# **Processing data**



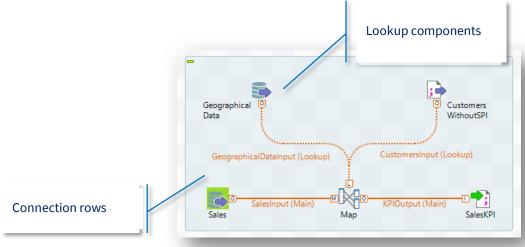
#### Overview

This module covered several data processing methods. The first part introduced you to data transformation using the tMap component (mapping data, joining data, and collecting join rejects, filtering data, and collecting filter rejects). The second part focused on other processing tasks, such as aggregating, sorting, and sampling.

### **Best practices**

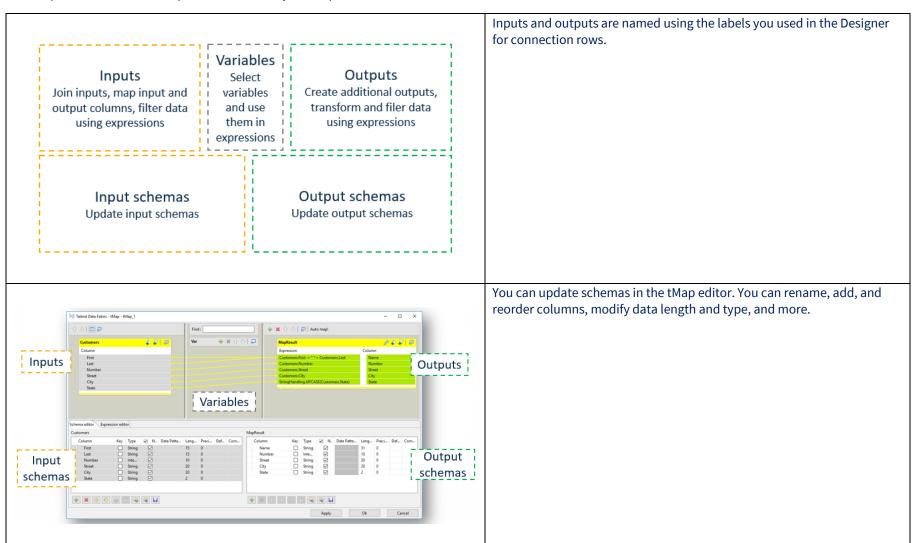
When using tMap, follow these best practices when placing components in the Designer:

- Place lookup components above tMap
- Rename connection rows



## The tMap editor

The tMap editor is divided into panels from which you can perform different actions:



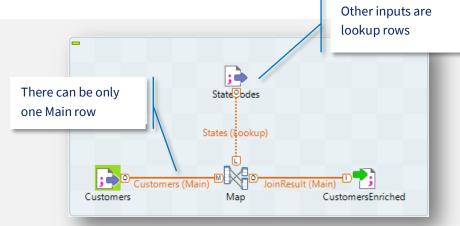
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### Key steps

Follow these steps to join two data flows using tMap.

1 Define multiple input sources

- Following best practices, organize components and connection rows in the **Designer**
- Carefully choose connections:
  - Data channeled through the Main row is on the left side of the join
  - When using a left outer join, data from the Main row is always protected, even when you have nonmatching records
- Double-click the tMap component to open the editor



Configure a join Û U □ ₽ Customers To create a join, in the **tMap** input panel: Column 1. Drag the key join column from the main input table Main input First to the corresponding column in the lookup table. table Last 2. In the lookup table, click the **Table settings** button. Number For Join Model, select Inner Join or Left Outer Join. Street City You can utilize advanced settings for **Lookup Model** and **Match Model**. States Property Value Lookup Model Load once Match Model Unique match Join Model Inner Join Store temp data false Expr. key Column Lookup table Customers.State StateCode

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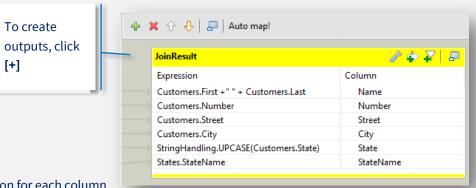
StateName

3 Define multiple output sources

To configure output flows, in the **tMap** output panel:

- 1. Click [+] to create as many output tables as you need.
- 2. Create the output schemas by connecting the columns from the input tables to those in the output tables.

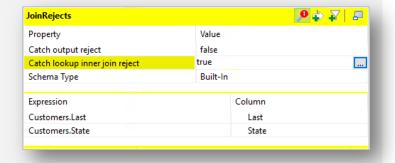
You can utilize advanced settings by editing a mapping expression for each column.



4 Additional setting for inner joins: handle rejects

To channel rejects to a separate output for additional processing:

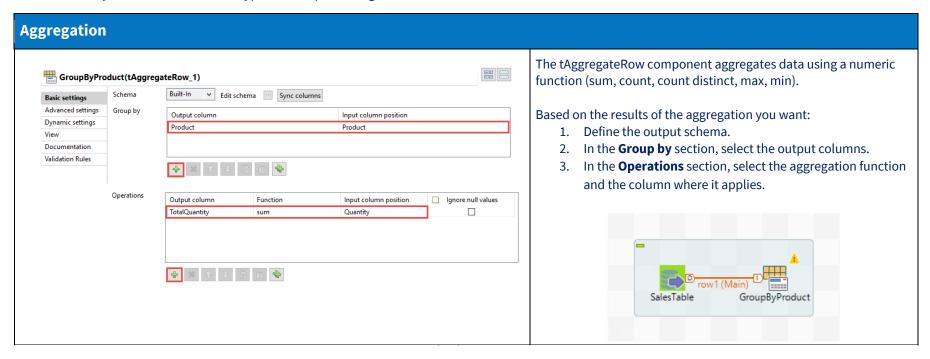
- 1. Create a specific output table.
- 2. Configure the output schema.
- 3. Click the **Table settings** button.
- 4. To the right of **Catch lookup inner join reject**, in the **Value** column, select **true**.

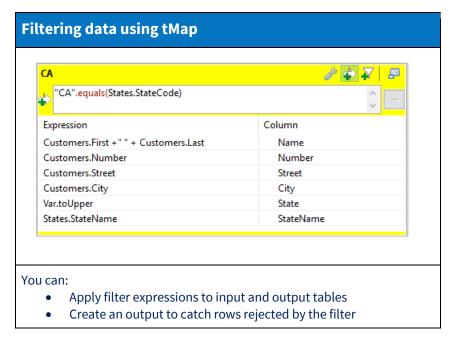


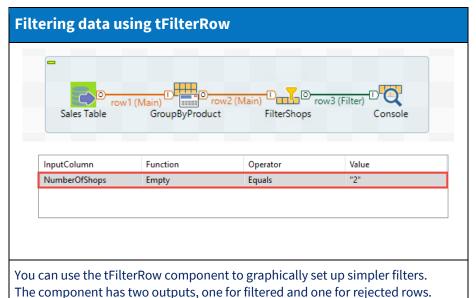
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#### **Tips**

Other elements you can use for different types of data processing tasks:







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