Lab 01 - Load a Package

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The following code was written assuming that the user has already installed the Lahman package, but it has not been opened.

Question 1

What is the average weight of an MLB player?

Answer: Mean = 186

```
library("Lahman")
data("Master")
summary(Master$weight)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##        65     170     185     186     200     320     871
```

Question 2

How many MLB players have come from the Netherlands?

Answer: 12 MLB players have come from the Netherlands

```
library("Lahman")
data("Master")
table(Master$birthCountry)
```

```
##
##     Afghanistan American Samoa            Aruba          At Sea       Australia
##               1               1               5               1              28
##         Austria         Bahamas         Belgium          Belize          Brazil
##               4               6               1               1               3
##             CAN           China        Colombia            Cuba         Curacao
##             244               1              17             198              14
## Czech Republic            D.R.         Denmark         Finland          France
##               4             643               1               1               8
##         Germany          Greece            Guam        Honduras       Indonesia
##              46               1               1               1               1
##         Ireland           Italy         Jamaica           Japan       Lithuania
##              50               7               4              62               1
##          Mexico     Netherlands       Nicaragua          Norway            P.R.
##             118              12              14               3             253
##          Panama     Philippines          Poland          Russia    Saudi Arabia
##              55               1               5               8               2
##       Singapore        Slovakia     South Korea           Spain          Sweden
##               1               1              17               4               4
##     Switzerland          Taiwan  United Kingdom             USA            V.I.
##               1              11              49           16503              12
##       Venezuela        Viet Nam
##             341               1
```

Question 3

How tall was the tallest player in MLB? The shortest?

Answer: The tallest player in MLB was 83, and the shortest was 43

```
library("Lahman")
data("Master")
summary(Master$height)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##   43.00   71.00   72.00   72.26   74.00   83.00     805
```

Question 4

What percentage of players switch hit (bat from both sides of the plate)?

Answer: 6.59% of players are switch hitters.

```
library("Lahman")
data("Master")
summary(Master$bats)
```

```
##      B      L      R  NA's
##   1163   4879  11614   1190
```

```
switchhitter <- 1163
total.hitter <- (1163+4879+11614)
percent.switchhitter <- (switchhitter)/(total.hitter)
paste((round((percent.switchhitter*100),digits = 2)),"%")
```

```
## [1] "6.59 %"
```

Question 5

OPTIONAL: How many players are right-handed when they throw, but left-handed when they bat?

```
##Library("Lahman")
##data("Master")
## identify the list of players that are right-handed throwers. Set that value to "rightthrower
s"
## identify the list of players that are left-handed batters. Set that value to "leftbatters"
## compare the list of values, and produce a summary of the count of combinations, such as left
 batter & left pitcher, right batter & right pitcher, etc.
```