

**Technological Institute of Tijuana****Academic Subdirector****Systems and Computing Department****SEMESTER:** August - December 2021**CAREER:** Computer Systems Engineer**MATTER:** Data Mining**JOB NAME:** Unit 2 - Practice 1**STUDENT NAME AND CONTROL NUMBER:**

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**1-Find the interesting dataframe**

```
df <- read.csv(file.choose())
```

**2-Read the csv and analyze the data with R**

```
df  
tail(df)  
nrow(df)  
head(df)  
str(df)  
ncol(df)
```

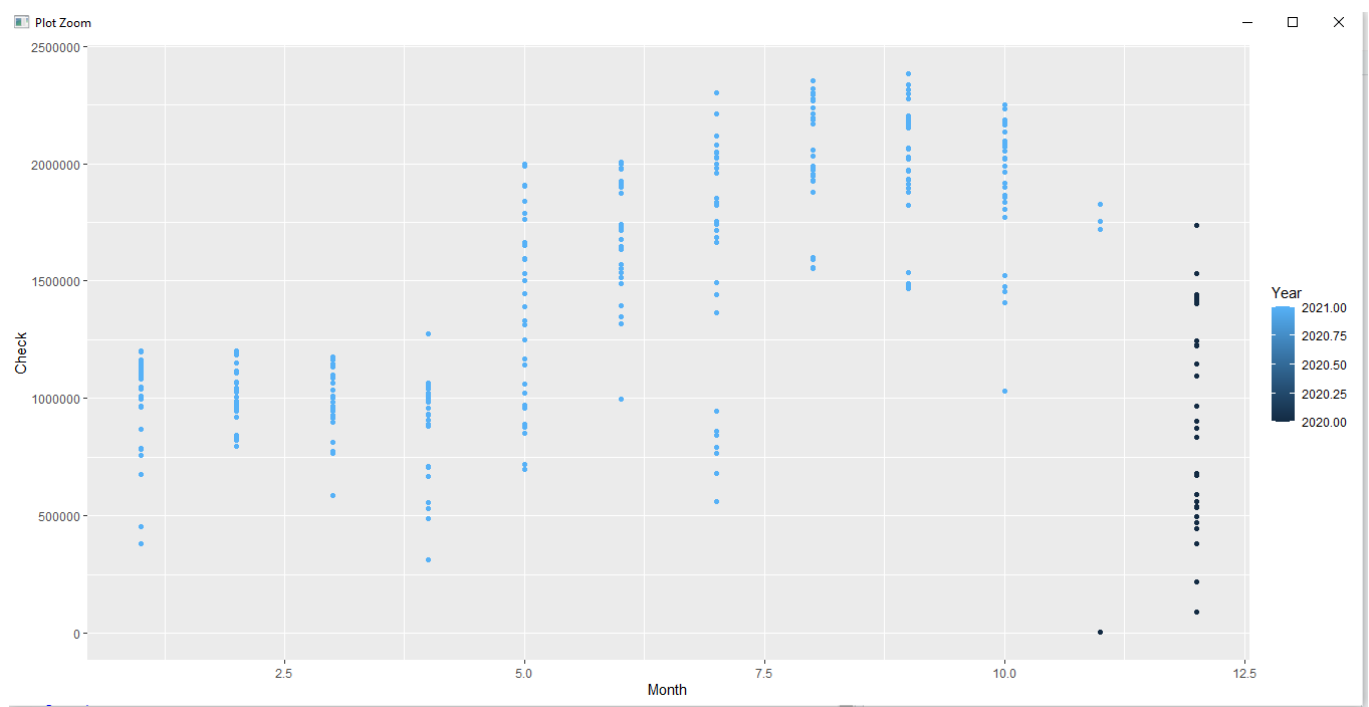
Now we change then columns names because was so large

```
colnames(df) <-
c("Year", "Month", "Check", "OrgAct", "UnicMob", "CheckCum", "OrgAct+", "UnicMob+",
  "Delec+", "Country")
```

