B4M36DS2, BE4M36DS2: Database Systems 2

http://www.ksi.mff.cuni.cz/~svoboda/courses/181-B4M36DS2/

Practical Class 2

XPath

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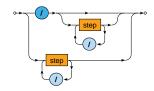
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Path Expressions

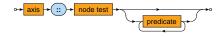
Path expression

Absolute / relative paths



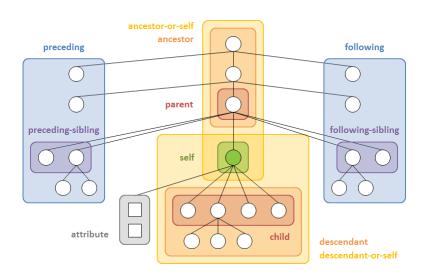
Path Expressions

Steps of path expressions



- Axis
 - Specifies the relation of nodes to be selected for a given node
- Node test
 - Basic condition the selected nodes must further satisfy
- Predicates
 - Advanced conditions the selected nodes must further satisfy

Path Expressions: Axes



Express the following XPath queries

- Names of all airline companies (whole airline elements)
- Full names of all airports (just text content)
- Codes of all airports (their values)
- The last ticket of the third flight (in the document order)
- Distinct codes of flight ticket classes (without duplicities)

Express the following XPath query

Flight numbers operated by A6-EOQ aircraft on 2017-10-13

Express the following XPath query

 Flights with at least one first class ticket (F) or business class ticket (C)

Express the following XPath query

- Flights without any first class ticket (F) as well as any business class ticket (C)
 - Include only flights with at least one ticket

Express the following XPath query

 Numbers of flights that depart on 2017-10-18 or any date later and that have no aircraft assigned yet

Express the following XPath query

• Lines with duration above the overall average

Express the following XPath query

 Overall number of flights heading to any airport in Germany (DEU) on 2017-10-18

Express the following XPath query

Passenger name on the very last ticket in the entire file