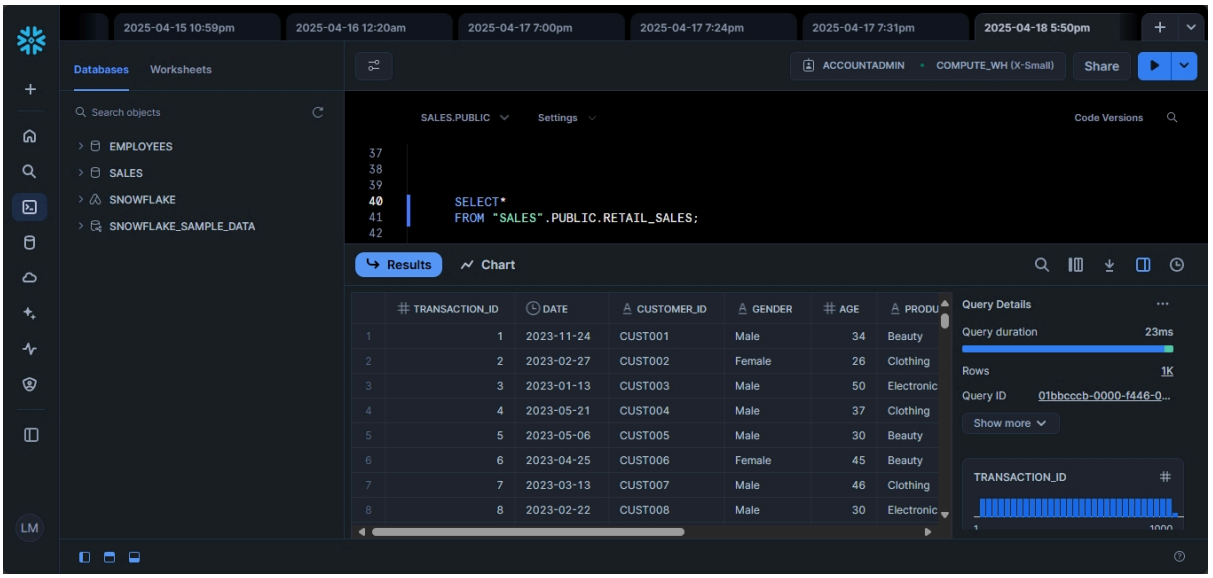
PRACTICAL EXERCISE 1

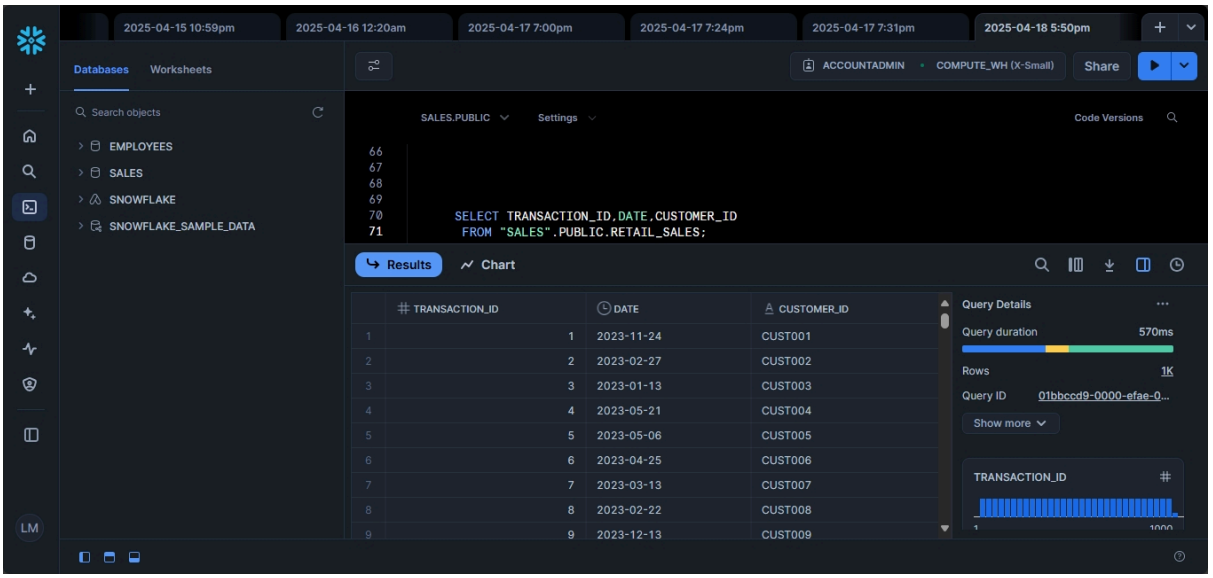
SQL ON SNOWFLAKES

Q1. Display all columns for all transactions. *Expected output:* All columns

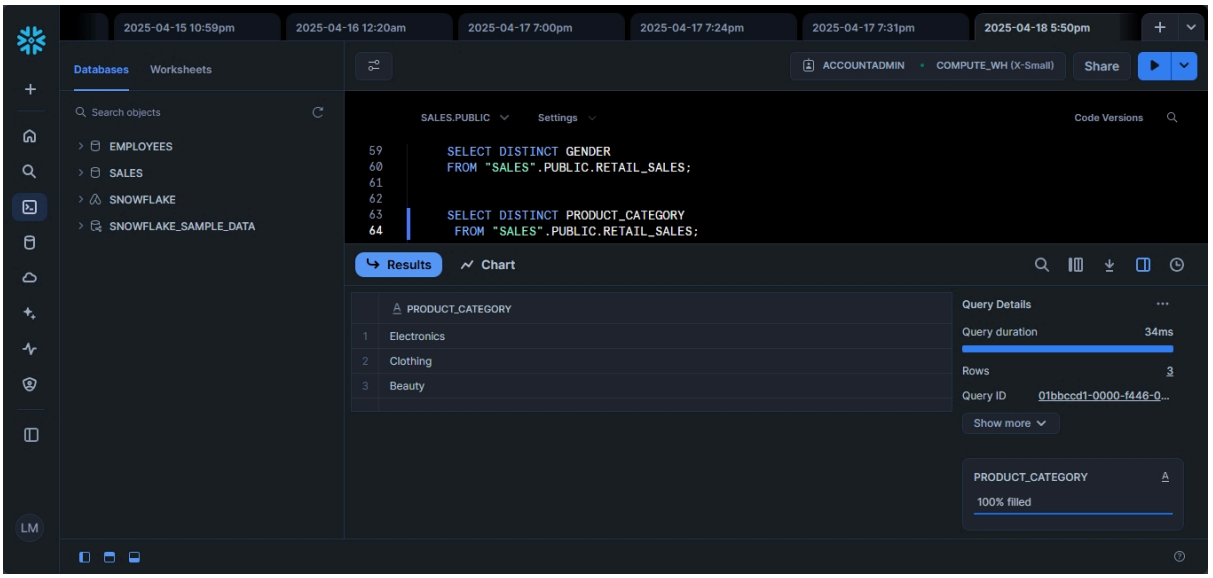


Q2. Display only the Transaction ID, Date, and Customer ID for all records.

