Start

2022-09-10

R Markdown

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title: "Assignment1 Final"
output: pdf_document

R Markdown

##Dataset source picked from Kaggle.com of Monkey_Pox_Cases_Worldwide #https://www.kaggle.com/code/deepcontractor/monkey-pox-dataset

##Loading CSV file to a dataframe

```
getwd()
```

```
## [1] "C:/Users/haris/Documents/Fall 2022/FML/Assignment 1"
```

```
setwd("C:/Users/haris/Documents/Fall 2022/FML/Assignment 1")
Monkeypox_p1 <- read.csv("monkeypox_df.csv")
```

The descriptive statistics for a selection of quantitative and categorical variables in the data

```
##For Quantitative Variable
mean(Monkeypox_p1$Confirmed_Cases)
```

```
## [1] 461.496
```

```
summary(Monkeypox_p1$Confirmed_Cases)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##     0.0     2.0     5.0   461.5    71.0 21761.0
```

```
##For Categorical Variable
table(Monkeypox_p1$Country)
```

```
##
##                          Andorra                          Argentina
##                                1                                  1
##                            Aruba                          Australia
##                                1                                  1
##                          Austria                            Bahamas
##                                1                                  1
##                       Bangladesh                           Barbados
##                                1                                  1
##                          Belgium                             Belize
##                                1                                  1
##                            Benin                            Bermuda
##                                1                                  1
##                          Bolivia            Bosnia And Herzegovina
##                                1                                  1
##                           Brazil                           Bulgaria
##                                1                                  1
##                         Cambodia                           Cameroon
##                                1                                  1
##                           Canada                     Cayman Islands
##                                1                                  1
##          Central African Republic                              Chile
##                                1                                  1
##                            China                           Colombia
##                                1                                  1
##                       Costa Rica                            Croatia
##                                1                                  1
##                             Cuba                           Curaçao
##                                1                                  1
##                           Cyprus                     Czech Republic
##                                1                                  1
## Democratic Republic Of The Congo                           Denmark
##                                1                                  1
##                 Dominican Republic                           Ecuador
##                                1                                  1
##                            Egypt                        El Salvador
##                                1                                  1
##                          England                            Estonia
##                                1                                  1
##                             Fiji                           Finland
##                                1                                  1
##                           France                      French Guiana
##                                1                                  1
##                          Georgia                            Germany
##                                1                                  1
##                            Ghana                          Gibraltar
##                                1                                  1
##                           Greece                          Greenland
##                                1                                  1
##                       Guadeloupe                          Guatemala
##                                1                                  1
##                           Guyana                              Haiti
##                                1                                  1
##                         Honduras                          Hong Kong
```

```
##                          1                          1
##                    Hungary                    Iceland
##                          1                          1
##                      India                  Indonesia
##                          1                          1
##                       Iran                    Ireland
##                          1                          1
##                     Israel                      Italy
##                          1                          1
##                    Jamaica                      Japan
##                          1                          1
##                     Kosovo                     Latvia
##                          1                          1
##                    Lebanon                    Liberia
##                          1                          1
##                  Lithuania                 Luxembourg
##                          1                          1
##                     Malawi                   Malaysia
##                          1                          1
##                      Malta                  Martinique
##                          1                          1
##                   Mauritius                     Mexico
##                          1                          1
##                    Moldova                     Monaco
##                          1                          1
##                 Montenegro                    Morocco
##                          1                          1
##                      Nepal                Netherlands
##                          1                          1
##              New Caledonia                New Zealand
##                          1                          1
##                    Nigeria            Northern Ireland
##                          1                          1
##                     Norway                   Pakistan
##                          1                          1
##                     Panama                   Paraguay
##                          1                          1
##                       Peru                Philippines
##                          1                          1
##                     Poland                   Portugal
##                          1                          1
##                Puerto Rico                      Qatar
##                          1                          1
##           Republic of Congo                    Romania
##                          1                          1
##                     Russia Saint Martin (French part)
##                          1                          1
##                Saudi Arabia                   Scotland
##                          1                          1
##                     Serbia                Sierra Leone
##                          1                          1
##                  Singapore                   Slovakia
##                          1                          1
##                   Slovenia                    Somalia
```

```
##                             1                             1
##                  South Africa                   South Korea
##                             1                             1
##                   South Sudan                         Spain
##                             1                             1
##                         Sudan                        Sweden
##                             1                             1
##                   Switzerland                        Taiwan
##                             1                             1
##                      Thailand                        Turkey
##                             1                             1
##                        Uganda          United Arab Emirates
##                             1                             1
##                 United States                       Uruguay
##                             1                             1
##                     Venezuela                         Wales
##                             1                             1
##                        Zambia
##                             1
```

```
summary(Monkeypox_p1$Country)
```

