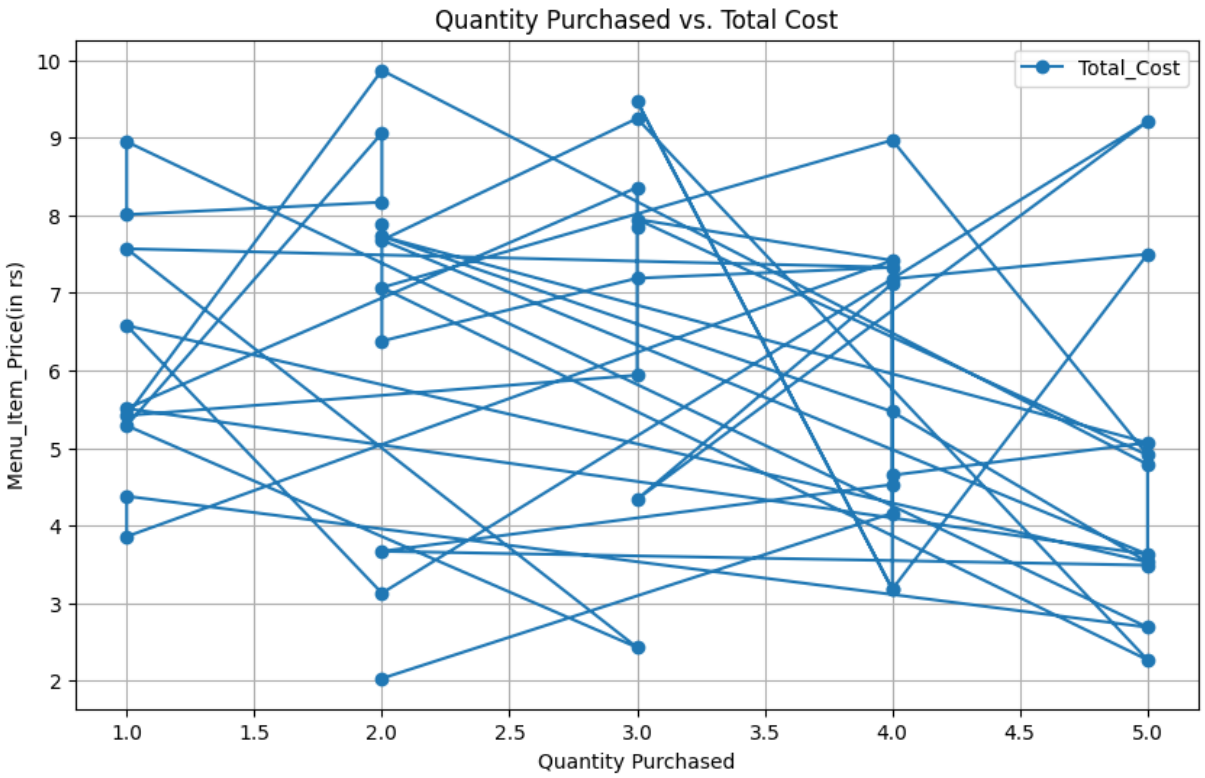
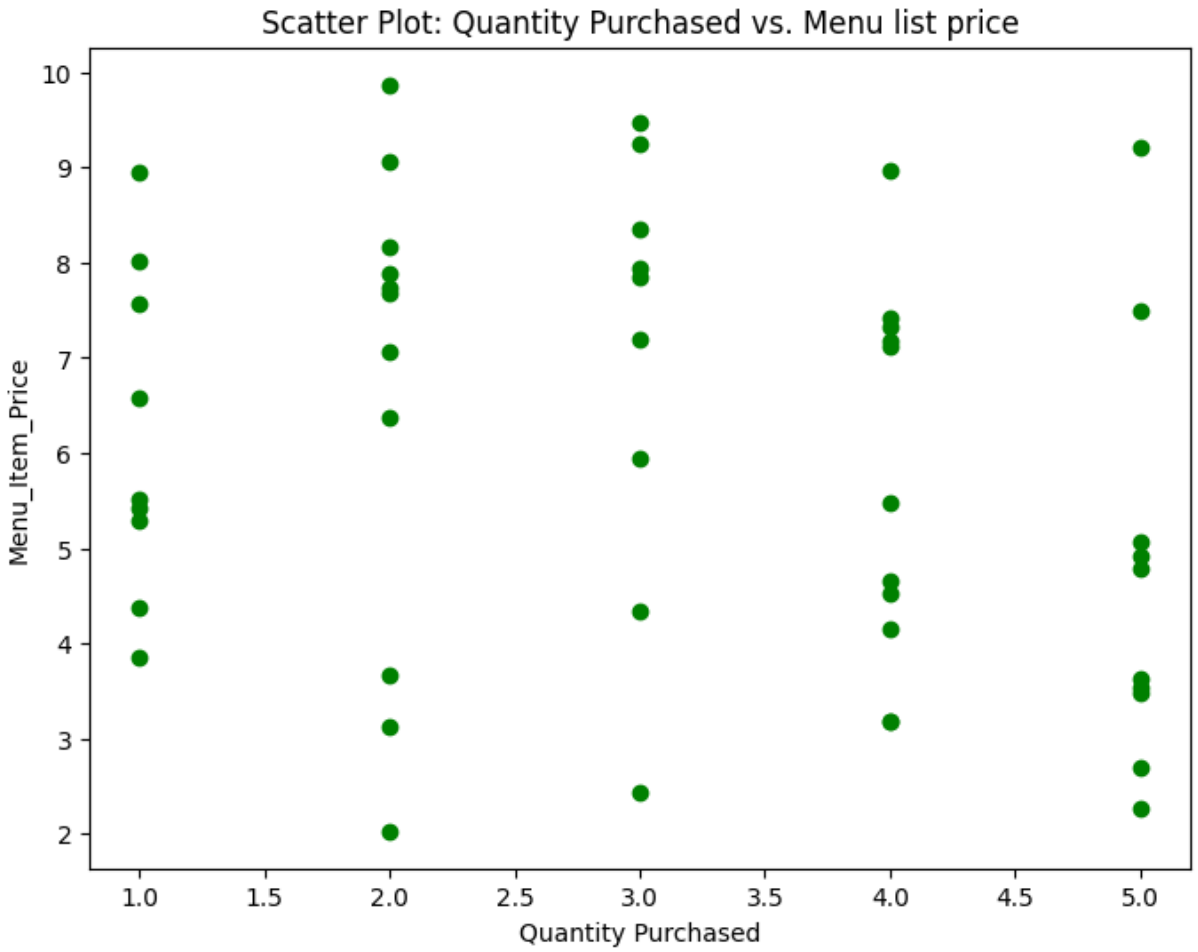
In [ ]:
```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
data = 'university_canteen_data.csv'
df = pd.read_csv(data)
df=df.head(50)
plt.figure(figsize=(10, 6))
plt.plot(df['Quantity_Purchased'], df['Menu_Item_Price'], label='Total_Cost', marke
plt.title('Quantity Purchased vs. Total Cost')
plt.xlabel('Quantity Purchased')
plt.ylabel('Menu_Item_Price(in rs)')
plt.legend()
plt.grid()
plt.show()
```



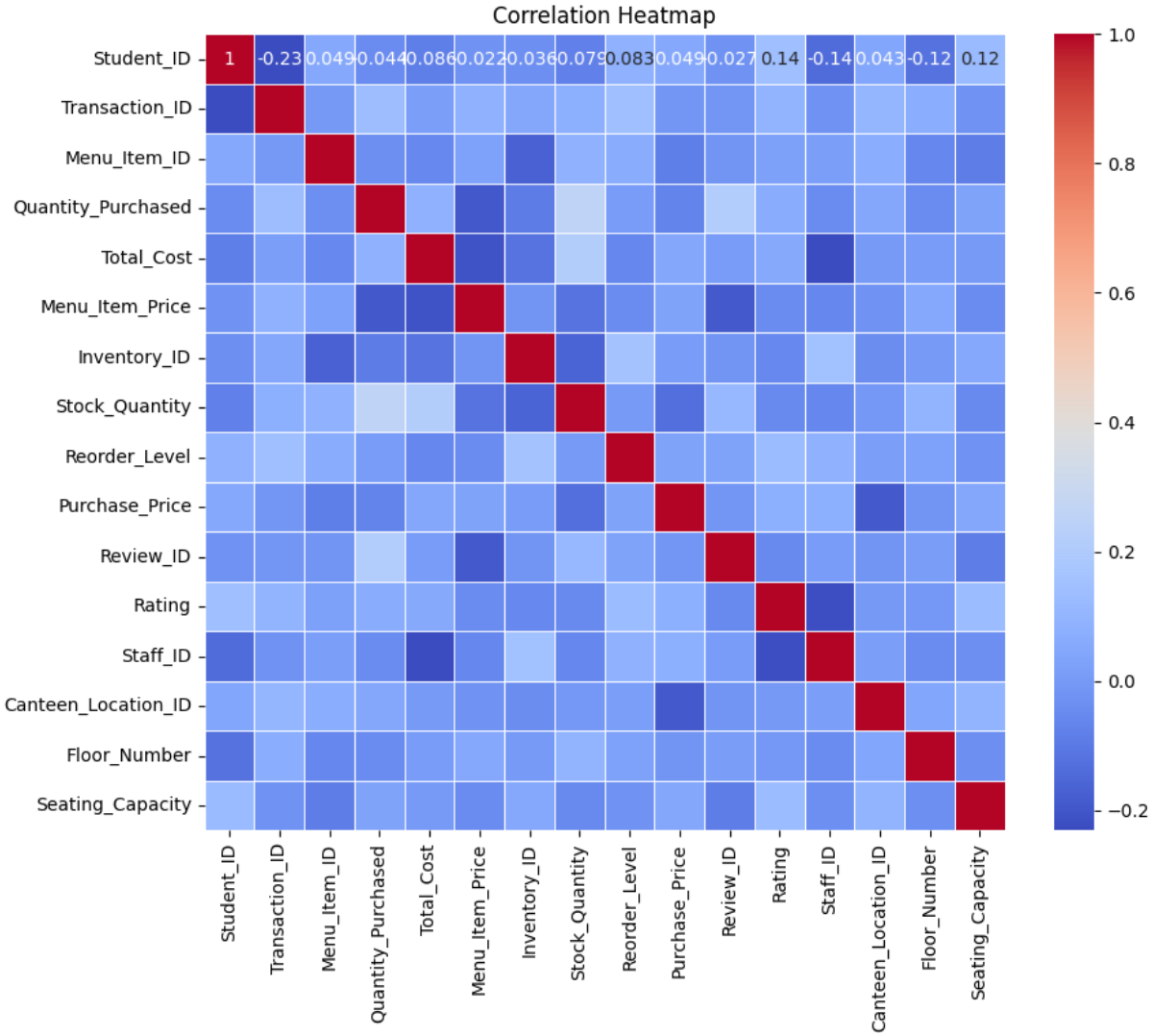
In [ ]:
```
import pandas as pd
import matplotlib.pyplot as plt

# Load your dataset from the CSV file
data = 'university_canteen_data.csv'
df = pd.read_csv(data)

# Decrease the width of the bars (adjust the value as needed)
bar_width = 0.4  # Change this value to make the bars narrower or wider

# Create a bar graph for Quantity Purchased vs. Menu Item Price
plt.figure(figsize=(10, 6))
plt.bar(df['Quantity_Purchased'], df['Menu_Item_Price'], color='skyblue', width=bar
plt.title('Bar Graph: Quantity Purchased vs. Menu Item Price')
plt.xlabel('Quantity Purchased')
```

```
plt.ylabel('Menu Item Price (in rs)')
plt.grid(axis='y')
plt.show()
```

In [ ]:
```
plt.figure(figsize=(8, 6))
plt.scatter(df['Quantity_Purchased'], df['Menu_Item_Price'], color='green', marker=
plt.title('Scatter Plot: Quantity Purchased vs. Menu list price')
plt.xlabel('Quantity Purchased')
plt.ylabel('Menu_Item_Price')
plt.show()
```



In [ ]:
```python
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

# Load your dataset from the CSV file
data = 'university_canteen_data.csv'
df = pd.read_csv(data)

# Select only numeric columns for correlation
numeric_columns = df.select_dtypes(include=['number'])

# Compute the correlation matrix
correlation_matrix = numeric_columns.corr()

# Create a correlation heatmap
plt.figure(figsize=(10, 8))
sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm', linewidths=0.5)
plt.title('Correlation Heatmap')
plt.show()
```


Correlation Heatmap
Student_ID
Transaction_ID
Menu_Item_ID
Quantity_Purchased
Total_Cost
Menu_Item_Price
Inventory_ID
Stock_Quantity
Reorder_Level
Purchase_Price
Review_ID
Rating
Staff_ID
Canteen_Location_ID
Floor_Number
Seating_Capacity
1 -0.23 0.049 0.044 0.086 0.022 0.036 0.079 0.083 0.049 0.027 0.14 -0.14 0.043 -0.12 0.12
1.0
0.8
0.6
0.4
0.2
0.0
−0.2