Expected output: Transaction ID, Date, Customer ID

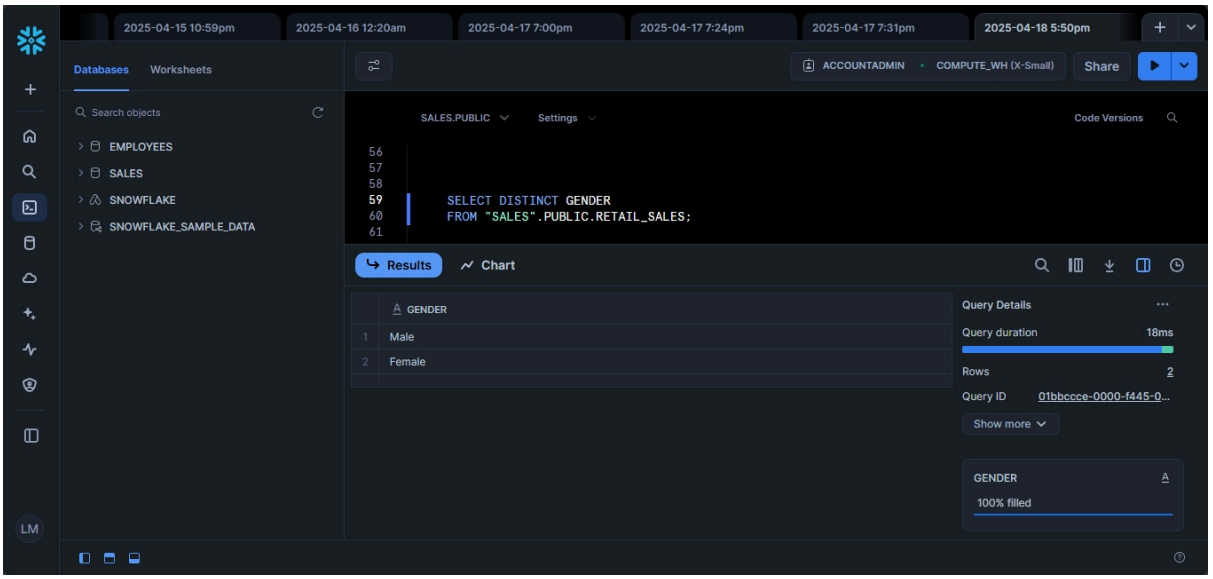


Q3. Display all the distinct product categories in the dataset. *Expected output:* Product Category

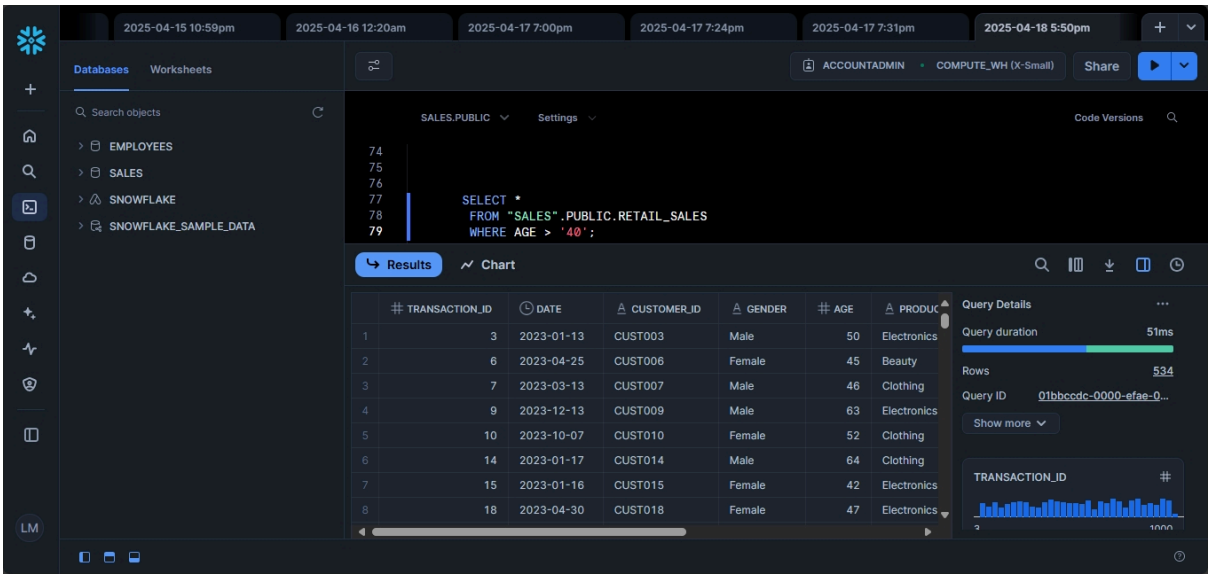


Q4. Display all the distinct gender values in the dataset.

