

DSC540-T301_2237-1_Samanta_Rajib_3_4

July 2, 2023

```
[316]: # Class : DSC540-T301 Data Preparation (2237-1)
# Name : Rajib Samanta
# Assignment : Week 3 & 4 Exercises
## Assignment 1: Data Wrangling with Python: Activity 5, page 116

import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

# Read in the Boston housing dataset (given as a .csv file) from the github
↳direction:

url = 'https://raw.githubusercontent.com/tirthajyoti/Packt-Data_Wrangling/
↳master/Lesson%203/Boston_housing.csv'
data = pd.read_csv(url)

# Display the DataFrame
data.head(10)
```

```
[316]:
```

	CRIM	ZN	INDUS	CHAS	NOX	RM	AGE	DIS	RAD	TAX	PTRATIO	\
0	0.00632	18.0	2.31	0	0.538	6.575	65.2	4.0900	1	296	15.3	
1	0.02731	0.0	7.07	0	0.469	6.421	78.9	4.9671	2	242	17.8	
2	0.02729	0.0	7.07	0	0.469	7.185	61.1	4.9671	2	242	17.8	
3	0.03237	0.0	2.18	0	0.458	6.998	45.8	6.0622	3	222	18.7	
4	0.06905	0.0	2.18	0	0.458	7.147	54.2	6.0622	3	222	18.7	
5	0.02985	0.0	2.18	0	0.458	6.430	58.7	6.0622	3	222	18.7	
6	0.08829	12.5	7.87	0	0.524	6.012	66.6	5.5605	5	311	15.2	
7	0.14455	12.5	7.87	0	0.524	6.172	96.1	5.9505	5	311	15.2	
8	0.21124	12.5	7.87	0	0.524	5.631	100.0	6.0821	5	311	15.2	
9	0.17004	12.5	7.87	0	0.524	6.004	85.9	6.5921	5	311	15.2	

	B	LSTAT	PRICE
0	396.90	4.98	24.0
1	396.90	9.14	21.6
2	392.83	4.03	34.7
3	394.63	2.94	33.4
4	396.90	5.33	36.2

5	394.12	5.21	28.7
6	395.60	12.43	22.9
7	396.90	19.15	27.1
8	386.63	29.93	16.5
9	386.71	17.10	18.9

```
[317]: # Find the total number of records:
data.shape
```

```
[317]: (506, 14)
```

```
[318]: # Create a smaller DataFrame with columns that do not include CHAS, NOX, B, and
↳LSTAT:
##. Specify the column name for the dataframe
data1=data[['CRIM','ZN','INDUS','RM','AGE','DIS','RAD','TAX','PTRATIO','PRICE']]
data1.head(5)
```

```
[318]:
```

	CRIM	ZN	INDUS	RM	AGE	DIS	RAD	TAX	PTRATIO	PRICE
0	0.00632	18.0	2.31	6.575	65.2	4.0900	1	296	15.3	24.0
1	0.02731	0.0	7.07	6.421	78.9	4.9671	2	242	17.8	21.6
2	0.02729	0.0	7.07	7.185	61.1	4.9671	2	242	17.8	34.7
3	0.03237	0.0	2.18	6.998	45.8	6.0622	3	222	18.7	33.4
4	0.06905	0.0	2.18	7.147	54.2	6.0622	3	222	18.7	36.2

```
[319]: # Check the last 7 records of the new DataFrame you just created: Use tail
↳function
data1.tail(7)
```

```
[319]:
```

	CRIM	ZN	INDUS	RM	AGE	DIS	RAD	TAX	PTRATIO	PRICE
499	0.17783	0.0	9.69	5.569	73.5	2.3999	6	391	19.2	17.5
500	0.22438	0.0	9.69	6.027	79.7	2.4982	6	391	19.2	16.8
501	0.06263	0.0	11.93	6.593	69.1	2.4786	1	273	21.0	22.4
502	0.04527	0.0	11.93	6.120	76.7	2.2875	1	273	21.0	20.6
503	0.06076	0.0	11.93	6.976	91.0	2.1675	1	273	21.0	23.9
504	0.10959	0.0	11.93	6.794	89.3	2.3889	1	273	21.0	22.0
505	0.04741	0.0	11.93	6.030	80.8	2.5050	1	273	21.0	11.9

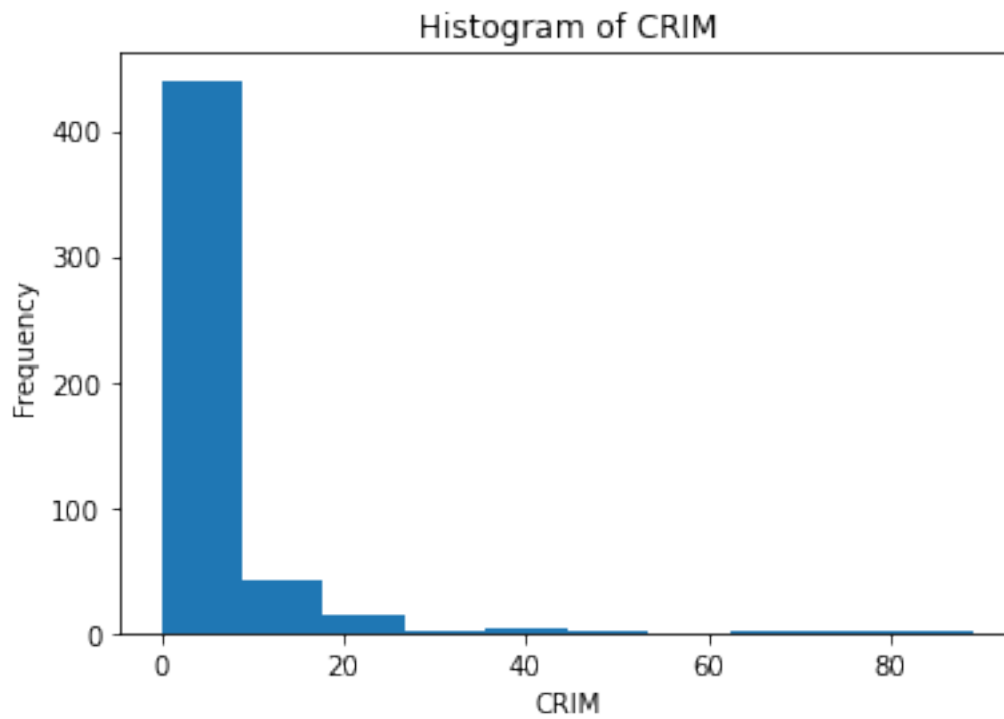
```
[320]: # Plot histograms of all the variables (columns) in the new DataFrame by using
↳a for loop
# Iterate over the columns of the DataFrame
for column in data1.columns:
    # Create a histogram for the current column
    plt.hist(data1[column])

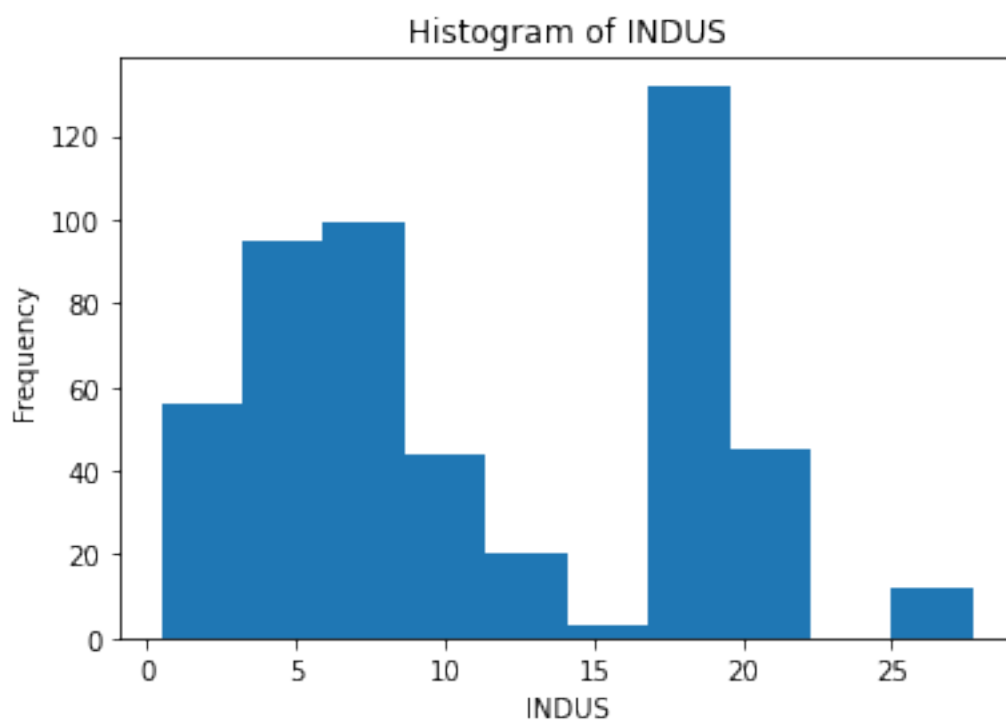
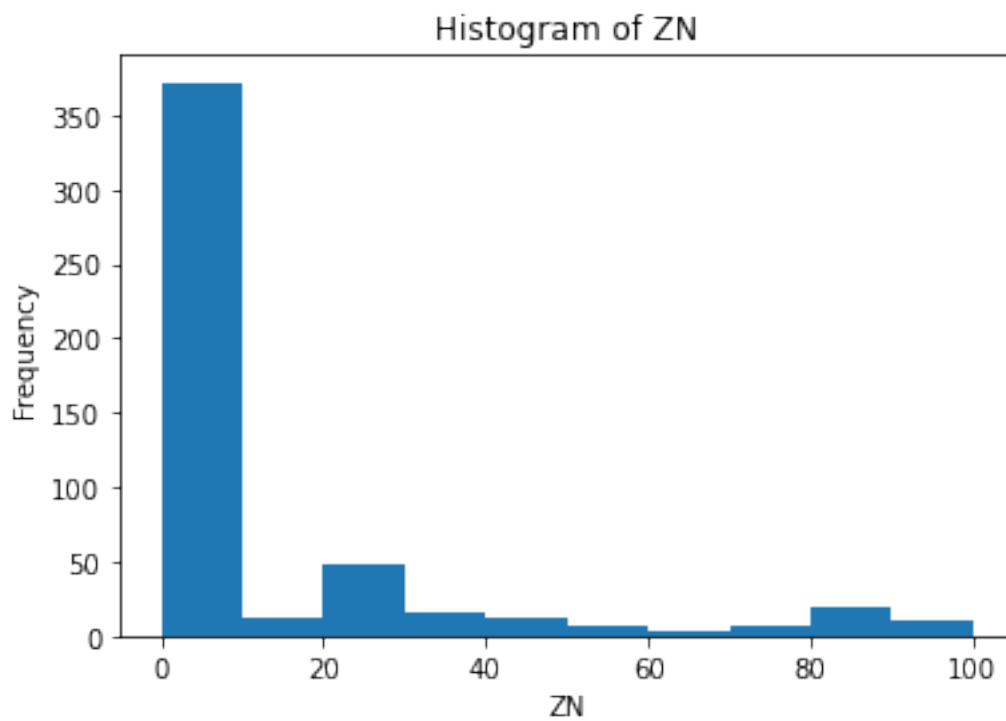
    # Add labels and title
    plt.xlabel(column)
    plt.ylabel('Frequency')
```

