Untitled

```r
data2 <- read.csv("C:/Users/mashv/OneDrive/Desktop/mlb_players.csv")
data2
```

```
##                   Name  Team            Position Height Weight   Age
## 1       Adam Donachie  "BAL"   "Starting Pitcher"     74     99 22.99
## 2           Paul Bako  "BAL"            "Catcher"     74     27 34.69
## 3      Ramon Hernandez "BAL"            "Catcher"     72     50 30.78
## 4         Kevin Millar "BAL"      "First Baseman"     72     87 35.43
## 5          Chris Gomez "BAL"            "Catcher"     73    188 35.71
## 6        Brian Roberts "BAL"     "Second Baseman"     69     55 29.39
## 7        Miguel Tejada "BAL"          "Shortstop"     69    209 30.77
## 8          Melvin Mora "BAL"      "Third Baseman"     71    200 35.07
## 9          Aubrey Huff "BAL"      "Third Baseman"     76    231 30.19
## 10          Adam Stern "BAL"         "Outfielder"     71    180 27.05
## 11      Jeff Fiorentino "BAL"        "Outfielder"     73    188 23.88
## 12        Freddie Bynum "BAL"           "Catcher"     73     59 26.96
## 13        Nick Markakis "BAL"        "Outfielder"     74    185 23.29
## 14        Brandon Fahey "BAL"        "Outfielder"     74    160 26.11
## 15       Corey Patterson "BAL"       "Outfielder"     69    180 27.55
## 16           Jay Payton "BAL"           "Catcher"     70     86 34.27
## 17          Jay Gibbons "BAL" "Designated Hitter"     72    197 30.00
## 18          Erik Bedard "BAL"   "Starting Pitcher"     73    189 27.99
## 19           Hayden Penn "BAL"  "Starting Pitcher"     75     87 22.38
## 20          Adam Loewen "BAL"   "Starting Pitcher"     78    219 22.89
## 21       Daniel Cabrera "BAL"   "Starting Pitcher"     79    230 25.76
## 22       Steve Trachsel "BAL"   "Starting Pitcher"     76    205 36.33
## 23         Jaret Wright "BAL"           "Catcher"     74    230 31.17
## 24          Kris Benson "BAL"   "Starting Pitcher"     76    195 32.31
## 25    Scott Williamson "BAL"      "Relief Pitcher"     72     56 31.03
## 26         John Parrish "BAL"      "Relief Pitcher"     71    192 29.26
## 27           Danys Baez "BAL"      "Relief Pitcher"     75    225 29.47
## 28        Chad Bradford "BAL"           "Catcher"     77    203 32.46
## 29         Jamie Walker "BAL"      "Relief Pitcher"     74    195 35.67
## 30         Brian Burres "BAL"      "Relief Pitcher"     73     78 25.89
## 31         Kurt Birkins "BAL"      "Relief Pitcher"     74    188 26.55
## 32           James Hoey "BAL"      "Relief Pitcher"     78    200 24.17
## 33         Sendy Rleal "BAL"      "Relief Pitcher"     73    180 26.69
## 34            Chris Ray "BAL"      "Relief Pitcher"     75    200 25.13
## 35       