SQL Query Analysis Report

1. User Question

Show me the top 5 best-selling products

2. Generated SQL Query

```
SELECT
    p.product_name,
    SUM(s.quantity) as total_quantity_sold,
    SUM(s.total_amount)
```

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3. Query Validation

Status: PASSED

No issues found

4. Analysis Summary

The Tablet 10-inch HD dominates both sales volume and revenue with 37 units sold generating $14,239.64.

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5. Key Metrics

- Top Selling Product by Volume: Tablet 10-inch HD (37 units) units

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- Average Quantity Sold: 29 units

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6. Query Results

product_name	total_quantity_sold	total_revenue
Tablet 10-inch HD	37	14239.644
Shampoo Organic 500ml	32	556.4069999999999
Curtains Blackout Pair	30	1523.5
Running Shoes Pro	24	2060.7709999999997
T-Shirt Green Polo	22	518.5424999999999

8. Data Visualizations

Chart 1: Horizontal bar chart showing units sold for each of the top 5 best-selling products
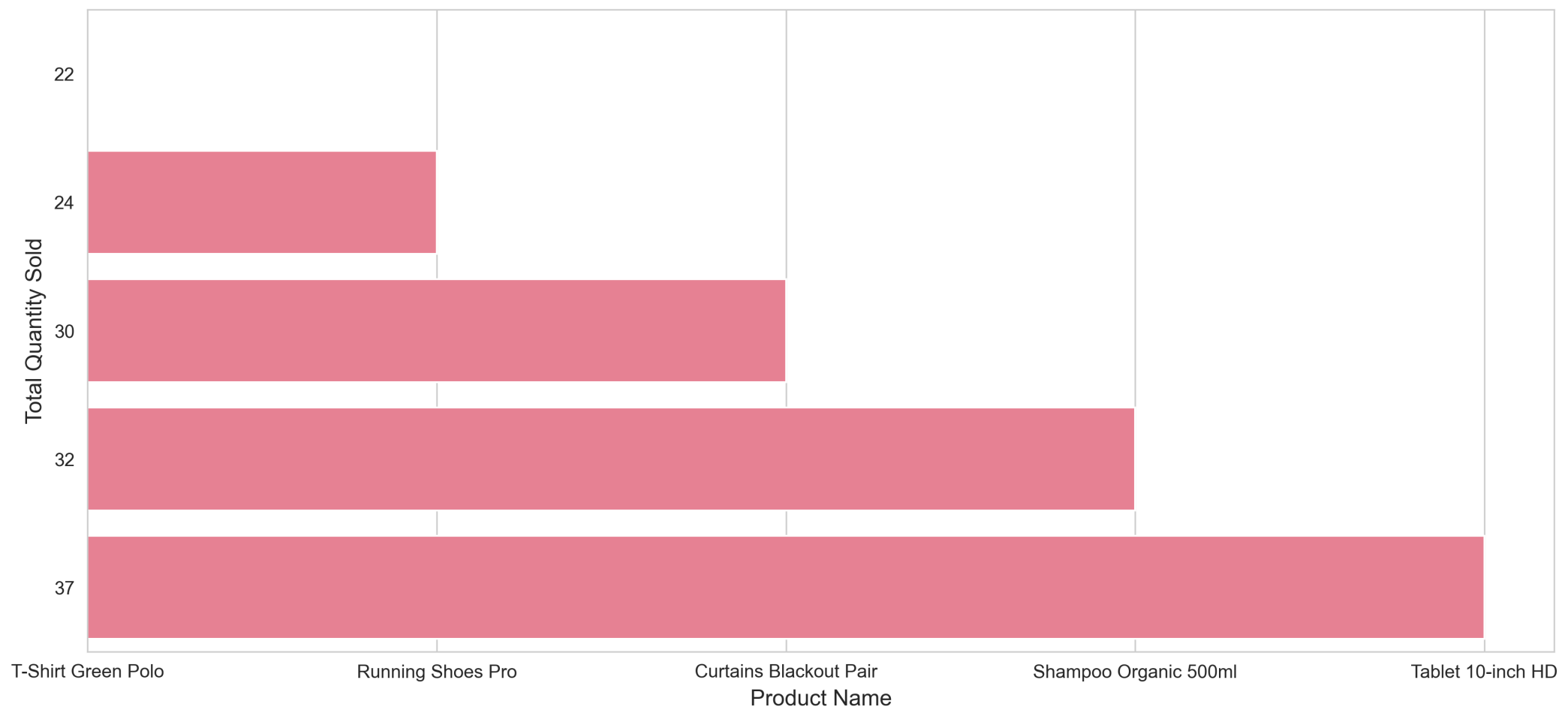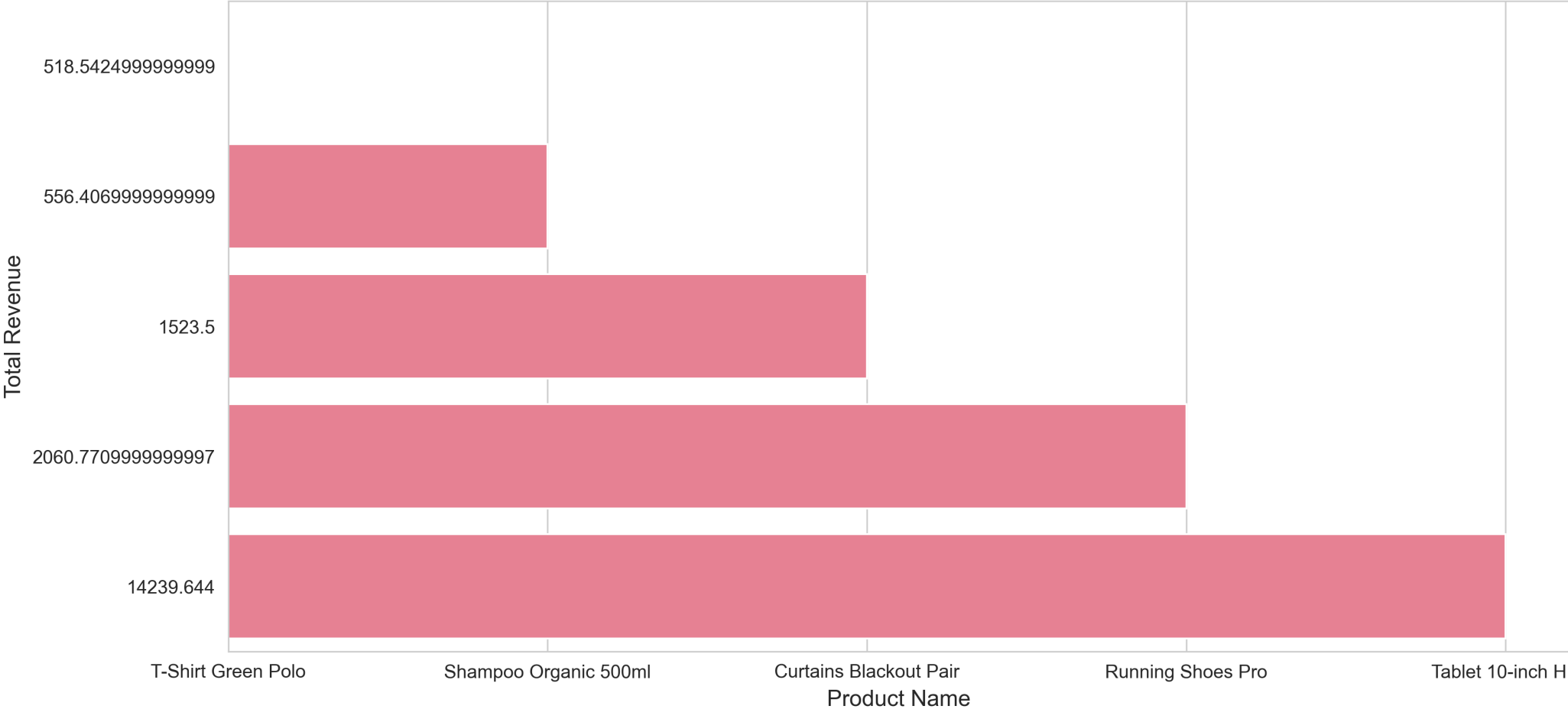
Top 5 Products by Quantity Sold

Chart 2: Revenue comparison highlighting the significant lead of Tablet 10-inch HD over other products

Top 5 Products by Total Revenue

9. Process Log

OK Schema Analysis: Found 2 relevant tables - sales, products

OK SQL Generation: Query created

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OK Query Validation: Passed

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OK SQL Generation: Query created

OK Query Execution: Retrieved 5 rows, 3 columns

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OK Data Analysis: Generated 2 visualization specs

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OK Visualization: Created 2 charts

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