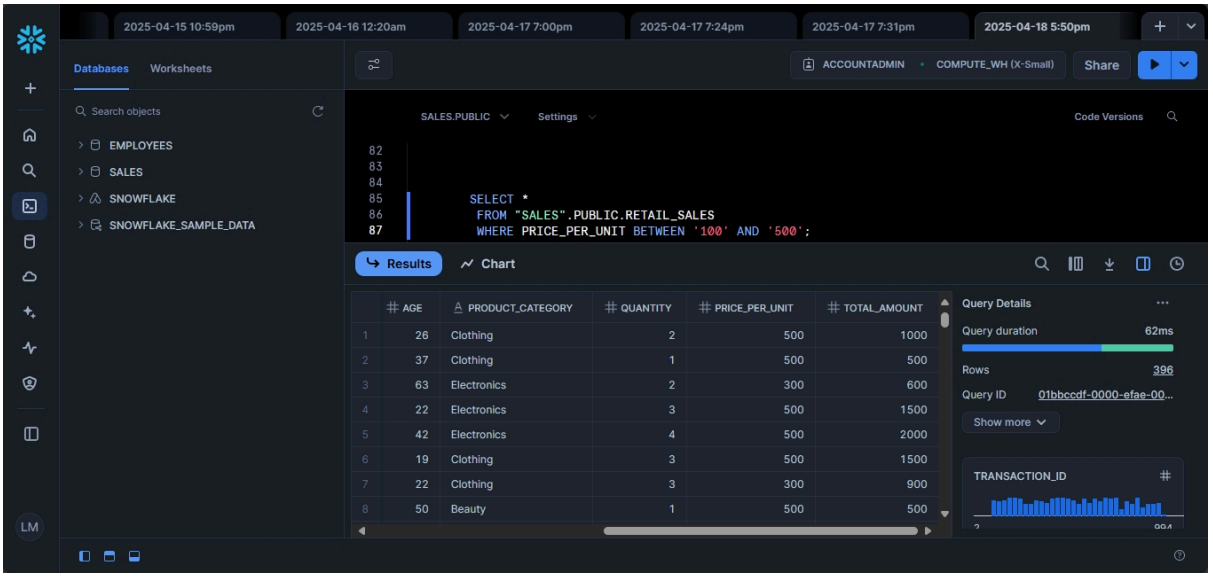
Expected output: Gender



Q5. Display all transactions where the Age is greater than 40. *Expected output:* All columns

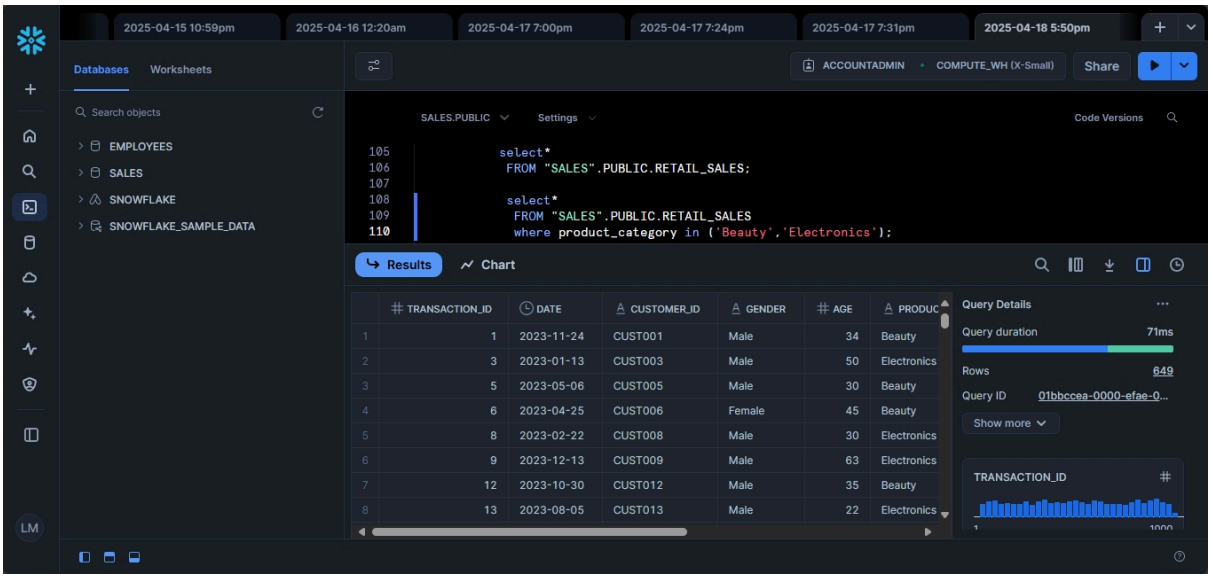


Q6. Display all transactions where the Price per Unit is between 100 and 500. *Expected output:* All columns

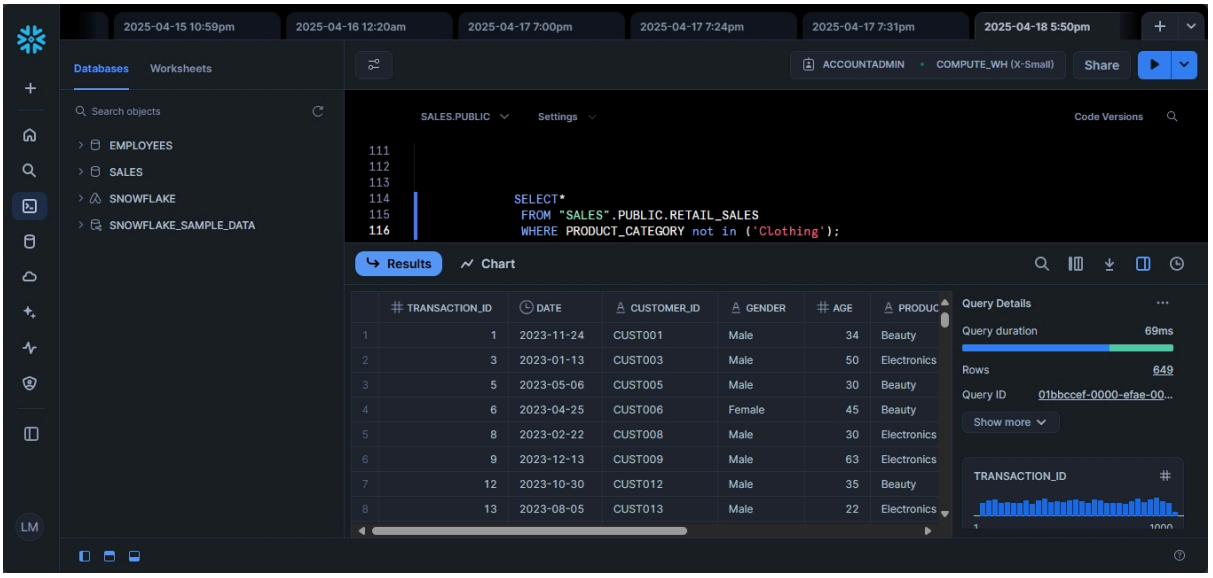


Q7. Display all transactions where the Product Category is either 'Beauty' or 'Electronics'.

