Hw #2

Lisa Chiobi

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Creating a Data Frame

[1] 122 11

```
library(readxl)
setwd("~/Desktop")
# Create Data Frame
#Name <- c("Ronak", "Sam", "Joe", "Mary", "Jane", "Sally")
#Age <- c(21,24,20,15,19,22)
#Gender <- c("M", "M", "M", "F", "F", "F")
\#GPA \leftarrow c(3.7, 2.9, 3.1, 4.0, 3.4, 3.5)
#myDataFrame <- data.frame(Name,Age,Gender,GPA)</pre>
#myDataFrame
myDataFrame<-read_excel("HwTwo.xlsx")</pre>
# Explore Data Frame
names(myDataFrame)
## [1] "Emp_Age"
                                     "Emp_Gender"
## [3] "Emp_JobSatisfaction"
                                     "Emp_ImpJobCharacteristic"
## [5] "Emp_Tenure"
                                     "Emp_PromotionTime"
## [7] "Emp_DecisionPower"
                                     "Emp_BudgDecision"
## [9] "Emp_Proud"
                                     "Emp_HigherOffer"
## [11] "Emp_ColleagueRelations"
ncol(myDataFrame)
## [1] 11
nrow(myDataFrame)
## [1] 122
dim(myDataFrame)
```

head(myDataFrame)

```
## # A tibble: 6 x 11
     Emp_Age Emp_Gender Emp_JobSa~1 Emp_I~2 Emp_T~3 Emp_P~4 Emp_D~5 Emp_B~6 Emp_P~7
##
       <dbl>
                                <dbl>
                                        <dbl>
                                                 <dbl>
                                                          <dbl>
                                                                  <dbl>
                                                                           <dbl>
                   <dbl>
## 1
          35
                       1
                                    2
                                             4
                                                   3
                                                                      2
                                                                               1
                                                              1
## 2
                                    2
                                                              5
                                                                      2
                                                                                        2
          33
                       1
                                             3
                                                   9
                                                                               1
                                                                               2
## 3
          23
                       1
                                    1
                                                   1.5
                                                              1
                                                                      2
                                                                                        1
                                             1
## 4
          60
                       1
                                    1
                                             1
                                                  20
                                                              3
                                                                      2
                                                                               2
                                                                                        1
## 5
          35
                                    2
                                                   3
                                                              3
                                                                      2
                                                                                        2
                       1
                                             1
                                                                               1
## 6
          34
                       2
                                             1
                                                              1
                                                                      2
                                                                               2
                                                                                        2
## # ... with 2 more variables: Emp HigherOffer <dbl>,
       Emp_ColleagueRelations <dbl>, and abbreviated variable names
       1: Emp_JobSatisfaction, 2: Emp_ImpJobCharacteristic, 3: Emp_Tenure,
## #
## #
       4: Emp_PromotionTime, 5: Emp_DecisionPower, 6: Emp_BudgDecision,
## #
       7: Emp_Proud
```

tail(myDataFrame)

```
## # A tibble: 6 x 11
     Emp_Age Emp_Gender Emp_JobSa~1 Emp_I~2 Emp_T~3 Emp_P~4 Emp_D~5 Emp_B~6 Emp_P~7
##
##
       <dbl>
                   <dbl>
                                <dbl>
                                        <dbl>
                                                 <dbl>
                                                         <dbl>
                                                                  <dbl>
                                                                           <dbl>
                                                                                   <dbl>
## 1
          49
                                    2
                       1
                                             4
                                                  1.5
                                                              5
                                                                      4
                                                                               1
                                                                                       1
## 2
                       2
                                    2
                                             2
                                                 10
                                                                      3
                                                                               2
                                                                                       2
          35
                                                              4
                                                                                       2
## 3
          22
                       1
                                    1
                                             5
                                                              1
                                                                               2
                                                 1
                                                                      1
## 4
          33
                       2
                                    1
                                             5
                                                 11
                                                              5
                                                                      2
                                                                                       2
                                                                               1
                       2
## 5
          29
                                    1
                                             5
                                                              2
                                                                      2
                                                                               1
                                                                                       1
## 6
          22
                       1
                                    2
                                             2
                                                  1.25
                                                                                       2
## # ... with 2 more variables: Emp_HigherOffer <dbl>,
       Emp ColleagueRelations <dbl>, and abbreviated variable names
       1: Emp_JobSatisfaction, 2: Emp_ImpJobCharacteristic, 3: Emp_Tenure,
## #
## #
       4: Emp_PromotionTime, 5: Emp_DecisionPower, 6: Emp_BudgDecision,
## #
       7: Emp_Proud
```