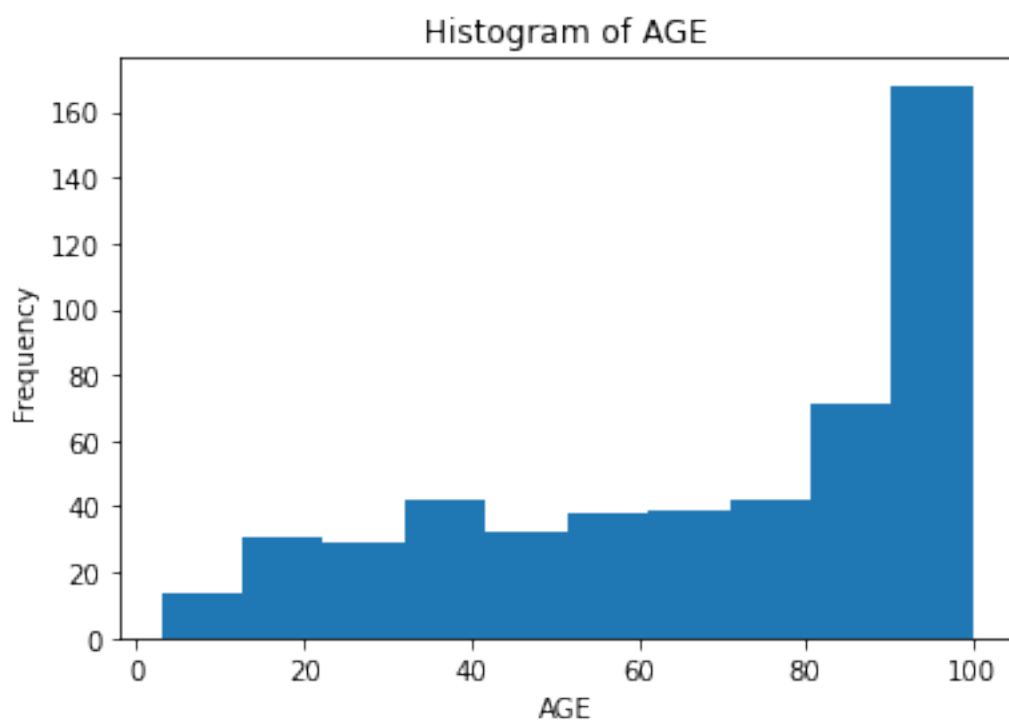
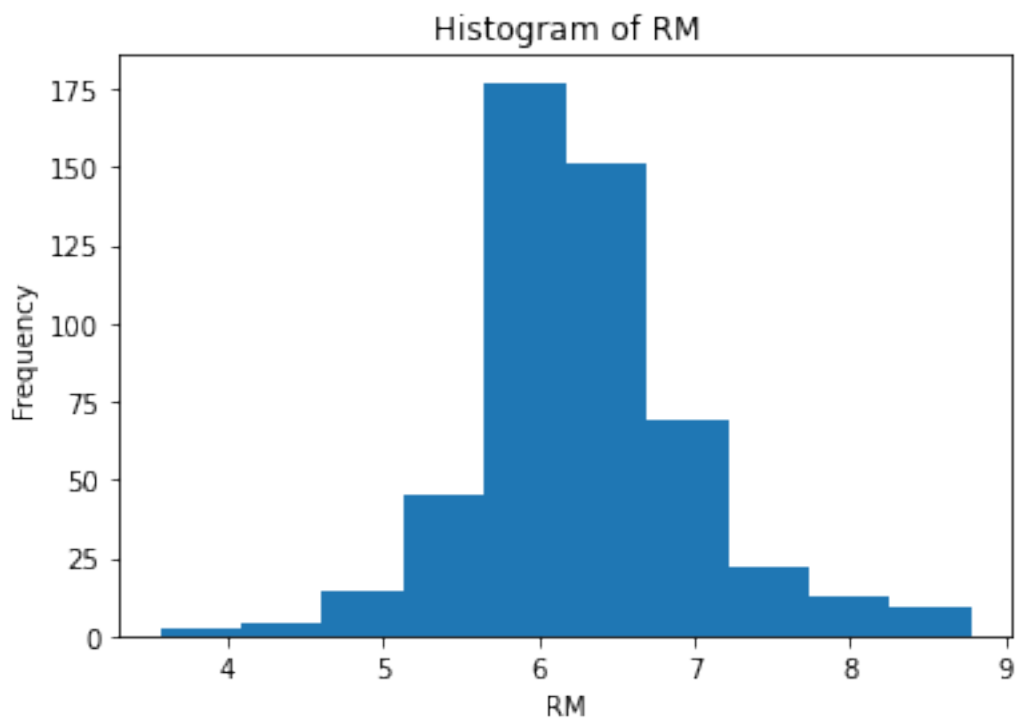
```
plt.title('Histogram of ' + column)
```

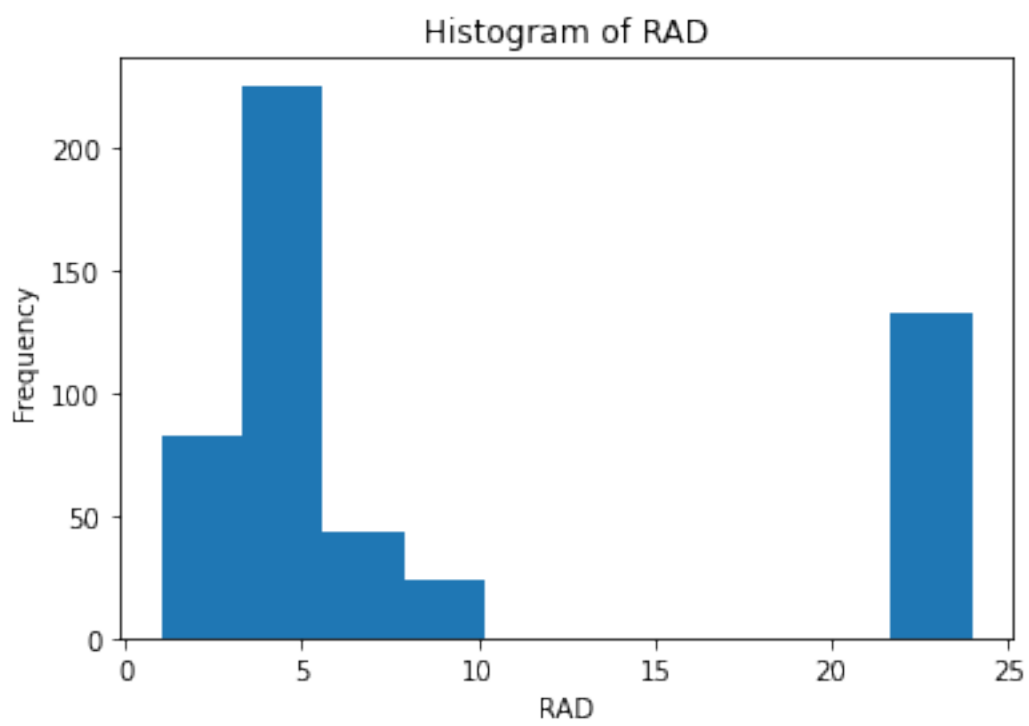
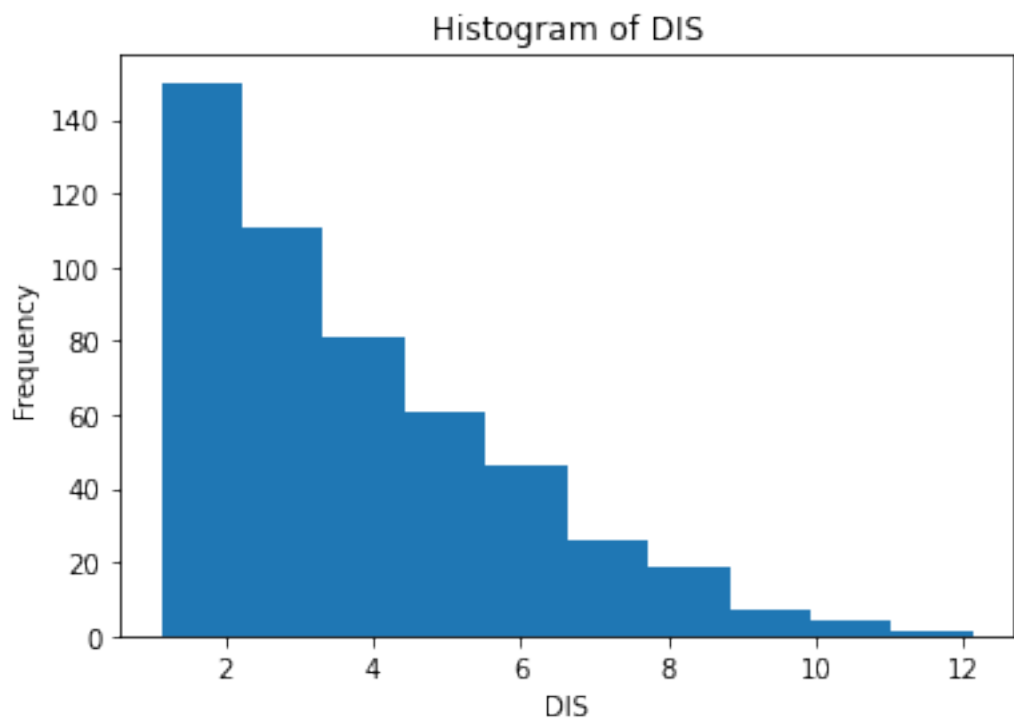
```
# Display the histogram
```

