SDEV 300 - Project 5

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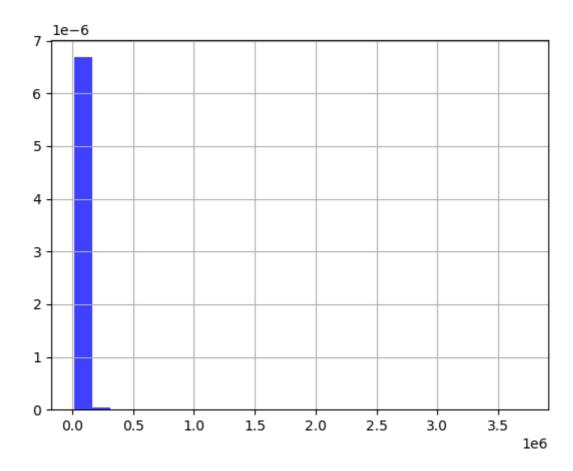
This post will serve as documentation for the project 5. Includes test cases and screenshots for the python data

analysis app.

Python Data Analysis program

Test Case	Input	Expected Output	Actual Output	Pass?
1	1, a	Information and graph output for Apr 1 Pop	Please see below for screenshot and graph	Yes

```
****** Welcome to the Python Data Analysis App ******
Select the file you want to analyze:
1. Population Data
2. Housing Data
3. Exit the Program
You have entered Population data
Select the Column you want to analyze:
a. Pop Apr 1
b. Pop Jul 1
c. Change Pop
d. Exit Column
You have selected Pop Apr 1
The statistics for this column are:
Count: 557
Mean: 56557.3
Standard Deviation: 157985.1
Min: 13519
Max: 3726157
```



Test Case	Input	Expected Output	Actual Output	Pass?
2	1, b	Information and graph output for Jul 1 pop	Please see below for screenshot and graph	Yes

You have entered Population data

Select the Column you want to analyze:

a. Pop Apr 1

b. Pop Jul 1

c. Change Pop

d. Exit Column

b

You have selected Pop Jul 1

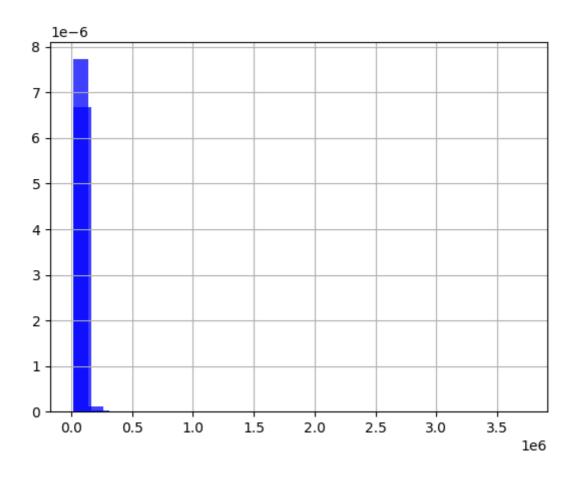
The statistics for this column are:

Count: 557

Mean: 55758.5

Standard Deviation: 135964.3

Min: 12619 Max: 3195153



Test Input Expected Output Actual Output Pass?

Test Case	Input	Expected Output	Actual Output	Pass?
3	1, c	Information and graph output for pop change	Please see below for screenshot and graph	Yes

You have entered Population data

Select the Column you want to analyze:

a. Pop Apr 1

b. Pop Jul 1

c. Change Pop

d. Exit Column

С

You have selected Pop change

The statistics for this column are:

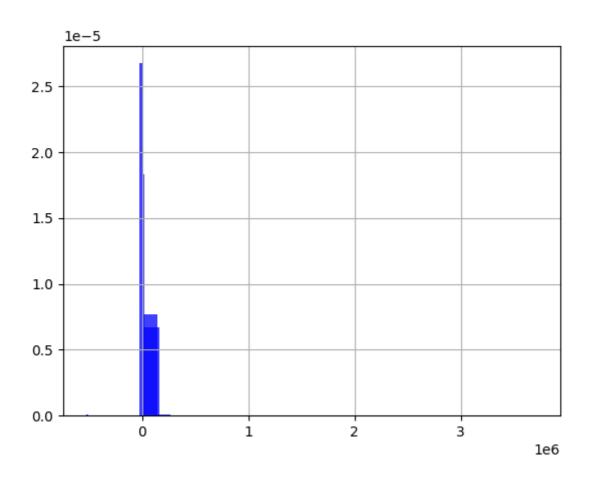
Count: 557

Mean: -798.8

Standard Deviation: 22691.0

Min: -531004

Max: 22363



Test Case	Input	Expected Output	Actual Output	Pass?
4	1, d	Exiting the current column	Please see below for screenshot	Yes

You have entered Population data

Select the Column you want to analyze:

- a. Pop Apr 1
- b. Pop Jul 1
- c. Change Pop
- d. Exit Column

d

Select the file you want to analyze:

- 1. Population Data
- 2. Housing Data
- 3. Exit the Program

Test Case	Input	Expected Output	Actual Output	Pass?
5	2, a	Information and graph output for housing age	Please see below for screenshot and graph	Yes

