

# Reshaping Steps

Recipe steps that change the number of rows in the dataset have additional impacts on your dataset and its samples. These **reshaping steps** include the following transformations:

Transformation	Documentation
Splitrows	<i>Initial Parsing Steps</i>
Expand Arrays into Rows	<i>Working with Arrays</i>
Filter Rows (keep or delete)	<i>Remove Data</i>
Pivot Table	<i>Pivot Data</i>
Unpivot Columns	
Join Datasets	<i>Join Panel</i>
Union Datasets	<i>Union Page</i>
Select <b>Lookup</b> from the column menu	<i>Lookup Wizard</i>
Remove Duplicate Rows	<i>Remove Data</i>

## Samples:

When one of these transformations is applied and rows are removed from your dataset:

- Any samples generated before the step was added are invalidated and cannot be used.
- If you edit steps in your recipe before this added transformation, any samples that you generated after the step are invalidated and cannot be used.
- A valid head sample is always available for use.

For more information, see *Samples Panel*.