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a sales.py - C:/Users/Muskan/AppData/Local/Programs/Python/Python313/sales.py (3.13.1)
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| Task 7 DA - Basic Sales Summary using SQLite and Python
| Save this file as task7_sales_summary.py and run it in Python IDLE
 import sqlite3
import pandas as pd
import matplotlib.pyplot as plt
# Step 1: Connect to SQLite database (will create if it doesn't exist)
conn = sqlite3.connect("sales_data.db")
cursor = conn.cursor()
# Step 2: Create sales table (if not exists)
cursor.execute("""
CREATE TABLE IF NOT EXISTS sales (
    product TEXT,
    quantity INTEGER,
    price REAL
cursor.executemany("INSERT INTO sales VALUES (?, ?, ?)", sample_data)
# Step 4: Run SQL query
query = """
SELECT
product,
SUM(quantity) AS total_qty,
SUM(quantity * price) AS revenue
FROM sales
GROUP BY product;
df = pd.read_sql_query(query, conn)
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cursor.executemany("INSERT INTO sales VALUES (?, ?, ?)", sample data)
       conn.commit()
# Step 4: Run SQL query
query = """
SELECT
      product,
SUM(quantity) AS total_qty,
SUM(quantity * price) AS revenue
FROM sales
GROUP BY product;
 df = pd.read_sql_query(query, conn)
# Step 5: Print results
print("M Sales Summary by Product")
print(df)
# Step 6: Plot simple bar chart (Revenue by Product)
plt.figure(figsize=(8, 5))
plt.bar(df["product"], df["revenue"])
plt.xlabel("Product")
plt.ylabel("Revenue")
plt.title("Revenue by Product")
plt.xticks(rotation=45)
plt.show()
# Step 7: Close connection
conn.close()
```