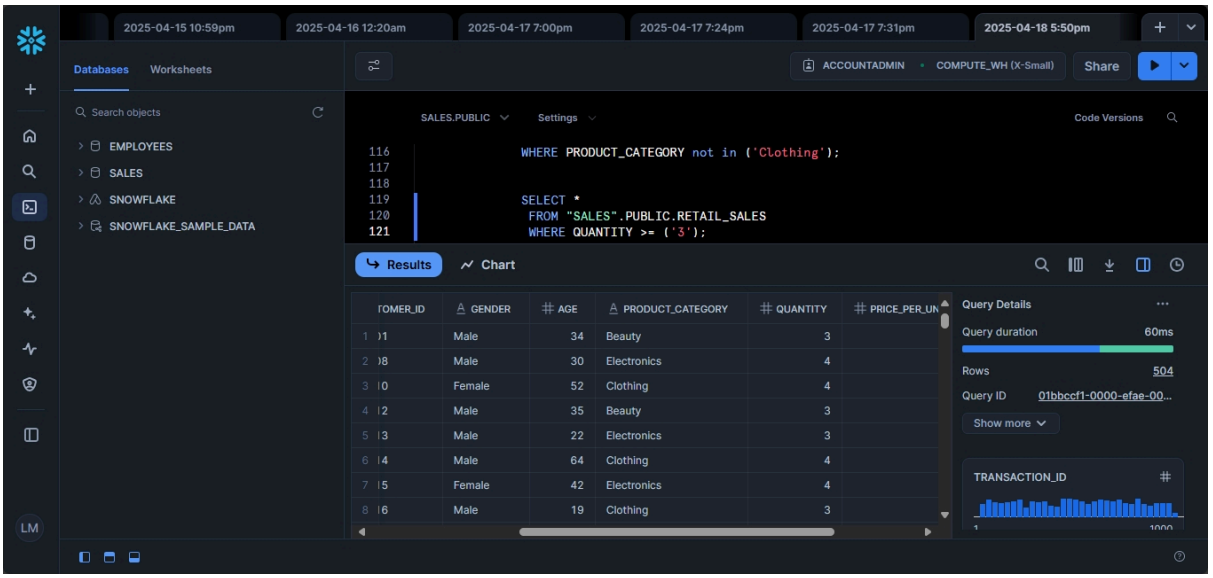
Expected output: All columns



Q8. Display all transactions where the Product Category is **not** 'Clothing'. *Expected output:* All columns

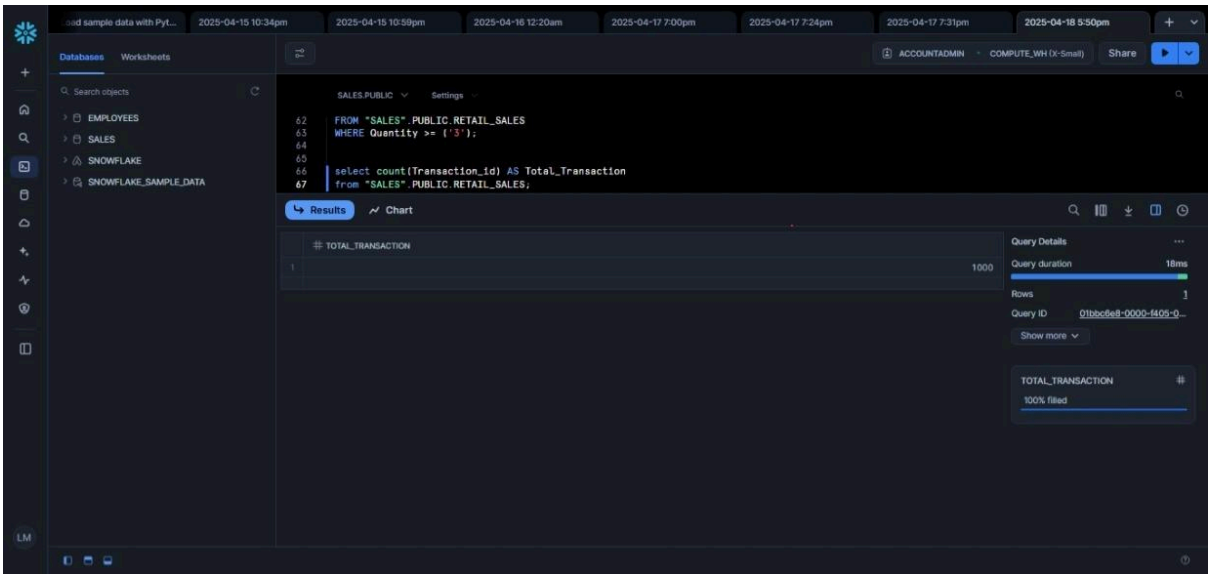


Q9. Display all transactions where the Quantity is greater than or equal to 3. *Expected output:* All columns

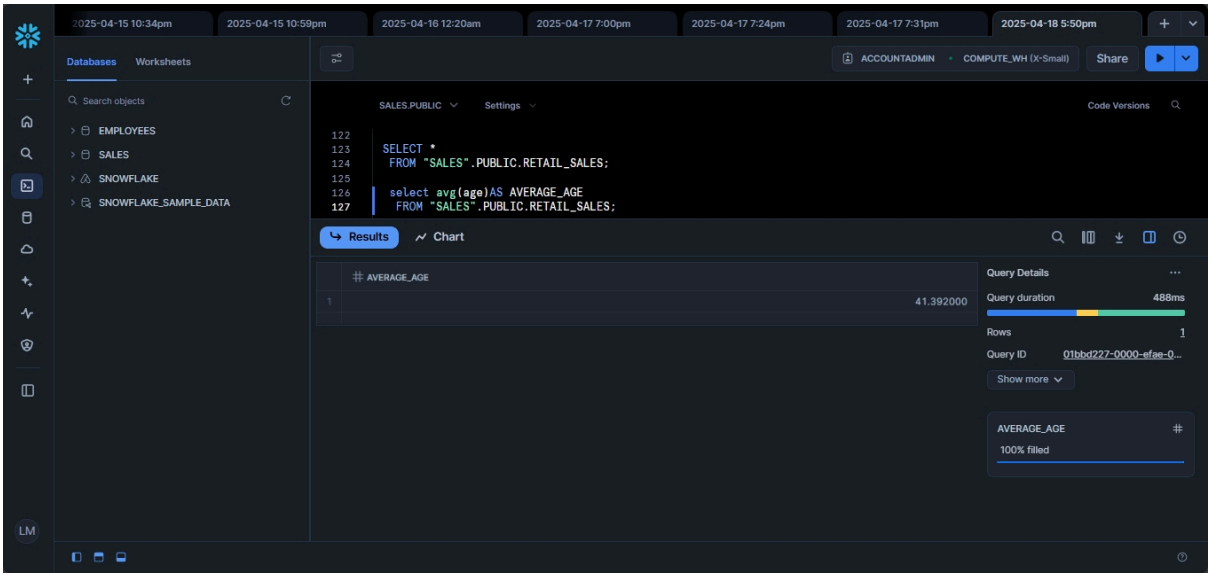


Q10. Count the total number of transactions.

