1. Run the code “solution task 7.py”.
2. Calculate the GDP per capita.
3. Construct a new categorical variable that contains the richest, medium, and poorest countries in terms of GDP per capita. You can calculate first the quantiles 33 and 66% (df['column'].quantile(.33)) and with this information construct the categorical variable.
4. Group the data base according to this variable and observe the differences within the groups of countries in terms of Exports/GDP and Imports/GDP. Are they similar?
5. The files API\_4701187.xls and API\_4570336.xls contain the World Bank data of CO2 emissions and Annual freshwater withdrawals respectively. Import these files in Python. Take care with the sheets and rows you want to import (you can tell python to skip rows when importing or either clean the excel file first).
6. Generate a database with the data from 2018 and the countries’ names.
7. Merge that database with the original database (we want only the European countries in the merged information).
8. Take a look at the countries with missings. Fill in the information that has not been merged (if you can find it in the original database).
9. Calculate the CO2 emissions per capita and Water use per capita. Which country is the largest CO2 emitter per capita? And the one with the lower water use?
10. Calculate the average CO2 per capita emissions of the richest, medium and poorest countries and compare them.