

Hands-on: Schema Mapping with MapForce - Movies

1. Load files

- movie_list.csv as input
- target.xml as target schema

2. Assign IDs

Increment: **auto-numbe**r function

Add prefix to incrementing number: **concat** function

The id should start with the prefix movie_list_id followed by an increasing number which starts at 1000.

Foreign Gross: **if** the value is numeric add it **else** add **0** Date: Add prefix, define the **format**, parse the concat values as date

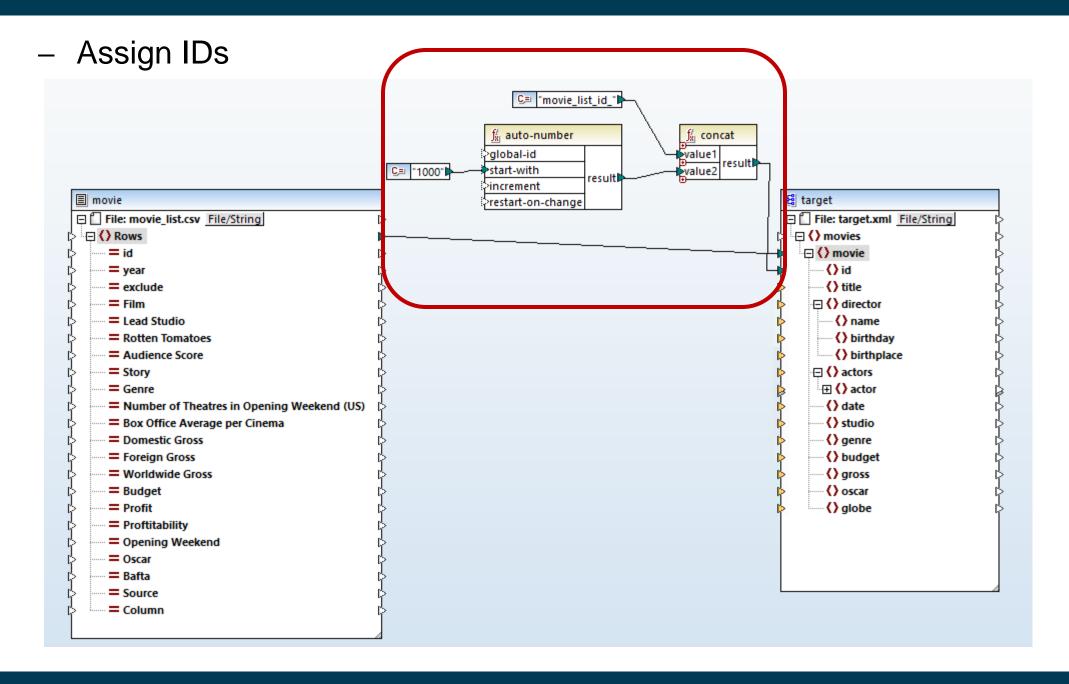
3. Create attribute correspondences from source to target

- Map Film and Genre to the corresponding attributes of the target schema
- Set the gross attribute value as a summation of the Domestic and the Foreign Gross. (hint: You can only perform summation if all the involved values are numeric)
- Map year to date and set the day and month to the first of June.