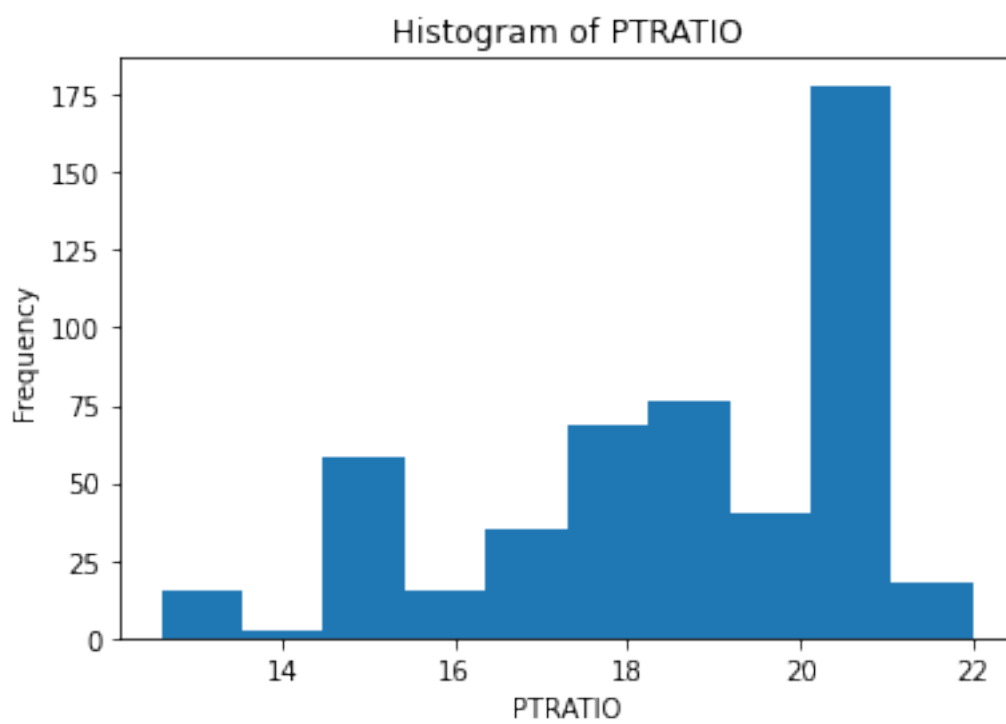
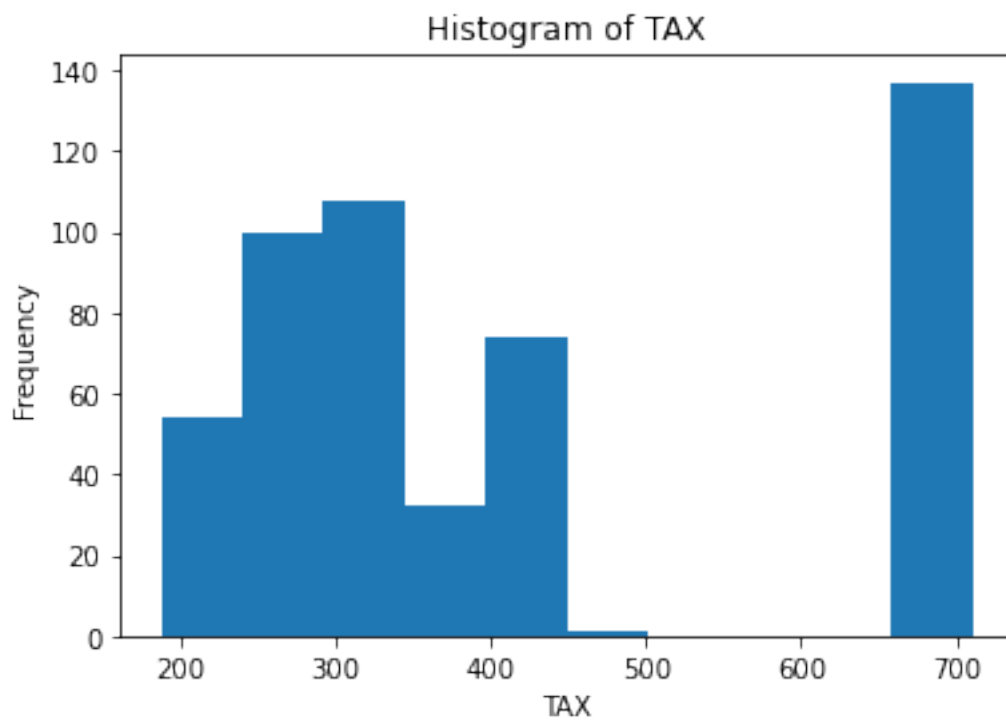
```
plt.show()
```