str(myDataFrame)

```
## tibble [122 x 11] (S3: tbl_df/tbl/data.frame)
##
   $ Emp_Age
                             : num [1:122] 35 33 23 60 35 34 61 59 37 30 ...
## $ Emp Gender
                              : num [1:122] 1 1 1 1 1 2 2 1 2 1 ...
                              : num [1:122] 2 2 1 1 2 2 1 2 1 1 ...
## $ Emp_JobSatisfaction
## $ Emp_ImpJobCharacteristic: num [1:122] 4 3 1 1 1 1 5 5 5 ...
## $ Emp_Tenure
                             : num [1:122] 3 9 1.5 20 3 6 0.75 1.5 3 5 ...
## $ Emp_PromotionTime
                              : num [1:122] 1 5 1 3 3 1 5 2 4 2 ...
                              : num [1:122] 2 2 2 2 2 3 1 3 2 ...
## $ Emp_DecisionPower
                             : num [1:122] 1 1 2 2 1 2 2 2 1 1 ...
## $ Emp BudgDecision
                              : num [1:122] 2 2 1 1 2 2 2 2 2 1 ...
## $ Emp_Proud
## $ Emp HigherOffer
                             : num [1:122] 5 2 5 1 4 4 4 4 2 2 ...
   $ Emp_ColleagueRelations : num [1:122] 2 1 2 1 2 4 1 1 3 2 ...
```

```
myDataFrame$Gender <- myDataFrame$Emp_Gender
myDataFrame$Age <- myDataFrame$Emp_Age
class(myDataFrame$Gender)</pre>
```

```
## [1] "numeric"
myDataFrame$Gender <- as.factor(myDataFrame$Gender)</pre>
class(myDataFrame$Gender)
## [1] "factor"
# Column
myDataFrame$Age
##
     [1] 35 33 23 60 35 34 61 59 37 30 34 34 27 38 41 58 34 48 26 39 29 36 25 39 40
## [26] 53 39 27 35 25 29 23 40 36 64 43 28 48 52 32 23 44 36 33 52 38 34 62 36 37
## [51] 39 61 20 22 36 48 58 50 24 44 30 32 32 44 34 42 40 37 32 31 44 39 30 41 39
## [76] 33 25 31 41 42 33 36 39 39 62 62 34 52 40 43 41 64 26 45 33 36 45 51 38 57
## [101] 45 43 37 33 51 43 42 25 40 57 38 41 32 39 43 50 49 35 22 33 29 22
myDataFrame[2]
## # A tibble: 122 x 1
##
      Emp_Gender
           <dbl>
##
##
  1
               1
## 2
               1
## 3
               1
## 4
               1
## 5
               1
## 6
## 7
               2
## 8
               1
               2
## 9
## 10
               1
## # ... with 112 more rows
myDataFrame[c("Age")]
## # A tibble: 122 x 1
##
        Age
      <dbl>
##
##
         35
   1
##
   2
         33
         23
##
   3
##
         60
## 5
         35
##
   6
         34
## 7
         61
##
   8
         59
## 9
         37
## 10
         30
```

... with 112 more rows

```
myDataFrame[2:3]
## # A tibble: 122 x 2
##
      Emp_Gender Emp_JobSatisfaction
##
           <dbl>
##
  1
              1
                                   2
## 2
               1
                                   2
## 3
               1
                                   1
## 4
               1
                                   1
## 5
                                   2
               1
## 6
               2
                                   2
## 7
               2
                                   1
               1
                                   2
## 8
## 9
               2
                                   1
## 10
               1
                                   1
## # ... with 112 more rows
myDataFrame[c("Age", "Gender")]
## # A tibble: 122 x 2
        Age Gender
      <dbl> <fct>
##
##
   1
         35 1
##
   2
         33 1
##
  3
         23 1
         60 1
## 4
## 5
         35 1
         34 2
## 6
##
  7
         61 2
         59 1
## 8
         37 2
## 9
## 10
         30 1
## # ... with 112 more rows
myDataFrame[2,]
## # A tibble: 1 x 13
##
     Emp_Age Emp_Gender Emp_JobSa~1 Emp_I~2 Emp_T~3 Emp_P~4 Emp_D~5 Emp_B~6 Emp_P~7
       <dbl>
                              <dbl>
                                                      <dbl>
                                                              <dbl>
##
                  <dbl>
                                      <dbl>
                                              <dbl>
                                                                       <dbl>
                                                                               <dbl>
## 1
## # ... with 4 more variables: Emp_HigherOffer <dbl>,
       Emp_ColleagueRelations <dbl>, Gender <fct>, Age <dbl>, and abbreviated
## #
       variable names 1: Emp_JobSatisfaction, 2: Emp_ImpJobCharacteristic,
## #
       3: Emp_Tenure, 4: Emp_PromotionTime, 5: Emp_DecisionPower,
       6: Emp_BudgDecision, 7: Emp_Proud
# CombinedmyDataFrame[2:3,2:3]
```

