

# R Notebook

## Data frame de Iris

```
df = iris
head(df, 5)
```

```
##   Sepal.Length Sepal.Width Petal.Length Petal.Width Species
## 1         5.1         3.5         1.4         0.2   setosa
## 2         4.9         3.0         1.4         0.2   setosa
## 3         4.7         3.2         1.3         0.2   setosa
## 4         4.6         3.1         1.5         0.2   setosa
## 5         5.0         3.6         1.4         0.2   setosa
```

```
tail(df, 5)
```

```
##   Sepal.Length Sepal.Width Petal.Length Petal.Width Species
## 146         6.7         3.0         5.2         2.3 virginica
## 147         6.3         2.5         5.0         1.9 virginica
## 148         6.5         3.0         5.2         2.0 virginica
## 149         6.2         3.4         5.4         2.3 virginica
## 150         5.9         3.0         5.1         1.8 virginica
```

```
str(df)
```

```
## 'data.frame':   150 obs. of  5 variables:
##  $ Sepal.Length: num  5.1 4.9 4.7 4.6 5 5.4 4.6 5 4.4 4.9 ...
##  $ Sepal.Width : num  3.5 3 3.2 3.1 3.6 3.9 3.4 3.4 2.9 3.1 ...
##  $ Petal.Length: num  1.4 1.4 1.3 1.5 1.4 1.7 1.4 1.5 1.4 1.5 ...
##  $ Petal.Width : num  0.2 0.2 0.2 0.2 0.2 0.4 0.3 0.2 0.2 0.1 ...
##  $ Species     : Factor w/ 3 levels "setosa","versicolor",...: 1 1 1 1 1 1 1 1 1 1 ...
```

```
names(df) #colnames
```

```
## [1] "Sepal.Length" "Sepal.Width" "Petal.Length" "Petal.Width" "Species"
```

```
rownames(df)
```

```
##   [1] "1"  "2"  "3"  "4"  "5"  "6"  "7"  "8"  "9"  "10" "11" "12"
##  [13] "13" "14" "15" "16" "17" "18" "19" "20" "21" "22" "23" "24"
##  [25] "25" "26" "27" "28" "29" "30" "31" "32" "33" "34" "35" "36"
##  [37] "37" "38" "39" "40" "41" "42" "43" "44" "45" "46" "47" "48"
##  [49] "49" "50" "51" "52" "53" "54" "55" "56" "57" "58" "59" "60"
```

```
## [61] "61" "62" "63" "64" "65" "66" "67" "68" "69" "70" "71" "72"
## [73] "73" "74" "75" "76" "77" "78" "79" "80" "81" "82" "83" "84"
## [85] "85" "86" "87" "88" "89" "90" "91" "92" "93" "94" "95" "96"
## [97] "97" "98" "99" "100" "101" "102" "103" "104" "105" "106" "107" "108"
## [109] "109" "110" "111" "112" "113" "114" "115" "116" "117" "118" "119" "120"
## [121] "121" "122" "123" "124" "125" "126" "127" "128" "129" "130" "131" "132"
## [133] "133" "134" "135" "136" "137" "138" "139" "140" "141" "142" "143" "144"
## [145] "145" "146" "147" "148" "149" "150"
```

```
dimnames(df)
```

```
## [[1]]
## [1] "1" "2" "3" "4" "5" "6" "7" "8" "9" "10" "11" "12"
## [13] "13" "14" "15" "16" "17" "18" "19" "20" "21" "22" "23" "24"
## [25] "25" "26" "27" "28" "29" "30" "31" "32" "33" "34" "35" "36"
## [37] "37" "38" "39" "40" "41" "42" "43" "44" "45" "46" "47" "48"
## [49] "49" "50" "51" "52" "53" "54" "55" "56" "57" "58" "59" "60"
## [61] "61" "62" "63" "64" "65" "66" "67" "68" "69" "70" "71" "72"
## [73] "73" "74" "75" "76" "77" "78" "79" "80" "81" "82" "83" "84"
## [85] "85" "86" "87" "88" "89" "90" "91" "92" "93" "94" "95" "96"
## [97] "97" "98" "99" "100" "101" "102" "103" "104" "105" "106" "107" "108"
## [109] "109" "110" "111" "112" "113" "114" "115" "116" "117" "118" "119" "120"
## [121] "121" "122" "123" "124" "125" "126" "127" "128" "129" "130" "131" "132"
## [133] "133" "134" "135" "136" "137" "138" "139" "140" "141" "142" "143" "144"
## [145] "145" "146" "147" "148" "149" "150"
##
## [[2]]
## [1] "Sepal.Length" "Sepal.Width" "Petal.Length" "Petal.Width" "Species"
```

```
dim(df)
```

```
## [1] 150 5
```

```
df$Petal.Length[1:10]
```

```
## [1] 1.4 1.4 1.3 1.5 1.4 1.7 1.4 1.5 1.4 1.5
```

```
df$Species[1:10]
```

```
## [1] setosa setosa setosa setosa setosa setosa setosa setosa setosa setosa
## Levels: setosa versicolor virginica
```

## Accesso al DF

```
df[1:10, ]
```

```
## Sepal.Length Sepal.Width Petal.Length Petal.Width Species
## 1 5.1 3.5 1.4 0.2 setosa
## 2 4.9 3.0 1.4 0.2 setosa
```

```
## 3      4.7      3.2      1.3      0.2 setosa
## 4      4.6      3.1      1.5      0.2 setosa
## 5      5.0      3.6      1.4      0.2 setosa
## 6      5.4      3.9      1.7      0.4 setosa
## 7      4.6      3.4      1.4      0.3 setosa
## 8      5.0      3.4      1.5      0.2 setosa
## 9      4.4      2.9      1.4      0.2 setosa
## 10     4.9      3.1      1.5      0.1 setosa
```

```
df[1:10, 2:4]
```

```
##      Sepal.Width Petal.Length Petal.Width
## 1          3.5          1.4          0.2
## 2          3.0          1.4          0.2
## 3          3.2          1.3          0.2
## 4          3.1          1.5          0.2
## 5          3.6          1.4          0.2
## 6          3.9          1.7          0.4
## 7          3.4          1.4          0.3
## 8          3.4          1.5          0.2
## 9          2.9          1.4          0.2
## 10         3.1          1.5          0.1
```

```
df[df$Species == "setosa" & df$Sepal.Width > 4, ]
```

```
##      Sepal.Length Sepal.Width Petal.Length Petal.Width Species
## 16          5.7          4.4          1.5          0.4 setosa
## 33          5.2          4.1          1.5          0.1 setosa
## 34          5.5          4.2          1.4          0.2 setosa
```

```
df[df$Species == "setosa" & df$Sepal.Width > 4, ][c(1,3), c(2,5)]
```

```
##      Sepal.Width Species
## 16          4.4 setosa
## 34          4.2 setosa
```