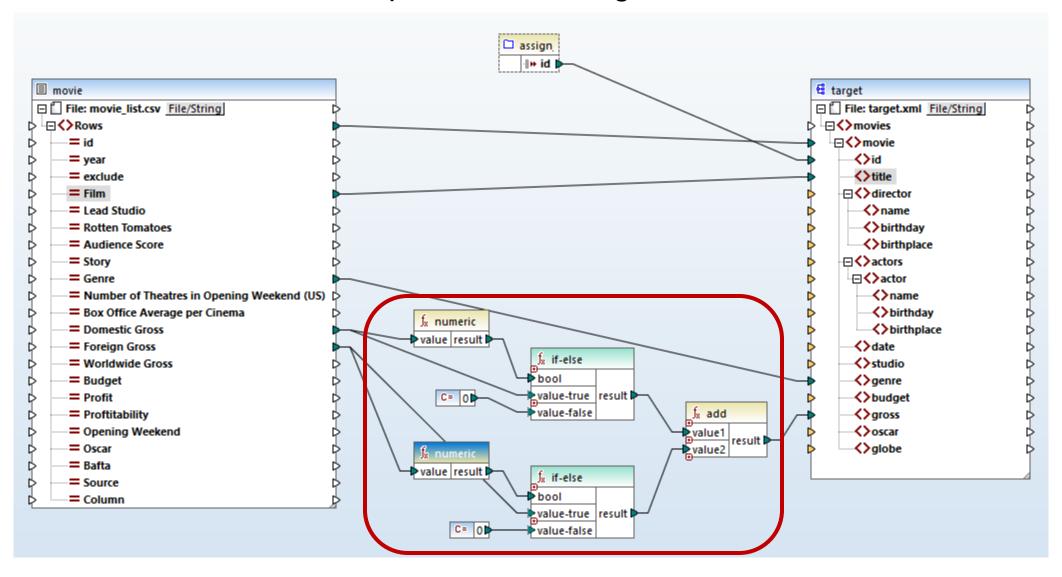
4. Filter

Check if exclude value **equals** y. On **false** map the source row to the target movie

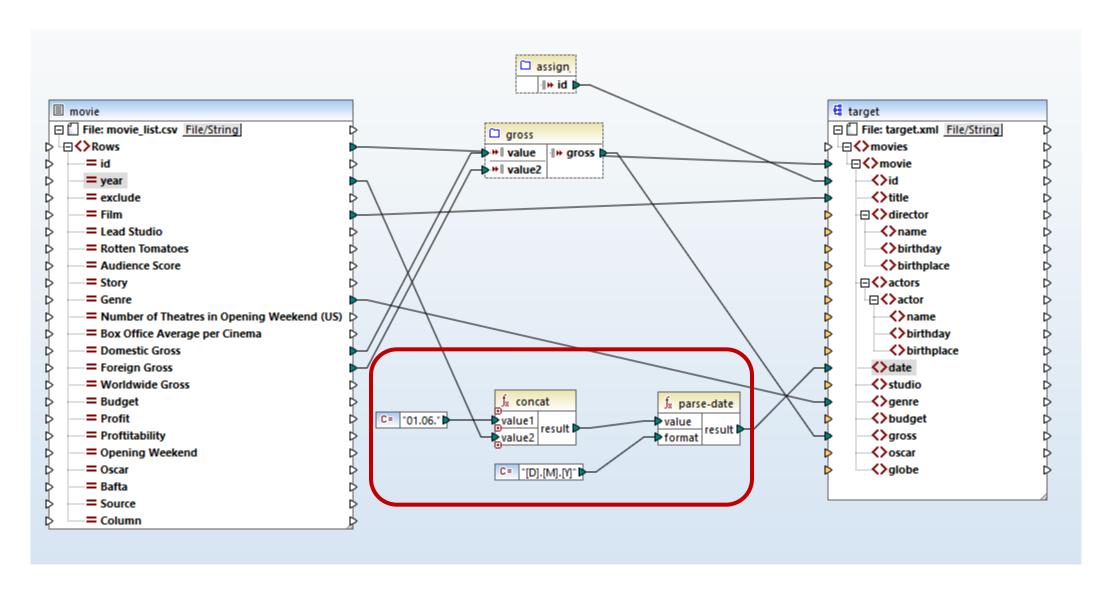
Exclude the movies where the exclude attribute is set to y



