

2. Unit: Querying with XPath

Solve the following exercises using XPath only

Exercise 2.1 (XPath: Mondial)

- a) Find out which countries are neighbors of Russia and have more than 10 million inhabitants.
- b) Which countries are members of the NATO? Return the countries' names.
- c) Give the names of countries with a neighbor country with a mountain of 4000 m and higher.

Exercise 2.2 (XPath: Hamlet)

- a) List all scenes with less than 10 persons speaking by their titles (multiple speeches by a person included).
- b) What is the title of the third scene of the act with a scene called 'The Queen's closet'?
- c) Who are the persons speaking in both the first and the last act?
- d) What happens (stage directive) directly before King Claudius says: "Part them; they are incensed."?

Exercise 2.3 (XPath: Mondial (2))

- a) Which (country) capitals are located at a river, sea or lake? Give their names.
- b) What are the names of capitals located next to a lake?
- c) What are the names of all lakes with no city located next to it?
- d) What are the names of all rivers flowing through (at least) one capital?
- e) Find all "german leaf-nodes", which means all element nodes that are sub-nodes of the country-element of Germany and have no children.
- f) In Mondial, there exist city elements as sub-elements of province elements, and city elements as sub-elements of country elements. Are there any other city elements?