#Levels

myDataFrame\$Gender

```
## [38] 2 1 1 1 2 2 2 1 1 1 1 2 1 2 2 2 1 1 1 1 2 1 2 2 1 1 1 2 2 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1
## [112] 2 1 1 1 2 1 2 1 2 2 1
## Levels: 1 2
table(myDataFrame$Gender)
##
## 1 2
## 70 52
table(myDataFrame$Age)
##
## 20 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 48
## 1 3 3 1 4 2 2 1 3 3 2 5 7 7 4 7 4 4 9 5 5 3 5 4 3 3
## 49 50 51 52 53 57 58 59 60 61 62 64
## 1 2 2 3 1 2 2 1 1 2 3 2
table(myDataFrame$Age, myDataFrame$Gender)
```

```
51 0 2
##
##
     52 3 0
##
     53 1 0
##
     57 1 1
##
     58 1 1
##
     59 1 0
##
     60 1 0
     61 0 2
##
##
     62 3 0
##
     64 1 1
```

Filtering

myDataFrame[myDataFrame\$Gender == "1",]

```
## # A tibble: 70 x 13
      Emp_Age Emp_Gender Emp_JobS~1 Emp_I~2 Emp_T~3 Emp_P~4 Emp_D~5 Emp_B~6 Emp_P~7
##
##
        <dbl>
                    <dbl>
                                <dbl>
                                         <dbl>
                                                  <dbl>
                                                           <dbl>
                                                                    <dbl>
                                                                             <dbl>
                                                                                     <dbl>
##
           35
                                     2
                                              4
                                                    3
                                                                        2
                                                                                          2
    1
                         1
                                                               1
                                                                                 1
                                     2
##
    2
           33
                         1
                                                    9
                                                               5
                                                                        2
                                                                                 1
                                                                                          2
##
    3
           23
                                     1
                                              1
                                                                        2
                                                                                 2
                                                                                          1
                         1
                                                    1.5
                                                               1
##
    4
           60
                         1
                                     1
                                              1
                                                   20
                                                               3
                                                                        2
                                                                                 2
                                                                                          1
    5
                                     2
                                                               3
                                                                        2
                                                                                          2
##
           35
                         1
                                              1
                                                    3
                                                                                 1
                                     2
                                                               2
                                                                                          2
##
    6
           59
                         1
                                              5
                                                    1.5
                                                                        1
                                                                                 2
    7
                                                               2
##
           30
                         1
                                     1
                                              5
                                                    5
                                                                        2
                                                                                 1
                                                                                          1
##
    8
           38
                         1
                                     1
                                              4
                                                   15
                                                               1
                                                                        2
                                                                                 1
                                                                                          2
   9
            41
                                     3
                                                    1
                                                               4
                                                                        2
                                                                                 2
                                                                                          4
##
                         1
                                              1
            58
                                     2
                                                               5
                                                                        2
                                                                                          2
## 10
                         1
                                                   36
                                                                                 1
## # ... with 60 more rows, 4 more variables: Emp_HigherOffer <dbl>,
       Emp_ColleagueRelations <dbl>, Gender <fct>, Age <dbl>, and abbreviated
## #
       variable names 1: Emp_JobSatisfaction, 2: Emp_ImpJobCharacteristic,
## #
       3: Emp_Tenure, 4: Emp_PromotionTime, 5: Emp_DecisionPower,
```

Ordering

myDataFrame[order(myDataFrame\$Age),]

