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E Hierarchical Files

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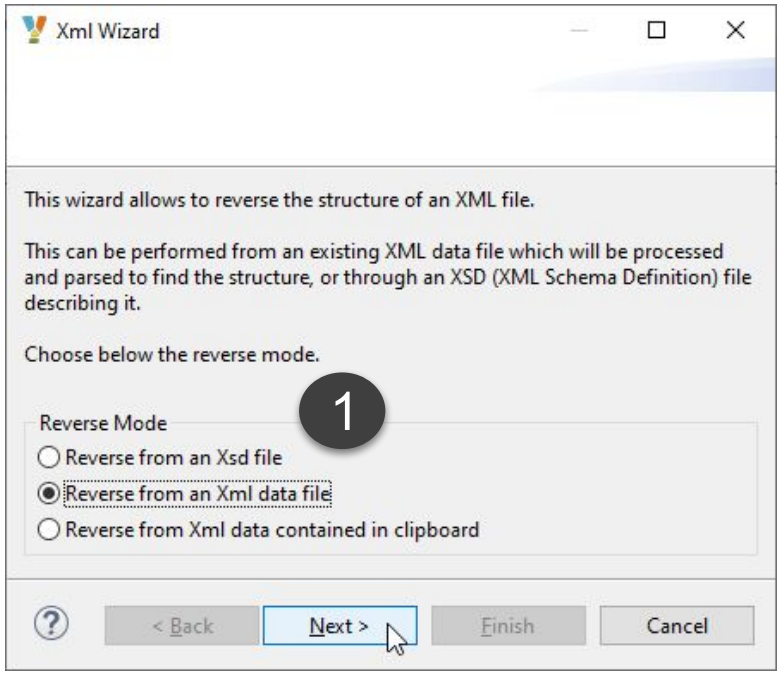
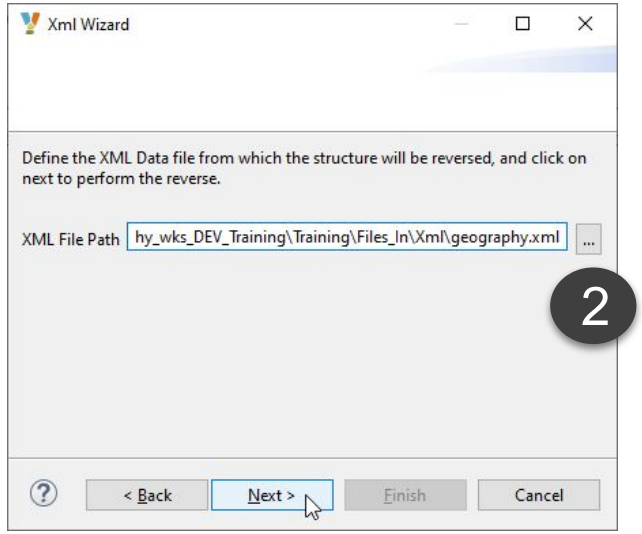
E Hierarchical Files