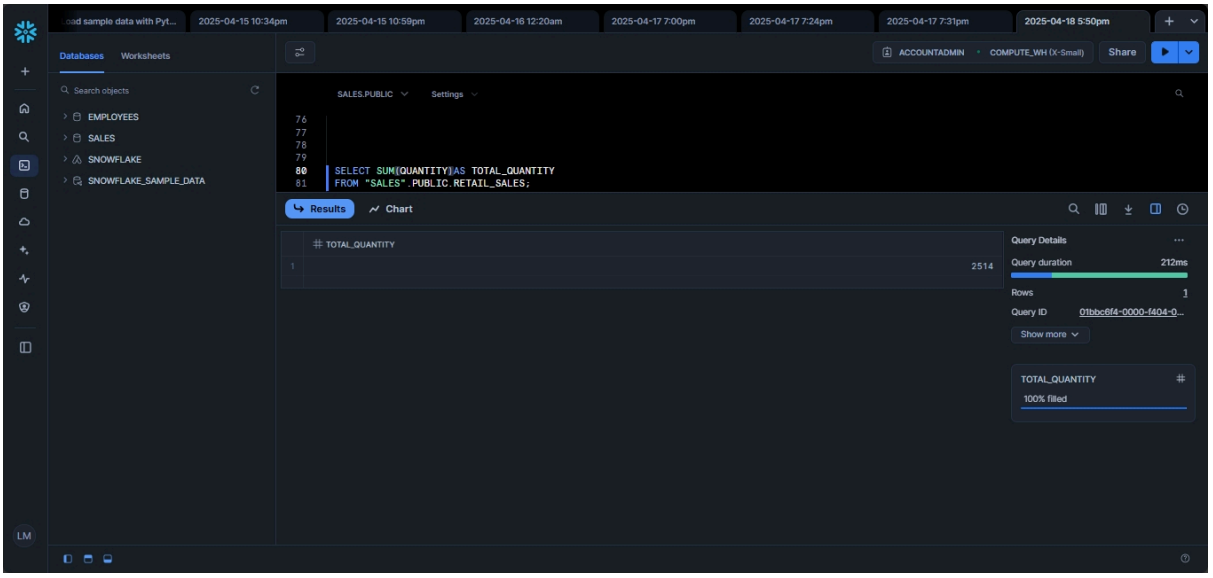
Expected output: Total_Transactions



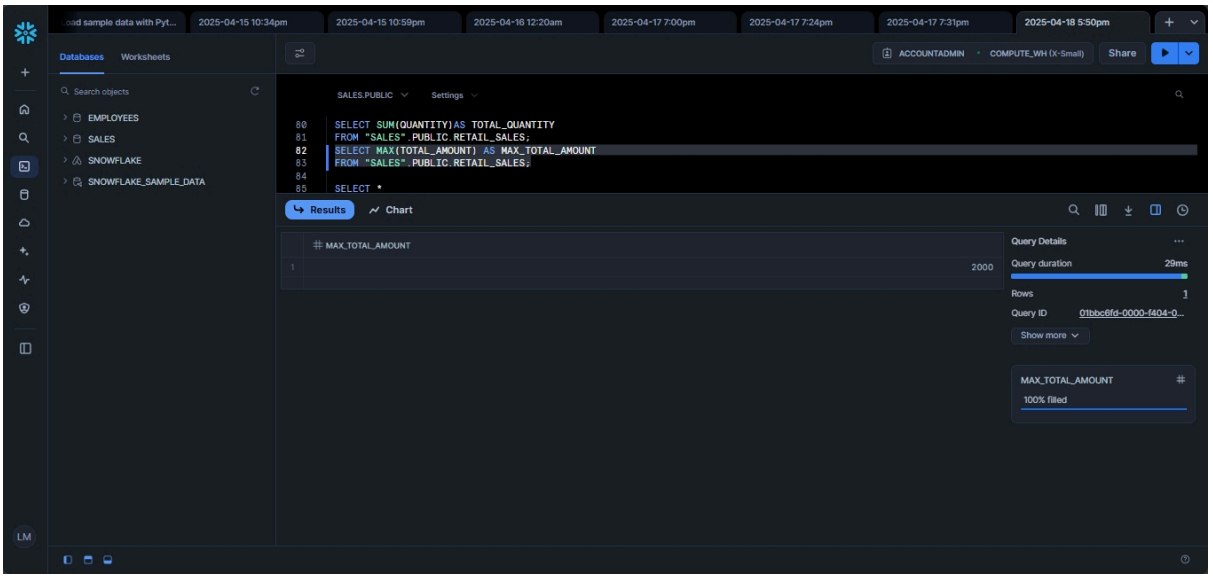
Q11. Find the average Age of customers. *Expected output:* Average_Age



Q12. Find the total quantity of products sold. *Expected output:* Total_Quantity

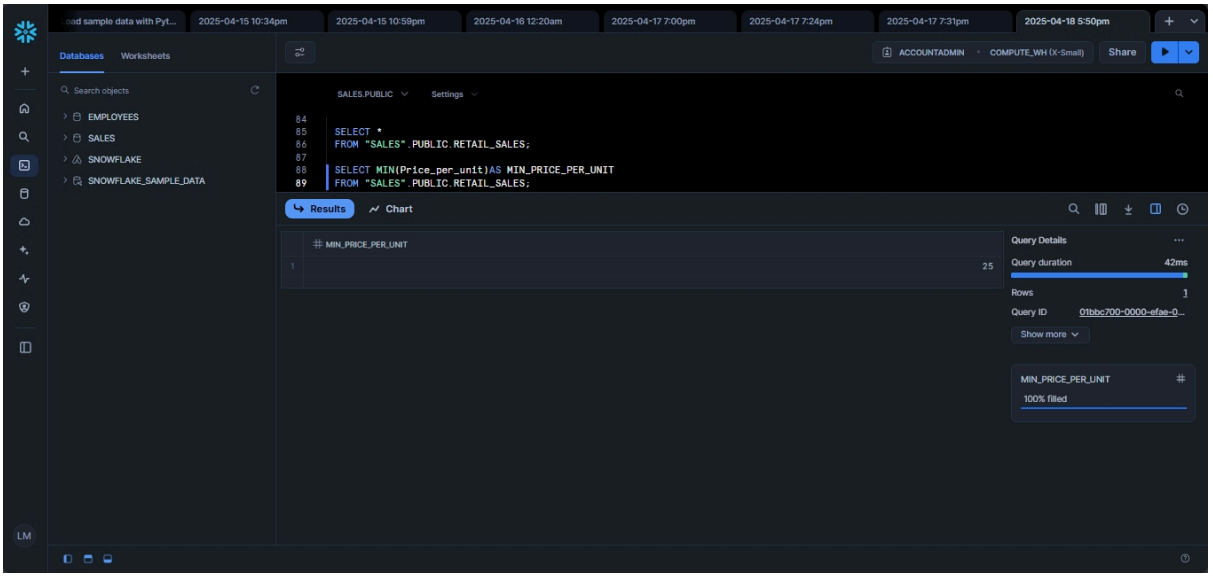


Q13. Find the maximum Total Amount spent in a single transaction. *Expected output:* Max_Total_Amount