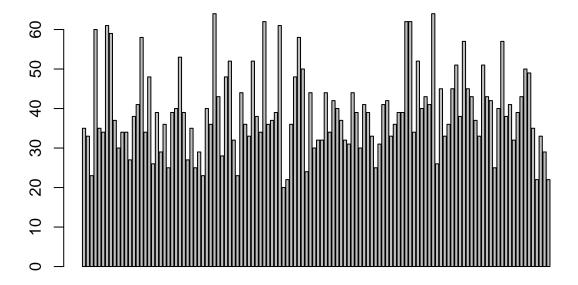
6: Emp_BudgDecision, 7: Emp_Proud

```
## # A tibble: 122 x 13
##
      Emp_Age Emp_Gender Emp_JobS~1 Emp_I~2 Emp_T~3 Emp_P~4 Emp_D~5 Emp_B~6 Emp_P~7
##
         <dbl>
                     <dbl>
                                  <dbl>
                                           <dbl>
                                                     <dbl>
                                                              <dbl>
                                                                       <dbl>
                                                                                 <dbl>
                                                                                          <dbl>
                                       2
                                                                  2
##
    1
            20
                                                4
                                                      3
                                                                            3
                                                                                              3
                          1
                                                                                     1
                                       2
                                                                                              2
##
    2
            22
                          1
                                                5
                                                      1
                                                                  3
                                                                            3
                                                                                     1
##
    3
            22
                                       1
                                                5
                                                                                     2
                                                                                              2
                          1
                                                      1
                                                                  1
                                                                            1
##
    4
            22
                                       2
                                                2
                                                      1.25
                                                                            2
                                                                                     2
                                                                                              2
                          1
                                                                  1
##
    5
            23
                          1
                                       1
                                                1
                                                      1.5
                                                                  1
                                                                            2
                                                                                     2
                                                                                              1
##
    6
            23
                          2
                                       1
                                                2
                                                      0.75
                                                                            3
                                                                                              1
                                                                  1
                                                                                     1
##
    7
            23
                          1
                                       2
                                                1
                                                                  1
                                                                            2
                                                                                     2
                                                                                              3
                                                      1
##
    8
            24
                                       2
                                                5
                                                                  2
                                                                            2
                                                                                     2
                                                                                              2
                          1
                                                      1
##
    9
            25
                          1
                                       1
                                                4
                                                      2
                                                                  1
                                                                            3
                                                                                     2
                                                                                              2
                                                      2.5
                                       1
                                                5
                                                                  5
                                                                            2
                                                                                              1
## 10
                          1
## # ... with 112 more rows, 4 more variables: Emp_HigherOffer <dbl>,
```

Emp_ColleagueRelations <dbl>, Gender <fct>, Age <dbl>, and abbreviated

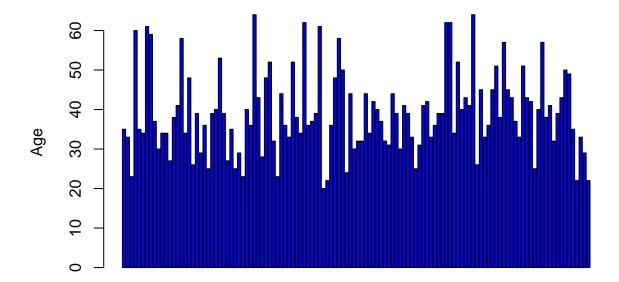
```
variable names 1: Emp_JobSatisfaction, 2: Emp_ImpJobCharacteristic,
       3: Emp_Tenure, 4: Emp_PromotionTime, 5: Emp_DecisionPower,
## #
## #
       6: Emp_BudgDecision, 7: Emp_Proud
myDataFrame[order(-myDataFrame$Age),]
## # A tibble: 122 x 13
      Emp_Age Emp_Gender Emp_JobS~1 Emp_I~2 Emp_T~3 Emp_P~4 Emp_D~5 Emp_B~6 Emp_P~7
##
##
                    <dbl>
                               <dbl>
                                       <dbl>
                                                <dbl>
                                                        <dbl>
                                                                 <dbl>
                                                                         <dbl>
                                                                                  <dbl>
        <dbl>
                                                 7
##
           64
                       2
                                                            5
   1
                                   1
                                                                             1
                                                                                      1
##
   2
           64
                        1
                                   1
                                                29
                                                            5
                                                                     2
                                                                             2
                                                                                      2
                                                52.2
                                                                     2
                                                                                      2
##
           62
                        1
                                   1
                                            1
                                                             4
                                                                             1
##
   4
           62
                        1
                                   1
                                            2
                                                27
                                                            5
                                                                     2
                                                                                      2
                                                                             1
                                                                                      2
##
   5
           62
                        1
                                   1
                                            1
                                                1.91
                                                            2
                                                                     1
                                                                             2
                                                0.75
## 6
           61
                        2
                                   1
                                                            5
                                                                     3
                                                                             2
                                                                                      2
                                            1
                        2
##
   7
           61
                                   1
                                            5
                                                13
                                                            4
                                                                     2
                                                                             2
                                                                                      1
##
   8
           60
                        1
                                   1
                                            1
                                                20
                                                            3
                                                                     2
                                                                             2
                                                                                      1
           59
                        1
                                   2
##
   9
                                                1.5
                                                             2
                                                                             2
                                                                                      2
           58
                                   2
                                                            5
                                                                     2
                                                                                      2
## 10
                        1
                                            4
                                                36
                                                                             1
## # ... with 112 more rows, 4 more variables: Emp_HigherOffer <dbl>,
       Emp_ColleagueRelations <dbl>, Gender <fct>, Age <dbl>, and abbreviated
## #
       variable names 1: Emp_JobSatisfaction, 2: Emp_ImpJobCharacteristic,
       3: Emp Tenure, 4: Emp PromotionTime, 5: Emp DecisionPower,
## #
## #
       6: Emp_BudgDecision, 7: Emp_Proud
# Change Column Name
# names(myDataFrame)[4] <- "Grade"</pre>
# head(myDataFrame)
# names(myDataFrame)[4] <- "GPA"</pre>
# head(myDataFrame)
# Changing Age for Ronak
# myDataFrame [1,2] <- 31
# head(myDataFrame)
# myDataFrame$Aqe[1] <- 33</pre>
# head(myDataFrame)
# Graphing
```