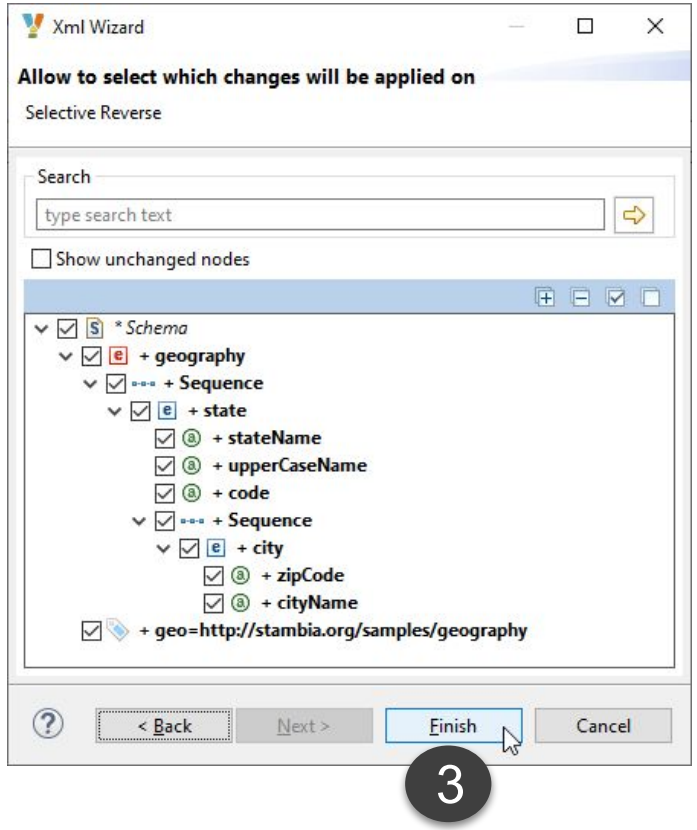
E1 - Flat file, Xml & Json Metadatas

Xml & Xsd

The reverse of an XML file description can be based on a sample XML file

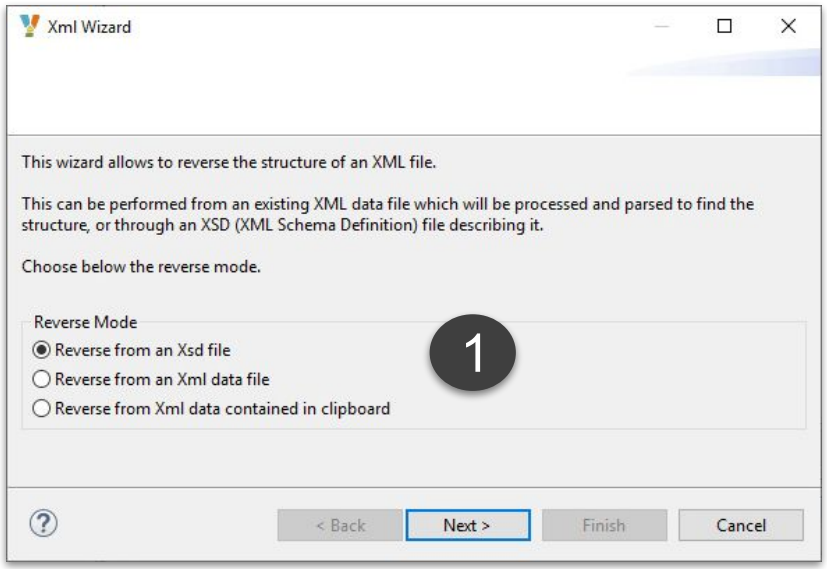


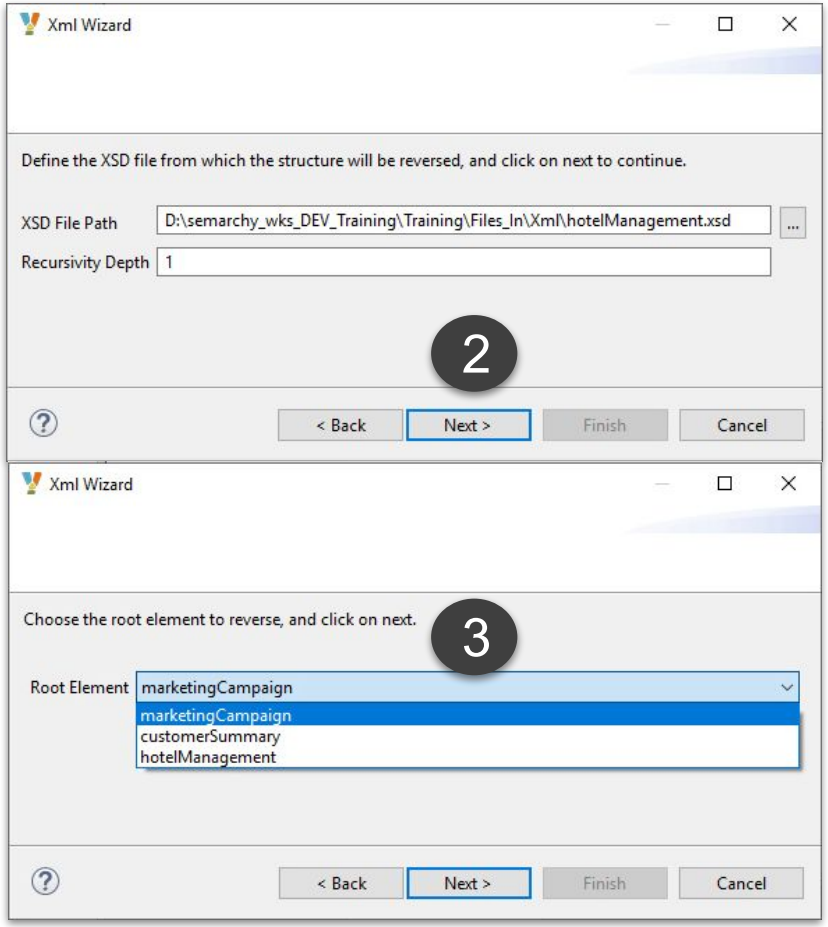


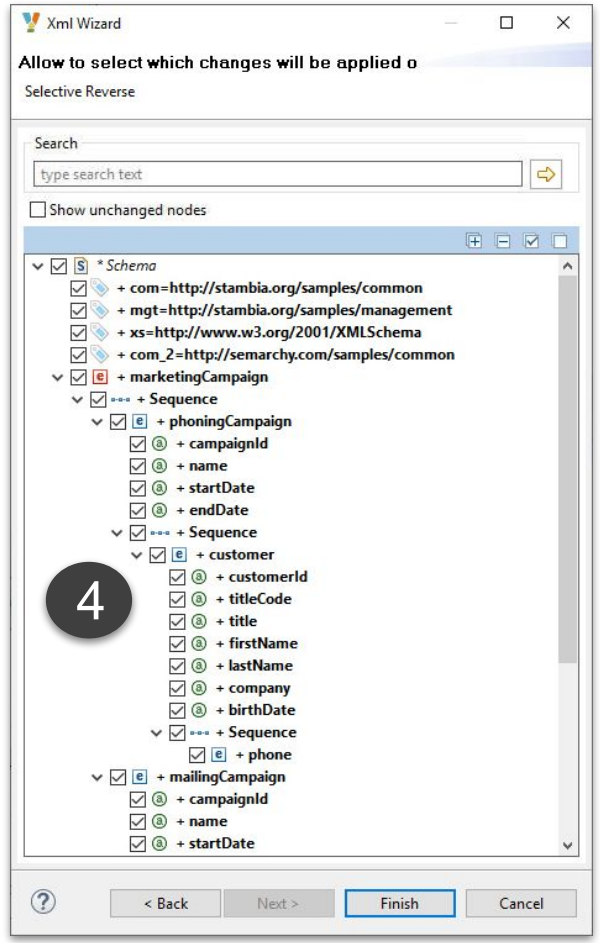


Xml & Xsd

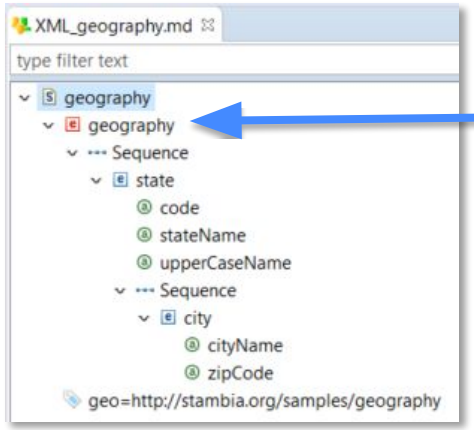
The reverse of an XML file description can be based on an XSD file (XML Schema Definition)



