Exercise 2

Data exploration

Explore the airquality dataset

- i) Load the internal dataset airquality
- ii) Assign a new name to the dataset (e.g. airquality_1)
- iii) Get an overview of the dataset:
 - How many rows does the dataset have?
 - How many columns does the dataset have?
 - What class do the columns have? Can you guess?
- iv) Calculate the mean temperature
- v) What is the maximum measured ozone content?

For those who have time left...

- vi) In which month and day was the maximum ozone content measured?
- vii) Calculate the mean temperature for the month May

Hints

- i) Use the command data(airquality) to load the dataset.
- ii) Assign a new name by using an expression similar to: new_name <- airquality
- iii) Get an overview of the dataset:
 - Number of rows: Check the functions dim (?dim) or nrow (?nrow)
 - Number of columns: Check the functions dim (?dim) or ncol (?ncol)
 - Column classes: Check the function class (?class)
- iv) Check the function mean (?mean). Select the column Temp (in the form of df\$Temp or df[, 4])
- v) Check the function max (?max) and the argument na.rm
- vi) Check the function which.max
- vii) Use the function subset (?subset) to filter for the month May (Month == 5)