

```

import sqlite3

# Create connection and cursor
conn = sqlite3.connect("sales_data.db")
cursor = conn.cursor()

# Create a sales table
cursor.execute('''
CREATE TABLE IF NOT EXISTS sales (
    product TEXT,
    quantity INTEGER,
    price REAL
)
''')

# Insert some example data
sample_data = [
    ('Chips', 10, 20.0),
    ('Cookies', 5, 30.0),
    ('Juice', 8, 25.0),
    ('Chips', 6, 20.0),
    ('Cookies', 4, 30.0),
    ('Soda', 12, 18.0),
    ('Chocolate', 7, 40.0),
    ('Candy', 15, 10.0),
    ('Noodles', 9, 35.0),
    ('Juice', 10, 25.0),
    ('Soda', 6, 18.0),
    ('Chips', 8, 20.0),
    ('Chocolate', 5, 40.0),
    ('Cookies', 10, 30.0),
    ('Noodles', 6, 35.0),
    ('Candy', 20, 10.0),
    ('Juice', 7, 25.0),
    ('Biscuits', 11, 22.0),
    ('Biscuits', 9, 22.0),
    ('Energy Drink', 5, 50.0),
    ('Energy Drink', 8, 50.0),
    ('Soda', 10, 18.0),
    ('Chips', 12, 20.0),
    ('Chocolate', 10, 40.0),
    ('Cookies', 6, 30.0),
    ('Candy', 12, 10.0)
]

cursor.executemany("INSERT INTO sales VALUES (?, ?, ?)", sample_data)
conn.commit()
print("Database created and data inserted!")

```

Database created and data inserted!

```

import pandas as pd

query = '''
SELECT product,
       SUM(quantity) AS total_qty,
       SUM(quantity * price) AS total_revenue
FROM sales
GROUP BY product
'''

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

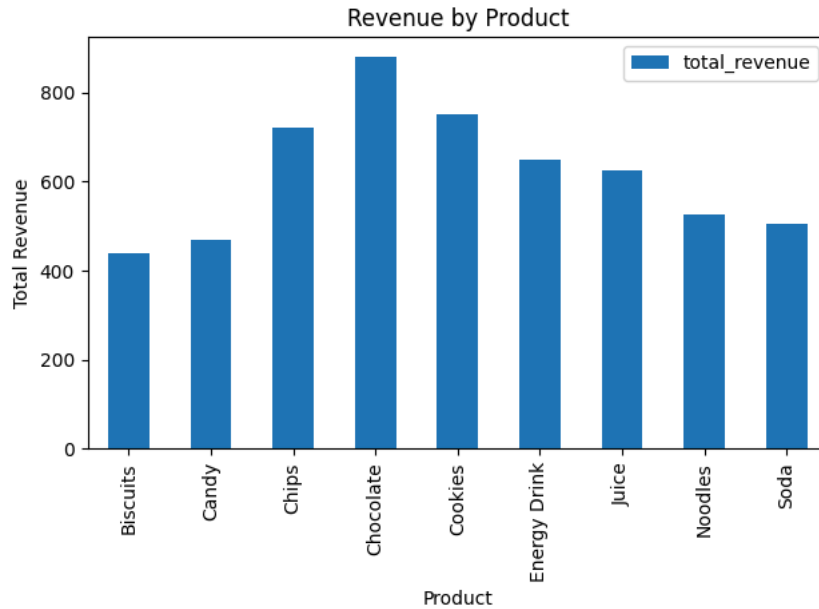
```

	product	total_qty	total_revenue
0	Biscuits	20	440.0
1	Candy	47	470.0
2	Chips	36	720.0
3	Chocolate	22	880.0
4	Cookies	25	750.0
5	Energy Drink	13	650.0
6	Juice	25	625.0
7	Noodles	15	525.0

8      Soda      28      504.0

```
import matplotlib.pyplot as plt

df.plot(kind='bar', x='product', y='total_revenue', title='Revenue by Product')
plt.xlabel('Product')
plt.ylabel('Total Revenue')
plt.tight_layout()
plt.show()
```



```
# Save chart
plt.savefig("sales_chart.png")

# Download files to your system (optional)
from google.colab import files
files.download("sales_data.db")
files.download("sales_chart.png")
```

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