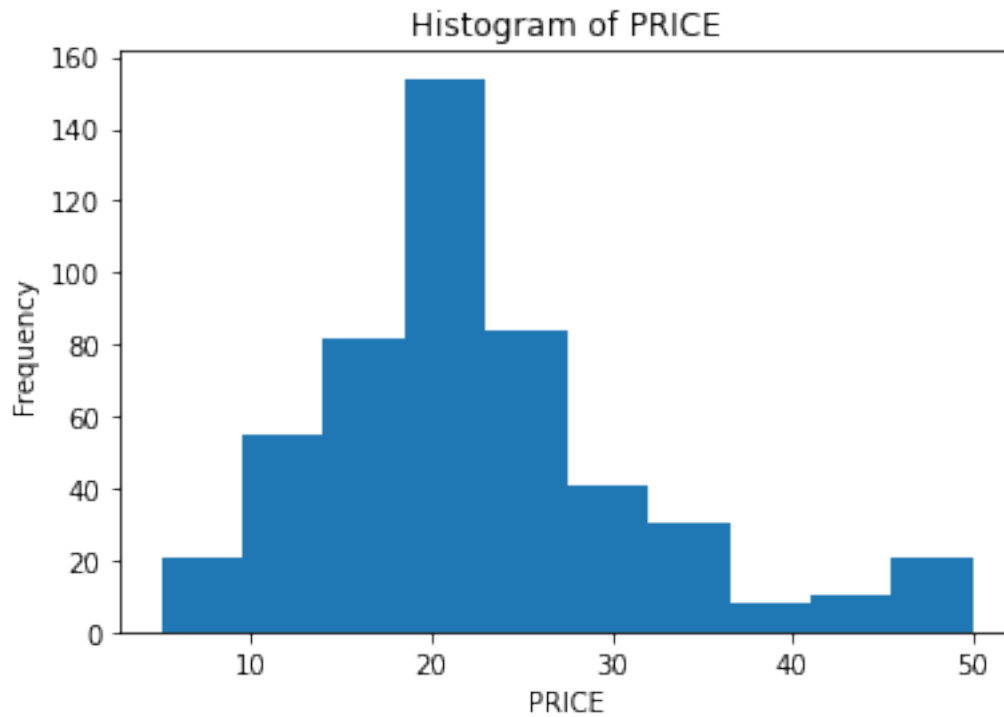






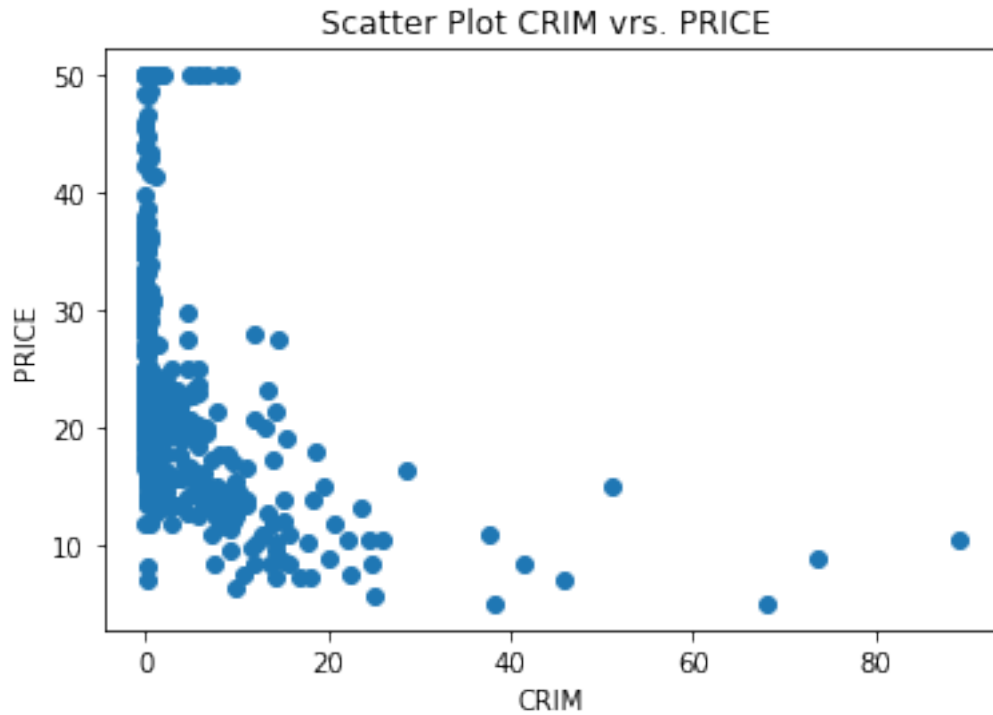




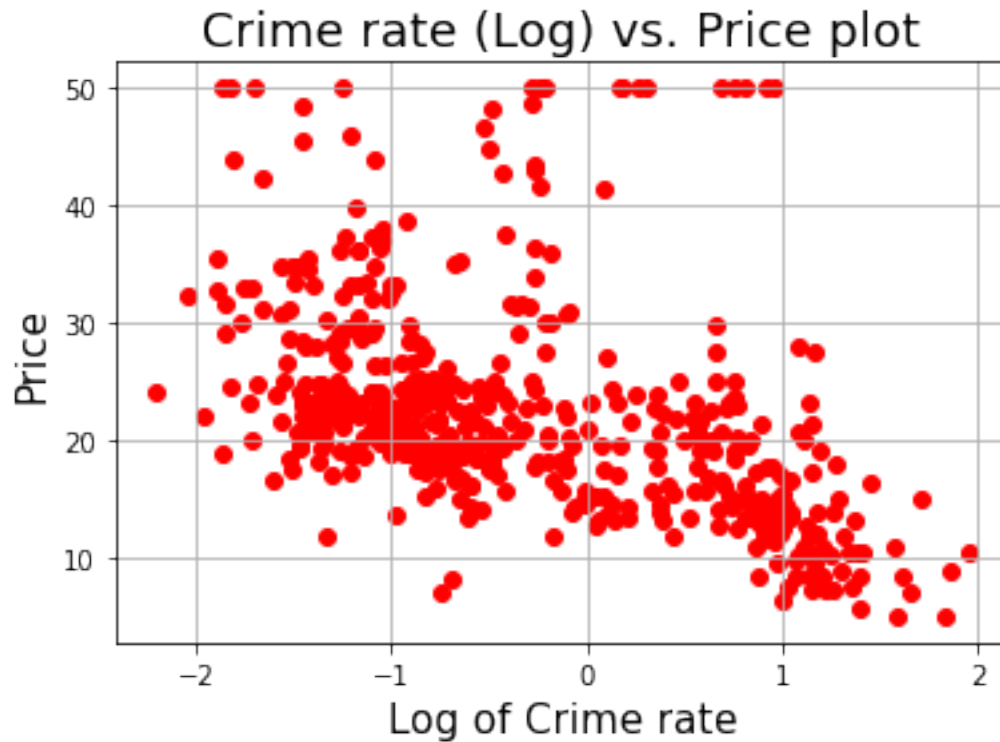


```
[321]: # "Crime rate could be an indicator of house price (people don't want to live
        ↪ in high-crime areas). Create a scatter plot of crime rate versus price:
plt.scatter(data1['CRIM'],data1['PRICE'])
# Set labels for the x-axis and y-axis
plt.xlabel('CRIM')
plt.ylabel('PRICE')

# Set title for the scatter plot
plt.title('Scatter Plot CRIM vrs. PRICE ')
plt.show()
##--> Its show price is high where crime rate is low.
```

```
[322]: # "Create that plot of log10(crime) versus price:"  
plt.scatter(np.log10(data1['CRIM']),data1['PRICE'],c='red') # Color is red  
plt.title("Crime rate (Log) vs. Price plot", fontsize=18)  
plt.xlabel("Log of Crime rate",fontsize=15)  
plt.ylabel("Price",fontsize=15)  
plt.grid(True) # grid on and visible will be set to True  
plt.show()
```



```
[323]: # Calculate the mean rooms per dwelling:
data1['RM'].mean() # Use mean df function
```

```
[323]: 6.284634387351787
```

```
[324]: #Calculate the median age:
data1['AGE'].median() # use median function
```

```
[324]: 77.5
```

```
[325]: # Calculate the average (mean) distances to five Boston employment centers:
data1['DIS'].mean()
```

```
[325]: 3.795042687747034
```

```
[326]: # Calculate the percentage of houses with low price (< $20,000):
low_price=data1['PRICE']<20 # create a Boolean array of True =1 , False =0
low_price.head()
```

```
[326]: 0    False
      1    False
      2    False
      3    False
```

```
4    False
Name: PRICE, dtype: bool
```

```
[327]: pcnt=low_price.mean()*100
pcnt
## --> 41.5 % of houses price is less than 20k
```

```
[327]: 41.50197628458498
```

```
[328]: # Set working directory
import os
print(os.getcwd())
import os
# Specify the desired working directory
directory = '/Users/rajibsamanta/Documents/Rajib/College/Sem5 2023/Week3 & 4'
# Replace with the actual directory path

# Set the working directory
os.chdir(directory)
print(os.getcwd())
```

```
/Users/rajibsamanta/Documents/Rajib/College/Sem5 2023/Week3 & 4
```

```
/Users/rajibsamanta/Documents/Rajib/College/Sem5 2023/Week3 & 4
```

```
[329]: # Assignment 2: Data Wrangling with Python: Activity 6, page 171
## Working with the Adult Income Dataset (UCI)
#url = 'https://raw.githubusercontent.com/TrainingByPackt/
#Data-Wrangling-with-Python/master/Lesson04/Activity06/adult_income_data.csv'
data = pd.read_csv("adult_income_data.csv")
data.head()
```

```
[329]:   39      State-gov   77516  Bachelors  13      Never-married  \
0  50  Self-emp-not-inc  83311  Bachelors  13  Married-civ-spouse
1  38      Private  215646    HS-grad   9      Divorced
2  53      Private  234721      11th   7  Married-civ-spouse
3  28      Private  338409  Bachelors  13  Married-civ-spouse
4  37      Private  284582    Masters  14  Married-civ-spouse

      Adm-clerical  Not-in-family    Male  2174  0  40  United-States  \
0  Exec-managerial      Husband    Male     0  0  13  United-States
1  Handlers-cleaners  Not-in-family    Male     0  0  40  United-States
2  Handlers-cleaners      Husband    Male     0  0  40  United-States
3  Prof-specialty      Wife  Female     0  0  40      Cuba
4  Exec-managerial      Wife  Female     0  0  40  United-States

      <=50K
0  <=50K
1  <=50K
```

```
2  <=50K
3  <=50K
4  <=50K
```

```
[330]: # Create a script that will read a text file line by line and extracts the
        ↪first line, which is the header of the .csv file:
        # Read the text file line by line
        file_path = 'adult_income_names.txt' # File with path

        # Read the text file line by line
        '''with open(file_path, 'r') as file:
            first_line = file.readline().strip() # Read the first line and remove any
            ↪leading/trailing whitespaces

        print('Header:', first_line)'''

        names = [] # Define a list
        with open(file_path, 'r') as f:
            for line in f:
                f.readline()
                var=line.split(":")[0] # split column just to store the column name not
                ↪the sample value
                names.append(var)
        names # Print columns
```

```
[330]: ['age',
        'workclass',
        'fnlwgt',
        'education',
        'education-num',
        'marital-status',
        'occupation',
        'relationship',
        'sex',
        'capital-gain',
        'capital-loss',
        'hours-per-week',
        'native-country']
```

```
[331]: # Add a name of Income for the response variable (last column)
        names.append('Income')
        names
```

```
[331]: ['age',
        'workclass',
        'fnlwgt',
        'education',
```

```
'education-num',
'marital-status',
'occupation',
'relationship',
'sex',
'capital-gain',
'capital-loss',
'hours-per-week',
'native-country',
'Income']
```

```
[332]: # Read the new file with header
df = pd.read_csv("adult_income_data.csv", names=names) # Pass column heading
↳ this time
df.head()
```

```
[332]:
```

	age	workclass	fnlwgt	education	education-num \
0	39	State-gov	77516	Bachelors	13
1	50	Self-emp-not-inc	83311	Bachelors	13
2	38	Private	215646	HS-grad	9
3	53	Private	234721	11th	7
4	28	Private	338409	Bachelors	13

	marital-status	occupation	relationship	sex \
0	Never-married	Adm-clerical	Not-in-family	Male
1	Married-civ-spouse	Exec-managerial	Husband	Male
2	Divorced	Handlers-cleaners	Not-in-family	Male
3	Married-civ-spouse	Handlers-cleaners	Husband	Male
4	Married-civ-spouse	Prof-specialty	Wife	Female

	capital-gain	capital-loss	hours-per-week	native-country	Income
0	2174	0	40	United-States	<=50K
1	0	0	13	United-States	<=50K
2	0	0	40	United-States	<=50K
3	0	0	40	United-States	<=50K
4	0	0	40	Cuba	<=50K

```
[333]: # Use the describe command to get the statistical summary of the dataset:
df.describe()
## The columns has numeric value , only provide the stats here, like average
↳ hours-per-week is 40.44hrs
```

```
[333]:
```

	age	fnlwgt	education-num	capital-gain	capital-loss \
count	32561.000000	3.256100e+04	32561.000000	32561.000000	32561.000000
mean	38.581647	1.897784e+05	10.080679	1077.648844	87.303830
std	13.640433	1.055500e+05	2.572720	7385.292085	402.960219
min	17.000000	1.228500e+04	1.000000	0.000000	0.000000

25%	28.000000	1.178270e+05	9.000000	0.000000	0.000000
50%	37.000000	1.783560e+05	10.000000	0.000000	0.000000
75%	48.000000	2.370510e+05	12.000000	0.000000	0.000000
max	90.000000	1.484705e+06	16.000000	99999.000000	4356.000000

	hours-per-week
count	32561.000000
mean	40.437456
std	12.347429
min	1.000000
25%	40.000000
50%	40.000000
75%	45.000000
max	99.000000

```
[334]: # "Find the missing values
df.isnull().sum() # Sum of null value for each columns
# all 0 means , there is no missing value of any coulmn
```

