

```
import sqlite3
import pandas as pd
import matplotlib.pyplot as plt
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```
conn = sqlite3.connect("sales_data.db")
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```
cursor = conn.cursor()
cursor.execute('''CREATE TABLE IF NOT EXISTS sales (
    product TEXT,
    quantity INTEGER,
    price REAL
)''')

sample_data = [
    ("Product A", 10, 15.0),
    ("Product B", 5, 20.0),
    ("Product A", 7, 15.0),
    ("Product C", 3, 30.0)
]
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(df)
```

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↗
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	product	total_qty	revenue
0	Product A	17	255.0
1	Product B	5	100.0
2	Product C	3	90.0

```
df.plot(kind='bar', x='product', y='revenue', legend=False)
plt.title("Revenue by Product")
plt.ylabel("Revenue")
plt.tight_layout()
plt.savefig("sales_chart.png")
plt.show()
```



