

Assignment 02

This homework will help you to practice and self assess your knowledge and ability around the course concepts. Use the answer key to assess your work.

1. Load the **tidyverse** package.
2. **View()** the **starwars** data set from the **dplyr** package (**dplyr** is part of the **tidyverse** package so it is already loaded).
3. What units are height and mass in? You might guess but you can lookup this information in the help documentation.
4. Drop the last three columns and reassign to a variable called **starwars2**. You will use **starwars2** for the remainder of the assignment.
5. Grab only rows/observation with a height greater than 200.
6. Grab only characters less than 50 mass and order them from smallest to largest.
7. Look up how to convert cm to inches and kg to pounds and add columns for height and weight that are in inches and pounds.
8. Use the pounds and inches column to calculate the BMI for every character [formula: $(\text{lbs}/(\text{in}^2)) * 703$].
9. Use the table below to add a column to the previous output bucketing the BMIs into risk levels (hint: use **case_when()**).

Risk Level	Range
Underweight	less than 18.5
Normal Weight	18.5 to less than 25
Overweight	25 to less than 30
Obese	30 or greater

10. Use the previous output, remove observations where height or mass is missing and order descending on BMI.