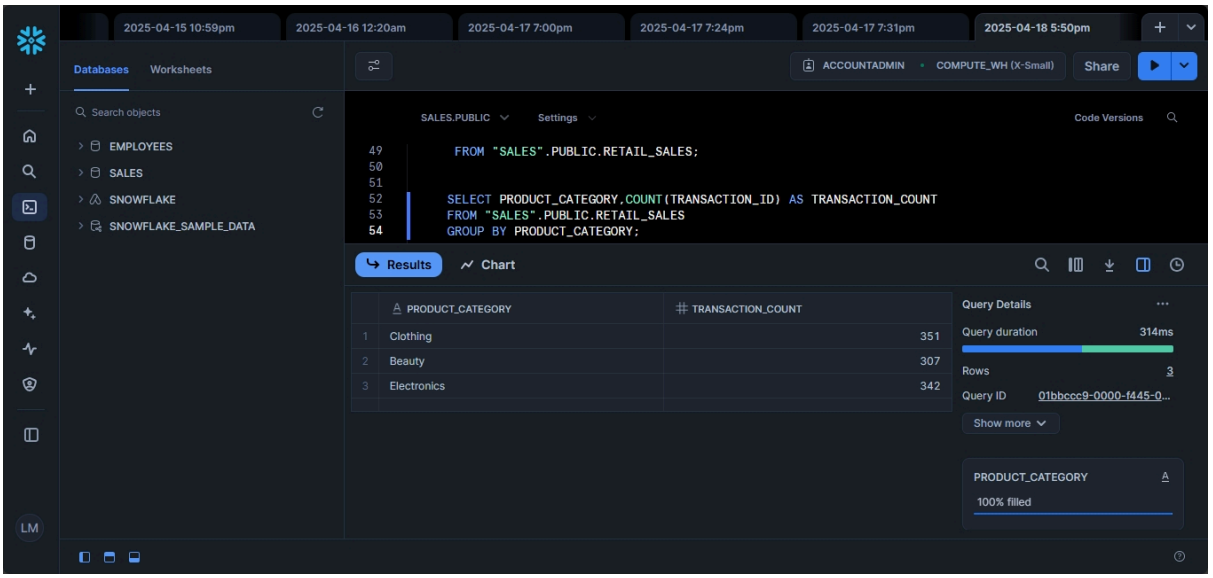


Q14. Find the minimum Price per Unit in the dataset.

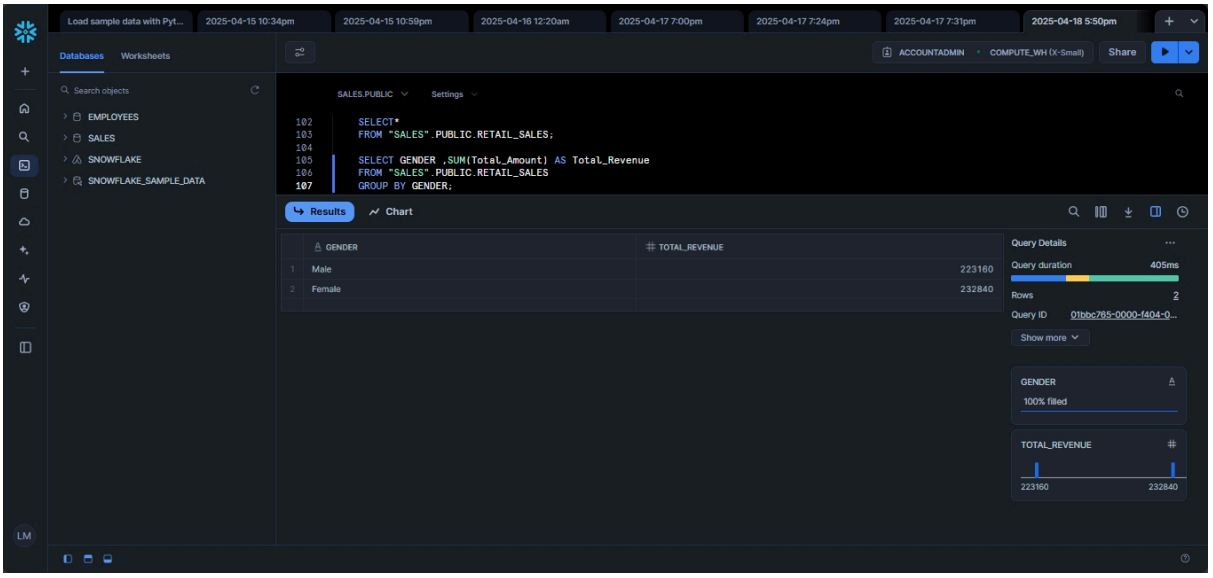
Expected output: Min_Price_per_Unit



Q15. Find the number of transactions per Product Category. *Expected output:* Product Category, Transaction_Count

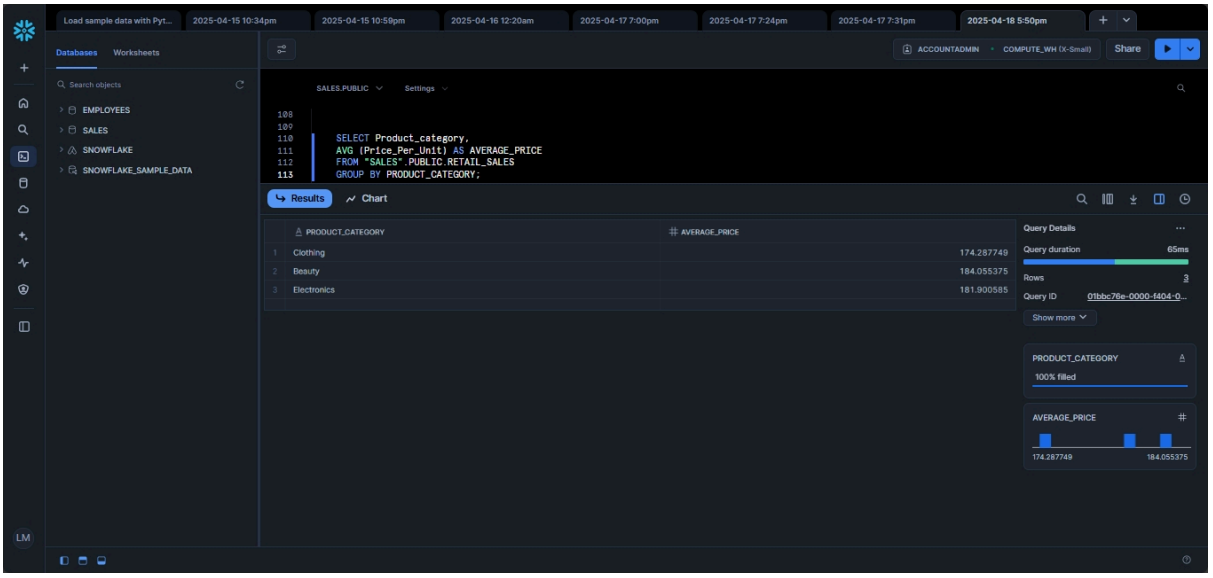


Q16. Find the total revenue (Total Amount) per gender. *Expected output:* Gender, Total_Revenue



