

SDEV300
Kyra Samuel
Lab Five

Summary

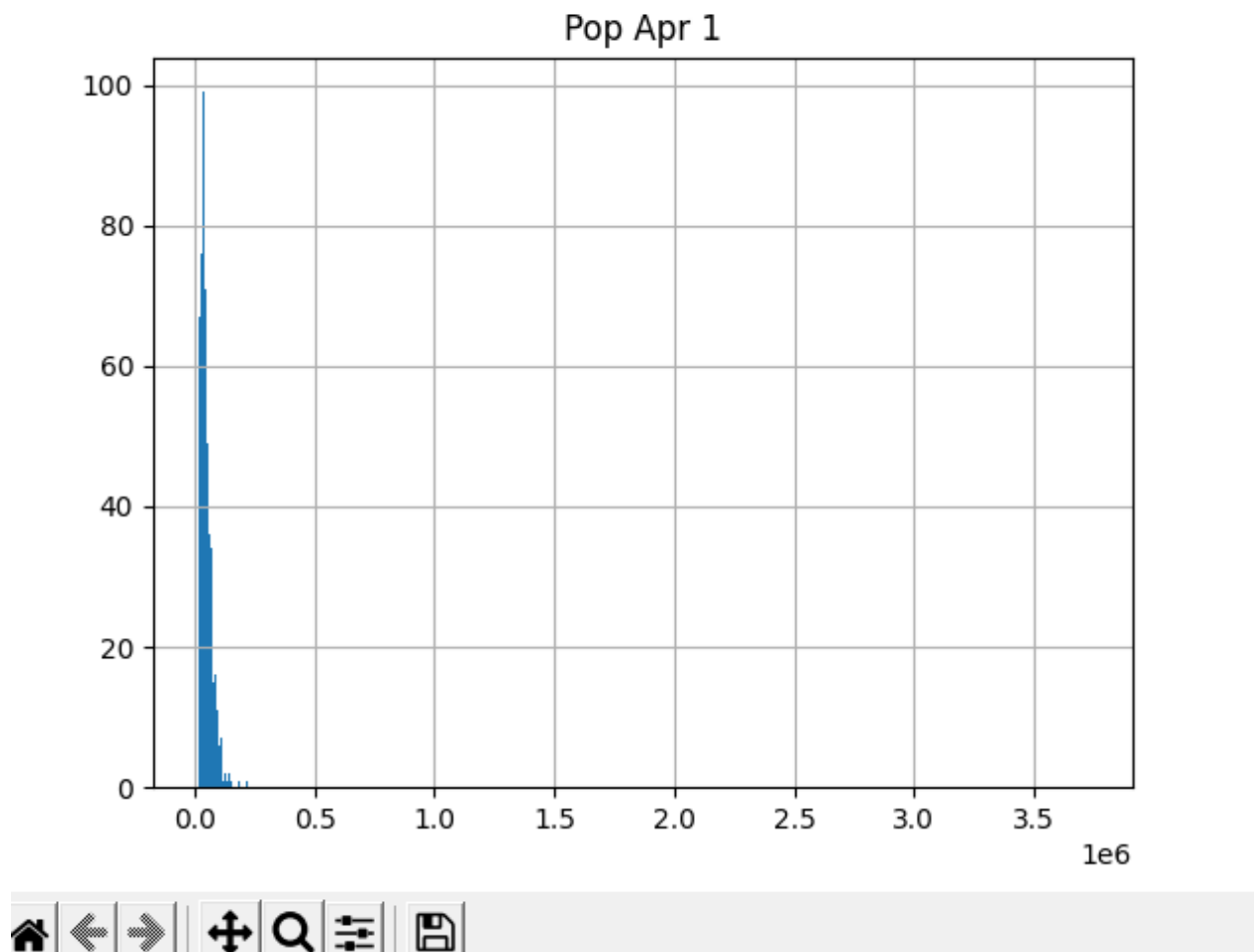
Users are shown all columns in the csv files, if all values in the column are numeric then statistics and a histogram is displayed.

