**Visualization Of Data**

**# Step 1**

import pandas as pd

import matplotlib.pyplot as plt

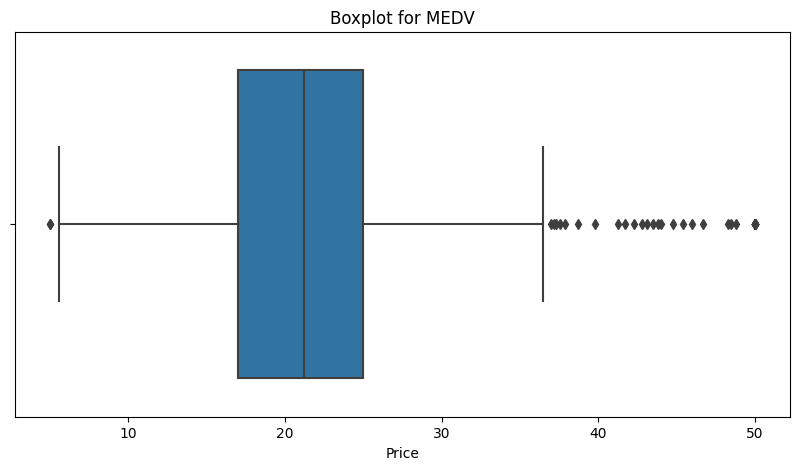
import seaborn as sns

import scipy

import warnings

warnings.filterwarnings('ignore')

boston\_df=pd.read\_csv('/content/boston.csv')

print(boston\_df)

**Output**

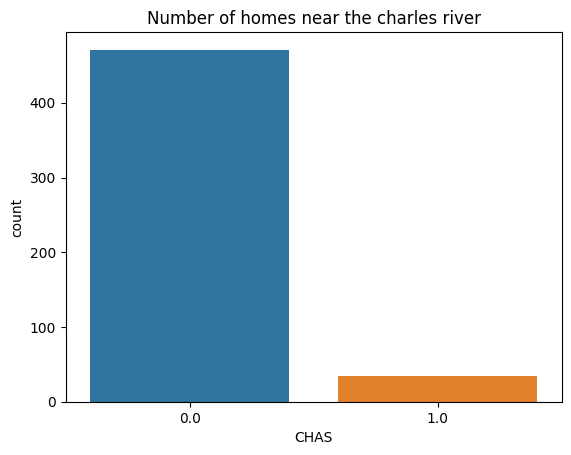
**# Step 2**

plt.figure(figsize=(10,5))

sns.boxplot(x = boston\_df.Price)

plt.title('Boxplot for MEDV')

plt.show()



**Output**

**# Step 3**

ax2 = sns.countplot

(x='CHAS', data=boston\_df)

ax2.set\_title

('No. of homes near charles river')

**# Step 4**

boston\_df.loc[(boston\_df["AGE"]<35),"AGE\_GROUP"] = "35 years and younger"

boston\_df.loc[(boston\_df["AGE"]<35) & (boston\_df["AGE"]<70) ,"AGE\_GROUP"]

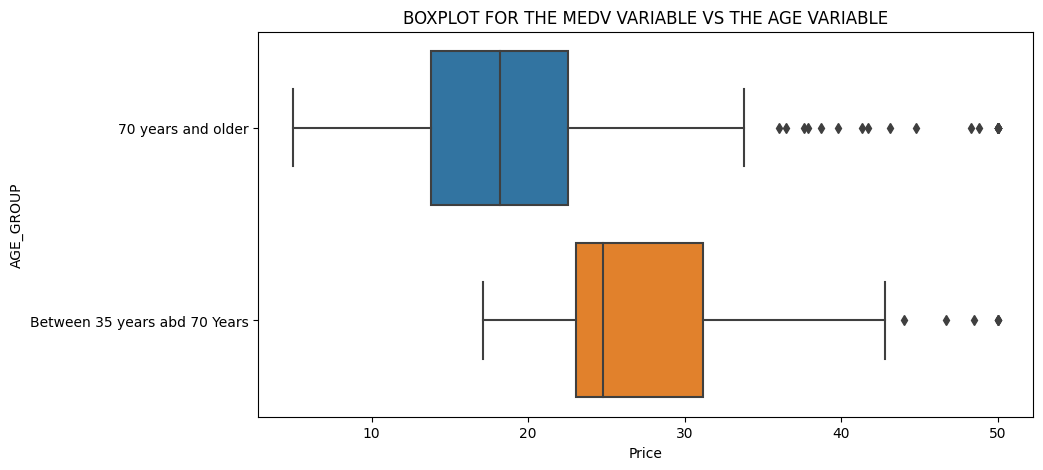
= "Between 35 years abd 70 Years"

