```python
# ----------------------------------------------------
# Identify Relationships and Trends
# ----------------------------------------------------
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
from google.colab import files

uploaded = files.upload()
train = pd.read_csv("train.csv")

# ✅ Relationship: Survival by Gender
plt.figure(figsize=(6,4))
sns.countplot(x='Sex', hue='Survived', data=train)
plt.title("Survival Rate by Gender")
plt.show()

# ✅ Relationship: Survival by Passenger Class
plt.figure(figsize=(6,4))
sns.countplot(x='Pclass', hue='Survived', data=train)
plt.title("Survival Rate by Passenger Class")
plt.show()

# ✅ Relationship: Age vs Fare (Scatter)
plt.figure(figsize=(6,4))
sns.scatterplot(x='Age', y='Fare', hue='Survived', data=train)
plt.title("Age vs Fare by Survival")
plt.show()
```

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```
Saving train.csv to train.csv
```


Survival Rate by Gender

Survival Rate by Passenger Class