Tests

Test 1. Population Data

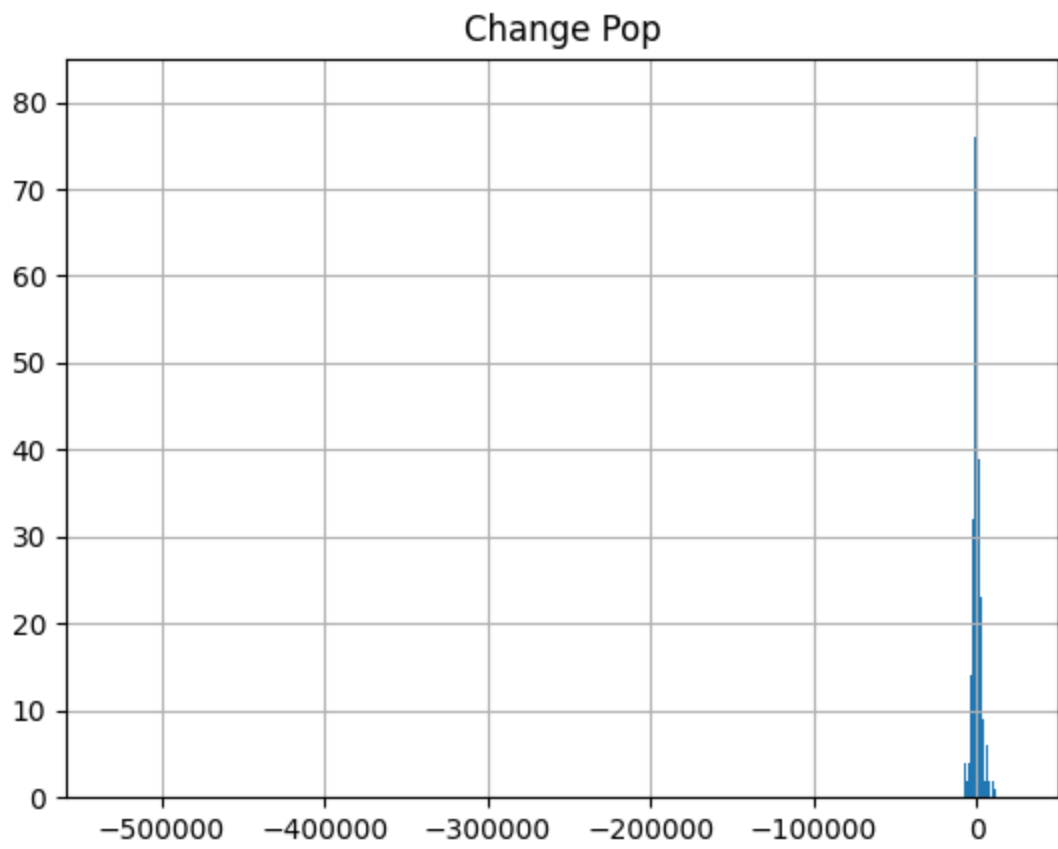
Column: Pop Apr 1

```
Select the file you want to analyze:
1: Population Data
2: Housing Data
3: Exit Program
1
Select the Column you want to analyze:
1: Id
2: Geography
3: Target Geo Id
4: Target Geo Id2
5: Pop Apr 1
6: Pop Jul 1
7: Change Pop
8: Exit DataFrame
5
You selected Pop Apr 1
The statistics for this column are:
Count = 557.00
Mean = 56557.31
Standard Deviation = 158127.11
Min = 13519.00
Max = 3726157.00
The Histogram of this column is now displayed.
```



Column: Change Pop

```
You selected Change Pop
The statistics for this column are:
Count = 557.00
Mean = -798.83
Standard Deviation = 22711.35
Min = -531004.00
Max = 22363.00
The Histogram of this column is now displayed.
```



