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import sqlite3
import pandas as pd
import matplotlib.pyplot as plt

conn = sqlite3.connect("sales_data.db")
cursor = conn.cursor()

cursor.execute("""
CREATE TABLE IF NOT EXISTS sales (
    id INTEGER PRIMARY KEY AUTOINCREMENT,
    product TEXT,
    quantity INTEGER,
    price REAL
)
""")

sample_data = [
    ("Laptop", 5, 60000),
    ("Laptop", 3, 55000),
    ("Phone", 10, 15000),
    ("Phone", 7, 18000),
    ("Tablet", 4, 25000)
]
cursor.executemany("INSERT INTO sales (product, quantity, price) VALUES (?, ?, ?)", sample_data)
conn.commit()

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)

print("Sales Summary:\n", df)

df.plot(kind="bar", x="product", y="revenue", legend=False, color="skyblue")
plt.title("Revenue by Product")
plt.ylabel("Revenue")
plt.xlabel("Product")
plt.tight_layout()
plt.show()
```

↻ Sales Summary:

	product	total_qty	revenue
0	Laptop	8	465000.0
1	Phone	17	276000.0
2	Tablet	4	100000.0

