

```
import pandas as pd
import matplotlib.pyplot as plt

# Load the dataset
data = pd.read_csv("indexData.csv")

# Step 2: Explore the dataset
print("Dataset Summary:")
print(data.info())

# Step 3: Data Preparation and Cleaning (if needed)

# Step 4: Create Plots

# Line Plot
plt.figure(figsize=(10, 6))
plt.plot(data['Date'], data['Close'], label='Closing Price', color='b')
plt.title('Closing Price Over Time')
plt.xlabel('Date')
plt.ylabel('Closing Price')
plt.xticks(rotation=45)
plt.legend()
plt.grid(True)
plt.tight_layout()

# Scatter Plot
plt.figure(figsize=(10, 6))
plt.scatter(data['Volume'], data['High'], alpha=0.5, color='r')
plt.title('Volume vs. High Price')
plt.xlabel('Volume')
plt.ylabel('High Price')
plt.grid(True)
plt.tight_layout()

# Show the plots
plt.show()
```



```
Dataset Summary:
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 112457 entries, 0 to 112456
Data columns (total 8 columns):
#   Column      Non-Null Count  Dtype
---  ---
0   Index       112457 non-null object
1   Date        112457 non-null object
2   Open        110253 non-null float64
3   High        110253 non-null float64
4   Low         110253 non-null float64
5   Close       110253 non-null float64
6   Adj Close   110253 non-null float64
7   Volume      110253 non-null float64
dtypes: float64(6), object(2)
memory usage: 6.9+ MB
None
```