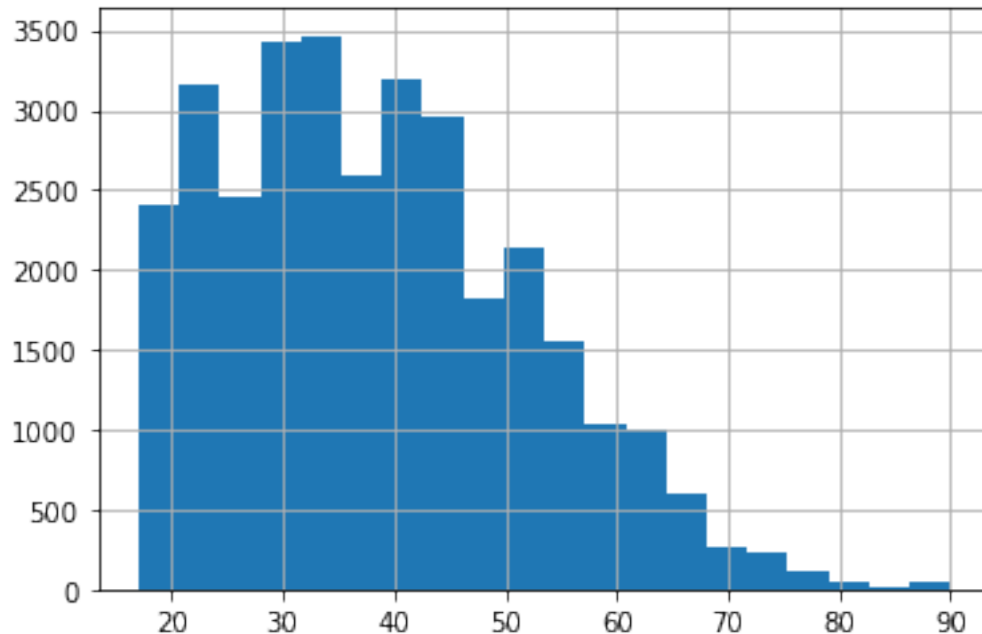
```
[334]: age          0
workclass      0
fnlwgt         0
education      0
education-num  0
marital-status 0
occupation     0
relationship   0
sex            0
capital-gain   0
capital-loss   0
hours-per-week 0
native-country 0
Income         0
dtype: int64
```

```
[335]: #Create a DataFrame with only age, education, and occupation by using
↳subsetting:
df_subset = df[['age','education','occupation']] # Specify the columns
df_subset.head()
```

```
[335]:   age  education  occupation
0   39  Bachelors  Adm-clerical
1   50  Bachelors  Exec-managerial
2   38   HS-grad  Handlers-cleaners
3   53     11th  Handlers-cleaners
4   28  Bachelors  Prof-specialty
```

```
[336]: # Plot a histogram of age with a bin size of 20:
df_subset['age'].hist(bins=20) # bin size is 20
```

```
[336]: <AxesSubplot:>
```



```
[337]: # Strip white space function
def strip_whitespace(s):
    return s.strip()
```

```
[338]: # Use the apply method to apply this function to all the columns with string
↪ values
# Apply the function to all columns with string values
df_string_columns = df_subset.select_dtypes(include='object')
df_transformed = df_string_columns.applymap(strip_whitespace)

# Combine the transformed columns with the rest of the DataFrame
df_subset[df_transformed.columns] = df_transformed
df_subset.head()
```

```
/var/folders/s5/r_yh4p17f12tlyfs6w_46xm0000gn/T/ipykernel_12232/1702994603.py:7
: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
```

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

```
df_subset[df_transformed.columns] = df_transformed
```

```
[338]:   age  education      occupation
0   39  Bachelors    Adm-clerical
1   50  Bachelors    Exec-managerial
2   38   HS-grad  Handlers-cleaners
3   53     11th  Handlers-cleaners
4   28  Bachelors    Prof-specialty
```

```
[339]: #Find the number of people who are aged between 30 and 50
# Conditional clauses and join them by & (AND)
df_filtered=df_subset[(df_subset['age']>=30) & (df_subset['age']<=50)]

#Check row count
df_filtered.count()

##--> So the dataset has 16,390 poeple who are aged between 30 and 50
```

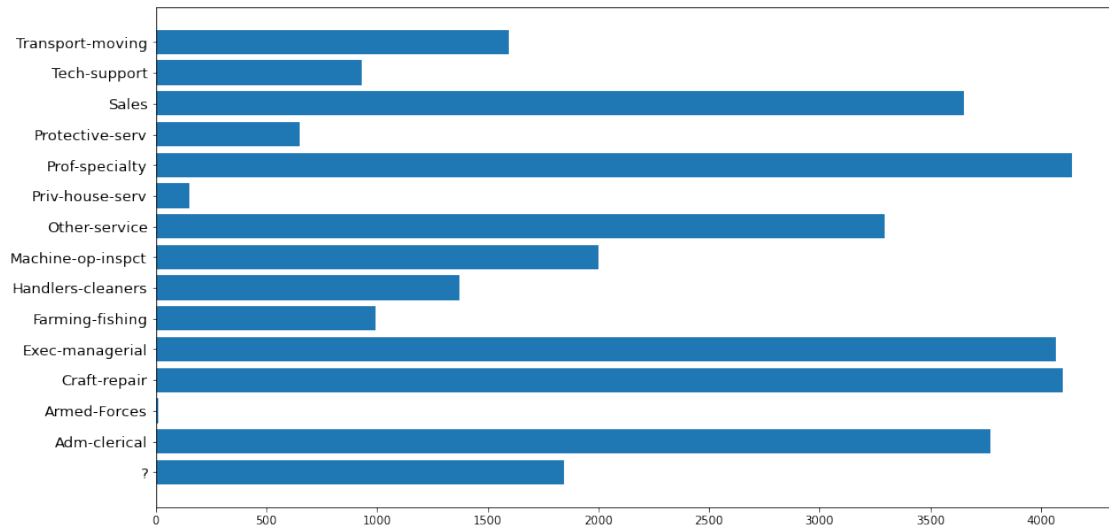
```
[339]: age          16390
education      16390
occupation     16390
dtype: int64
```

```
[340]: # Group the records based on occupation to find how the mean age is distributed:
↳ & Group by occupation and show the summary statistics of age"
df_subset.groupby('occupation').describe()['age'] # Use groupby function on
↳occupation column
##--> Below mean coluns show the mean age for each occupation
## --> occupation = 'Priv-house-serv' has 57.0 value for 75% . This group has
↳most oldest workers.
```

```
[340]:
```

	count	mean	std	min	25%	50%	75%	max
occupation								
?	1843.0	40.882800	20.336350	17.0	21.0	35.0	61.0	90.0
Adm-clerical	3770.0	36.964456	13.362998	17.0	26.0	35.0	46.0	90.0
Armed-Forces	9.0	30.222222	8.089774	23.0	24.0	29.0	34.0	46.0
Craft-repair	4099.0	39.031471	11.606436	17.0	30.0	38.0	47.0	90.0
Exec-managerial	4066.0	42.169208	11.974548	17.0	33.0	41.0	50.0	90.0
Farming-fishing	994.0	41.211268	15.070283	17.0	29.0	39.0	52.0	90.0
Handlers-cleaners	1370.0	32.165693	12.372635	17.0	23.0	29.0	39.0	90.0
Machine-op-inspct	2002.0	37.715285	12.068266	17.0	28.0	36.0	46.0	90.0
Other-service	3295.0	34.949621	14.521508	17.0	22.0	32.0	45.0	90.0
Priv-house-serv	149.0	41.724832	18.633688	17.0	24.0	40.0	57.0	81.0
Prof-specialty	4140.0	40.517633	12.016676	17.0	31.0	40.0	48.0	90.0
Protective-serv	649.0	38.953775	12.822062	17.0	29.0	36.0	47.0	90.0
Sales	3650.0	37.353973	14.186352	17.0	25.0	35.0	47.0	90.0
Tech-support	928.0	37.022629	11.316594	17.0	28.0	36.0	44.0	73.0
Transport-moving	1597.0	40.197871	12.450792	17.0	30.0	39.0	49.0	90.0


```
[341]: #Use subset and groupby to find the outliers:
occupation_stats= df_subset.groupby('occupation').describe()['age']
# Plot the values on a bar chart:
plt.figure(figsize=(15,8))
plt.barh(y=occupation_stats.index,width=occupation_stats['count'])
plt.yticks(fontsize=13)
plt.show()
##--> The below barplot show that Armed -forces has very little data , this
      ↳could be outlier for this dataset
```



```
[342]: # Merge the data using common keys
## Craete two different dataset with same column and then merge them
df_1 = df[['age', 'workclass', 'occupation']].sample(5, random_state=101)
df_1.head()
```

```
[342]:      age workclass      occupation
22357   51   Private  Machine-op-inspct
26009   19   Private           Sales
20734   40   Private   Exec-managerial
17695   17   Private  Handlers-cleaners
27908   61   Private   Craft-repair
```

```
[343]: df_2 = df[['education', 'occupation']].sample(5, random_state=101)
df_2.head()
```

```
[343]:      education      occupation
22357   HS-grad  Machine-op-inspct
26009     11th           Sales
20734   HS-grad   Exec-managerial
```

17695	10th	Handlers-cleaners
27908	7th-8th	Craft-repair

```
[344]: # Merging the two datasets together:
df_merged = pd.merge(df_1,df_2,on='occupation',how='inner').drop_duplicates() #
      ↪ Merge and remove duplicate
df_merged.head() # Print new dataframe
```

```
[344]:   age workclass      occupation education
0    51   Private  Machine-op-inspct    HS-grad
1    19   Private           Sales      11th
2    40   Private   Exec-managerial    HS-grad
3    17   Private  Handlers-cleaners     10th
4    61   Private   Craft-repair     7th-8th
```

```
[345]: # Assignment 3: Create a series and practice basic arithmetic steps
# Create Series 1
series1_data = [7.3, -2.5, 3.4, 1.5]
series1_index = ['a', 'c', 'd', 'e']
series1 = pd.Series(series1_data, index=series1_index)

# Create Series 2
series2_data = [-2.1, 3.6, -1.5, 4, 3.1]
series2_index = ['a', 'c', 'e', 'f', 'g']
series2 = pd.Series(series2_data, index=series2_index)

# Add Series 1 and Series 2
add_result = series1 + series2
print("Addition Result:")
print(add_result)

# Subtract Series 1 from Series 2
subtract_result = series2 - series1
print("Subtraction Result:")
print(subtract_result)
```