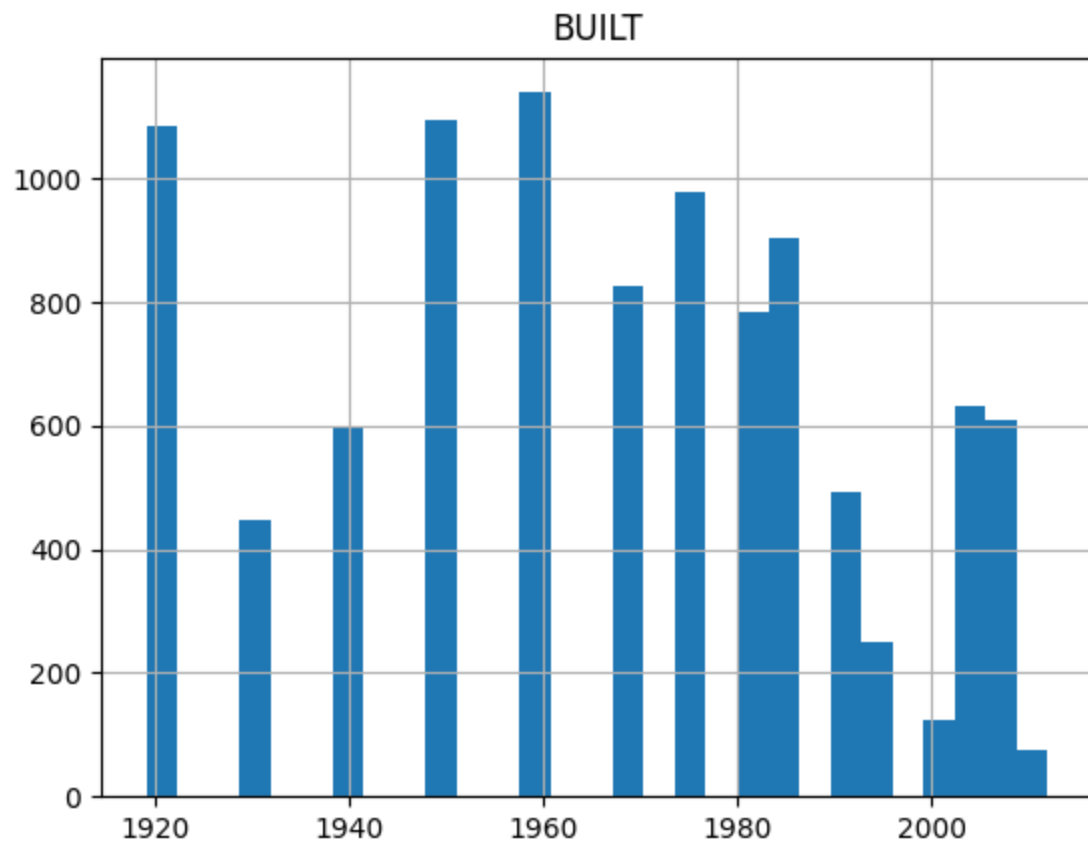
Column: Geography

```
2
You selected Geography
This column does not have numeric values.
Select the Column you want to analyze:
```

