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In [1]: import sqlite3

In [2]: conn = sqlite3.connect("sales_db.db") #created a database sales_db

In [3]: cursor = conn.cursor()

In [4]: #Creating a table
cursor.execute("""
    CREATE TABLE IF NOT EXISTS sale (
        id INTEGER PRIMARY KEY,
        product TEXT,
        quantity INTEGER,
        price REAL
    );
""")

Out[4]: <sqlite3.Cursor at 0x2bb7cb099c0>

In [5]: # Insert sample data
sales_data = [
    (101,'Oven', 10, 3000),
    (102,'Refridgerator', 16, 30000),
    (103,'Mixer', 15, 2500),
    (104,'Washing Machine', 5, 35000),
    (105,'Dining Set', 6, 5000),
    (106,'Utensils set', 20, 7000)
]

In [6]: cursor.executemany("INSERT INTO sale (id, product, quantity, price) VALUES (?, ?, ?,? );",sales_data)

Out[6]: <sqlite3.Cursor at 0x2bb7cb099c0>

In [7]: conn = sqlite3.connect("sales_db.db")

In [8]: query = """
SELECT
    product,
    SUM(quantity) AS total_qty,
    SUM(quantity * price) AS revenue
FROM sale
GROUP BY product;
"""

In [9]: # Load data into a pandas DataFrame
import pandas as pd

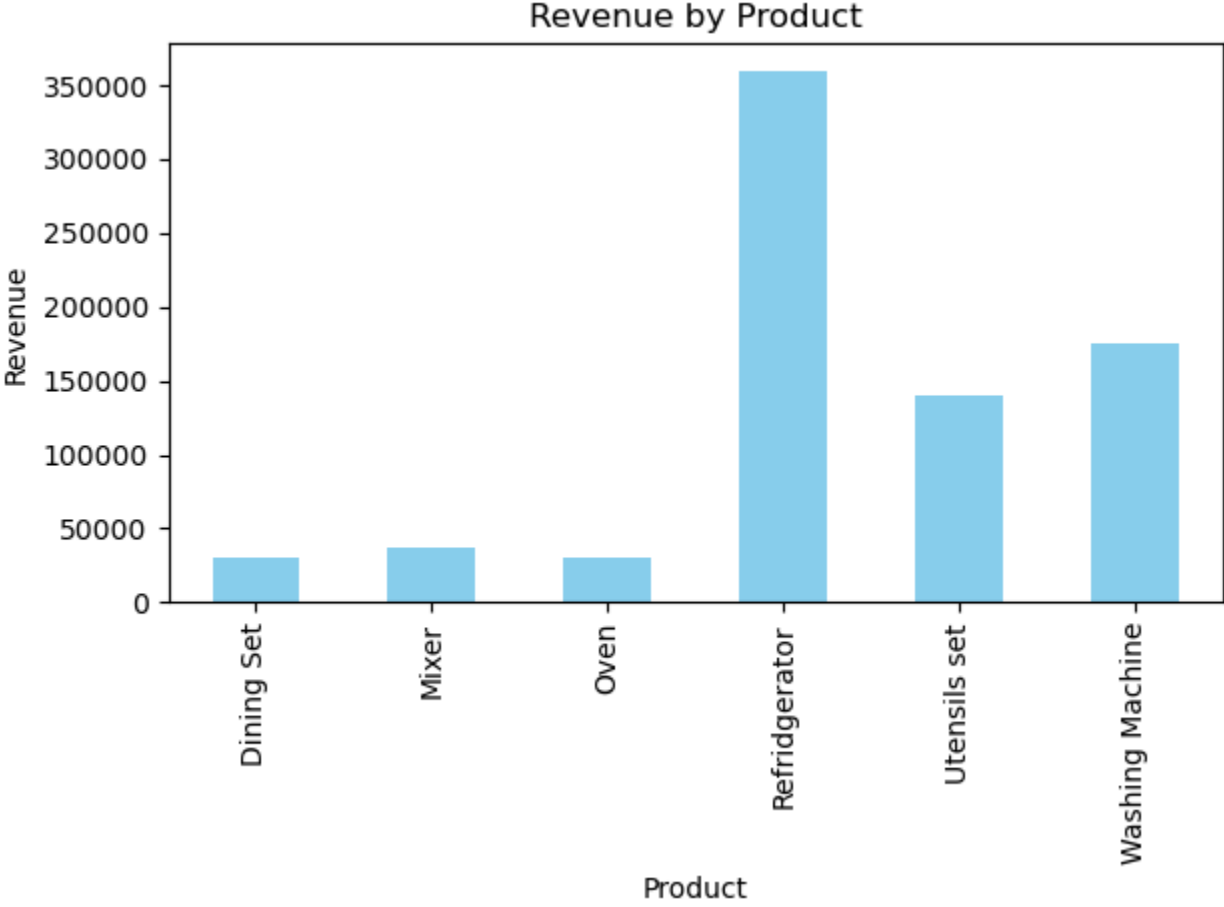
df = pd.read_sql_query(query,conn)
print(df)

      product  total_qty  revenue
0    Dining Set         6   30000.0
1         Mixer        15   37500.0
2         Oven        10   30000.0
3  Refridgerator        12  360000.0
4   Utensils set        20  140000.0
5  Washing Machine         5  175000.0

In [10]: import matplotlib.pyplot as plt

plt.figure(figsize=(8, 5))
df.plot(kind='bar', x='product', y='revenue', legend=False, color='skyblue')
plt.title("Revenue by Product")
plt.xlabel("Product")
plt.ylabel("Revenue")
plt.tight_layout()

<Figure size 800x500 with 0 Axes>
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In [ ]:
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