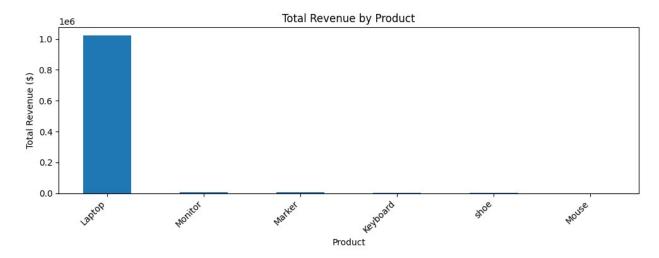
SQL INTO PYTHON

```
import sqlite3
import pandas as pd
import matplotlib.pyplot as plt
print("--- Starting Database Setup ---")
--- Starting Database Setup ---
conn = sqlite3.connect('sales_data.db')
cursor = conn.cursor()
cursor.execute('''
    CREATE TABLE IF NOT EXISTS sales (
        ID INTEGER PRIMARY KEY AUTOINCREMENT,
        Product TEXT NOT NULL,
        Country TEXT NOT NULL,
        Quantity INTEGER NOT NULL,
        Price REAL NOT NULL
''')
sample_data = [
    ('Laptop', "africa", 27, 4200.00),
    ('Mouse', "america", 5, 25.50), ('Keyboard', "asia", 3, 75.00),
    ('Monitor',"UK", 7, 120.00),
('Laptop',"Iceland", 1, 1200.00),
1
cursor.executemany("INSERT INTO sales (Product, Country, Quantity,
Price) VALUES (?, ?, ?)", sample data)
conn.commit()
print("Sample data inserted successfully.")
Sample data inserted successfully.
query = """
    SELECT
        Product,
        SUM(Quantity) AS total_qty,
        SUM(Quantity * Price) AS total revenue
    FROM
        sales
    GROUP BY
        Product
    ORDER BY
        total revenue DESC
0.00
df = pd.read sql query(query, conn)
```

```
print("\n--- Basic Sales Summary ---")
print(df)
--- Basic Sales Summary ---
    Product total qty total revenue
0
    Laptop
                   246
                             1024200.0
1
    Monitor
                    63
                                7560.0
2
     Marker
                                7200.0
                     6
3
                    27
   Keyboard
                                2025.0
4
                    30
                                 765.0
       shoe
5
                    15
                                 382.5
      Mouse
total_overall_revenue = df['total_revenue'].sum()
print(f"\nOverall Total Revenue: ${total overall revenue:,.2f}")
Overall Total Revenue: $1,042,132.50
```

BAR CHART



SAVING CHART

```
plt.savefig("sales_chart.png")
<Figure size 640x480 with 0 Axes>
```