Test 2. Housing Data

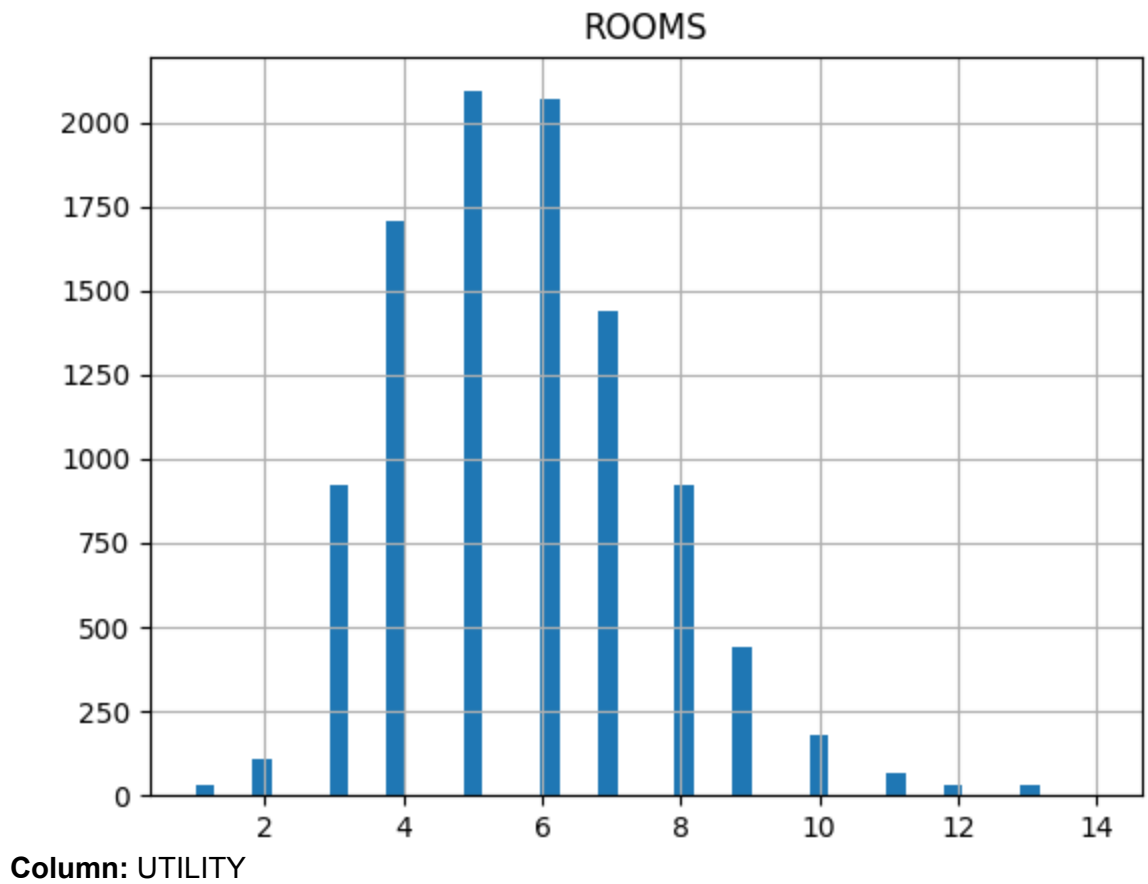
Column: BUILT

```
0
***** Welcome to the Python Data Analysis App*****
Select the file you want to analyze:
1: Population Data
2: Housing Data
3: Exit Program
2
Select the Column you want to analyze:
1: AGE
2: BEDRMS
3: BUILT
4: NUNITS
5: ROOMS
6: WEIGHT
7: UTILITY
8: Exit DataFrame
3
You selected BUILT
The statistics for this column are:
Count = 10042.00
Mean = 1966.95
Standard Deviation = 26.31
Min = 1919.00
Max = 2012.00
The Histogram of this column is now displayed.
```

