

# Statistics with R – Beginner Level

## Practice

*Note:* If you did not do it already, please download the CSV data files and extract them on your hard drive. You can find the download link in the section *Course Materials*.

### Section 1

## Data Manipulation in R

#### Exercise #1

Using the file *bankloan.csv*, filter the data according to the conditions below, using brackets, the subset command and the Dplyr package.

- a. married subjects only
- b. married subjects with secondary and tertiary education level
- c. subjects over 40
- d. single subjects under 35
- e. subjects who have a loan and a balance over 1000

#### Exercise #2

Using the file *bankloan.csv*:

- a. recode the variable *marital* as follows: married – 1, single – 0
- b. recode the variable *loan* as follows: yes – 1, no – 0
- c. recode the variable *balance* as follows: under 500 – 1, between 501 and 1000 – 2, over 1000 – 3.

### Exercise #3

Sort the data frame *bankloan*:

- a. by age, ascending
- b. by balance, descending
- c. by age descending **and** by balance ascending

### Exercise #4

In the data file *brand.csv*, create a new variable by averaging the following variables: *quality*, *problems* and *ads*.

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