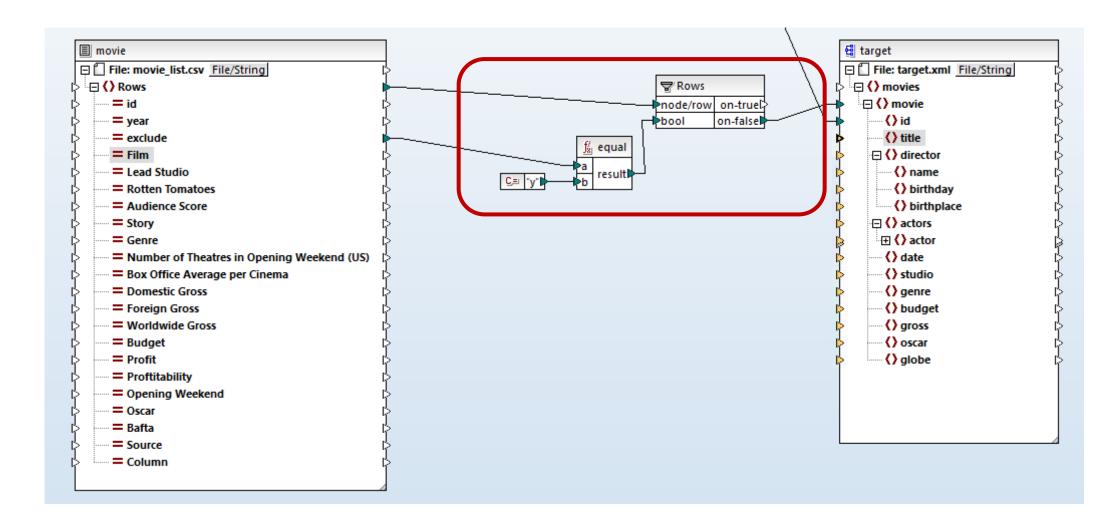
Create attribute correspondences using summation



Create attribute correspondences using date functions



Filter out entities



Hands-on: Schema Mapping with MapForce - Actors

1. Load files

The input file is **tab** separated. Define the **datatype** and **names** of the attributes.

- actors.csv as input
- target.xml as target schema

2. Aggregate by Movie

A movie can be uniquely defined by its **name** and its **year**.

- Identify an appropriate mapping key (the name of the movie is not enough as there might be movies with the same title)
- Group by the created key. Use the key as id for the target dataset.
- Map the aggregated rows to the movies in the target schema

Use **normalize space** function to remove the spaces. **Concatenate** the birthday day, month, year in a parsable **format** like **[D].[M].[Y]**

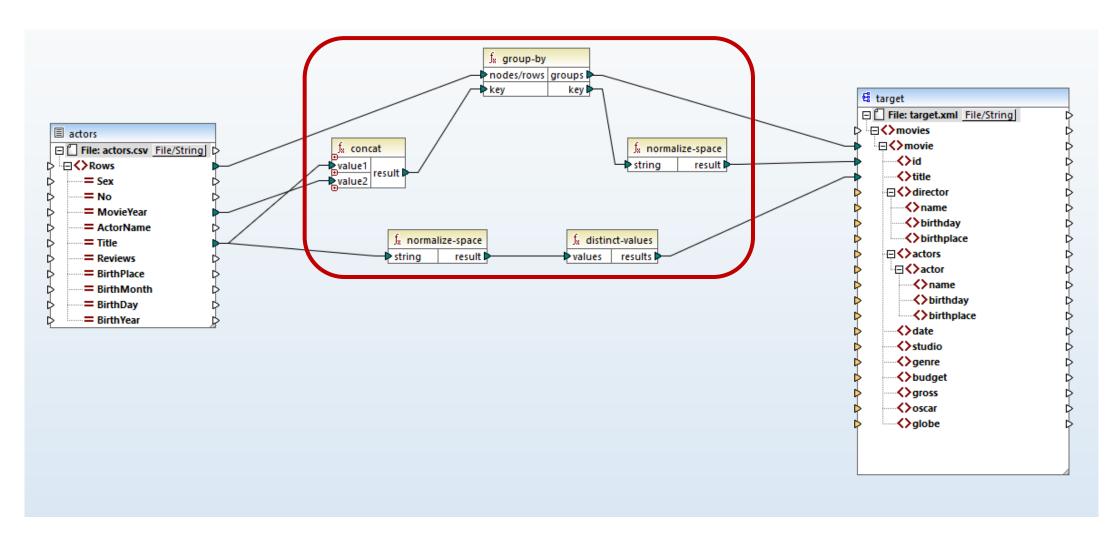
3. Create actor correspondences

- Create the missing correspondences for the name, birthplace and the full birthday
- In case the values contain spaces, remove them

File Format:

Gender No MovieYear ActorName Title Reviews BirthPlace BirthMonth BirthDay BirthYear

Aggregate by movie



Create actor correspondences