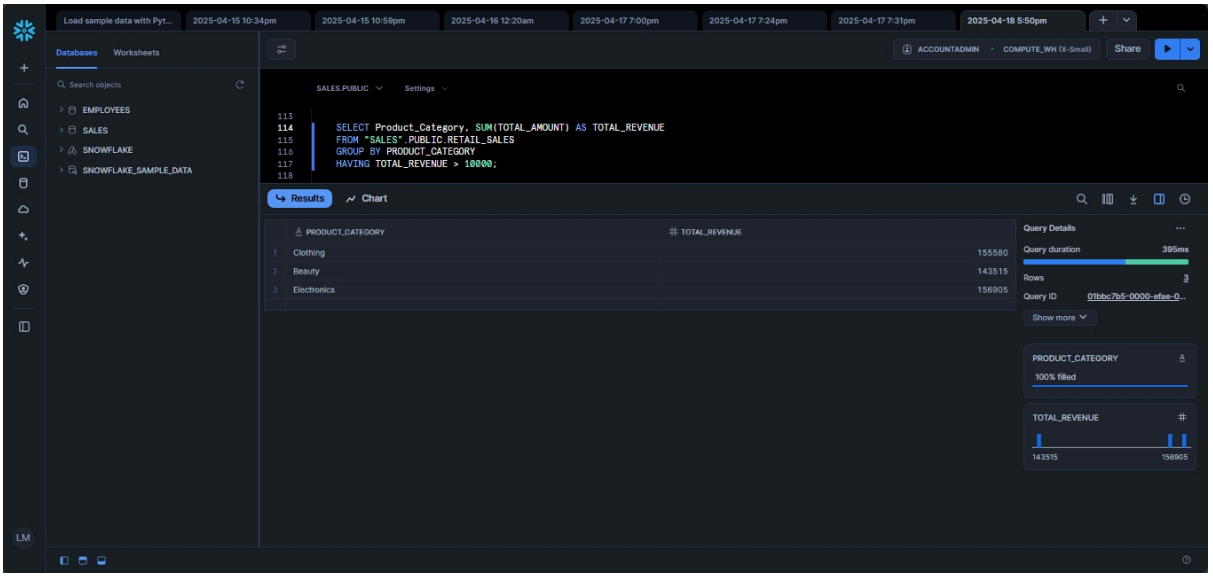
Q17. Find the average Price per Unit per product category.

Expected output: Product Category, Average_Price



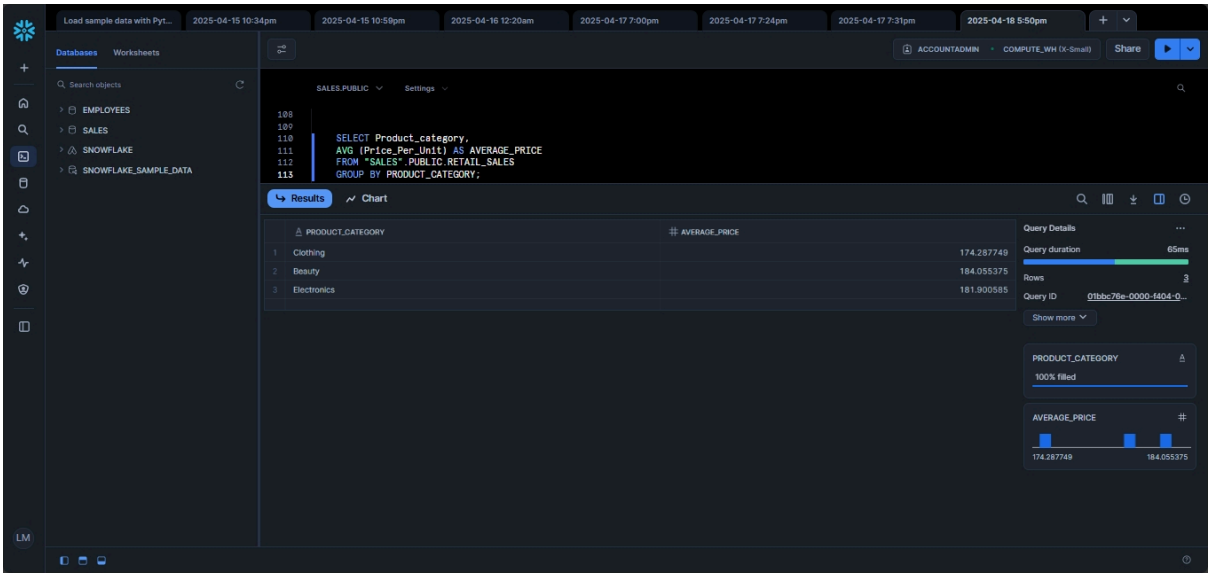
Q18. Find the total revenue per product category where total revenue is greater than 10,000.

