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analyze_sales.py
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import sqlite3
import pandas as pd
import matplotlib.pyplot as plt
# Connect to the database
conn = sqlite3.connect("sales data.db")
# SOL query
query = """
SELECT
  product,
 SUM(quantity) AS total qty,
 SUM(quantity * price) AS revenue
FROM sales
GROUP BY product
ORDER BY revenue DESC;
# Load results into pandas
df = pd.read sql query(query, conn)
# Print results
print("Sales summary per product:")
print(df.to string(index=False))
# Totals
print("\nTOTAL quantity sold:", df['total qty'].sum())
print("TOTAL revenue:", df['revenue'].sum())
# Plot chart
df.plot(kind="bar", x="product", y="revenue", legend=False)
plt.xlabel("Product")
plt.ylabel("Revenue")
plt.title("Revenue by Product")
plt.tight layout()
plt.savefig("sales chart.png") # saves chart as PNG
plt.show()
conn.close()
```

