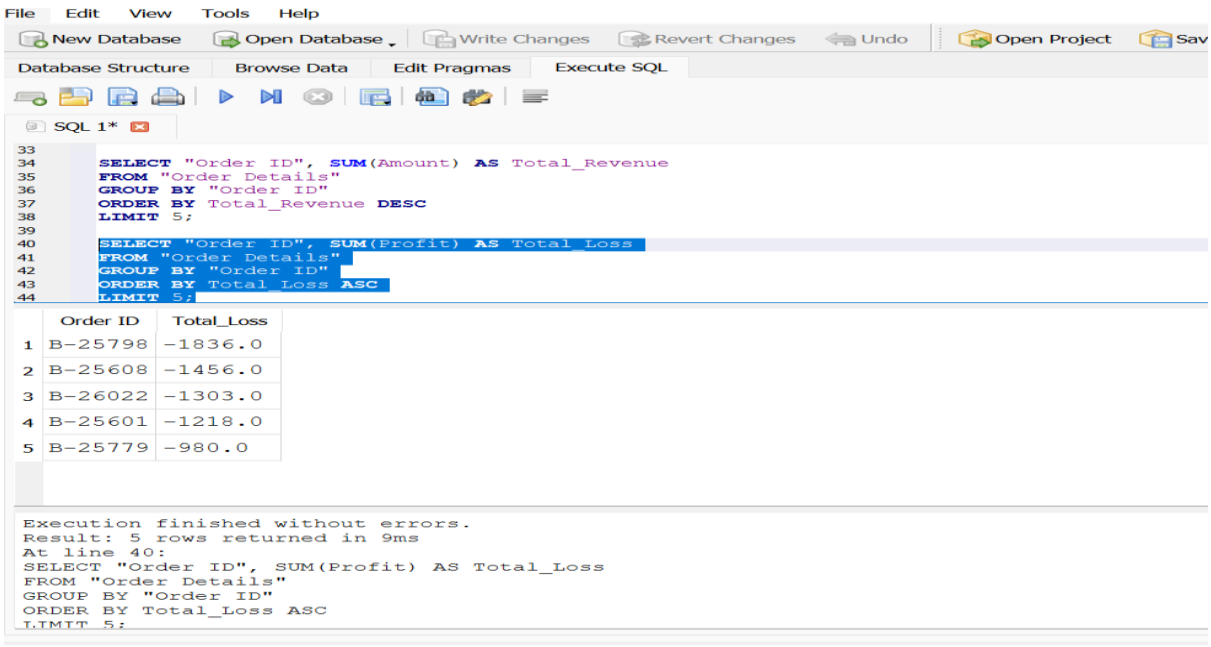
SELECT "Order ID", SUM(Amount) AS Total_Revenue FROM "Order Details"

GROUP BY "Order ID"ORDER BY Total_Revenue DESC LIMIT 5;



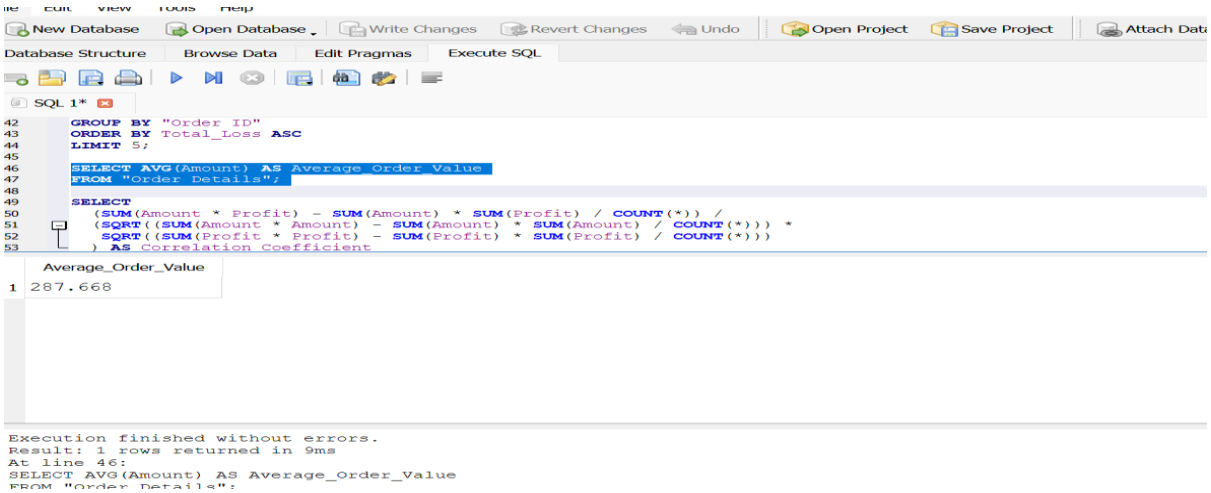
Query 8 :Top 5 loss-making orders

SELECT "Order ID", SUM(Profit) AS Total_Loss FROM "Order Details"GROUP BY "Order ID"ORDER BY Total_Loss ASC LIMIT 5;