Expected output: Product Category, Total_Revenue



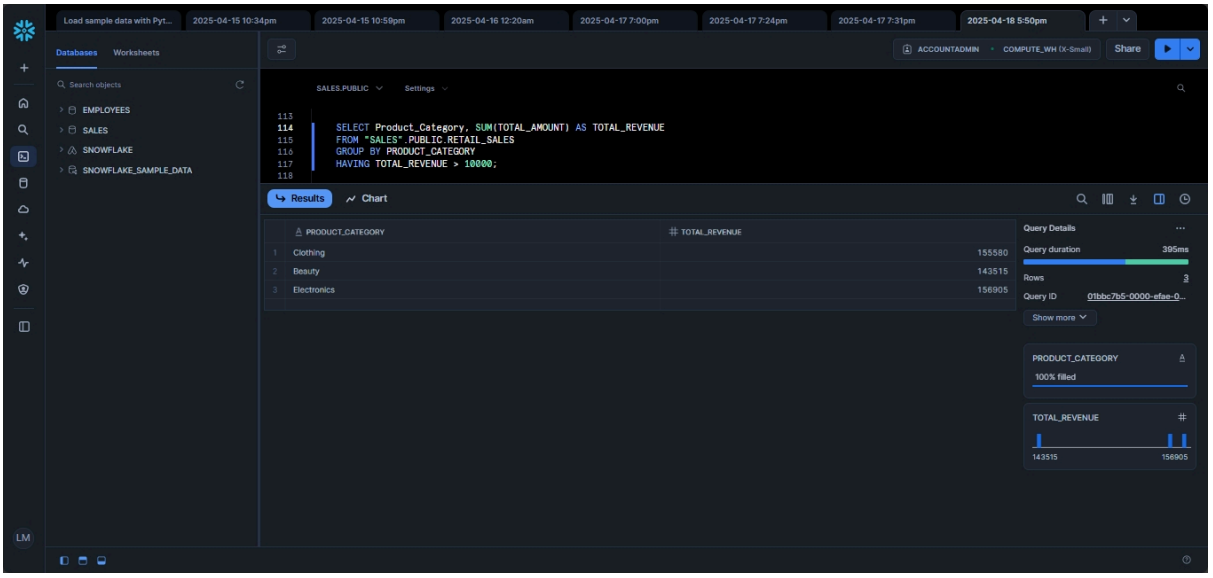
Q17. Find the average Price per Unit per product category.

Expected output: Product Category, Average_Price



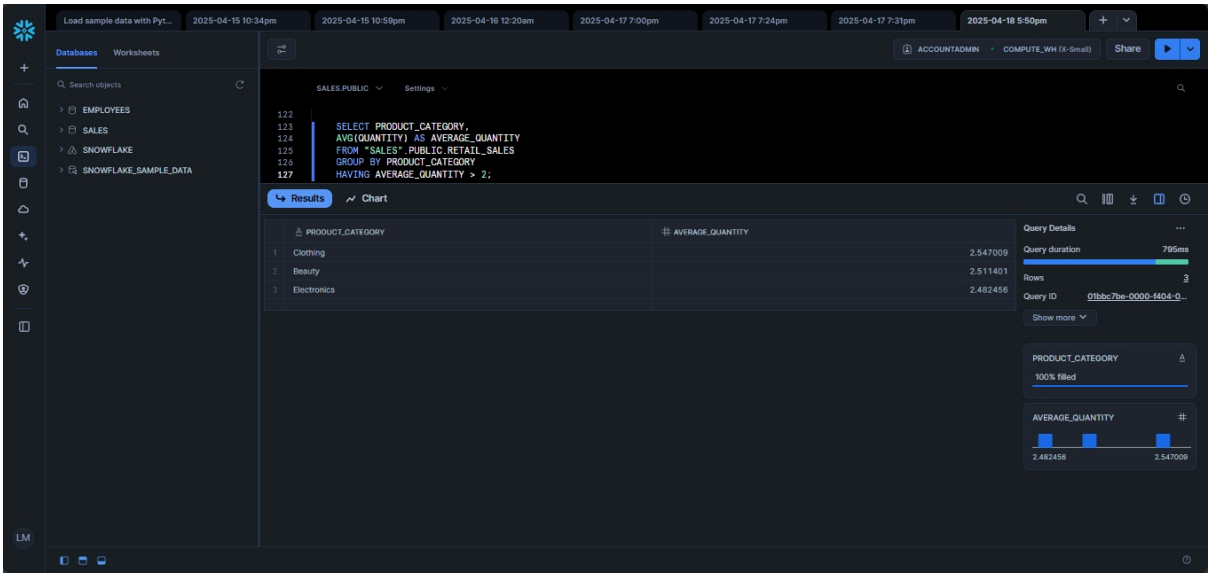
Q18. Find the total revenue per product category where total revenue is greater than 10,000.

Expected output: Product Category, Total_Revenue



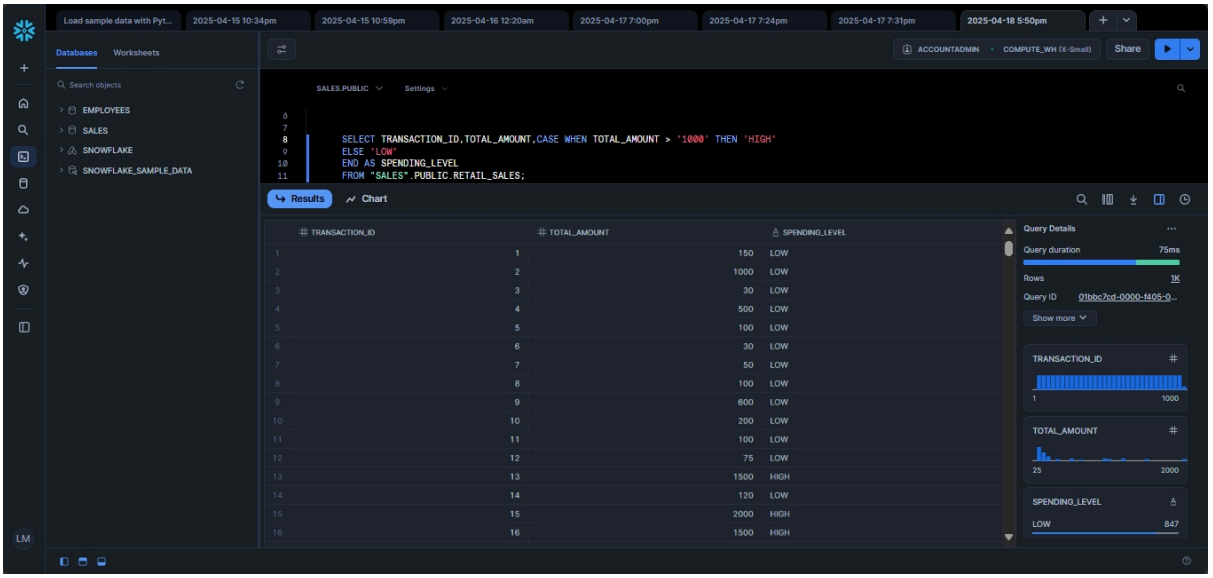
Q19. Find the average quantity per product category where the average is more than 2.

Expected output: Product Category, Average_Quantity



Q20. Display a column called Spending_Level that shows 'High' if Total Amount > 1000, otherwise 'Low'.

Expected output: Transaction ID, Total Amount, Spending_Level



Q21. Display a new column called Age_Group that labels customers as:

- 'Youth' if Age < 30
- 'Adult' if Age is between 30 and 59
- 'Senior' if Age >= 60

Expected output: Customer ID, Age, Age_Group