barplot(myDataFrame\$Age)



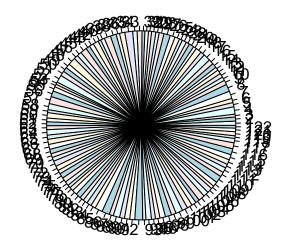
barplot(myDataFrame\$Age, main = "Age of People", xlab = "People", ylab = "Age", col = "Blue")

Age of People



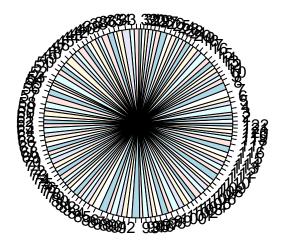
People

pie(myDataFrame\$Age)



pie(myDataFrame\$Age, main = "Age of People")

Age of People



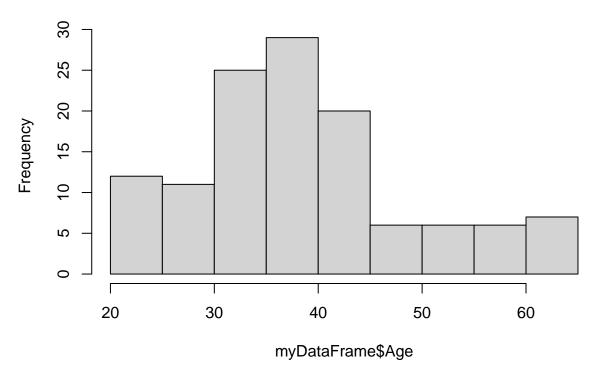
#stem(myDataFrame\$GPA) stem(myDataFrame\$Age)

```
##
##
     The decimal point is at the \mid
##
     20 | 0
##
     22 | 000000
##
##
     24 | 00000
     26 | 0000
##
     28 | 0000
##
     30 | 00000
##
     32 | 000000000000
##
##
     34 | 00000000000
##
     36 | 00000000000
##
     38 | 0000000000000
     40 | 0000000000
##
##
     42 | 00000000
     44 | 0000000
##
##
     46 |
     48 | 0000
##
     50 | 0000
##
     52 | 0000
##
##
     54 l
     56 | 00
##
```

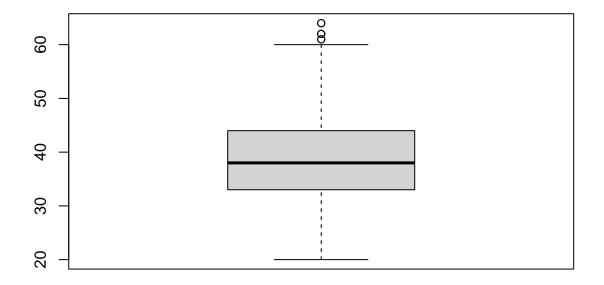
```
## 58 | 000
## 60 | 000
## 62 | 000
## 64 | 00
```

hist(myDataFrame\$Age)

