Essential Skills in R

with Marieke Jones

Exercises

EXERCISE 1

A. Let's say a person has a height of 73 (inches) and a weight of 203 (lbs). Create r objects labeled 'height' and 'weight'.

B. Convert `weight` to `weight_kg` by dividing `weight` by 2.2. Convert `height` to `height_m` by dividing `height` by 39.37

C. Calculate a new object `bmi` where BMI = weight_kg / (height_m*height_m)

EXERCISE 2

A. What is the maximum Pulse recorded in our dataset? (hint: get help on the `max` function with `?max`)

B. What's the standard deviation of Weight (hint: get help on the `sd` function with `?sd`).

C. What's the range of systolic blood pressure represented in the data? (hint: `range()`).

EXERCISE 3

A. Use `filter()` to find out how many people there are in this dataset who are current smokers (`SmokingStatus == "Current"`)

EXERCISE 4

A. Use `filter()` followed by `group_by()` and `summarize()` to find the mean BMI by Smoking Status for people who have Diabetes.

EXERCISE 5

A. Create a plot showing the relationship between RelationshipStatus and the Number of Alcoholic drinks yearly (`AlcoholYear`). Optionally, color the bars by Gender.