Jeremy Guthrie "BAL"      "Relief Pitcher"     73     87 27.90
## 36     A.J. Pierzynski "CWS"            "Catcher"     75    245 30.17
## 37            Toby Hall "CWS"            "Catcher"     75    240 31.36
## 38          Paul Konerko "CWS"     "First Baseman"     74    215 30.99
## 39       Tadahito Iguchi "CWS"    "Second Baseman"     69    185 32.24
## 40           Juan Uribe "CWS"          "Shortstop"     71    175 27.61
## 41         Alex Cintron "CWS"          "Shortstop"     74    199 28.20
## 42            Joe Crede "CWS"            "Catcher"     73     88 28.85
```

```
## 43       Josh Fields "CWS"      "Third Baseman" 73    215 24.21
## 44      Ryan Sweeney "CWS"         "Outfielder" 76     79 22.02
## 45 Brian N. Anderson "CWS"         "Outfielder" 74    205 24.97
## 46      Luis Terrero "CWS"         "Outfielder" 74    206 26.78
## 47       Pablo Ozuna "CWS"         "Outfielder" 70    186 32.51
## 48   Scott Podsednik "CWS"         "Outfielder" 72    188 30.95
## 49      Jermaine Dye "CWS"         "Outfielder" 77    220 33.09
## 50      Darin Erstad "CWS"            "Catcher" 74     89 32.74
## 51     Rob Mackowiak "CWS"         "Outfielder" 70    195 30.69
## 52        Jim Thome "CWS" "Designated Hitter" 76    244 36.51
## 53      Jerry Owens "CWS" "Designated Hitter" 75    195 26.03
## 54     Charlie Haeger "CWS"   "Starting Pitcher" 73    200 23.45
## 55     Heath Phillips "CWS"   "Starting Pitcher" 75    200 24.94
## 56       Gavin Floyd "CWS"   "Starting Pitcher" 76    212 24.09
## 57     Jose Contreras "CWS"   "Starting Pitcher" 76    224 35.23
## 58       Jon Garland "CWS"   "Starting Pitcher" 78    210 27.43
## 59    Javier Vazquez "CWS"   "Starting Pitcher" 74     85 30.60
## 60      Mark Buehrle "CWS"            "Catcher" 74    220 27.94
## 61    Mike MacDougal "CWS"     "Relief Pitcher" 76    195 29.99
## 62     David Aardsma "CWS"     "Relief Pitcher" 77    200 25.17
## 63      Andrew Sisco "CWS"     "Relief Pitcher" 81    260 24.13
## 64     Matt Thornton "CWS"     "Relief Pitcher" 78    228 30.46
## 65       Bobby Jenks "CWS"     "Relief Pitcher" 75    270 25.96
## 66       Boone Logan "CWS"     "Relief Pitcher" 77    200 22.55
## 67       Sean Tracey "CWS"     "Relief Pitcher" 75    210 26.29
## 68       Nick Masset "CWS"     "Relief Pitcher" 76    190 24.79
## 69       Jose Molina "ANA"            "Catcher" 74    220 31.74
## 70       Jeff Mathis "ANA"            "Catcher" 72    180 23.92
## 71       Mike Napoli "ANA"            "Catcher" 72     87 25.33
## 72    Casey Kotchman "ANA"      "First Baseman" 75    210 24.02
## 73    Kendry Morales "ANA"      "First Baseman" 73    220 23.70
## 74   Shea