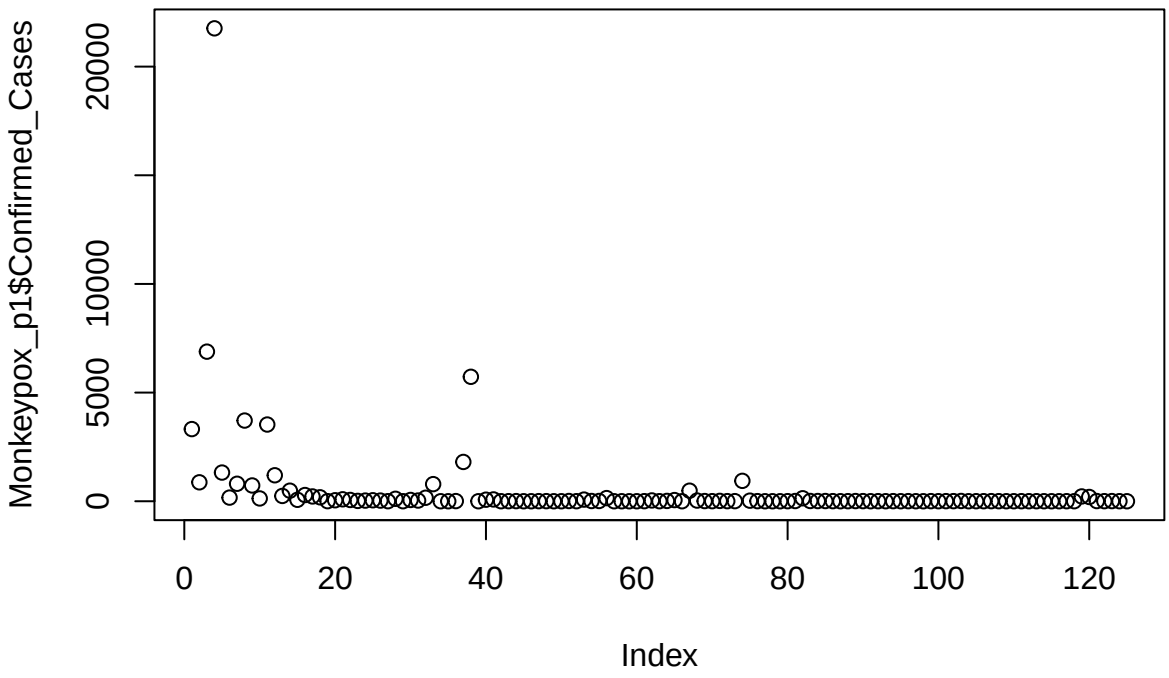
```
##    Length     Class      Mode
##       125 character character
```

##Transformation of variables

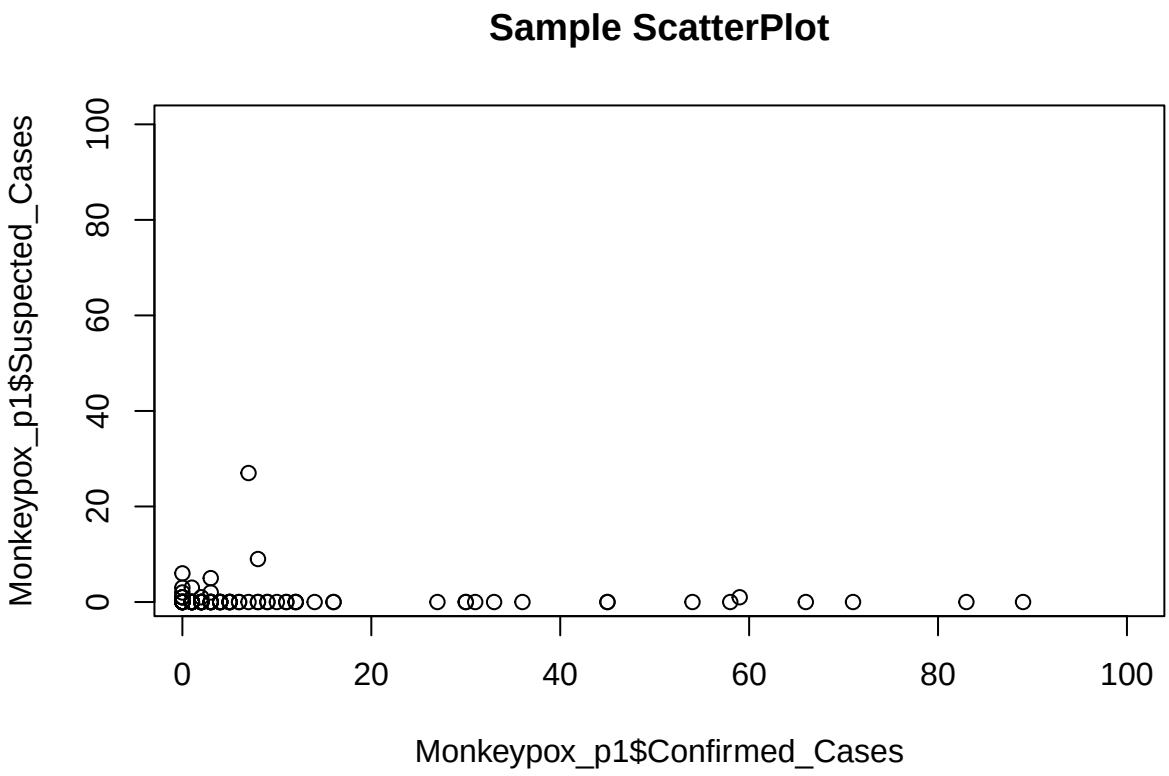
```
##We are applying log transformation
log(Monkeypox_p1$Confirmed_Cases)
```

##Plotting

```
##Plot
plot(Monkeypox_p1$Confirmed_Cases)
```




```
##Scatter Plot
plot(Monkeypox_p1$Confirmed_Cases,Monkeypox_p1$Suspected_Cases,main = "Sample ScatterPlot", xlim = c(1,
```


Sample ScatterPlot
Monkeypox_p1$Suspected_Cases
0
20
40
60
80
100
0
20
40
60
80
100
Monkeypox_p1$Confirmed_Cases