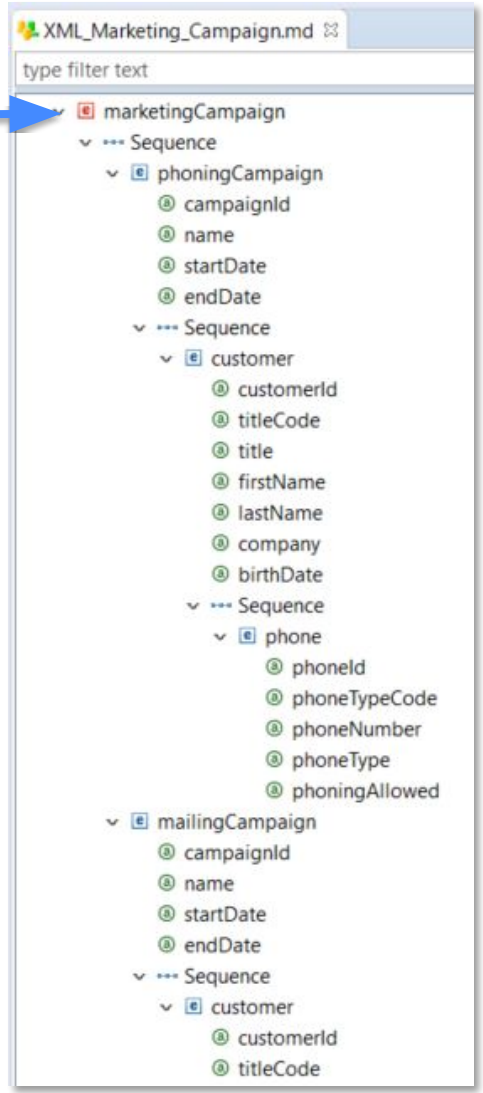




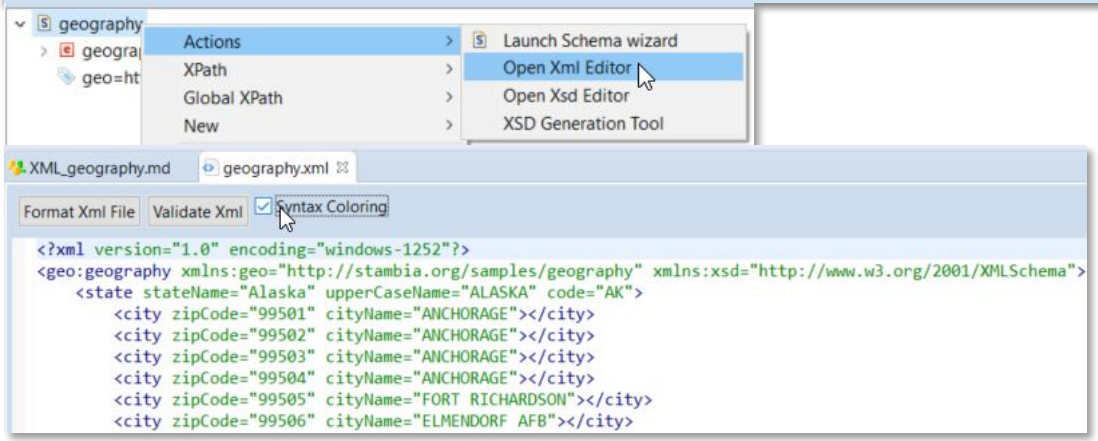
Xml & Xsd - The generated Xml Metadata



The root element (in red) must be drag & dropped in a mapping to be used

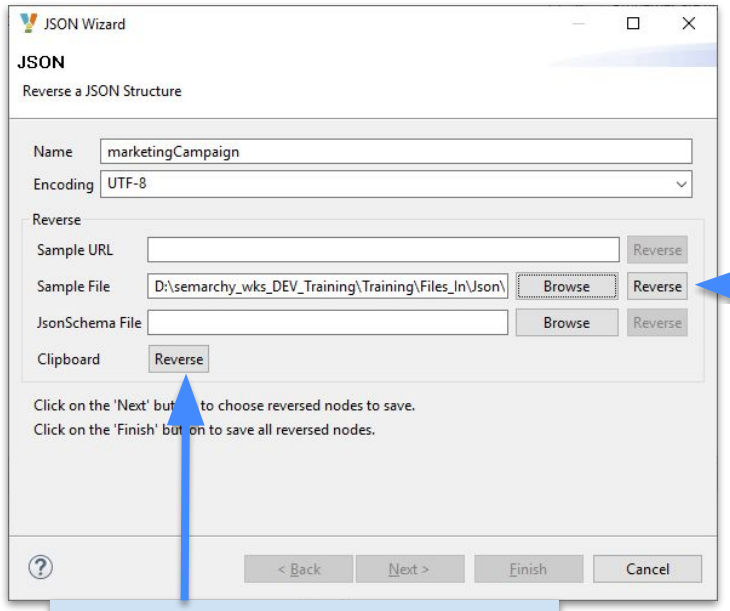


It's also possible to consult the content of a Xml file



JSON

The reverse of a JSON file is always based on a sample JSON file

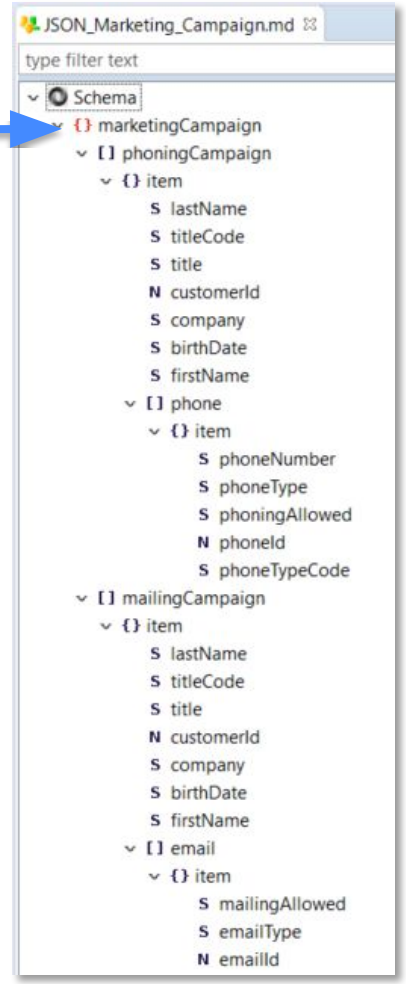


If the sample json is in clipboard, use directly the « Reverse » button

In the other case, use the "Browse" button and after this « Reverse » button

The main bracket (in red) must be drag & dropped in a mapping to be used

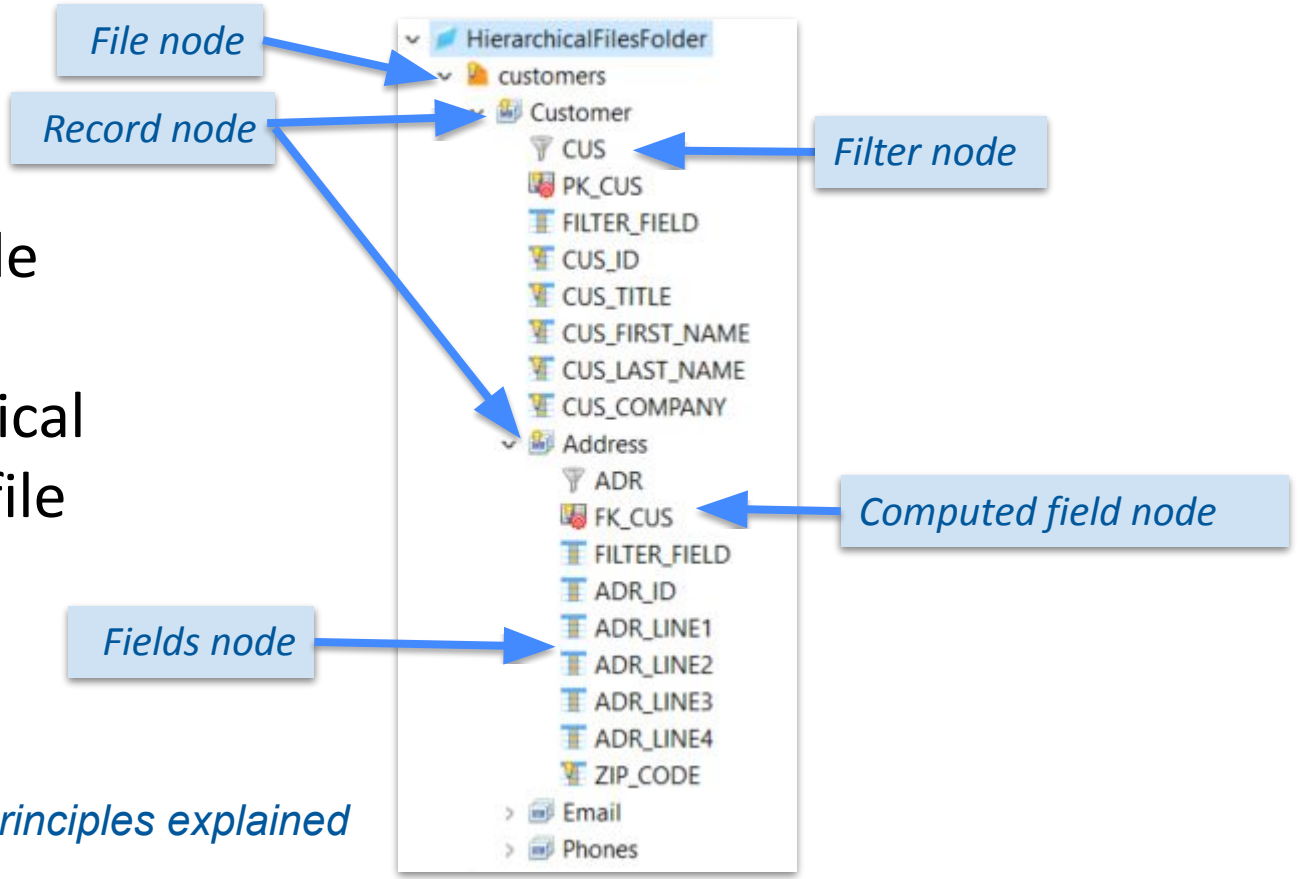
The generated metadata



Flat hierarchical file

A hierarchical flat file is a flat file with records nodes between the file and the fields nodes