boston\_df.loc[(boston\_df["AGE"]>=70),"AGE\_GROUP"] = "70 years and older"

plt.figure(figsize=(10,5))

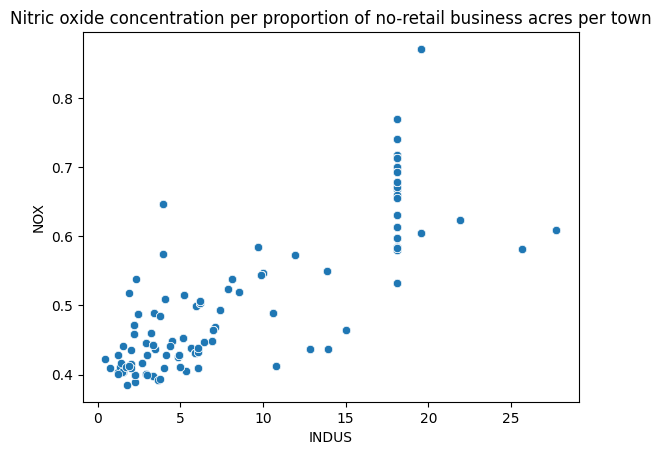
sns.boxplot(x=boston\_df.Price, y=boston\_df.AGE\_GROUP, data=boston\_df)

plt.title("BOXPLOT FOR THE MEDV VARIABLE VS THE AGE VARIABLE")

plt.show()

**Output**

ax4 = sns.scatterplot(y='NOX', x="INDUS", data=boston\_df)

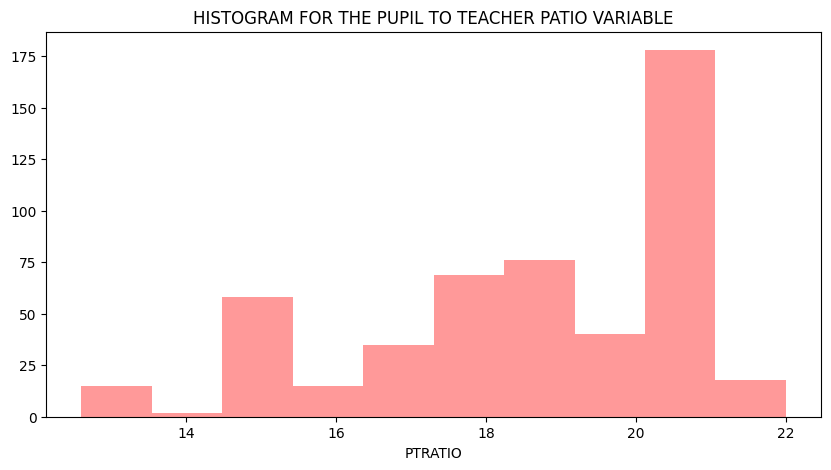
ax4.set\_title("Nitric oxide concentration per proportion of no-retail business acres per town")

**Output**

plt.figure(figsize=(10,5))

sns.distplot(a=boston\_df.PTRATIO, bins=10, kde=False, color="red")

plt.title("HISTOGRAM FOR THE PUPIL TO TEACHER PATIO VARIABLE")

plt.show()

**Output**