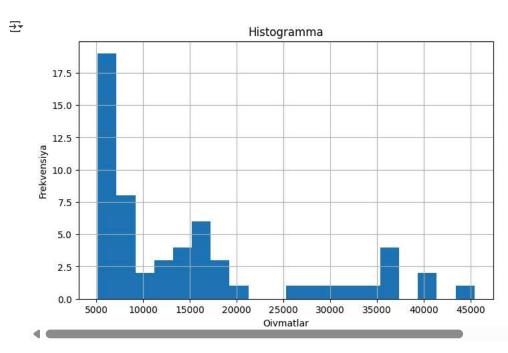
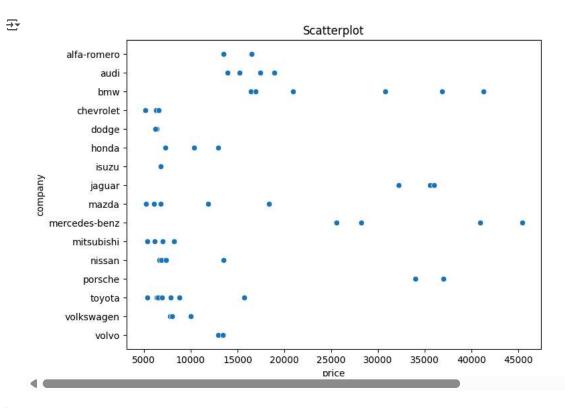
```
# Google Drive'ni ulash
from google.colab import drive
drive.mount('/content/drive')
→ Mounted at /content/drive
# Kutubxonalarni import qilish
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
# Grafiklar Colab'da ko'rinishi uchun
%matplotlib inline
df = pd.read_excel('/content/drive/MyDrive/newcars.xlsx')
df.head()
                       # Dastlabki 5 ta qator
→
          company body-style
                               price
     0 alfa-romero
                    convertible 13495.0
                    convertible 16500.0
     1 alfa-romero
     2 alfa-romero
                    hatchback 16500.0
     3
                        sedan 13950.0
              audi
             audi
                        sedan 17450.0
df.info()
                       # Ustunlar, turlari va null qiymatlar
<class 'pandas.core.frame.DataFrame'>
    RangeIndex: 61 entries, 0 to 60 \,
    Data columns (total 3 columns):
     # Column
                    Non-Null Count Dtype
                      _____
     0
         company
                      61 non-null
                                       object
         body-style 61 non-null
                                       object
                      58 non-null
                                       float64
         price
    dtypes: float64(1), object(2)
    memory usage: 1.6+ KB
df.describe()
                       # Statistik tavsif
\overline{\mathbf{T}}
                  price
              58.000000
     count
            15387.000000
     mean
      std
            11320.259841
             5151.000000
      min
      25%
             6808.500000
            11095.000000
      50%
            18120.500000
      75%
      max
            45400.000000
df.isnull().sum()
                       # Har bir ustundagi null qiymatlar soni
→
                0
      company 0
     body-style 0
        price
                3
```

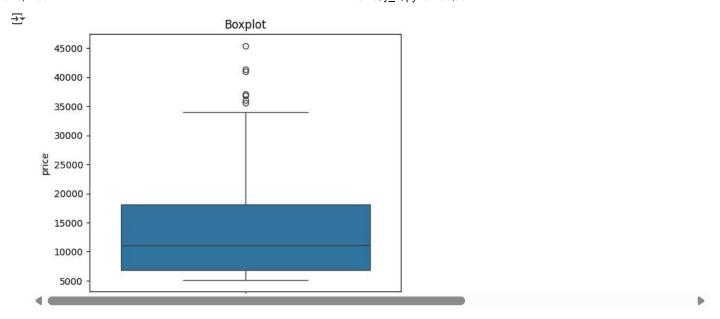
```
# Histogramma
plt.figure(figsize=(8,5))
df['price'].hist(bins=20)
plt.title('Histogramma')
plt.xlabel('Qiymatlar')
plt.ylabel('Frekvensiya')
plt.show()
```



```
# Scatterplot
plt.figure(figsize=(8,6))
sns.scatterplot(x='price', y='company', data=df)
plt.title('Scatterplot')
plt.show()
```



```
# Boxplot
plt.figure(figsize=(6,5))
sns.boxplot(data=df, y='price')
plt.title('Boxplot')
plt.show()
```



df.shape

→ (61, 3)

Hisobot

- # **Ma'lumotlar tahlili xulosasi:**
- # Datasetda jami 61 ta qator va 3 ta ustun mavjud.
- # Ba'zi ustunlarda null qiymatlar mavjud va ular tozalanishi kerak.
- $\mbox{\tt\#}$ Histogramma asosida price o'zgaruvchining taqsimoti aniqlanadi.
- # Scatterplot orgali price va company orasida ijobiy bogʻliqlik mavjudligi koʻrinadi.
- # Boxplotda esa outlierlar mavjudligi aniqlanadi.
- # **Xulosa:**
- # Ushbu ma'lumotlar keyinchalik mashinani o'rganish uchun mos.
- $\mbox{\tt\#}$ Tahlil asosida asosiy muhim ustunlar ajratib olindi.