- A hierarchy between the records is possible
- Filters and Computed fields can be added
- A simple flat file can be used as a hierarchical file if there is a record node between the file node and the field nodes



In the slides hold in the "Write in hierarchical files" chapter, the principles explained can be applied to Json and Flat hierarchical files

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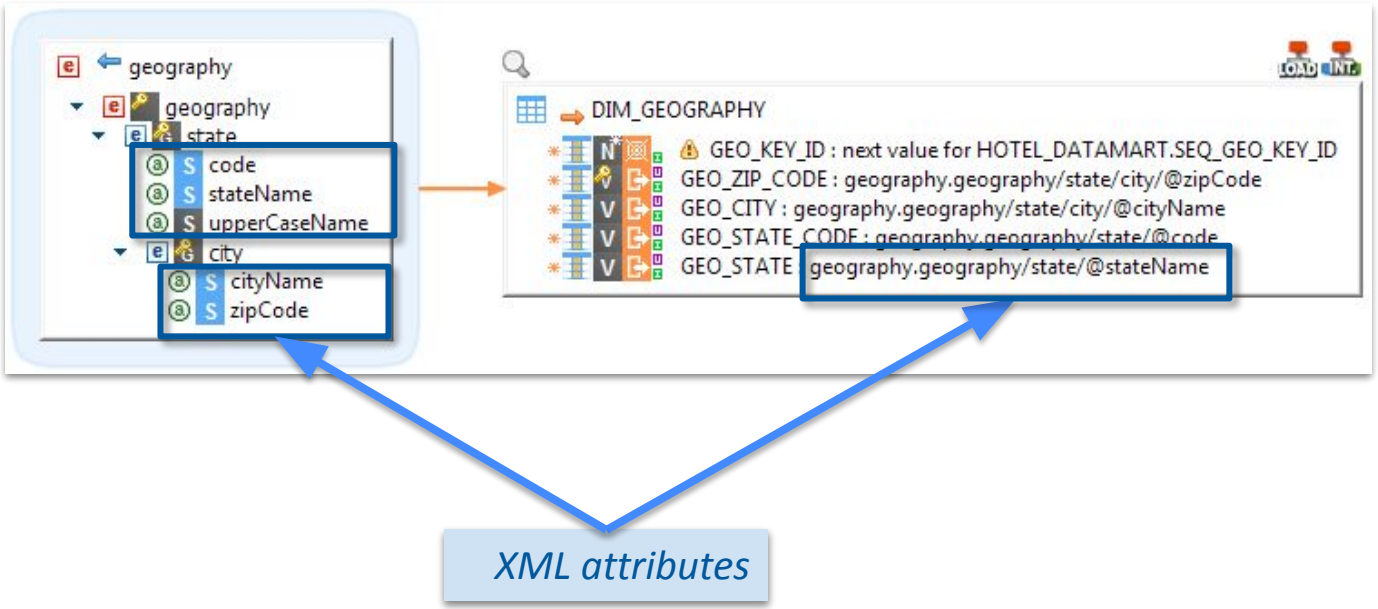
E Hierarchical Files

E2 - Read hierarchical files

Reading XML files

You can read an XML file in a mapping in the same way as you read a normal flat file

- Just drag & drop XML attributes



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Together Everyone Achieves More

Practice exercise

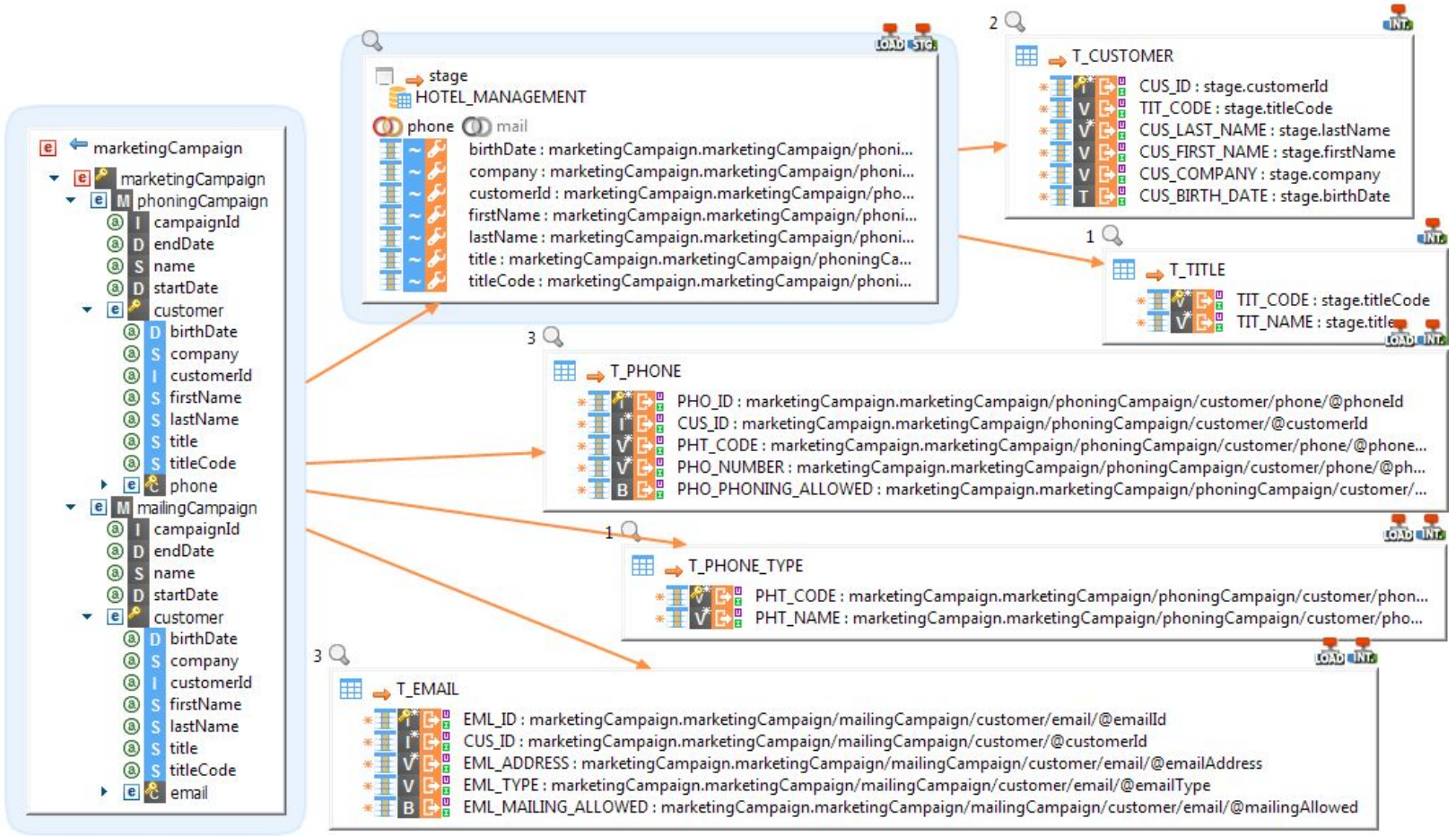
Reverse an XML metadata
Create a first mapping with an XML source

Demo

Reverse engineering Json & hierarchical file
Create a mapping with an XML source

Load XML files in multiple tables

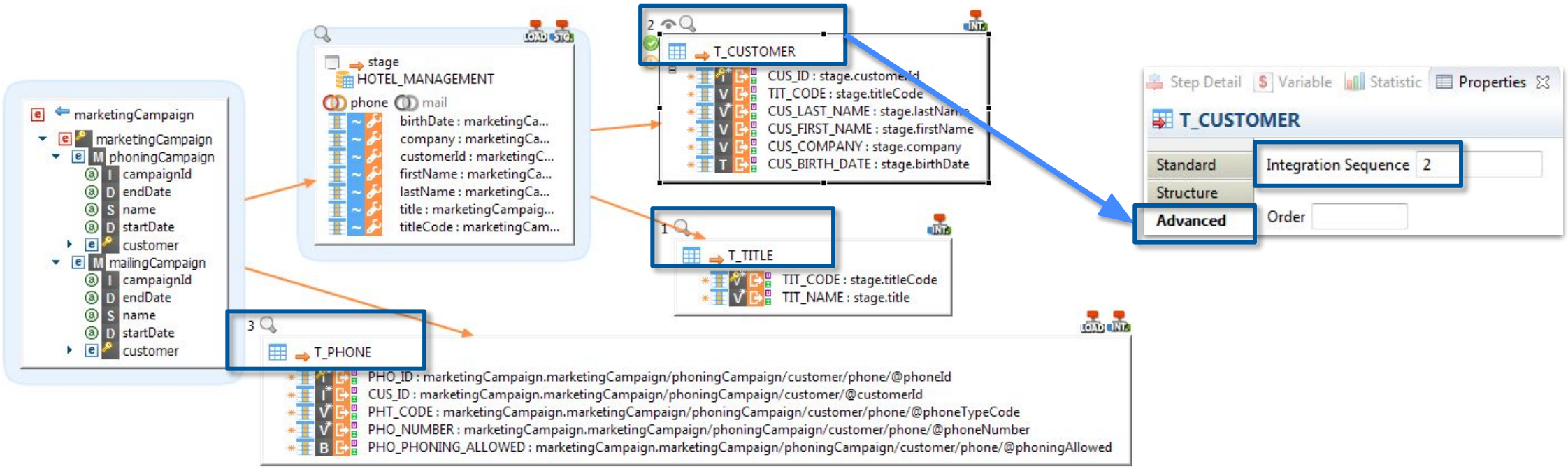
The load template will load the data into tables and keep the relationships



E-Hierarchical Files

Load XML files in multiple tables

To be able to load the multiple tables in an particular order (foreign keys), you will have to complete an “integration sequence” property in the “Advanced” tab



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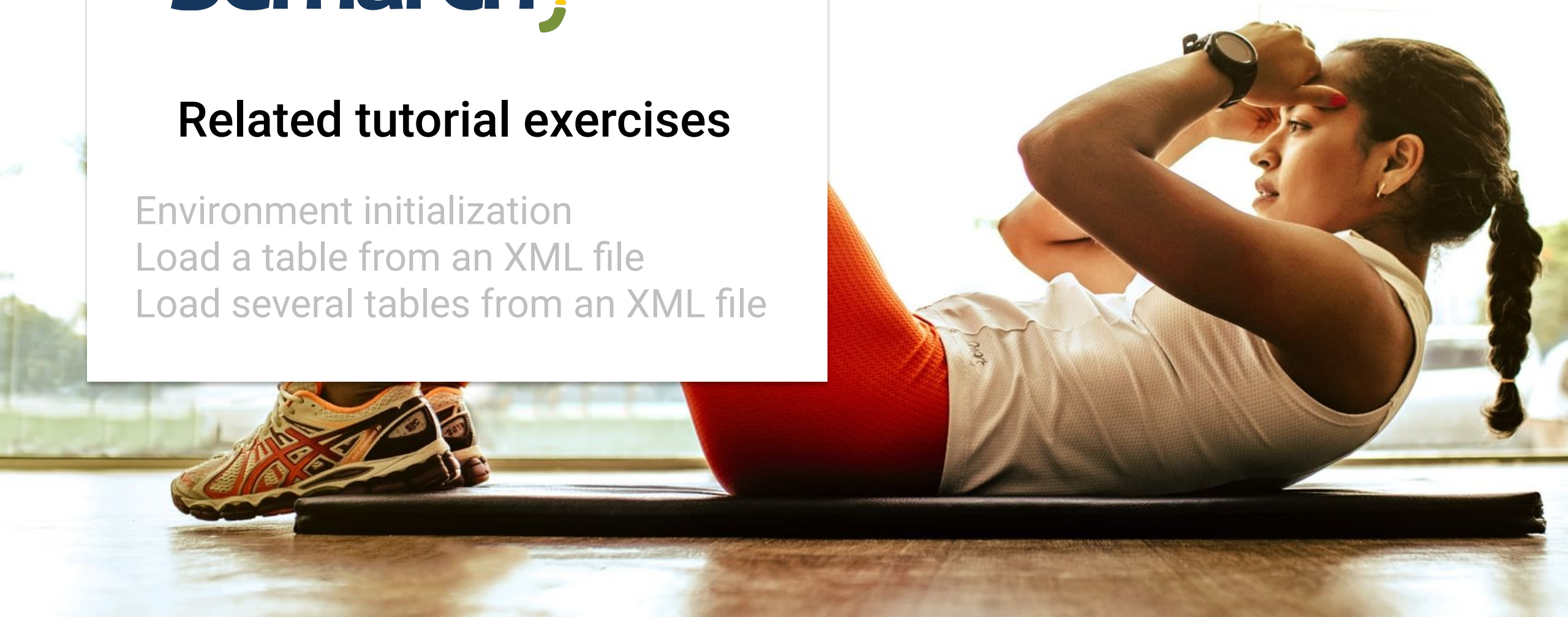
Related tutorial exercises

Environment initialization
Load a table from an XML file
Load several tables from an XML file



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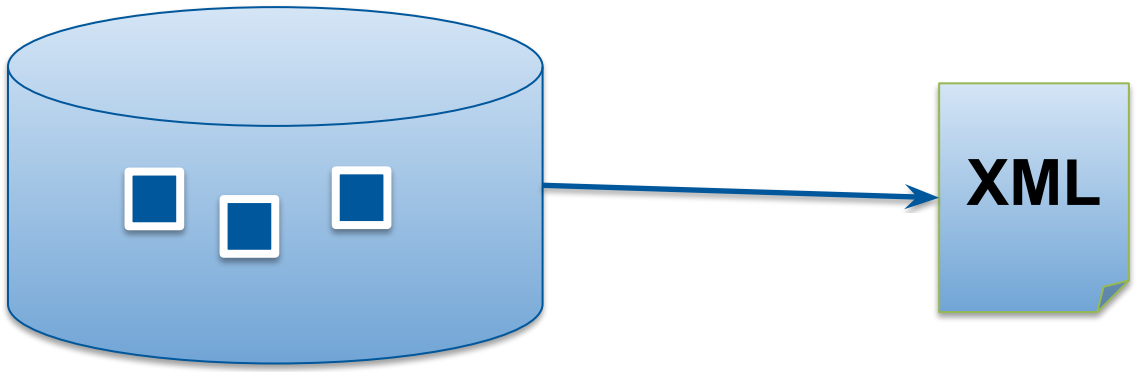
E Hierarchical Files

E3 - Write hierarchical files

Writing XML files

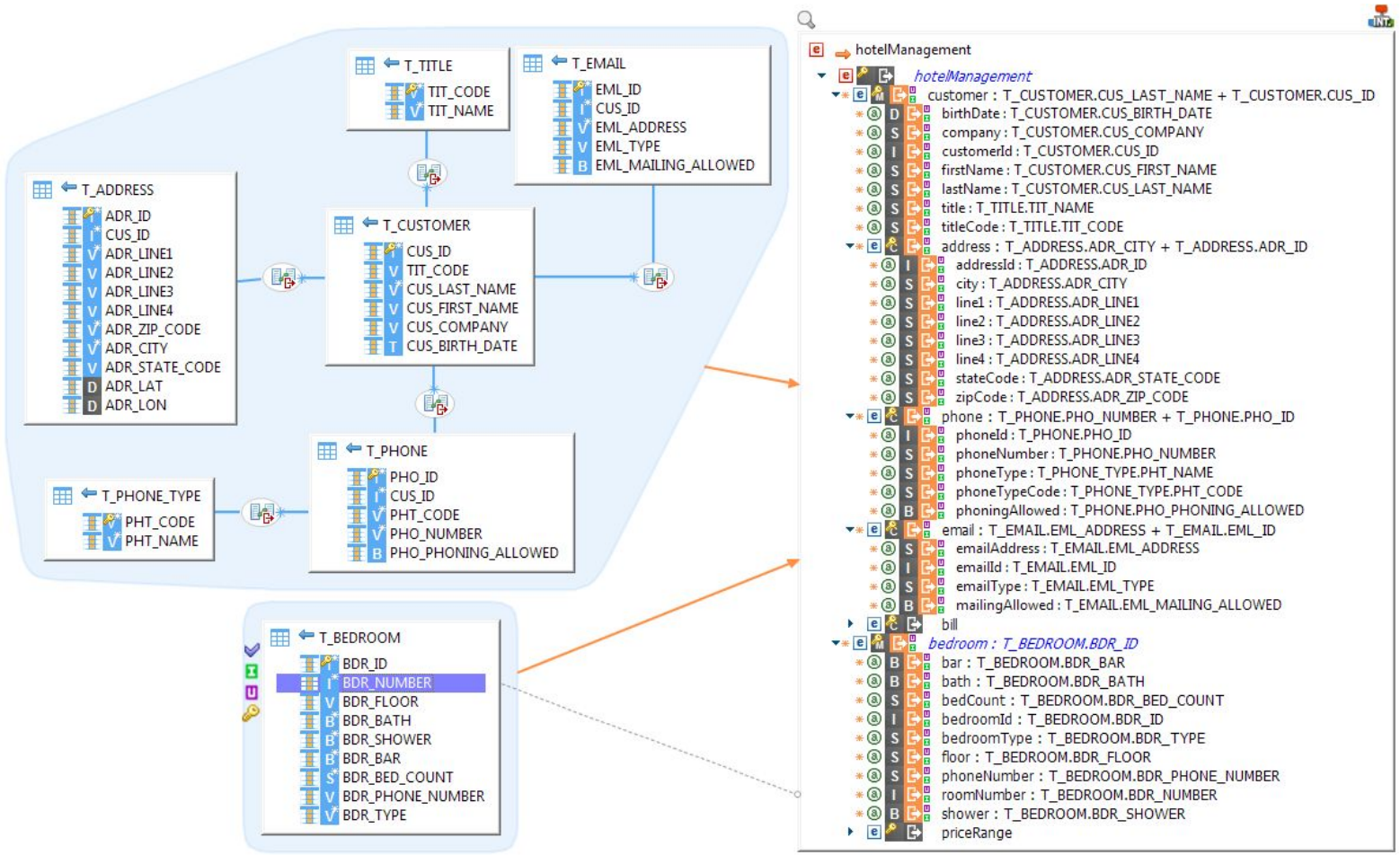
You can write data into XML files in the same way as you write in a table

The Staging Area (thus the transformations) will be on the source



XML Mappings

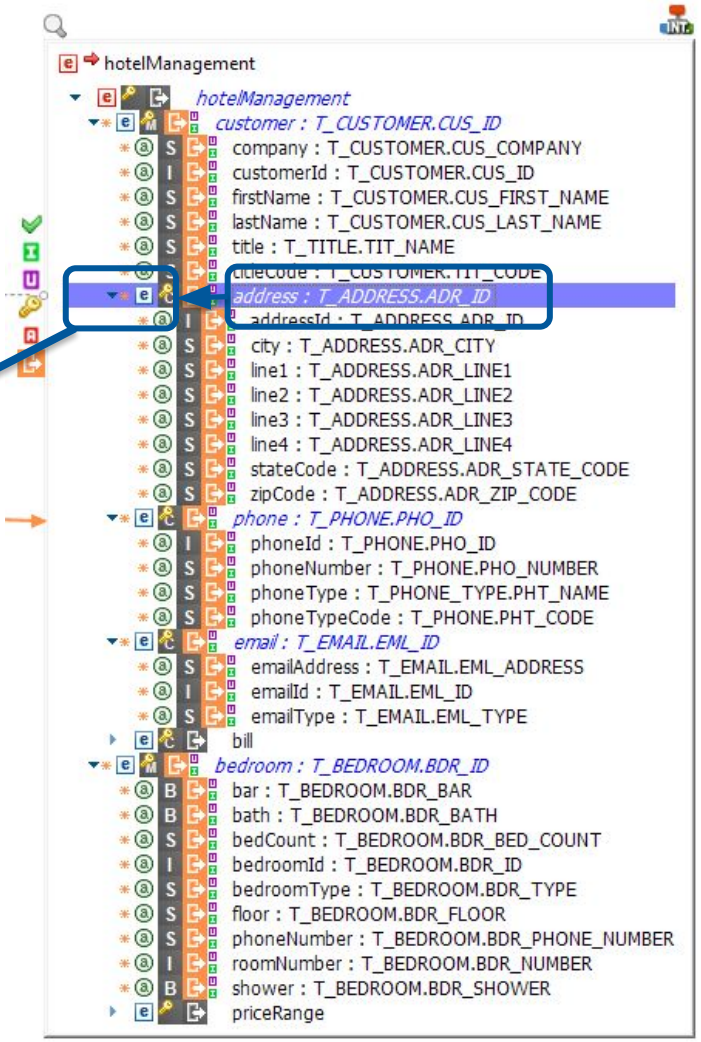
An XML Mapping is as easy to realize as the Mapping of a table



Particularities

In hierarchical files (XML, JSON, flat files), repetition blocks (occurrences on elements) are symbolized by key icons

- The expression used on a key will define the repetition (group) key for the data
- It will also define the sort



E-Hierarchical Files

Demo

Create a mapping to generate XML file

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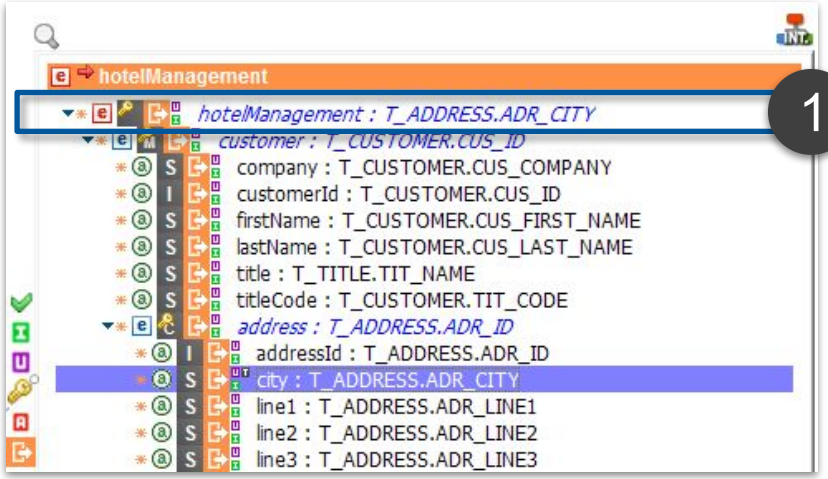
Related tutorial exercises

Generate XML hierarchy

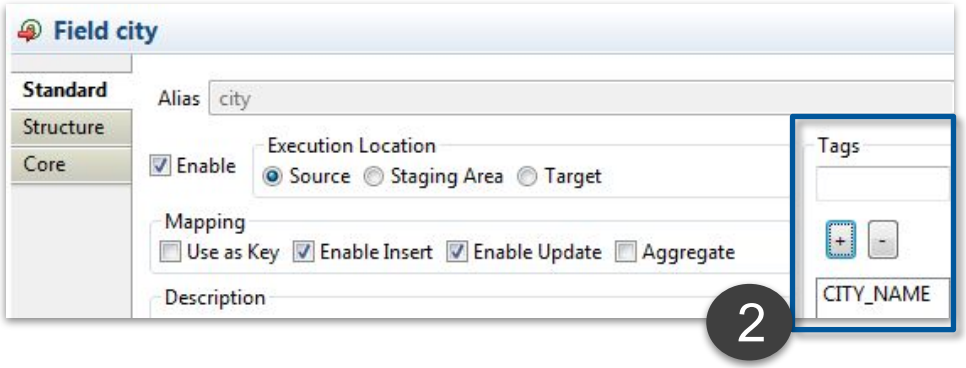
Writing multiple files

In 3 steps, it is possible to write several files using a single mapping



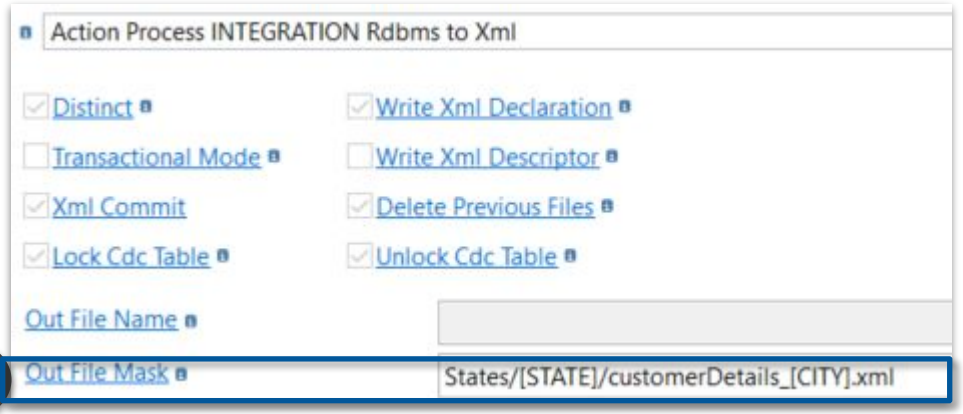
1

Specify the iterate expression on the root element



2

Define the "Tags" to be used in the integration template (Out File Mask)



