

EXPERIMENT-1

CENTRAL TENDENCY AND DATA DISPERSION MEASURES USING R-TOOL

OUTPUT:

```
R Console
> sample <- read.csv("sample.csv", head=TRUE, sep=",")
> sample
  Zip.code Total.population Median.age Total.Males Total.Females Total.Households
1  91371         1         27         0         1         1
2  90001        57110        32        28000        25000        12098
3  90002        62666        41        21000        23000        12345
4  90003        62180        26        32000        23000        25672
5  90004        37681        27        13000        17000        10021
6  90005        59185        32        19000        18213        13486
7  90006        40920        37        38000        26444        16283
8  90007        32327        43        29000        10000        17303
9  90008         3800        22         1874        25002        13052
10 90009       103892        28       19456        31111        19363
11 90010        31103        30       26011        27211        20734
12 90011        11772        24         1367        19992         4167
13 90012         7005        25        10000        17322        2014

  Average.households
1         1
2         4
3         4
4         2
5         2
6         3
7         4
8         2
9         1
10        4
11        2
12        3
13        1

> mean(sample$Total.Males)
[1] 18362.15
> median(sample$Total.Males)
[1] 19456
> mode(sample$Total.Males)
[1] "numeric"
> IQR=(sample$Total.Males)
> IQR(sample$Total.Males)
[1] 18000
> quantile(sample$Total.Males,0.25)
[25%
```

```
R Console
9          1
10         4
11         2
12         3
13         1
> mean(sample$Total.Males)
[1] 19362.15
> median(sample$Total.Males)
[1] 19456
> mode(sample$Total.Males)
[1] "numeric"
> IQR=(sample$Total.Males)
> IQR(sample$Total.Males)
[1] 18000
> quantile(sample$Total.Males,0.25)
25%
10000
> quantile(sample$Total.Males,0.75)
75%
28000
> range(sample$Total.Males)
[1] 0 38000
> mean(range(sample$Total.Males))
[1] 19000
> Lf<-quantile(sample$Total.Males,0.25)-1.5*(IQR(sample$Total.Males)
+ )
Error: attempt to apply non-function
> Lf<-quantile(sample$Total.Males,0.25)-1.5*(IQR(sample$Total.Males))
Error: attempt to apply non-function
> Lf<-quantile(sample$Total.Males,0.25)-1.5*(IQR(sample$Total.Males))
> print(Lf)
25%
-17000
> uf<-quantile(sample$Total.Males,0.25)+1.5*(IQR(sample$Total.Males))
> print(uf)
25%
37000
> outlier_values<-boxplot.stats(sample$Total.Males)$out
> print(outlier_values)
integer(0)
> |
```