PRACTICAL-7 Visualization Of Data

Step 1

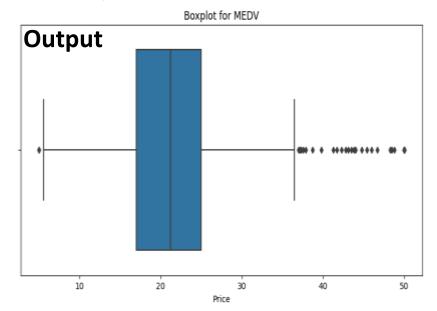
import pandas as pd import matplotlib.pyplot as plt import seaborn as sns import scipy import warnings warnings.filterwarnings('ignore')

boston_df=pd.read_csv('/content/boston.csv')

print(boston_df)

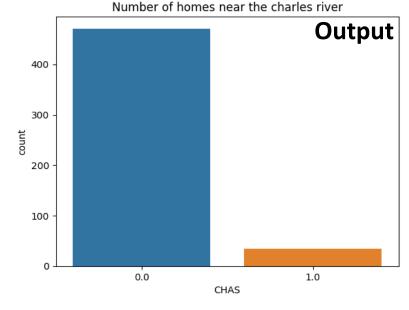
Step 2

plt.figure(figsize=(10,5)) sns.boxplot(x = boston_df.Price) plt.title('Boxplot for MEDV') plt.show()



Step 3

ax2 = sns.countplot (x='CHAS', data=boston_df) ax2.set_title ('No. of homes near charles river')



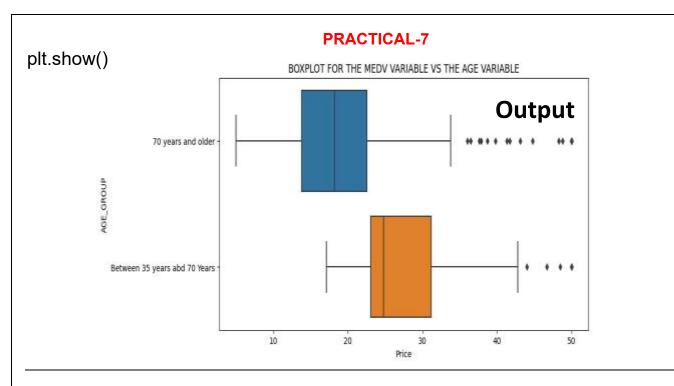
Step 4

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))

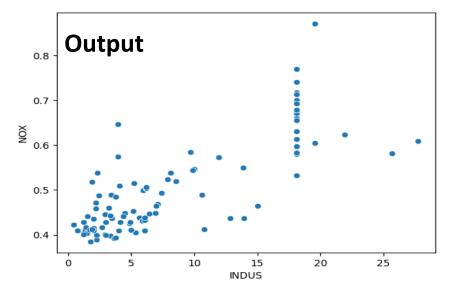
sns.boxplot(x=boston_df.Price, y=boston_df.AGE_GROUP, data=boston_df)
plt.title("BOXPLOT FOR THE MEDV VARIABLE VS THE AGE VARIABLE")

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ax4 = sns.scatterplot(y='NOX', x="INDUS", data=boston_df)
ax4.set_title("Nitric oxide concentration per proportion of no-retail business acres





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()

histogram for the pupil to teacher patio variable

