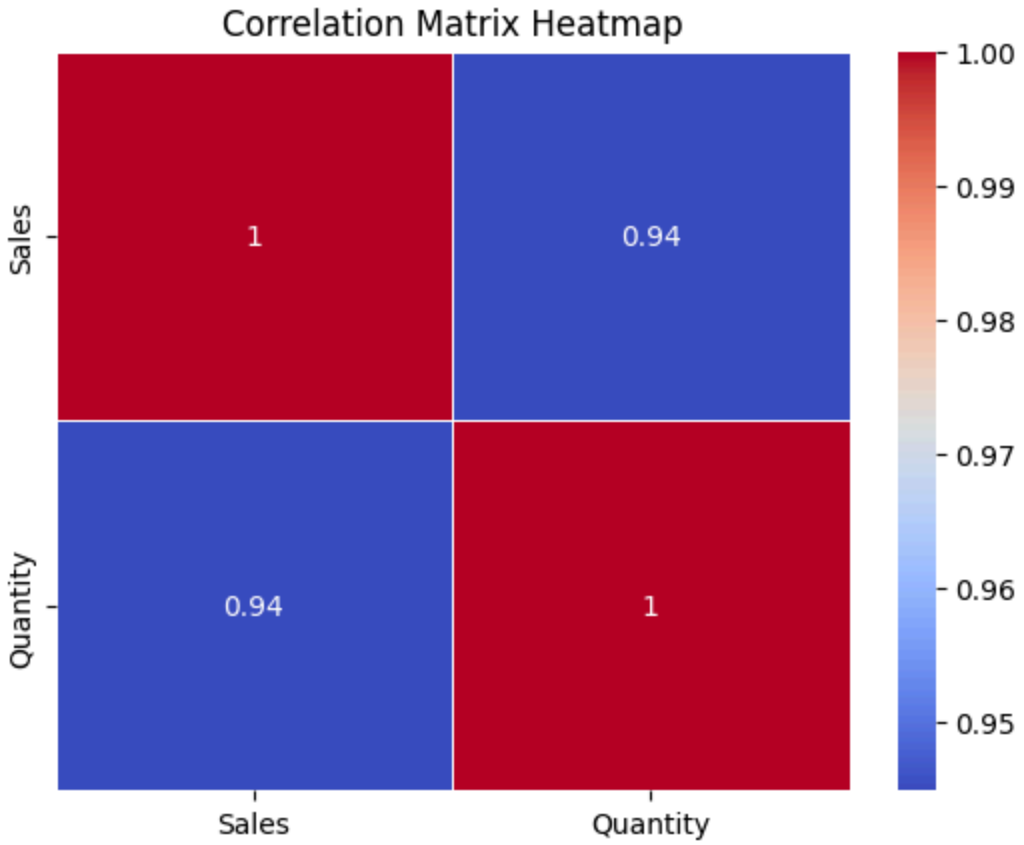
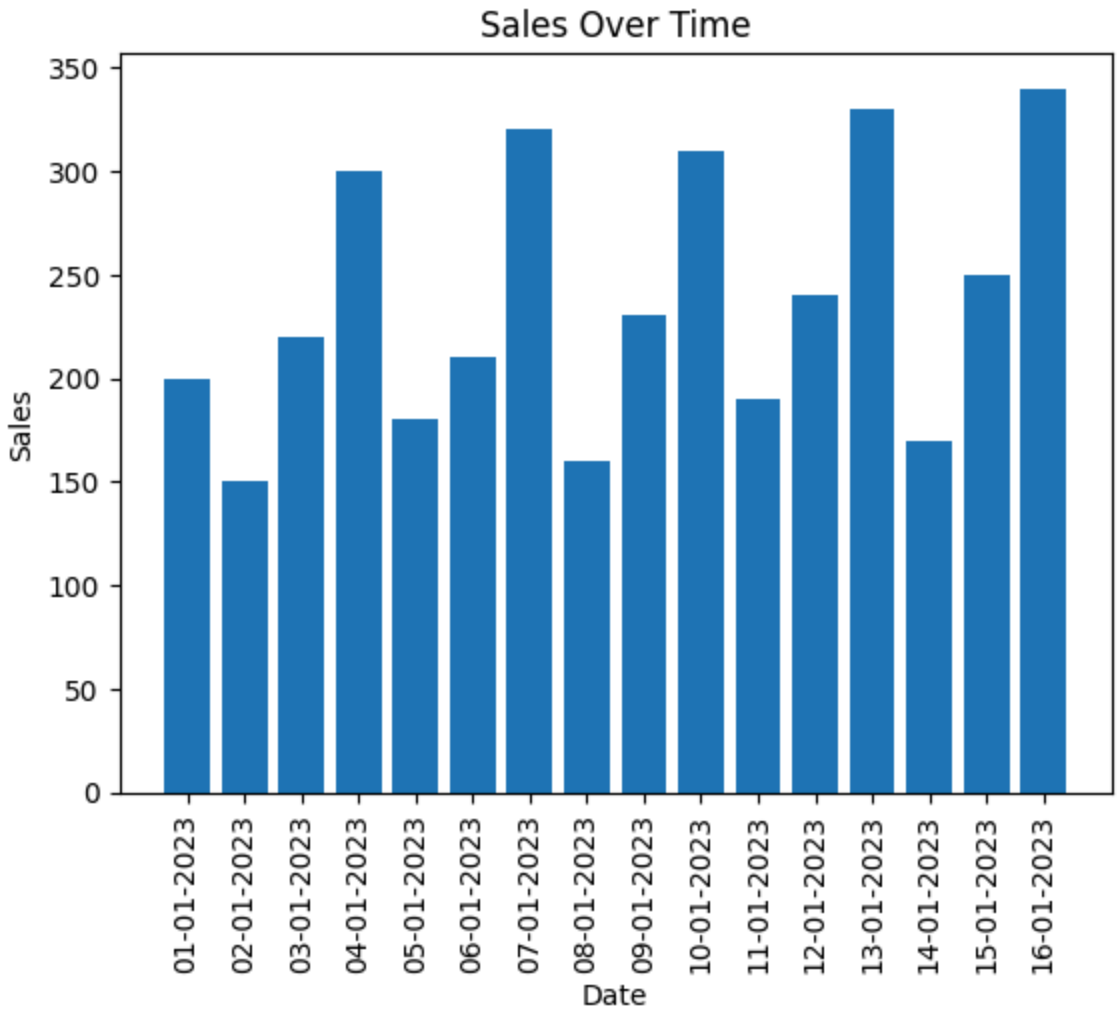
In [5]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline

df = pd.read_csv("sales_data.csv")
correlation_matrix = df.corr(numeric_only = True)
print(correlation_matrix)

#Visualize with a heatmap
sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm', linewidths=0.5)
plt.title("Correlation Matrix Heatmap")
plt.show()
```

```
              Sales  Quantity
Sales      1.000000  0.944922
Quantity   0.944922  1.000000
```

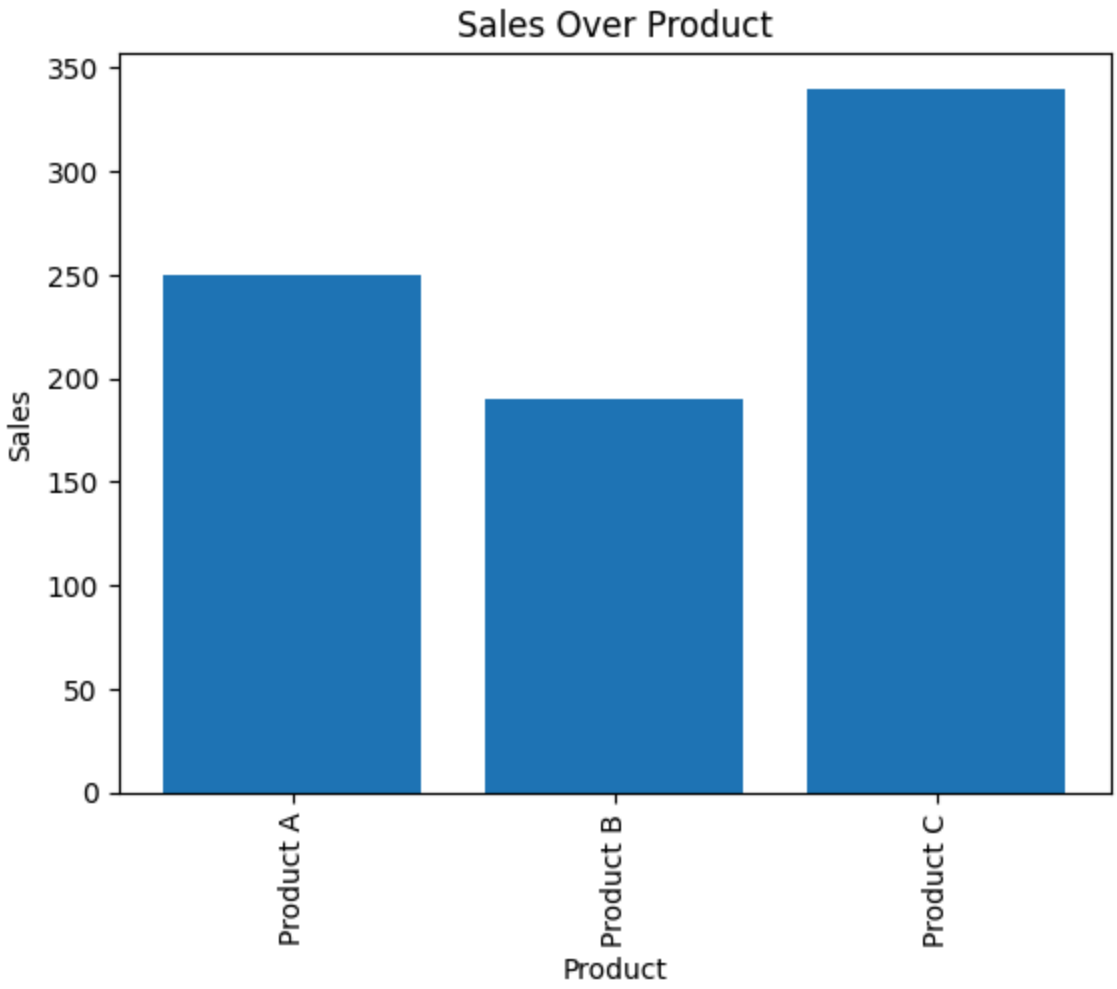



In [6]:
```
df = pd.read_csv("sales_data.csv")
plt.bar(df['Date'], df['Sales'])
plt.xlabel('Date')
plt.ylabel('Sales')
plt.title('Sales Over Time')
plt.xticks(rotation='vertical')
plt.figure(figsize=(10, 6))
plt.show()
```




<Figure size 1000x600 with 0 Axes>

In [8]:
```
df = pd.read_csv("sales_data.csv")
plt.bar(df['Product'], df['Sales'])
plt.xlabel('Product')
plt.ylabel('Sales')
plt.title('Sales Over Product')
plt.xticks(rotation='vertical')
plt.figure(figsize=(10, 6))
plt.show()
```




```
<Figure size 1000x600 with 0 Axes>
```

In [ ]: