

```
# Q1
# Ans:
import seaborn as sns
import plotly.express as px

# Load the Titanic dataset from Seaborn
titanic = sns.load_dataset('titanic')

# Create a scatter plot using Plotly Express
fig = px.scatter(titanic, x='age', y='fare', title='Scatter Chart of Titanic',
                 labels={'age': 'Age', 'fare': 'Fare'}, color='class')

# Show the chart
fig.show()
```



Scatter Chart of Titanic



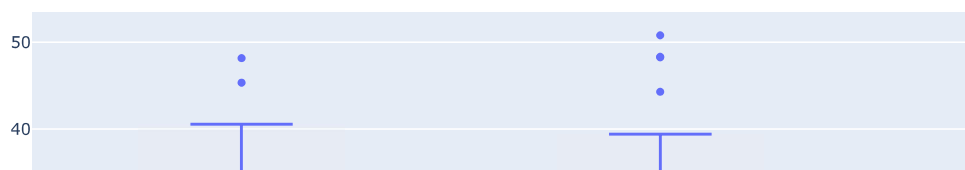
```
# Q2
# Ans:
import plotly.express as px

# Load the tips dataset
tips = px.data.tips()

# Create a box plot using Plotly Express
fig = px.box(tips, x='day', y='total_bill', title='Box Plot of Total Bill Amounts by Day')

# Show the plot
fig.show()
```

Box Plot of Total Bill Amounts by Day



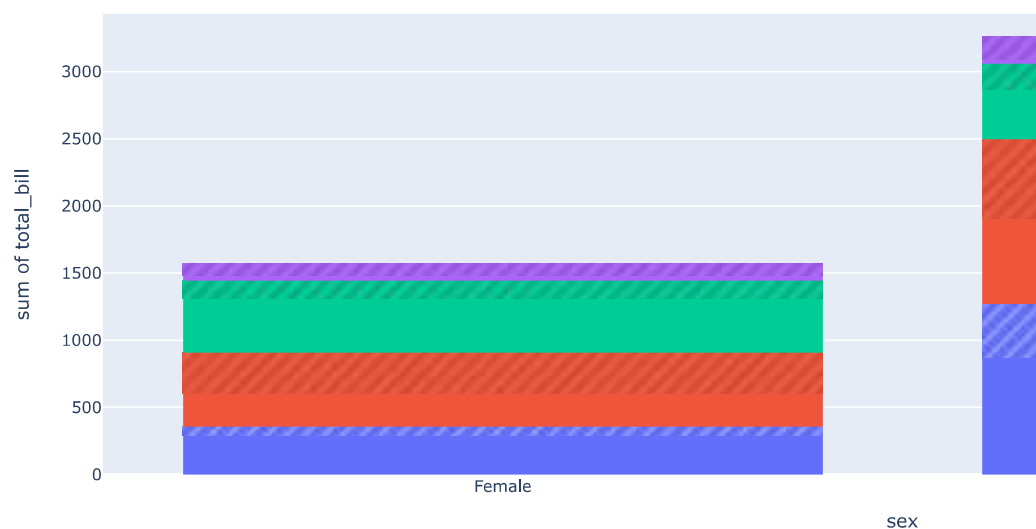
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#Q3
#Ans:
import plotly.express as px

# Load the tips dataset
tips = px.data.tips()

# Create a histogram using Plotly Express
fig = px.histogram(tips, x='sex', y='total_bill', color='day', pattern_shape='smoker',
                  title='Histogram of Total Bill Amounts by Sex')

# Show the plot
fig.show()
```

Histogram of Total Bill Amounts by Sex



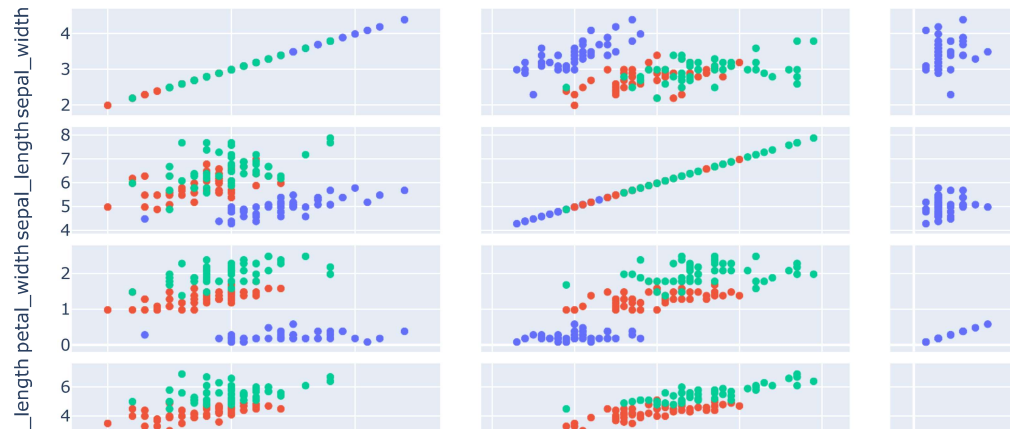
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#Q4
import plotly.express as px

# Load the iris dataset
iris = px.data.iris()

# Create a scatter matrix plot using Plotly Express
fig = px.scatter_matrix(iris, dimensions=["sepal_width", "sepal_length", "petal_width", "petal_length"],
                      color="species", title="Scatter Matrix Plot of Iris Dataset")

# Show the plot
fig.show()
```

Scatter Matrix Plot of Iris Dataset



```
#Q5
#Ans:
import plotly.express as px

# Load sample data
data = px.data.tips()

# Create a distplot using Plotly Express
fig = px.histogram(data, x='total_bill', marginal='rug', title='Distplot of Total Bill Amounts')

# Show the plot
fig.show()
```

Distplot of Total Bill Amounts