Hillenbrand "ANA"      "First Baseman" 73    211 31.59
## 75      Robb Quinlan "ANA"      "First Baseman" 73    200 29.95
## 76    Howie Kendrick "ANA"      "First Baseman" 70    180 23.64
## 77   Orlando Cabrera "ANA"         "Shortstop" 70    190 32.33
## 78      Erick Aybar "ANA"         "Shortstop" 70    170 23.13
## 79  Dallas McPherson "ANA"      "Third Baseman" 76    230 26.60
## 80    Maicer Izturis "ANA"      "Third Baseman" 68    155 26.46
## 81    Reggie Willits "ANA"         "Outfielder" 71    185 25.75
## 82      Tommy Murphy "ANA"         "Outfielder" 72    185 27.51
## 83       Terry Evans "ANA"         "Outfielder" 75    200 25.11
## 84 Gary Matthews Jr. "ANA"         "Outfielder" 75    225 32.51
## 85   Garret Anderson "ANA"         "Outfielder" 75    225 34.67
## 86 Vladimir Guerrero "ANA"         "Outfielder" 75    220 31.06
## 87     Chone Figgins "ANA"         "Outfielder" 68    160 29.10
## 88       Juan Rivera "ANA"         "Outfielder" 74    205 28.66
## 89       John Lackey "ANA"   "Starting Pitcher" 78    235 28.35
## 90     Bartolo Colon "ANA"   "Starting Pitcher" 71    250 33.77
## 91    Kelvim Escobar "ANA"   "Starting Pitcher" 73    210 30.89
## 92    Dustin Moseley "ANA"   "Starting Pitcher" 76    190 37.74
## 93     Ervin Santana "ANA"   "Starting Pitcher" 74    160 24.14
## 94      Joe Saunders "ANA"   "Starting Pitcher" 74    200 25.71
## 95     Jered Weaver "ANA"   "Starting Pitcher" 79    205 24.41
## 96       Chris Resop "ANA"     "Relief Pitcher" 75    222 24.32
```

```
## 97      Phil Seibel  "ANA"      "Relief Pitcher"     73    195 28.09
## 98      Justin Speier "ANA"     "Relief Pitcher"     76    205 33.31
## 99      Darren Oliver "ANA"     "Relief Pitcher"     74    220 36.40
```

```
View(data2)
mean(data2$Height)
```

```
## [1] 73.82828
```

```
sd(data2$Height)
```

```
## [1] 2.563641
```

```
var(data2$Height)
```

```
## [1] 6.572253
```

```
max(data2$Weight)
```

```
## [1] 270
```

```
min(data2$Weight)
```
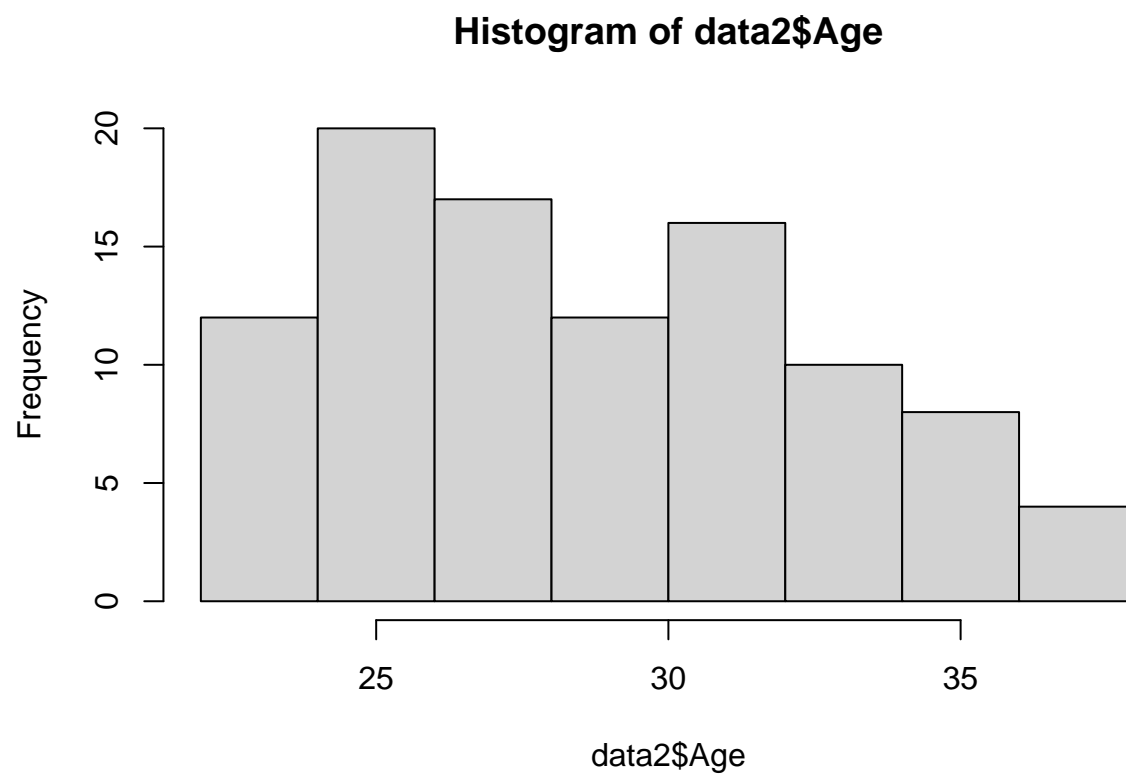
```
## [1] 27
```

```
table(data2$Position)
```

```
##
##          "Catcher"  "Designated Hitter"     "First Baseman"
##                 15                    3                   7
##        "Outfielder"    "Relief Pitcher"    "Second Baseman"
##                 20                   22                   2
##        "Shortstop"   "Starting Pitcher"     "Third Baseman"
##                  5                   20                   5
```

```
data2$Height_converted = mean(data2$Height)/sd(data2$Height)
hist(data2$Age)
```

Histogram of data2$Age


```
x = data2$Height
y = data2$Weight
plot(x, y, main="Age", xlab= "Height", ylab= "weight")
```

Age