You have entered Housing data

Select the Column you want to analyze:

a. Age

b. Bedrooms

c. Weight

d. Utility

e. Exit Column

а

You have selected Housing age

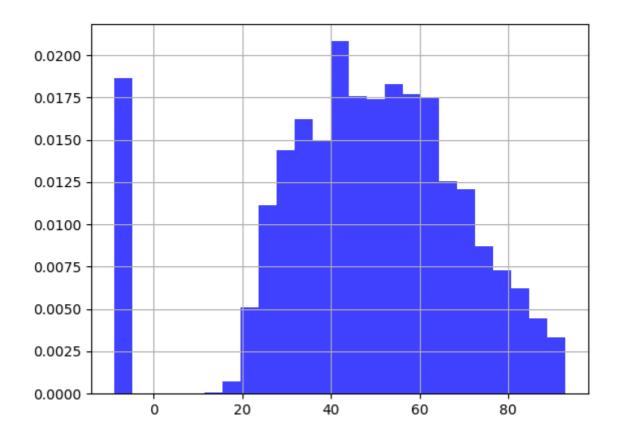
The statistics for this column are:

Count: 10042

Mean: 47.2

Standard Deviation: 23.1

Min: -9.0 Max: 93.0



Test Case	Input	Expected Output	Actual Output	Pass?
6	2, b	Information and graph output for	Please see below for screenshot	Yes
		housing bedrooms	and graph	

You have entered Housing data

Select the Column you want to analyze:

a. Age

b. Bedrooms

c. Weight

d. Utility

e. Exit Column

b

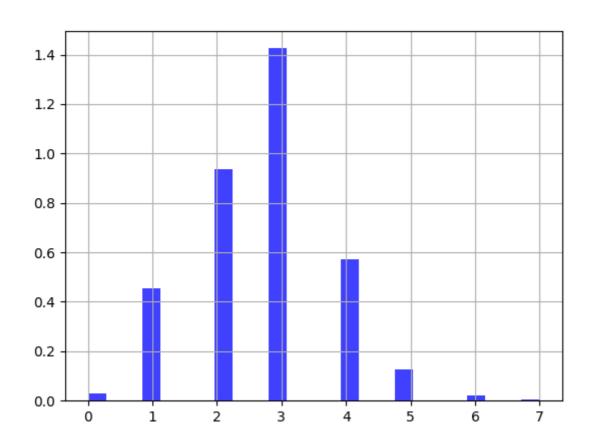
You have selected Housing bedrooms The statistics for this column are:

Count: 10042

Mean: 2.7

Standard Deviation: 1.1

Min: 0.0 <u>Max:</u> 7.0



Test Case	Input	Expected Output	Actual Output	Pass?
7	2, c	Information and graph output for housing weight	Please see below for screenshot and graph	Yes

You have entered Housing data

Select the Column you want to analyze:

- a. Age
- b. Bedrooms
- c. Weight
- d. Utility
- e. Exit Column

С

You have selected Housing weight

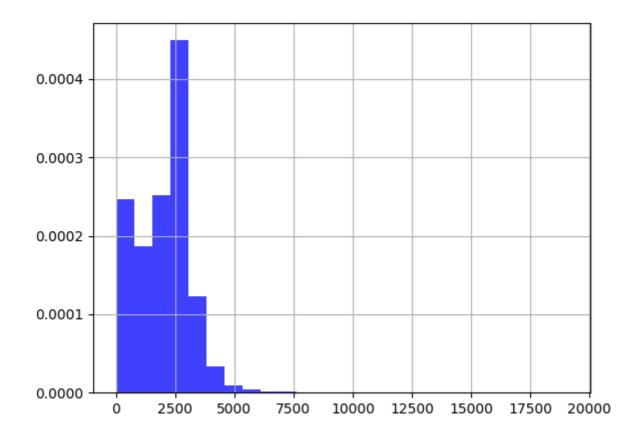
The statistics for this column are:

Count: 10042 Mean: 2047.1

Standard Deviation: 1183.0

Min: 0.0

Max: 19077.61328



Test Case	Input	Expected Output	Actual Output	Pass?
8	2, d	Information and graph output for housing utility	Please see below for screenshot and graph	Yes

You have entered Housing data

Select the Column you want to analyze:

a. Age

b. Bedrooms

c. Weight

d. Utility

e. Exit Column

d

You have selected Housing utility

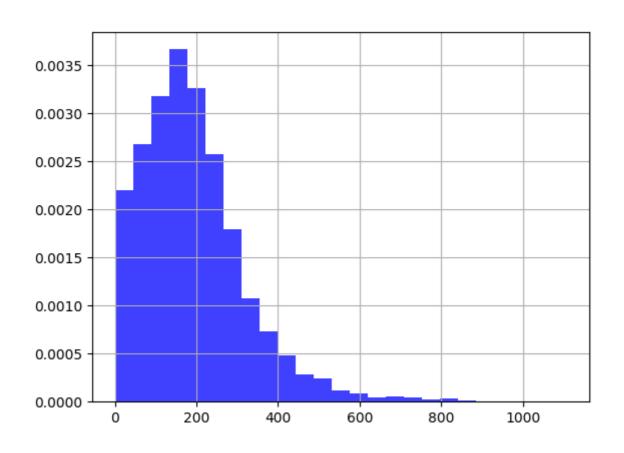
The statistics for this column are:

Count: 10042 Mean: 189.6

Standard Deviation: 128.9

Min: 0.0

Max: 1107.583333



Test Case	Input	Expected Output	Actual Output	Pass?
9	2, e	Exiting the current column	Please see below for screenshot	Yes

You have entered Housing data

Select the Column you want to analyze:

- a. Age
- b. Bedrooms
- c. Weight
- d. Utility
- e. Exit Column

е

Select the file you want to analyze:

- 1. Population Data
- 2. Housing Data
- 3. Exit the Program

Test Case	Input	Expected Output	Actual Output	Pass?
10	3	Exiting the program	Please see below for screenshot	Yes

Select the file you want to analyze:

- 1. Population Data
- 2. Housing Data
- 3. Exit the Program

3

****** Thank you for using the Python Data Analysis App *****

Process exited with code: 0

Pane is dead