Assignment-1

Aravind

2024-02-01

```
#Reference:

#Data is taken from https://opendataphilly.org/dataset/philadelphia-
universities-and-colleges/resource/baa34ebf-0352-4c33-a9f6-8ae061a50939

dataset1 = read.csv("C:/Users/aravi/OneDrive/Documents/Universities List -
1.csv")
dataset1

##             University_names PARCEL_ID GROSS_AREA Shape__Area
Shape__Length
## 1          Temple University    155059     231347  231347.865
2519.9679
## 2          Temple University    392760      47425   47426.015
1281.7251
## 3  Temple University Medical     13161      29301   29348.387
707.2776
## 4  Temple University Medical    324604      34030   33840.215
746.5503
## 5  Temple University Medical     18474      22500   22697.679
602.6341
## 6  Temple University Medical    272372     506603  498503.438
3085.6383
## 7     University of the Arts    208422      13350   13349.988
477.9994
## 8     University of the Arts    542656      38640   39003.837
931.2586
## 9     University of the Arts     88046      16648   16634.061
708.5103
## 10    University of the Arts    139329      13567   13747.561
469.1568
## 11    University of the Arts    195308       5193    5213.345
340.0758
## 12    University of the Arts    259264      19294   19378.185
615.5444
## 13    University of the Arts    288419       4920    5144.847
327.9308
## 14    University of the Arts    487380      21150   21081.861
581.2803
## 15       La Salle University     16858       1383    1369.704
208.3377
##      Code
```

```
## 1   Green
## 2   Green
## 3     Red
## 4     Red
## 5     Red
## 6     Red
## 7  Orange
## 8  Orange
## 9  Orange
## 10 Orange
## 11 Orange
## 12 Orange
## 13 Orange
## 14 Orange
## 15   Blue
```

```
#Quantitative Descriptive Statistics

mean(dataset1$Shape__Area)
```

```
## [1] 66539.13
```

```
sd(dataset1$Shape__Area)
```

```
## [1] 131862.3
```

```
#Categorical Variables

table(dataset1$Code)
```

```
##
##   Blue  Green Orange    Red
##      1      2      8      4
```

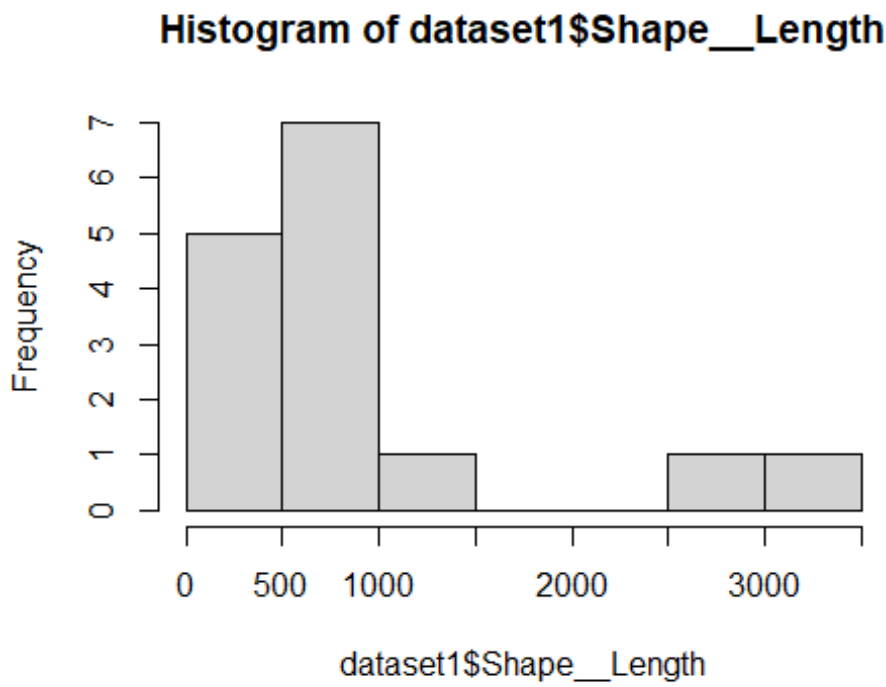
```
dataset1$Shape__Area = mean(dataset1$Shape__Area)- sd(dataset1$Shape__Area)
dataset1$Shape__Area
```

```
##  [1] -65323.15 -65323.15 -65323.15 -65323.15 -65323.15 -65323.15 -65323.15
##  [8] -65323.15 -65323.15 -65323.15 -65323.15 -65323.15 -65323.15 -65323.15
## [15] -65323.15
```

```
#Below is the example for Histogram of Quantitative variables

#Scatter Plot

hist(dataset1$Shape__Length)
```




```r
p = dataset1$Shape__Area
q = dataset1$Shape__Length
plot(p,q, main = "Area and Length", xlab = "Area", ylab = "Length")
```