### 3-.GRAPHICS

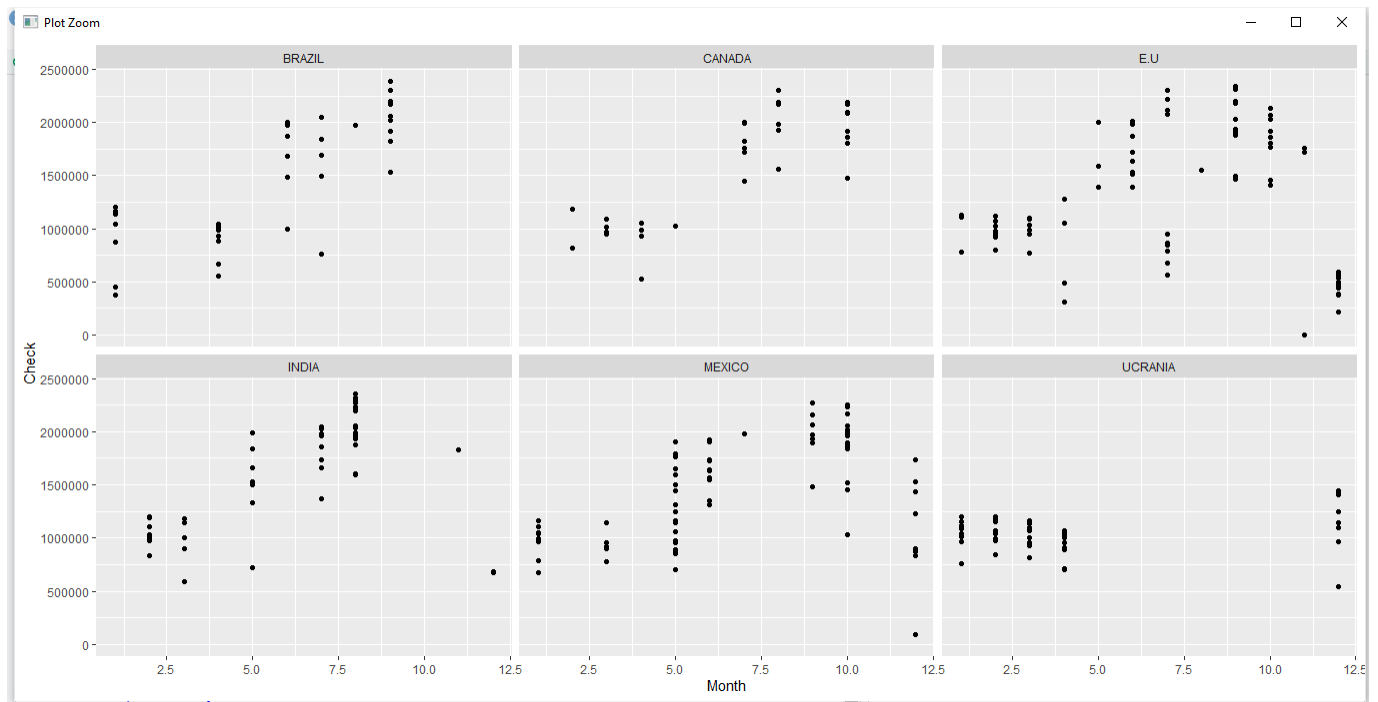
#### Dispersion grapgic

```
ggplot(df, aes(x = Month, y = Check,
               color=Year)) +
  geom_point()
```



#### Facet graphiac

```
ggplot(data = df) +
  geom_point(mapping = aes(x = Month, y = Check)) +
  facet_wrap(~ Country, nrow = 2)
```



### Simple regression graph

```
regressor = lm(formula = Check ~ Month,
               data = df)
summary(regressor)

ggplot() +
  geom_point(aes(x=df$Month, y=df$Check),
            color = 'red') +
  geom_line(aes(x = df$Month, y = predict(regressor, newdata = df)),
            color = 'blue') +
  ggtitle('Positivos segun la fecha') +
  xlab('Years') +
  ylab('Positive')
```

