1. Unit: [Lecture] SPARQL

Exercise 1.1 (SPARQL-Queries)

Give SPARQL queries against `mondial.n3` that yield answers to the following questions:

- Names and populations (ordered) of all countries that have more than 10.000.000 inhabitants.
- Names of all countries that have at least one city with more than 1.000.000 inhabitants.
- Names of all countries that have no city with more than 1.000.000 inhabitants.
- Names of all european countries that have no membership in the European Union.
- Abbreviations of all organizations whose headquarter is located in the capital of a member country (together with the names of the country and the city).

Exercise 1.2 (SPARQL Optional)

Give a SPARQL query against `mondial.n3` that yield answers to the following question:

- For each country, give the name, and the population.
  If more than 1/4 of the population are living in its capital, give also the name and the population of the capital.
- Give the same query in SQL (against relational Mondial) and in XML/XQuery (against mondial.xml).