Addition Result:

a	5.2
c	1.1
d	NaN
e	0.0
f	NaN
g	NaN

dtype: float64

Subtraction Result:

a	-9.4
c	6.1
d	NaN

```
e    -3.0
f     NaN
g     NaN
dtype: float64
```

```
[346]: # Assignment 4: Data Wrangling with Python: Activity 7, page 207
## Reading Tabular Data from a Web Page and Creating DataFrames
from bs4 import BeautifulSoup # Import BeautifulSoup library
import requests
# Open the Wikipedia file
# Specify the URL of the web page
url = 'https://en.wikipedia.org/wiki/List_of_countries_by_GDP_(nominal)'
#url = 'https://github.com/TrainingByPackt/Data-Wrangling-with-Python/blob/
↳master/Chapter05/Activity07/
↳List%20of%20countries%20by%20GDP%20(nominal)%20-%20Wikipedia.htm'

# Send a GET request to the URL
response = requests.get(url)

# Parse the HTML content using BeautifulSoup
soup = BeautifulSoup(response.content, 'html.parser')

# Print the page title
title = soup.title.string
print("Page Title:", title)
```

Page Title: List of countries by GDP (nominal) - Wikipedia

```
[347]: # Find the tables
all_tables = soup.find_all("table")
print("Total number of tables are {}".format(len(all_tables)))
##--> There are 7 tables
```

Total number of tables are 7

```
[348]: # Find the right table using bs4:
# Find the table element
table = soup.find('table', {'class': 'wikitable'})
#data_table = soup.find("table", {"class": '"wikitable"/}'})
#print(type(data_table))
# Print the table structure
print(table)
```

```
<table border="1" class="wikitable sortable static-row-numbers plainrowheaders
srn-white-background" style="text-align:right;">
<caption>GDP (USD million) by country
</caption>
<tbody><tr class="static-row-header" style="text-align:center;vertical-
align:bottom;">
```

```

<th rowspan="2">Country/Territory
</th>
<th rowspan="2"><a href="/wiki/United_Nations_geoscheme" title="United Nations
geoscheme">UN region</a>
</th>
<th colspan="2"><a href="/wiki/International_Monetary_Fund" title="International
Monetary Fund">IMF</a><sup class="reference" id="cite_ref-GDP_IMF_2-2"><a
href="#cite_note-GDP_IMF-2">[1]</a></sup><sup class="reference"
id="cite_ref-15"><a href="#cite_note-15">[13]</a></sup>
</th>
<th colspan="2"><a href="/wiki/World_Bank" title="World Bank">World Bank</a><sup
class="reference" id="cite_ref-16"><a href="#cite_note-16">[14]</a></sup>
</th>
<th colspan="2"><a href="/wiki/United_Nations" title="United Nations">United
Nations</a><sup class="reference" id="cite_ref-UN_17-0"><a href="#cite_note-
UN-17">[15]</a></sup>
</th></tr>
<tr class="static-row-header" style="text-align:center;vertical-align:bottom;">
<th>Estimate</th>
<th>Year</th>
<th>Estimate</th>
<th>Year</th>
<th>Estimate</th>
<th>Year
</th></tr>
<tr class="static-row-header" style="font-weight:bold;">
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left:25px;"> </span>World</td>
<td style="text-align:center">-</td>
<td>105,568,776</td>
<td>2023</td>
<td>101,002,997</td>
<td>2022</td>
<td>96,698,005</td>
<td>2021
</td></tr>
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<td style="text-align:center"><a href="/wiki/Americas"

```

```

title="Americas">Americas</a></td>
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<td>25,462,700</td>
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<td>23,315,081</td>
<td>2021
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<td><sup class="reference" id="cite_ref-China-HM_18-0"><a href="#cite_note-
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<td>4,940,878</td>

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<td>2023</td>

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2022	
2,107,703	
2021	
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<td>1,721,909</td>
<td>2023</td>
<td>1,665,246</td>
<td>2022</td>
<td>1,810,966</td>
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Oceania</td>	1,707,548</td>	2023</td>	1,675,419</td>	2022</td>	1,734,532</td>	2021</td></tr>	
 Mexico</td>	Americas</td>	1,663,164</td>	2023</td>	1,414,187</td>	2022</td>	1,272,839</td>	2021</td></tr>
 Spain</td>	Europe</td>	1,492,432</td>	2023</td>	1,397,509</td>	2022</td>	1,427,381</td>	2021</td></tr>

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<td>2021

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<td>2022</td>
<td>594,104</td>
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</td></tr>
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Flag_of_Saint_Kitts_and_Nevis.svg.png" srcset="//upload.wikimedia.org/wikipedia/
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Federated States of Micronesia">Micronesia</a></td>
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href="/wiki/Economy_of_the_Marshall_Islands" title="Economy of the Marshall
Islands">Marshall Islands</a></td>

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Islands">Cook Islands</a></td>
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<td>151</td>
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<td>2023</td>
<td>60</td>
<td>2022</td>
<td>60</td>
<td>2021
</td></tr></tbody></table>

```

```
[349]: import pandas as pd

# Specify the URL of the web page
url = 'https://en.wikipedia.org/wiki/List_of_countries_by_GDP_(nominal)'

# Read the HTML table
tables = pd.read_html(url)

# Extract the desired table (index 2 in this case)
header_table = tables[2]

# Get the header rows
header_rows = header_table.iloc[:0]

header_rows
header_rows.columns
# We can see there are multiIndex header
```

```
[349]: MultiIndex([( 'Country/Territory', 'Country/Territory'),
                  (      'UN region',      'UN region'),
                  (      'IMF[1][13]',      'Estimate'),
                  (      'IMF[1][13]',      'Year'),
                  (    'World Bank[14]',      'Estimate'),
                  (    'World Bank[14]',      'Year'),
                  ('United Nations[15]',      'Estimate'),
                  ('United Nations[15]',      'Year')],
                 )
```

```
[350]: # Create a DataFrame from the table data
header_df = pd.DataFrame(header_rows)
header_df
```

```
[350]: Empty DataFrame
Columns: [(Country/Territory, Country/Territory), (UN region, UN region),
         (IMF[1][13], Estimate), (IMF[1][13], Year), (World Bank[14], Estimate), (World
Bank[14], Year), (United Nations[15], Estimate), (United Nations[15], Year)]
Index: []
```

```
[351]: # Flatten the header to a single level
#for col in header_df.columns.values:
#    print(col)
header_df.columns = [' '.join(set(col)).strip() for col in header_df.columns.
                    ↪values]
#header_df.columns = header_df.columns.map(' '.join).str.strip() # Join
                    ↪MultiIndex header to single level
header_df
#-- Header dataframe is ready
```

```
[351]: Empty DataFrame
Columns: [Country/Territory, UN region, IMF[1][13] Estimate, Year IMF[1][13],
World Bank[14] Estimate, World Bank[14] Year, United Nations[15] Estimate,
United Nations[15] Year]
Index: []
```

```
[352]: # Find the desired table based on criteria
table = None

# criteria: Check for specific table captions
table_captions = soup.find_all('caption')
for caption in table_captions:
    print(caption.get_text())
    if 'GDP (USD million) by country' in caption.get_text():
        table = caption.find_parent('table')
##--> The correct table caption is : 'GDP (USD million) by country'
```

GDP (USD million) by country

```
[353]: # Extract the header row
header_row = table.find('tr')
header_cells = header_row.find_all('th')

# Extract the source names from header cells
source_names = [cell.get_text().strip() for cell in header_cells]

# Find all data rows
data_rows = table.find_all('tr')[2:]

# Extract the data for each row
data = []
for row in data_rows:
    data_cells = row.find_all('td')
    row_data = [cell.get_text().strip() for cell in data_cells]
    data.append(row_data)

# Print the source names and corresponding data
print("Source Names:", source_names)
#data.head()
for row_data in data:
    print("Data:", row_data)

## --> It has 3 sources IMF[1][13]', 'World Bank[14]' & 'United Nations[15]'
```

Source Names: ['Country/Territory', 'UN region', 'IMF[1][13]', 'World Bank[14]', 'United Nations[15]']

Data: ['World', '-', '105,568,776', '2023', '101,002,997', '2022', '96,698,005',

'2021']
Data: ['United States', 'Americas', '26,854,599', '2023', '25,462,700', '2022', '23,315,081', '2021']
Data: ['China', 'Asia', '19,373,586', '[n 1]2023', '17,963,171', '[n 3]2022', '17,734,131', '[n 1]2021']
Data: ['Japan', 'Asia', '4,409,738', '2023', '4,231,141', '2022', '4,940,878', '2021']
Data: ['Germany', 'Europe', '4,308,854', '2023', '4,072,192', '2022', '4,259,935', '2021']
Data: ['India', 'Asia', '3,736,882', '2023', '3,385,090', '2022', '3,201,471', '2021']
Data: ['United Kingdom', 'Europe', '3,158,938', '2023', '3,070,668', '2022', '3,131,378', '2021']
Data: ['France', 'Europe', '2,923,489', '2023', '2,782,905', '2022', '2,957,880', '2021']
Data: ['Italy', 'Europe', '2,169,745', '2023', '2,010,432', '2022', '2,107,703', '2021']
Data: ['Canada', 'Americas', '2,089,672', '2023', '2,139,840', '2022', '1,988,336', '2021']
Data: ['Brazil', 'Americas', '2,081,235', '2023', '1,920,096', '2022', '1,608,981', '2021']
Data: ['Russia', 'Europe', '2,062,649', '2023', '2,240,422', '2022', '1,778,782', '2021']
Data: ['South Korea', 'Asia', '1,721,909', '2023', '1,665,246', '2022', '1,810,966', '2021']
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Data: ['Indonesia', 'Asia', '1,391,778', '2023', '1,319,100', '2022', '1,186,093', '2021']
Data: ['Netherlands', 'Europe', '1,080,880', '2023', '991,115', '2022', '1,012,847', '2021']
Data: ['Saudi Arabia', 'Asia', '1,061,902', '2023', '1,108,149', '2022', '833,541', '2021']
Data: ['Turkey', 'Asia', '1,029,303', '2023', '905,988', '2022', '819,034', '2021']
Data: ['Switzerland', 'Europe', '869,601', '2023', '807,706', '2022', '812,867', '2021']
Data: ['Taiwan', 'Asia', '790,728', '[n 4]2023', '-', '-']
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Data: ['Argentina', 'Americas', '641,102', '2023', '632,770', '2022', '487,227', '2021']
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Data: ['Finland', 'Europe', '301,670', '2023', '280,826', '2022', '297,302', '2021']

