HW1

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# Installing the packgage for MySQL

install.packages("RMySQL")

## package 'RMySQL' successfully unpacked and MD5 sums checked  
##   
## The downloaded binary packages are in  
## C:\Users\i61287\AppData\Local\Temp\RtmpYNkPco\downloaded\_packages

install.packages("ggplot2")

## package 'ggplot2' successfully unpacked and MD5 sums checked  
##   
## The downloaded binary packages are in  
## C:\Users\i61287\AppData\Local\Temp\RtmpYNkPco\downloaded\_packages

library(RMySQL)

## Loading required package: DBI

library(ggplot2)   
  
#Connect to the MySQL database  
mydb = dbConnect(MySQL(), user='user1', password='Password1234', dbname='sys', host='localhost')  
  
#List the fields  
dbListFields(mydb, 'movies')

## [1] "Movie\_Name" "Reviewer\_Name" "Rate"

rs = dbSendQuery(mydb, "select \* from movies")  
  
#load records to data frame  
Mydata = fetch(rs, n=-1)  
  
#Check the class of dataframe  
class(Mydata)

## [1] "data.frame"

#Count Number of row  
nrow(Mydata)

## [1] 30

#Count Number of column  
ncol(Mydata)

## [1] 3

#Dimension  
dim(Mydata)

## [1] 30 3

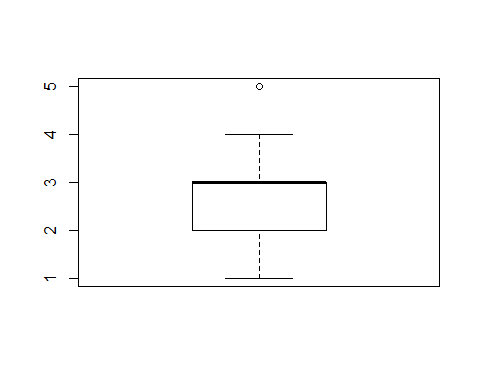
#Table format  
table(Mydata)

## , , Rate = 1  
##   
## Reviewer\_Name  
## Movie\_Name Reviewer 1 Reviewer 2 Reviewer 3 Reviewer 4  
## Kicks 0 0 1 1  
## Other People 0 1 0 1  
## Sully 0 0 0 1  
## The Disappointments Room 0 0 0 0  
## The Wild Life 0 0 0 0  
## When the Bough Breaks 0 0 0 0  
## Reviewer\_Name  
## Movie\_Name Reviewer 5  
## Kicks 0  
## Other People 1  
## Sully 0  
## The Disappointments Room 0  
## The Wild Life 0  
## When the Bough Breaks 0  
##   
## , , Rate = 2  
##   
## Reviewer\_Name  
## Movie\_Name Reviewer 1 Reviewer 2 Reviewer 3 Reviewer 4  
## Kicks 1 0 0 0  
## Other People 0 0 0 0  
## Sully 1 0 0 0  
## The Disappointments Room 0 0 0 0  
## The Wild Life 0 0 0 1  
## When the Bough Breaks 0 0 1 1  
## Reviewer\_Name  
## Movie\_Name Reviewer 5  
## Kicks 0  
## Other People 0  
## Sully 1  
## The Disappointments Room 1  
## The Wild Life 0  
## When the Bough Breaks 0  
##   
## , , Rate = 3  
##   
## Reviewer\_Name  
## Movie\_Name Reviewer 1 Reviewer 2 Reviewer 3 Reviewer 4  
## Kicks 0 1 0 0  
## Other People 1 0 1 0  
## Sully 0 0 0 0  
## The Disappointments Room 1 1 0 0  
## The Wild Life 1 1 1 0  
## When the Bough Breaks 0 0 0 0  
## Reviewer\_Name  
## Movie\_Name Reviewer 5  
## Kicks 0  
## Other People 0  
## Sully 0  
## The Disappointments Room 0  
## The Wild Life 1  
## When the Bough Breaks 1  
##   
## , , Rate = 4  
##   
## Reviewer\_Name  
## Movie\_Name Reviewer 1 Reviewer 2 Reviewer 3 Reviewer 4  
## Kicks 0 0 0 0  
## Other People 0 0 0 0  
## Sully 0 0 0 0  
## The Disappointments Room 0 0 1 0  
## The Wild Life 0 0 0 0  
## When the Bough Breaks 0 1 0 0  
## Reviewer\_Name  
## Movie\_Name Reviewer 5  
## Kicks 1  
## Other People 0  
## Sully 0  
## The Disappointments Room 0  
## The Wild Life 0  
## When the Bough Breaks 0  
##   
## , , Rate = 5  
##   
## Reviewer\_Name  
## Movie\_Name Reviewer 1 Reviewer 2 Reviewer 3 Reviewer 4  
## Kicks 0 0 0 0  
## Other People 0 0 0 0  
## Sully 0 1 1 0  
## The Disappointments Room 0 0 0 1  
## The Wild Life 0 0 0 0  
## When the Bough Breaks 1 0 0 0  
## Reviewer\_Name  
## Movie\_Name Reviewer 5  
## Kicks 0  
## Other People 0  
## Sully 0  
## The Disappointments Room 0  
## The Wild Life 0  
## When the Bough Breaks 0

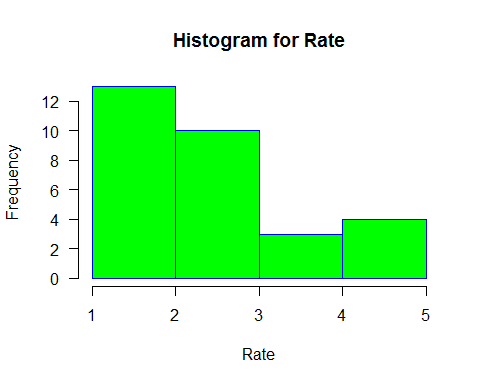
#Summarize the data  
summary(Mydata)

## Movie\_Name Reviewer\_Name Rate   
## Length:30 Length:30 Min. :1.000   
## Class :character Class :character 1st Qu.:2.000   
## Mode :character Mode :character Median :3.000   
## Mean :2.733   
## 3rd Qu.:3.000   
## Max. :5.000

#plot the Boxplots  
boxplot(Mydata$Rate)



#Analyze the data through histogram  
hist(Mydata$Rate, main="Histogram for Rate", xlab="Rate", border="blue", col="green",las=1, breaks=c(1, 2, 3, 4, 5))



#Analyze the data through Scatterplots  
ggplot(Mydata, aes(x=Movie\_Name,y=Rate)) + geom\_point(shape=1)