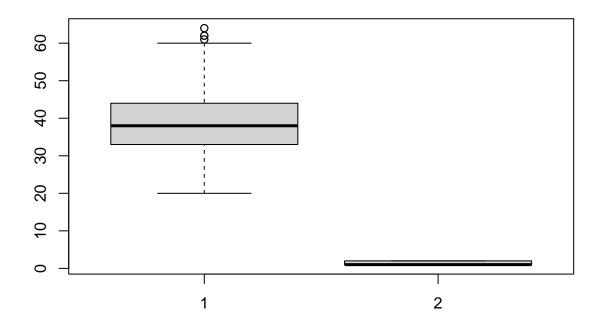
Histogram of myDataFrame\$Age



boxplot(myDataFrame\$Age)



boxplot(myDataFrame\$Age,myDataFrame\$Gender)



Summary Stats

min(myDataFrame\$Age)

[1] 20

max(myDataFrame\$Age)

[1] 64

range(myDataFrame\$Age)

[1] 20 64

StatRange = max(myDataFrame\$Age) - min(myDataFrame\$Age)
StatRange

[1] 44

mean(myDataFrame\$Age)

[1] 39.09836

```
sd(myDataFrame$Age)
## [1] 10.4339
var(myDataFrame$Age)
## [1] 108.8663
sqrt(var(myDataFrame$Age))
## [1] 10.4339
fivenum(myDataFrame$Age)
## [1] 20 33 38 44 64
IQR(myDataFrame$Age)
## [1] 11
quantile(myDataFrame$Age)
     0% 25% 50% 75% 100%
##
##
     20
         33
              38
                  44
summary(myDataFrame$Age)
##
      Min. 1st Qu. Median
                             Mean 3rd Qu.
                                              Max.
      20.0 33.0
                      38.0
##
                              39.1
                                     44.0
                                              64.0
boxplot.stats(myDataFrame$Age)
## $stats
## [1] 20 33 38 44 60
##
## $n
## [1] 122
##
## $conf
## [1] 36.42649 39.57351
## $out
## [1] 61 64 62 61 62 62 64
boxplot.stats(myDataFrame$Age)$out
```

[1] 61 64 62 61 62 62 64

```
# Data Frame Summary
summary(myDataFrame)
##
     Emp_Age
                 Emp_Gender
                             Emp_JobSatisfaction Emp_ImpJobCharacteristic
##
        :20.0
               Min. :1.000 Min. :1.000
                                              Min. :1.000
  1st Qu.:33.0
               1st Qu.:1.000 1st Qu.:1.000
                                               1st Qu.:2.000
               Median :1.000 Median :1.000
## Median :38.0
                                               Median :5.000
## Mean :39.1 Mean :1.426 Mean :1.631
                                              Mean :3.705
  3rd Qu.:44.0
                3rd Qu.:2.000 3rd Qu.:2.000
                                               3rd Qu.:5.000
  Max. :64.0 Max. :2.000 Max. :4.000
                                              Max. :5.000
##
    Emp Tenure
                Emp PromotionTime Emp DecisionPower Emp BudgDecision
##
## Min. : 0.080 Min. :1.000 Min. :1.000 Min. :1.000
                              1st Qu.:2.000 1st Qu.:1.000
Median :2.000 Median :1.000
Mean :2.279 Mean :1.451
  1st Qu.: 2.000
                 1st Qu.:2.000
## Median : 5.000
                 Median :4.000
## Mean : 8.224
                 Mean :3.287
## 3rd Qu.:11.000
                 3rd Qu.:5.000
                                 3rd Qu.:3.000
                                                3rd Qu.:2.000
## Max. :52.250 Max. :5.000
                               Max. :4.000 Max. :2.000
##
   Emp_Proud
                 Emp_HigherOffer Emp_ColleagueRelations Gender
                                                            Age
## Min. :1.000 Min. :1.000 Min. :1.000 1:70 Min.
                                                              :20.0
                                                 2:52 1st Qu.:33.0
## 1st Qu.:1.000 1st Qu.:2.000
                              1st Qu.:1.000
## Median :2.000 Median :4.000 Median :2.000
                                                        Median:38.0
## Mean :1.787 Mean :3.254
                              Mean :1.787
                                                        Mean :39.1
## 3rd Qu.:2.000
                3rd Qu.:4.000
                              3rd Qu.:2.000
                                                       3rd Qu.:44.0
## Max. :4.000 Max. :5.000 Max. :4.000
                                                        Max. :64.0
by(myDataFrame$Age,myDataFrame$Gender,mean)
## myDataFrame$Gender: 1
## [1] 38.67143
## -----
                      -----
## myDataFrame$Gender: 2
## [1] 39.67308
by(myDataFrame$Age,myDataFrame$Gender,sd)
## myDataFrame$Gender: 1
## [1] 11.06204
## -----
                     -----
## myDataFrame$Gender: 2
## [1] 9.599267
by(myDataFrame$Age,myDataFrame$Gender,summary)
## myDataFrame$Gender: 1
##
     Min. 1st Qu. Median
                         Mean 3rd Qu.
    20.00 32.00 38.00
                        38.67 43.00
                                      64.00
## -----
## myDataFrame$Gender: 2
    Min. 1st Qu. Median Mean 3rd Qu.
                                       Max.
    23.00 33.00 38.50 39.67 44.25
##
                                      64.00
```

```
aggregate(myDataFrame$Age,list("Type" = myDataFrame$Gender),median)

### Type x
## 1  1  38.0
## 2  2  38.5

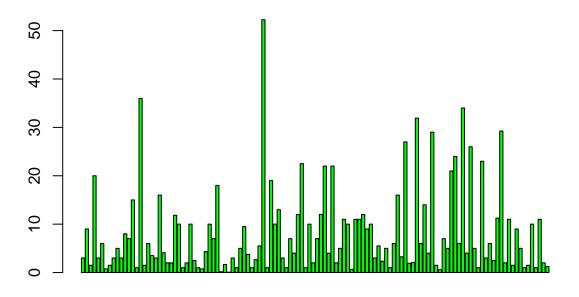
aggregate(myDataFrame$Age,list("Type" = myDataFrame$Gender),summary)

### Type x.Min. x.1st Qu. x.Median x.Mean x.3rd Qu. x.Max.
## 1  1  20.00000  32.00000  38.00000  38.67143  43.00000  64.00000

## 2  2  23.00000  33.00000  38.50000  39.67308  44.25000  64.00000

## EMPLOYEE TENURE INSIGHTS

barplot(myDataFrame$Emp_Tenure, col="Green")
```



```
min(myDataFrame$Emp_Tenure)
```