Data: ['Peru', 'Americas', '268,235', '2023', '242,632', '2022', '223,252', '2021']

Data: ['Iraq', 'Asia', '267,893', '2023', '264,182', '2022', '204,004', '2021']

Data: ['Portugal', 'Europe', '267,721', '2023', '251,945', '2022', '253,663', '2021']

Data: ['New Zealand', 'Oceania', '251,969', '2023', '247,234', '2022', '250,451', '2021']

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'2021']
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Data: ['Congo', 'Africa', '13,031', '2023', '14,616', '2022', '12,841', '2021']
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Data: ['Marshall Islands', 'Oceania', '291', '2023', '280', '2022', '257', '2021']
Data: ['Cook Islands', 'Oceania', '-', '-', '328', '2021']

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Data: ['Anguilla', 'Americas', '-', '-', '303', '2021']
Data: ['Kiribati', 'Oceania', '248', '2023', '223', '2022', '227', '2021']
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Data: ['Tuvalu', 'Oceania', '65', '2023', '60', '2022', '60', '2021']
```

```
[354]: # Create a full DataFrame from the table data
df = pd.DataFrame(data)
df.head(20)
```

```
[354]:
```

| | 0 | 1 | 2 | 3 | 4 | 5 \ |
|----|----------------|----------|-------------|------------|-------------|------------|
| 0 | World | - | 105,568,776 | 2023 | 101,002,997 | 2022 |
| 1 | United States | Americas | 26,854,599 | 2023 | 25,462,700 | 2022 |
| 2 | China | Asia | 19,373,586 | [n 1] 2023 | 17,963,171 | [n 3] 2022 |
| 3 | Japan | Asia | 4,409,738 | 2023 | 4,231,141 | 2022 |
| 4 | Germany | Europe | 4,308,854 | 2023 | 4,072,192 | 2022 |
| 5 | India | Asia | 3,736,882 | 2023 | 3,385,090 | 2022 |
| 6 | United Kingdom | Europe | 3,158,938 | 2023 | 3,070,668 | 2022 |
| 7 | France | Europe | 2,923,489 | 2023 | 2,782,905 | 2022 |
| 8 | Italy | Europe | 2,169,745 | 2023 | 2,010,432 | 2022 |
| 9 | Canada | Americas | 2,089,672 | 2023 | 2,139,840 | 2022 |
| 10 | Brazil | Americas | 2,081,235 | 2023 | 1,920,096 | 2022 |
| 11 | Russia | Europe | 2,062,649 | 2023 | 2,240,422 | 2022 |
| 12 | South Korea | Asia | 1,721,909 | 2023 | 1,665,246 | 2022 |
| 13 | Australia | Oceania | 1,707,548 | 2023 | 1,675,419 | 2022 |
| 14 | Mexico | Americas | 1,663,164 | 2023 | 1,414,187 | 2022 |
| 15 | Spain | Europe | 1,492,432 | 2023 | 1,397,509 | 2022 |
| 16 | Indonesia | Asia | 1,391,778 | 2023 | 1,319,100 | 2022 |
| 17 | Netherlands | Europe | 1,080,880 | 2023 | 991,115 | 2022 |
| 18 | Saudi Arabia | Asia | 1,061,902 | 2023 | 1,108,149 | 2022 |
| 19 | Turkey | Asia | 1,029,303 | 2023 | 905,988 | 2022 |

| | 6 | 7 |
|----|------------|------------|
| 0 | 96,698,005 | 2021 |
| 1 | 23,315,081 | 2021 |
| 2 | 17,734,131 | [n 1] 2021 |
| 3 | 4,940,878 | 2021 |
| 4 | 4,259,935 | 2021 |
| 5 | 3,201,471 | 2021 |
| 6 | 3,131,378 | 2021 |
| 7 | 2,957,880 | 2021 |
| 8 | 2,107,703 | 2021 |
| 9 | 1,988,336 | 2021 |
| 10 | 1,608,981 | 2021 |
| 11 | 1,778,782 | 2021 |
| 12 | 1,810,966 | 2021 |

| | | |
|----|-----------|------|
| 13 | 1,734,532 | 2021 |
| 14 | 1,272,839 | 2021 |
| 15 | 1,427,381 | 2021 |
| 16 | 1,186,093 | 2021 |
| 17 | 1,012,847 | 2021 |
| 18 | 833,541 | 2021 |
| 19 | 819,034 | 2021 |

```
[355]: df.columns = header_df.columns # Assign the header from header dataframe
df.head()
```

```
[355]: Country/Territory UN region IMF[1][13] Estimate Year IMF[1][13] \
0 World - 105,568,776 2023
1 United States Americas 26,854,599 2023
2 China Asia 19,373,586 [n 1]2023
3 Japan Asia 4,409,738 2023
4 Germany Europe 4,308,854 2023

World Bank[14] Estimate World Bank[14] Year United Nations[15] Estimate \
0 101,002,997 2022 96,698,005
1 25,462,700 2022 23,315,081
2 17,963,171 [n 3]2022 17,734,131
3 4,231,141 2022 4,940,878
4 4,072,192 2022 4,259,935

United Nations[15] Year
0 2021
1 2021
2 [n 1]2021
3 2021
4 2021
```

```
[356]: # To get the data for Fisrt source
## we can drop column or suset the columns

# Select specific columns
df_first_source = df[['Country/Territory', 'UN region', 'IMF[1][13]',
↳ Estimate', 'Year IMF[1][13]']]
df_first_source.head()
```

```
[356]: Country/Territory UN region IMF[1][13] Estimate Year IMF[1][13]
0 World - 105,568,776 2023
1 United States Americas 26,854,599 2023
2 China Asia 19,373,586 [n 1]2023
3 Japan Asia 4,409,738 2023
4 Germany Europe 4,308,854 2023
```

```
[357]: # To get the data for 2nd source
## we can drop column or subset the columns

# Select specific columns
df_2nd_source = df[['Country/Territory', 'UN region', 'World Bank[14]_
↳ Estimate', 'World Bank[14] Year']]
df_2nd_source.head()
```

```
[357]: Country/Territory UN region World Bank[14] Estimate World Bank[14] Year
0          World          -          101,002,997          2022
1    United States  Americas          25,462,700          2022
2          China    Asia          17,963,171          [n 3]2022
3          Japan    Asia           4,231,141          2022
4          Germany  Europe           4,072,192          2022
```

```
[358]: # To get the data for 3rd source
## we can drop column or subset the columns

# Select specific columns
df_3rd_source = df[['Country/Territory', 'UN region', 'United Nations[15]_
↳ Estimate', 'United Nations[15] Year']]
df_3rd_source.head()
```

```
[358]: Country/Territory UN region United Nations[15] Estimate \
0          World          -          96,698,005
1    United States  Americas          23,315,081
2          China    Asia          17,734,131
3          Japan    Asia           4,940,878
4          Germany  Europe           4,259,935

United Nations[15] Year
0          2021
1          2021
2    [n 1]2021
3          2021
4          2021
```

```
[359]: # Assignment 5: Data Wrangling with Python: Activity 8, page 233
## Handling Outliers and Missing Data
# Read the new file with header
df = pd.read_csv("visit_data.csv") # Pass column heading this time
df.head()
```

```
[359]: id first_name last_name email gender \
0  1      Sonny      Dahl      sdahl0@mysql.com      Male
1  2        NaN        NaN      dhoovart1@hud.gov      NaN
2  3         Gar      Armal      garmal2@technorati.com      NaN
```

| | | | | | |
|---|---|---------|-------|----------------------------|-----|
| 3 | 4 | Chiarra | Nulty | cnulty3@newyorker.com | NaN |
| 4 | 5 | NaN | NaN | sleaver4@elegantthemes.com | NaN |

| | ip_address | visit |
|---|-----------------|--------|
| 0 | 135.36.96.183 | 1225.0 |
| 1 | 237.165.194.143 | 919.0 |
| 2 | 166.43.137.224 | 271.0 |
| 3 | 139.98.137.108 | 1002.0 |
| 4 | 46.117.117.27 | 2434.0 |

```
[360]: df.shape
```

```
[360]: (1000, 7)
```

```
[361]: # Check for duplicates
# Print the DataFrame with a new column indicating duplicates
print("First name is duplicated - {}".format(any(df.first_name.duplicated())))
print("Last name is duplicated - {}".format(any(df.last_name.duplicated())))
print("Email is duplicated - {}".format(any(df.email.duplicated())))
print("ip_address is duplicated - {}".format(any(df.ip_address.duplicated())))
```

```
First name is duplicated - True
Last name is duplicated - True
Email is duplicated - False
ip_address is duplicated - False
```

```
[362]: # Check if any essential column contains NaN
print("The column Email contains NaN - %r " % df.email.isnull().values.any())
print("The column ip_address contains NaN - %r " % df.ip_address.isnull().
      ↪values.any())
print("The column First name contains NaN - %r " % df.first_name.isnull().
      ↪values.any())
print("The column visit contains NaN - %r " % df.visit.isnull().values.any())
```

```
The column Email contains NaN - False
The column ip_address contains NaN - False
The column First name contains NaN - True
The column visit contains NaN - True
```

```
[363]: # Get rid of the outliers: As it has multiple columns NaN , Ip address and
      ↪visit column has values,
## considering these are deterministic columns
size_prev = df.shape
size_prev # original size
```