Query 9: Average order value

SELECT AVG(Amount) AS Average_Order_Value FROM "Order Details";

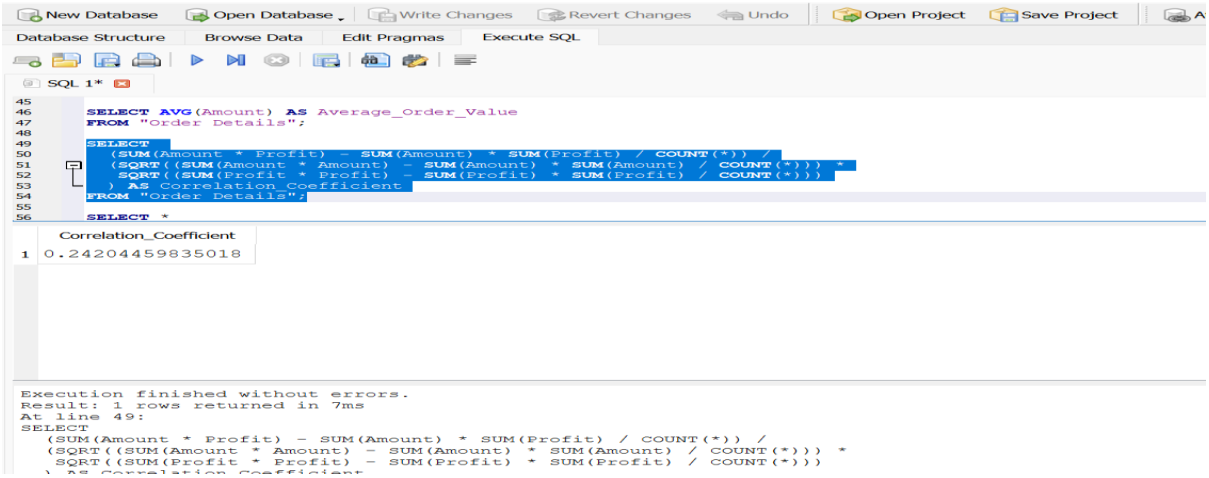


Query 10: Correlation between Amount and Profit (Insight)

SELECT (SUM(Amount * Profit) - SUM(Amount) * SUM(Profit) / COUNT(*)) /

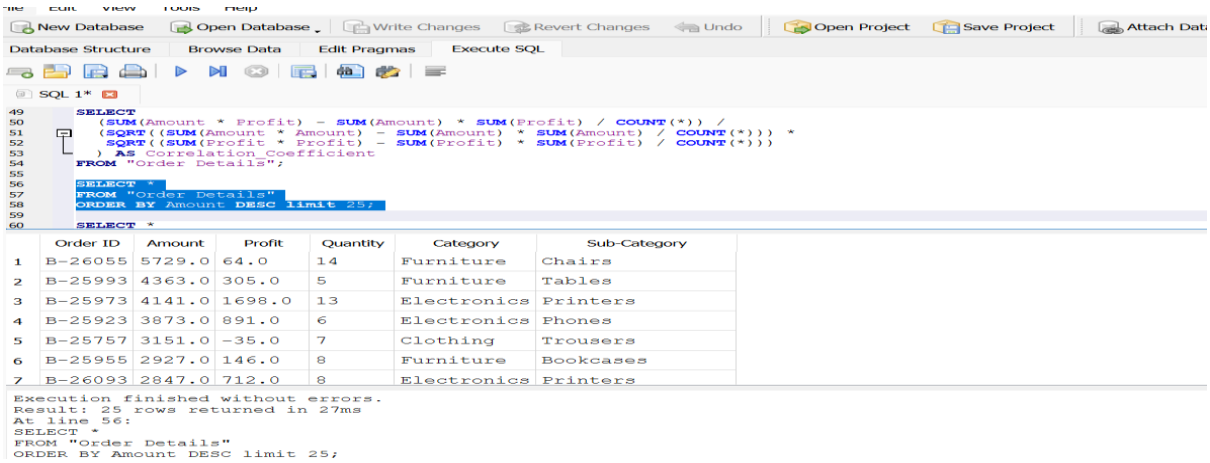
(SQRT((SUM(Amount * Amount) - SUM(Amount) * SUM(Amount) / COUNT(*))) *

SQRT((SUM(Profit * Profit) - SUM(Profit) * SUM(Profit) / COUNT(*)))) AS Correlation_CoefficientFROM "Order Details";



Query 11: Show all columns sorted by highest profit

SELECT *FROM "Order Details" ORDER BY Amount DESC limit 25;



Query 12: Show all columns sorted by highest revenue

SELECT *FROM "Order Details" ORDER BY Profit DESC limit 50;