3

Define the Out File Mask property of the Integration Template

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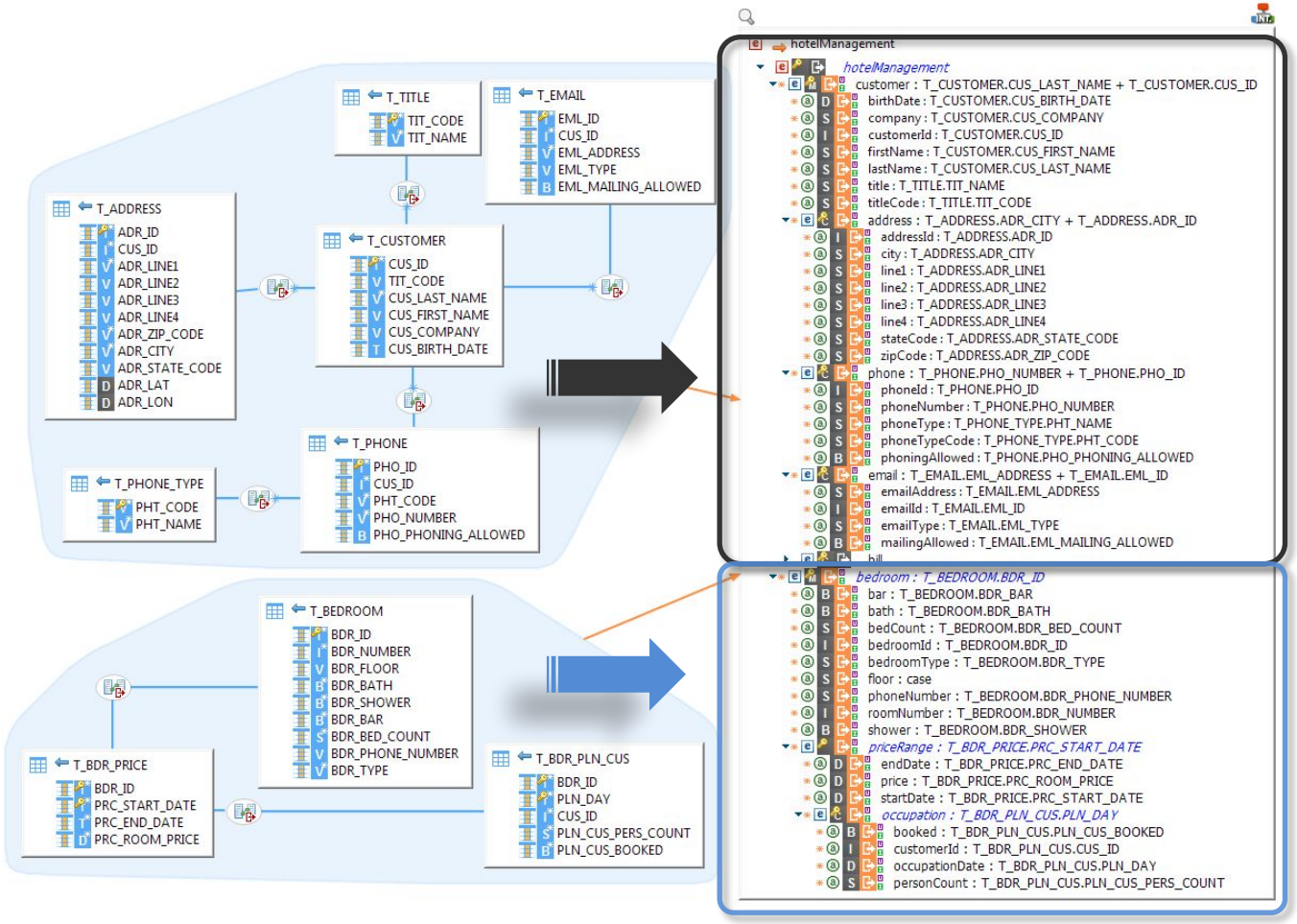
Related tutorial exercises

Generate multiple XML files

Writing into multiple hierarchies

It is possible to write into multiple and distinct Xml hierarchies



E-Hierarchical Files

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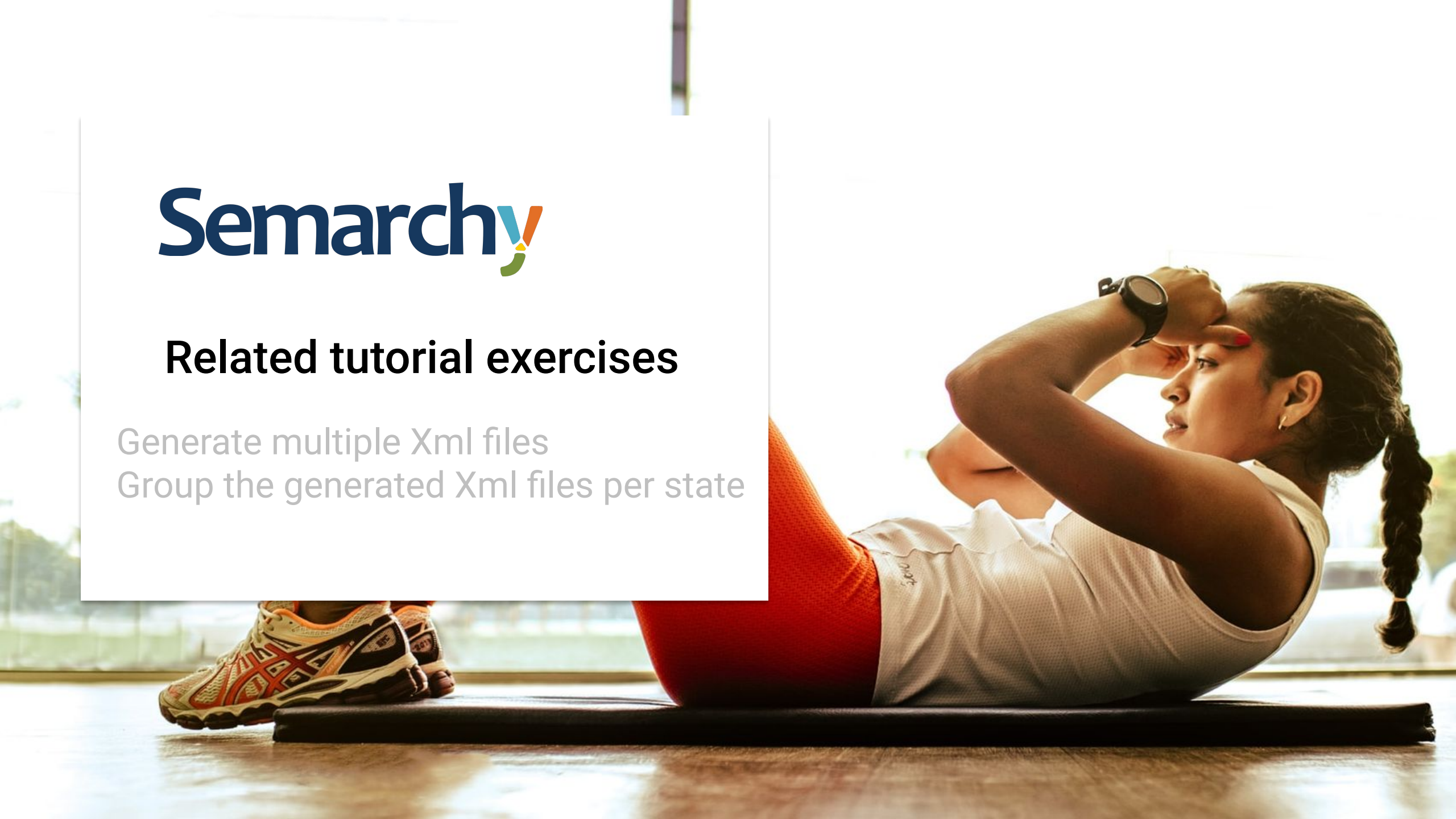
Related tutorial exercises

Generate multiple Xml files
Group the generated Xml files per state



To go further

Document Type	Link
English video Read and write hierarchical files	https://www.youtube.com/watch?v=SIEJSO9780I
Stambia.org article Using XML property fields	https://stambia.org/doc/66-technology-articles/xml/425-using-xml-property-fields
Stambia.org article Reading XML nodes with varying names	https://stambia.org/doc/66-technology-articles/xml/427-reading-xml-nodes-with-varying-names
Stambia.org article Reading multiple XML files	https://stambia.org/doc/66-technology-articles/xml/429-reading-multiple-xml-files
Stambia.org article Validating an XML file with an XSD	https://stambia.org/doc/66-technology-articles/xml/187-validating-an-xml-file-with-an-xsd
Stambia.org article Indenting an XML file using an XSL transformation	https://stambia.org/doc/66-technology-articles/xml/411-indenting-an-xml-file-using-an-xsl-transformation
Stambia.org article Sorting data when writing an XML file	https://stambia.org/doc/66-technology-articles/xml/449-sorting-data-when-writing-an-xml-file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Questions?