```
[363]: (1000, 7)
```

```
[364]: df = df[np.isfinite(df['visit'])] # Remove the rows where visit is not valid or
      ↪ infinite
      #This is an inplace operation. After this operation the original DataFrame is
      ↪ lost.
      size_after = df.shape
      size_after
```

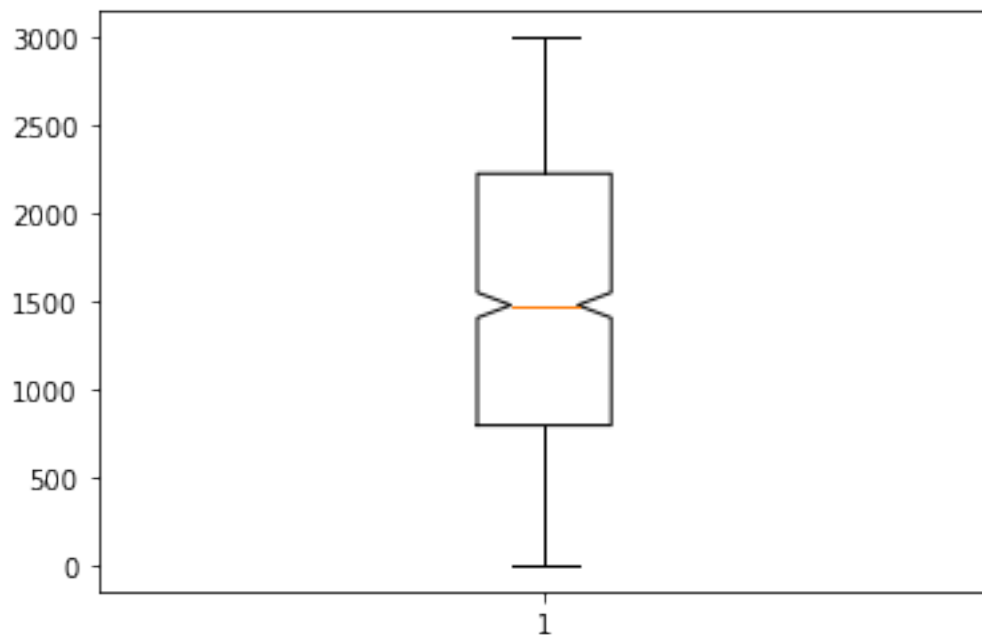
```
[364]: (974, 7)
```

```
[365]: # size difference
      print("The size of previous data was - {prev[0]} rows and the size of the new
      ↪ one is - {after[0]} rows".format(prev=size_prev, after=size_after))
```

The size of previous data was - 1000 rows and the size of the new one is - 974 rows

```
[366]: #Plot a boxplot to find if the data has outliers.
      plt.boxplot(df.visit, notch=True)
```

```
[366]: {'whiskers': [<matplotlib.lines.Line2D at 0x7f9f03084490>,
      <matplotlib.lines.Line2D at 0x7f9f03084760>],
      'caps': [<matplotlib.lines.Line2D at 0x7f9f03084a30>,
      <matplotlib.lines.Line2D at 0x7f9f03084d00>],
      'boxes': [<matplotlib.lines.Line2D at 0x7f9f00bbc7f0>],
      'medians': [<matplotlib.lines.Line2D at 0x7f9f03084fd0>],
      'fliers': [<matplotlib.lines.Line2D at 0x7f9f02da09a0>],
      'means': []}
```




```
[367]: # As we can see, we have data in this column in the interval (0, 3000).
# However, the main concentration of the data is between ~700 and ~2300.
## Get rid of values beyond 2900 and below 100 - these are outliers for us. We
    ↪ need to get rid of them:
df1 = df[(df['visit'] <= 2900) & (df['visit'] >= 100)] # using operator
print("After getting rid of outliers the new size of the data is - {}".
    ↪ format(*df1.shape))
```

After getting rid of outliers the new size of the data is - 923

```
[368]: # Assignment 6: Insert data into a SQL Lite database - create a table with the
    ↪ following data below that you will create yourself
import sqlite3

# Connect to the SQLite database
conn = sqlite3.connect('example.db')

# Create a cursor object to execute SQL commands
cursor = conn.cursor()

# Create a table with the specified columns
create_table_query = '''
CREATE TABLE IF NOT EXISTS Customers (
    ID INTEGER PRIMARY KEY AUTOINCREMENT,
    Name TEXT,
    Address TEXT,
    City TEXT,
    State TEXT,
    Zip TEXT,
    PhoneNumber TEXT
);
'''
cursor.execute(create_table_query)

# Insert data into the table
data = [
    ('John Doe', '123 Main St', 'New York', 'NY', '10001', '443-555-1234'),
    ('Jane Smith', '456 Elm St', 'Los Angeles', 'CA', '90001', '443-555-5678'),
    ('Mike Johnson', '789 Oak St', 'Chicago', 'IL', '60601', '443-555-9012'),
    ('James Johnson', '10269 Donna Dr', 'Dittmer', 'MO', '63023',
    ↪ '443-944-3853'),
    ('Robert Johnson', '3139 Wheatway', 'Ellicott City', 'MD', '21043',
    ↪ '443-555-9014'),
    ('Patricia Johnson', '170 Mitch Johnson Rd', 'Glenmora', 'LA', '71433',
    ↪ '318-634-7186'),
```

```

        ('William Johnson', '523 Nelson Ave', 'Peekskill', 'NY', '10566',
        ↪'914-739-6463'),
        ('Thomas Johnson', '2709 Arlington Dr', 'Springfield', 'IL', '62704',
        ↪'318-555-9012'),
        ('Christopher Johnson', '131 N Harris Rd', 'Pearcy', 'AR', '71964',
        ↪'501-767-7635'),
        ('Charles Johnson', '2008 Eliza Dorsey Ln', 'Ellicott City', 'MD', '21042',
        ↪'443-763-7065'),
    ]

insert_query = 'INSERT INTO Customers (Name, Address, City, State, Zip,
    ↪PhoneNumber) VALUES (?, ?, ?, ?, ?, ?)'

for row in data:
    cursor.execute(insert_query, row)

# Commit the changes and close the connection
conn.commit()
conn.close() # close connection

```

[369]: *#SQL queries to retrieve the results from the database*
Connect to the SQLite database

```

conn = sqlite3.connect('example.db') # Set the connection again

# Create a cursor object to execute SQL commands
cursor = conn.cursor()
select_query = 'SELECT * FROM Customers'
cursor.execute(select_query)
# Fetch the column names to print header
column_names = [description[0] for description in cursor.description]
# Print the column names
print(column_names)
results = cursor.fetchall()
for row in results:
    print(row) # Print table data

```

```

['ID', 'Name', 'Address', 'City', 'State', 'Zip', 'PhoneNumber']
(1, 'John Doe', '123 Main St', 'New York', 'NY', '10001', '443-555-1234')
(2, 'Jane Smith', '456 Elm St', 'Los Angeles', 'CA', '90001', '443-555-5678')
(3, 'Mike Johnson', '789 Oak St', 'Chicago', 'IL', '60601', '443-555-9012')
(4, 'James Johnson', '10269 Donna Dr', 'Dittmer', 'MO', '63023', '443-944-3853')
(5, 'Robert Johnson', '3139 Wheatway', 'Ellicott City', 'MD', '21043',
'443-555-9014')
(6, 'Patricia Johnson', '170 Mitch Johnson Rd', 'Glenmora', 'LA', '71433',
'318-634-7186')
(7, 'William Johnson', '523 Nelson Ave', 'Peekskill', 'NY', '10566',

```

'914-739-6463')

(8, 'Thomas Johnson', '2709 Arlington Dr', 'Springfield', 'IL', '62704',
'318-555-9012')

(9, 'Christopher Johnson', '131 N Harris Rd', 'Pearcy', 'AR', '71964',
'501-767-7635')

(10, 'Charles Johnson', '2008 Eliza Dorsey Ln', 'Ellicott City', 'MD', '21042',
'443-763-7065')

(11, 'John Doe', '123 Main St', 'New York', 'NY', '10001', '443-555-1234')

(12, 'Jane Smith', '456 Elm St', 'Los Angeles', 'CA', '90001', '443-555-5678')

(13, 'Mike Johnson', '789 Oak St', 'Chicago', 'IL', '60601', '443-555-9012')

(14, 'James Johnson', '10269 Donna Dr', 'Dittmer', 'MO', '63023',
'443-944-3853')

(15, 'Robert Johnson', '3139 Wheatway', 'Ellicott City', 'MD', '21043',
'443-555-9014')

(16, 'Patricia Johnson', '170 Mitch Johnson Rd', 'Glenmora', 'LA', '71433',
'318-634-7186')

(17, 'William Johnson', '523 Nelson Ave', 'Peekskill', 'NY', '10566',
'914-739-6463')

(18, 'Thomas Johnson', '2709 Arlington Dr', 'Springfield', 'IL', '62704',
'318-555-9012')

(19, 'Christopher Johnson', '131 N Harris Rd', 'Pearcy', 'AR', '71964',
'501-767-7635')

(20, 'Charles Johnson', '2008 Eliza Dorsey Ln', 'Ellicott City', 'MD', '21042',
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(23, 'Mike Johnson', '789 Oak St', 'Chicago', 'IL', '60601', '443-555-9012')

(24, 'James Johnson', '10269 Donna Dr', 'Dittmer', 'MO', '63023',
'443-944-3853')

(25, 'Robert Johnson', '3139 Wheatway', 'Ellicott City', 'MD', '21043',
'443-555-9014')

(26, 'Patricia Johnson', '170 Mitch Johnson Rd', 'Glenmora', 'LA', '71433',
'318-634-7186')

(27, 'William Johnson', '523 Nelson Ave', 'Peekskill', 'NY', '10566',
'914-739-6463')

(28, 'Thomas Johnson', '2709 Arlington Dr', 'Springfield', 'IL', '62704',
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'501-767-7635')

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(33, 'Mike Johnson', '789 Oak St', 'Chicago', 'IL', '60601', '443-555-9012')

(34, 'James Johnson', '10269 Donna Dr', 'Dittmer', 'MO', '63023',
'443-944-3853')

(35, 'Robert Johnson', '3139 Wheatway', 'Ellicott City', 'MD', '21043',
'443-555-9014')

(36, 'Patricia Johnson', '170 Mitch Johnson Rd', 'Glenmora', 'LA', '71433',
'318-634-7186')
(37, 'William Johnson', '523 Nelson Ave', 'Peekskill', 'NY', '10566',
'914-739-6463')
(38, 'Thomas Johnson', '2709 Arlington Dr', 'Springfield', 'IL', '62704',
'318-555-9012')
(39, 'Christopher Johnson', '131 N Harris Rd', 'Pearcy', 'AR', '71964',
'501-767-7635')
(40, 'Charles Johnson', '2008 Eliza Dorsey Ln', 'Ellicott City', 'MD', '21042',
'443-763-7065')