A7B36XML, AD7B36XML: XML Technologies

Practical Classes 3 and 4:

XPath: Exercises

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http://www.ksi.mff.cuni.cz/~svoboda/courses/2016-2-A7B36XML/

- Express the following XPath queries
 - Select all owners (with their entire subtrees)
 - Select names of all agencies (just text content)
 - Select owner countries without duplicate values
 - Select name of owner with id o2

- Express the following XPath query
 - Select postal codes of all owners from the United States



- Express the following XPath query
 - Select rate values of flats with a comfort level C from all properties other than p2

- Express the following XPath query
 - Select the third feature of the first property



- Express the following XPath query
 - Select names of properties without owners and with at least two features

- Express the following XPath query
 - Select owners without any properties

- Express the following XPath query
 - Select flats with rates below average

- Express the following XPath query
 - Select names of owners who own a flat with a bath

- Express the following XPath query
 - Select the overall sum of rates of flats of comfort levels of C or D from properties of owner o1



- Express the following XPath query
 - Select names of the very first and very last flat in the entire document, including recursively nested flats (i.e. with respect to the document order)



- Express the following XPath query
 - Given an identifier of a particular flat, select the top level flat that (recursively) contains it
 - E.g. select flat f4 when f4a1, f4a or f4 queried

- Express the following XPath query
 - Select distinct countries of owners of flats with comfort level A or rent greater than 20000

- Express the following XPath query
 - Select comfort levels of top level flats, but only when they do not contain any other flats



- Express the following XPath query
 - Select elements with value 46001, but only when their name does not start with d and their depth is equal to at least 5



- Express the following XPath query
 - Select distinct names of countries where owners reside
 - Do not use distinct-values() function

- Express the following XPath query
 - Select employees that are not responsible for any property in New York
 - First, assume that family names alone are sufficient for the required identification of employees
 - Second, what if the full names are needed instead?

- Express the following XPath query
 - Names of flats from properties that have at least 2 top level flats listed within the flats element
 - What about arbitrary n > 2?