**PRACTICAL 6**

In an R Markdown document, complete the following with the movies.csv data.

Download the data from <http://becomingvisual.com/rfundamentals/movies.csv>

1. Getting to know the data
2. Import the data
3. View the data
4. Look at column names
5. Look at dimension of data (rows and columns)

| Solution: |
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1. Scatterplots
2. Do scatter plot of Tickets Sold and Gross (Is the trend expected?)
3. Redo scatter plot, adjusting scales, divide by 1000
4. Redo scatter plot, adjusting scales, divide by 100,000
5. Redo scatter plot, adjusting scales, divide by 1,000,000

| Solution: |
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1. What is the correlation between tickets sold and sales? Is this expected?

| Solution: |
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1. Scatterplots with lines
2. Do scatter plot with millions scale, add a regression line
3. Add label to x and y axis, add plot title label

| Solution: |
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1. Other plots
2. Do boxplot
3. Do boxplot - horizontal
4. Do histogram for type of films
5. Do histogram of gross sales. How bins are shown by default?
6. Do histogram of gross sales with 10 bins.
7. Do histogram of ticket sales. Try different bin numbers.
8. Do histogram of ticket sales (use millions unit). Add frequency count to top of bars. Add titles.
9. Do barplot of genre.

| Solution: |
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1. In a R Markdown document, produce plots that describe the GDP (<http://becomingvisual.com/rfundamentals/gdp.csv>) and Life Expectancy (<http://becomingvisual.com/rfundamentals/life_expectancy.csv>) during 2016 You will need to create a new data frame with these columns.
2. Create a scatter plot of GDP to Life Expectancy
3. Create a histogram of GDP
4. Create a box and whisper plot of Life Expectancy

| Solution: |
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