

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 2

Descriptive Statistics

Exercise #1

In the file *bankloan.csv*, generate the main statistical indicators for the variable *balance*, using the functions available in Base R.

Exercise #2

In the file *directmail.csv*, generate the main statistical indicators for the variable *age*, using the function *describe* in the *psych* package.

Exercise #3

In the file *bankloan.csv*, generate the main statistical indicators for the variable *age*, using the function *statdesc* available in the *pastecs* package.

Exercise #4

In the file *icecream.csv*, determine the skewness and the kurtosis indicators for the variable *icecream*. Then, for the same variable, compute the 7%, 38% and 72% percentiles and find out the mode.

Exercise #5

Perform the same operations as in the exercise #4 above, but for the variable *grade1* in the *math.csv* data file.

Exercise #6

In the file *hw.csv*, compute the main statistical indicators for the subjects' height, separately by men and women, using the appropriate function in the DoBy package.

Exercise #7

In the file *hw.csv*, compute the main statistical indicators for the subjects' weight, separately by men and women, using the DescribeBy package.

Exercise #8

In the file *directmail.csv*, compute the main statistical indicators for the subjects' age, by education levels, using the function *aggregate* in the Stats package.

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