[1] 0.08

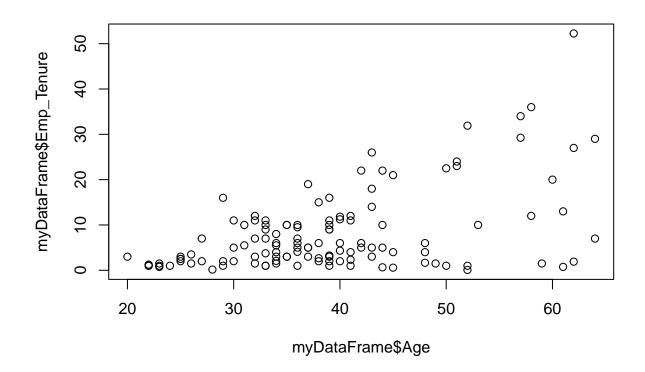
max(myDataFrame\$Emp_Tenure)

[1] 52.25

mean(myDataFrame\$Emp_Tenure)

[1] 8.223525

plot(myDataFrame\$Age,myDataFrame\$Emp_Tenure)



summary(myDataFrame\$Emp_Tenure)

```
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0.080 2.000 5.000 8.224 11.000 52.250
```

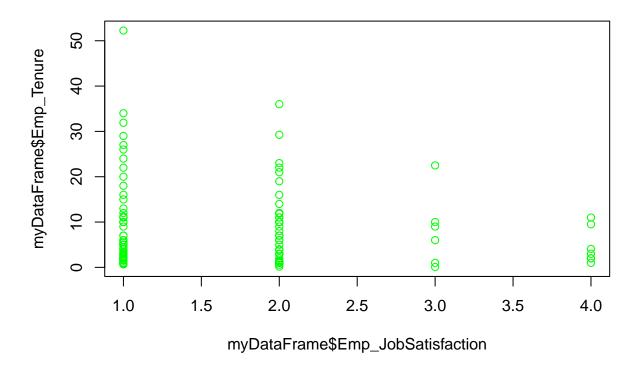
EMPLOYEE JOB SATISFACTION INSIGHTS

mean(myDataFrame\$Emp_JobSatisfaction)

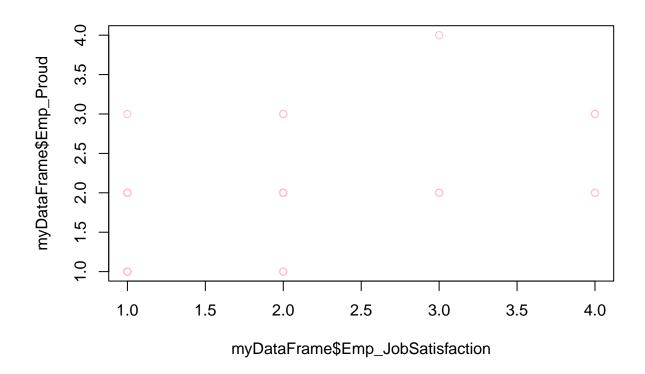
[1] 1.631148

summary(myDataFrame\$Emp_JobSatisfaction)

```
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 1.000 1.000 1.000 1.631 2.000 4.000
```



plot(myDataFrame\$Emp_JobSatisfaction, myDataFrame\$Emp_Proud, col="Pink")



