Lab 6 - EDA

**Exploring Data with R**

It is very important to explore data before starting to build a predictive model. It gives an idea about the structure of the dataset like number of continuous or categorical variables and number of observations (rows).

Choose the dataset **“attitude”** from the R Datasets Package.

Prepare an **R Markdown document** for this lab work.

**Determine what R function to use for the following**:

1. **See basic descriptive statistics**

rating complaints privileges learning

Min. :40.00 Min. :37.0 Min. :30.00 Min. :34.00

1st Qu.:58.75 1st Qu.:58.5 1st Qu.:45.00 1st Qu.:47.00

Median :65.50 Median :65.0 Median :51.50 Median :56.50

Mean :64.63 Mean :66.6 Mean :53.13 Mean :56.37

3rd Qu.:71.75 3rd Qu.:77.0 3rd Qu.:62.50 3rd Qu.:66.75

Max. :85.00 Max. :90.0 Max. :83.00 Max. :75.00

raises critical advance

Min. :43.00 Min. :49.00 Min. :25.00

1st Qu.:58.25 1st Qu.:69.25 1st Qu.:35.00

Median :63.50 Median :77.50 Median :41.00

Mean :64.63 Mean :74.77 Mean :42.93

3rd Qu.:71.00 3rd Qu.:80.00 3rd Qu.:47.75

Max. :88.00 Max. :92.00 Max. :72.00

1. *What is the difference between (attitude[4]) and (attitude$learning)*

# This command extract data at column with index 4

attdata[4]

#This command specify the column which has name 'learning'

attdata$learning

1. **Lists name of variables in a dataset**
2. **Calculate number of rows in a dataset**
3. **Calculate number of columns in a dataset**
4. **List structure of a dataset**
5. **See first 6 rows (by default) of dataset**
6. **See first n rows of dataset**

Select to see the first 15 rows of dataset

1. **See all rows but not the last row**
2. **See last 6 rows (by default) of a dataset**
3. **See last n rows of dataset**

Select to see the last 12 rows of dataset.

1. **See the last n rows but not the first row**
2. **Number of missing values**

Which function will returns number of missing values in each variable of a dataset?

1. **Number of missing values in a single variable**
2. **Plot a simple graph, which will appear on a screen device.**
3. **Plot the graph shown below, and make it appear on a file device (a pdf file)**

