## B4M36DS2, BE4M36DS2: Database Systems 2

https://cw.fel.cvut.cz/b221/courses/b4m36ds2/

**Practical Class 2** 

## **XPath**

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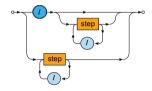


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## **Path Expressions**

#### Path expression

Absolute / relative paths



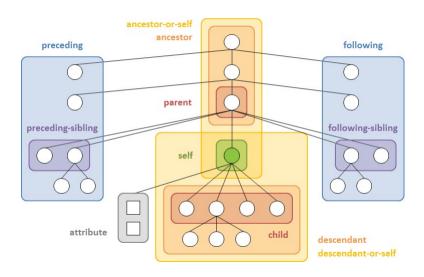
## **Path Expressions**

#### **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 2019-10-13

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 2019-10-18 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 2019-10-18

Express the following XPath query

Passenger name on the very last ticket in the entire file