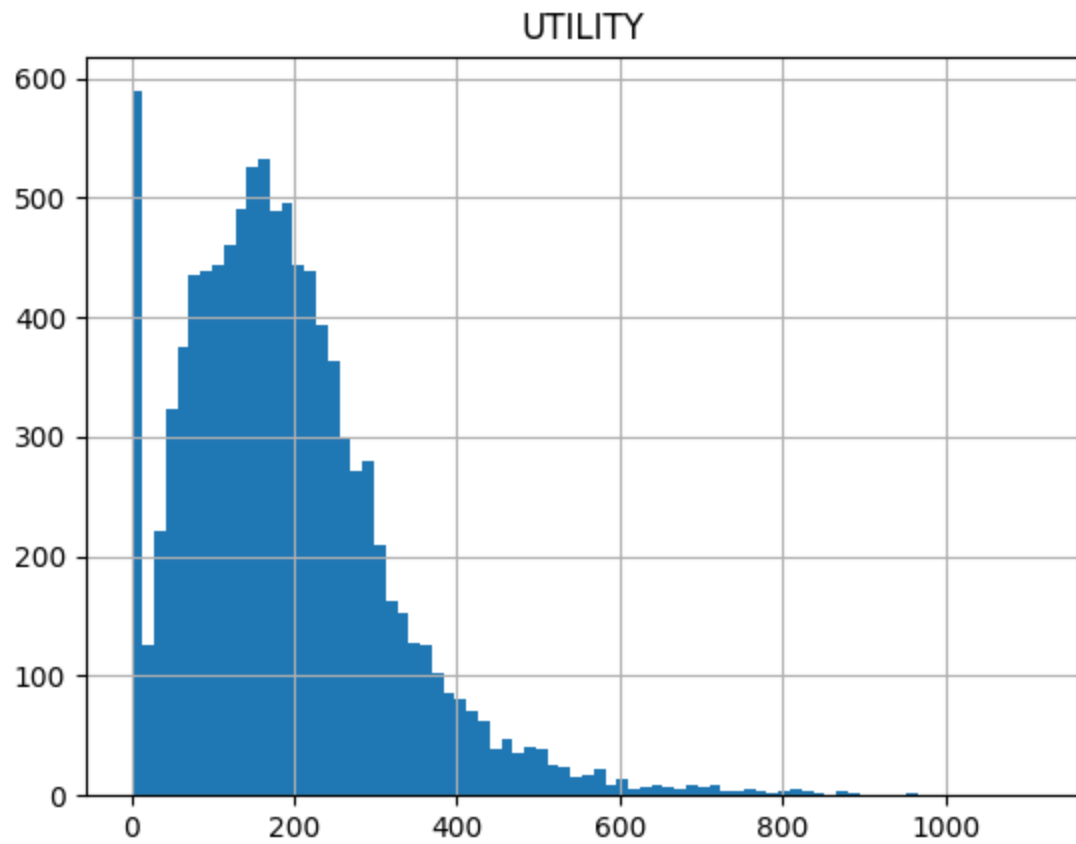


Column: ROOMS

```
You selected ROOMS
The statistics for this column are:
Count = 10042.00
Mean = 5.72
Standard Deviation = 1.88
Min = 1.00
Max = 14.00
The Histogram of this column is now displayed.
```



```
You selected UTILITY
The statistics for this column are:
Count = 10042.00
Mean = 189.59
Standard Deviation = 128.93
Min = 0.00
Max = 1107.58
```



Test 3. Exit Program

```
***** Welcome to the Python Data Analysis App*****
Select the file you want to analyze:
1: Population Data
2: Housing Data
3: Exit Program
3
Thank you for participating!
```

Test 4. Exit DataFrame

```
Select the Column you want to analyze:
1: Id
2: Geography
3: Target Geo Id
4: Target Geo Id2
5: Pop Apr 1
6: Pop Jul 1
7: Change Pop
8: Exit DataFrame
8
***** Welcome to the Python Data Analysis App*****
Select the file you want to analyze:
1: Population Data
2: Housing Data
3: Exit Program
```

- Users are allowed to go back to the main menu with the “Exit DataFrame” option

Errors

Error 1. Invalid Menu Option

```
***** Welcome to the Python Data Analysis App*****
Select the file you want to analyze:
1: Population Data
2: Housing Data
3: Exit Program
4
Please enter a valid menu option
***** Welcome to the Python Data Analysis App*****
Select the file you want to analyze:
1: Population Data
2: Housing Data
3: Exit Program
```

```
6: Pop Jul 1
7: Change Pop
8: Exit DataFrame
9
Please select a valid menu option.
Select the Column you want to analyze:
1: Id
2: Geography
3: Target Geo Id
4: Target Geo Id2
5: Pop Apr 1
6: Pop Jul 1
7: Change Pop
8: Exit DataFrame
```