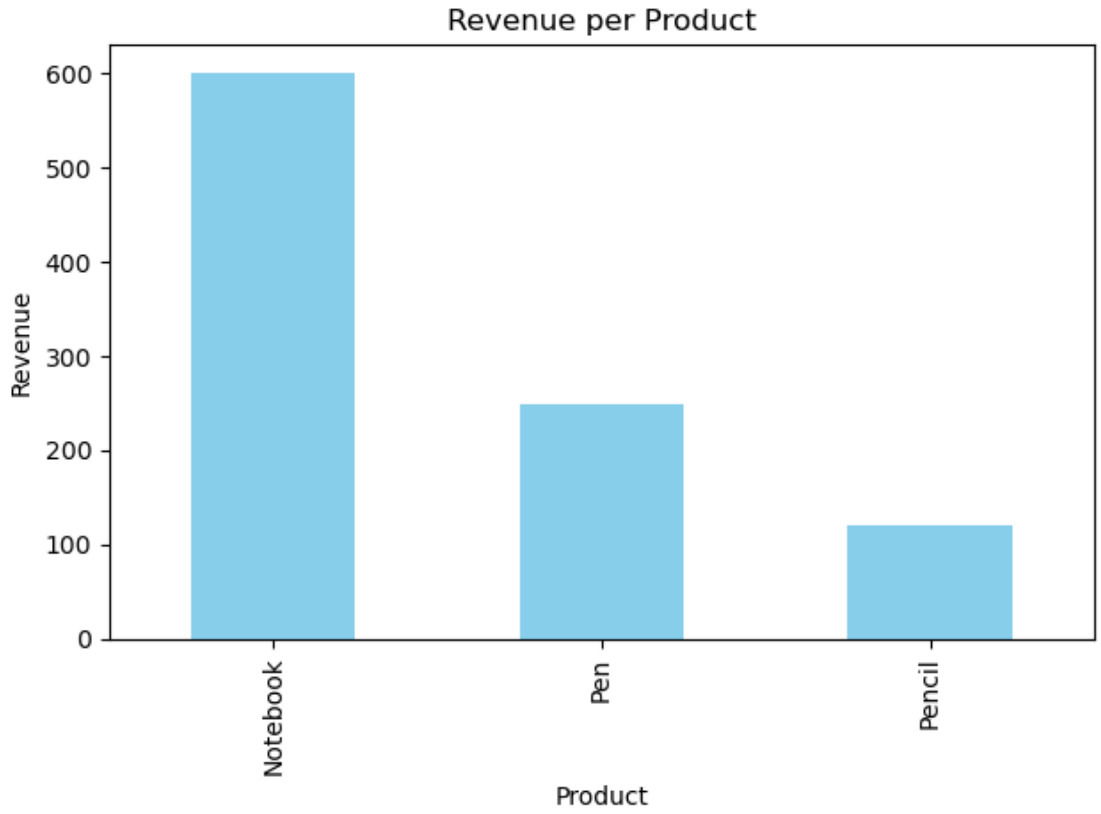
```
import sqlite3
import pandas as pd
import matplotlib.pyplot as plt

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

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

sample_data = [
    ('Pen', 10, 5.00),
    ('Notebook', 5, 25.00),
    ('Pencil', 20, 2.00),
    ('Pen', 15, 5.00),
    ('Notebook', 7, 25.00),
    ('Pencil', 10, 2.00)
]

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)

plt.figure(figsize=(8,5))
df.plot(kind='bar', x='product', y='revenue', color='skyblue', legend=False)
plt.title("Revenue per Product")
plt.xlabel("Product")
plt.ylabel("Revenue")
plt.tight_layout()
plt.savefig("sales_chart.png")
plt.show()
conn.close()
```

```
Sales Summary:
     product  total_qty  revenue
0  Notebook         24    600.0
```

1 Pen 50 250.0
2 Pencil 60 120.0

<Figure size 800x500 with 0 Axes>



Objective:

Use SQL inside Python to pull simple sales information such as:

- Total quantity sold
- Total revenue per product
- And display it using:
- Basic print statements
- A simple bar chart

Tools Used:

- Python
- SQLite3
- Pandas
- Matplotlib

Dataset:

We will create a local SQLite database file named sales_data.db and insert some sample records into a sales table.