TASK 7: Get Basic Sales Summary from a Tiny SQLite Database using Python

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# Basic Sales Summary using Python + SQLite
# Step 1: Import libraries
import sqlite3
import pandas as pd
import matplotlib.pyplot as plt

# Step 2: Connect to SQLite database (file auto create hogi)
conn = sqlite3.connect("sales_data.db")
cursor = conn.cursor()

# Step 3: Create 'sales' table
cursor.execute("""
CREATE TABLE IF NOT EXISTS sales (
    id INTEGER PRIMARY KEY AUTOINCREMENT,
    product TEXT,
    quantity INTEGER,
    price REAL
)

****)
```

```
# Step 4: Insert sample data

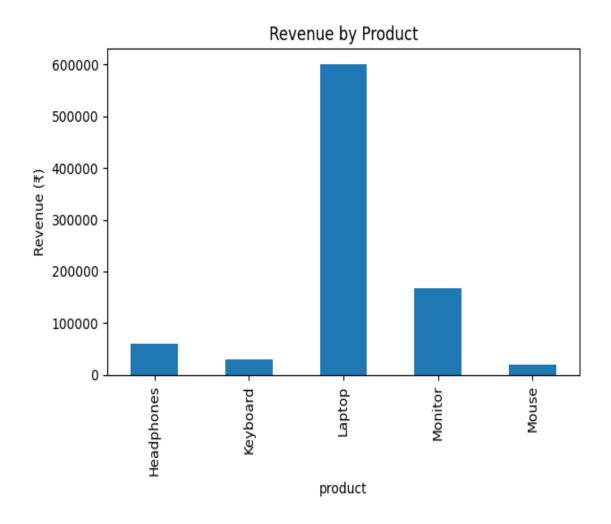
data = [
    ("Laptop", 5, 60000),
    ("Mouse", 20, 500),
    ("Keyboard", 10, 1500),
    ("Wonitor", 7, 12000),
    ("Headphones", 15, 2000)
]

cursor.executemany("INSERT INTO sales (product, quantity, price) VALUES (?, ?, ?)", data)

conn.commit()

print("▼ Sample data inserted successfully!")
```

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# Step 7: Save chart (optional)
    plt.savefig("sales_chart.png")
    # Step 8: Close connection
    conn.close()
    ₹
      Sample data inserted successfully!
       Sales Summary:
         product
                 total_qty
                             revenue
    0
       Headphones
                             60000.0
                        30
    1
        Keyboard
                        20
                             30000.0
    2
          Laptop
                        10
                            600000.0
         Monitor
                            168000.0
                        14
           Mouse
                        40
                             20000.0
```



Outcome of Task:

By completing this task, I have successfully:

- Learned how to connect Python with a SQLite database using the sqlite3 library.
- Practiced writing and executing SQL queries inside Python.
- Imported query results into Pandas DataFrame for analysis.
- Calculated total quantity sold and total revenue for each product.
- Displayed the sales summary output using print statements.
- Created and visualized a simple bar chart (Revenue by Product) using Matplotlib.

Final Result: A clear and well-labeled bar chart showing revenue by product, along with a table summarizing total quantity and revenue per product.