EMPLOYEE COWORKER RELATIONS INSIGHTS

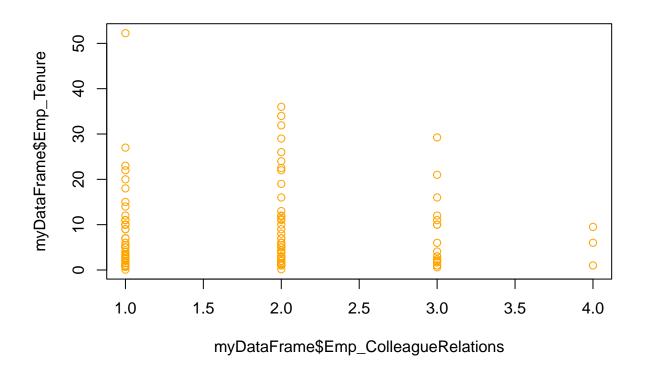
mean(myDataFrame\$Emp_ColleagueRelations)

[1] 1.786885

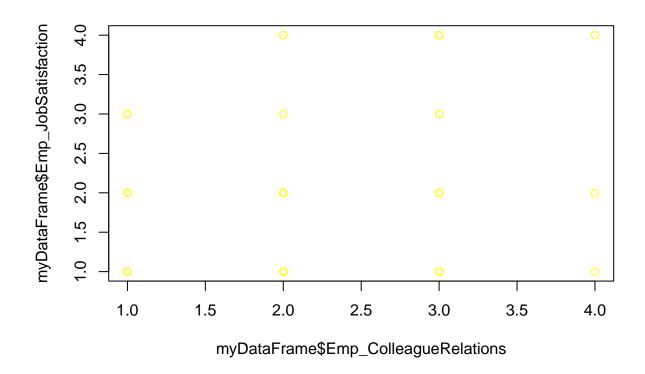
summary(myDataFrame\$Emp_ColleagueRelations)

```
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 1.000 1.000 2.000 1.787 2.000 4.000
```

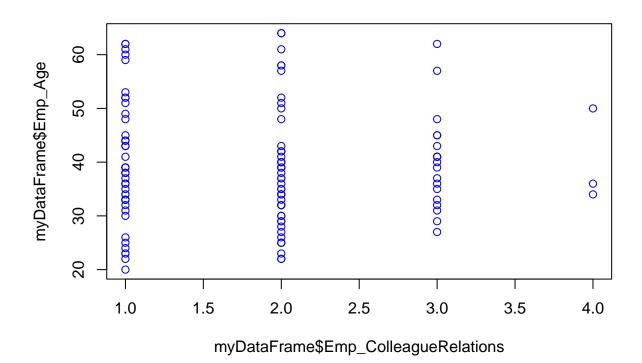
plot(myDataFrame\$Emp_ColleagueRelations, myDataFrame\$Emp_Tenure, col="Orange")



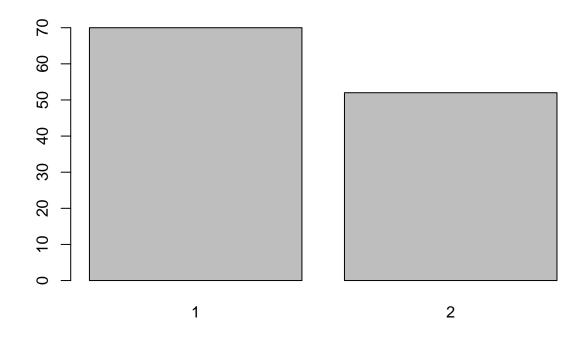
plot(myDataFrame\$Emp_ColleagueRelations, myDataFrame\$Emp_JobSatisfaction, col="Yellow")



plot(myDataFrame\$Emp_ColleagueRelations, myDataFrame\$Emp_Age, col="bLUE")



GENDER INSIGHTS barplot(table(myDataFrame\$Gender))



pie(table(myDataFrame\$Gender), main = "Gender Proportions: 1=Male,2=Female")

Gender Proportions: 1=Male,2=Female

