Table to Variables Component

Use this component to convert tabular data into variables. The component creates a variable from the data in each table field. As a variable can have only one value, the component applies different aggregation functions to the field.

Ports

Input

- **Input data source**: Accepts a data table.

Output

- **Output variables**: Provides a list of variables that the component creates from the input data source by applying aggregation functions to field data.

Configuration wizard

The first page of the wizard consists of two panes:

- **Available fields**: Shows the input dataset fields.
- **Selected fields**: Shows the result variables.

> **Note:** The wizard supports dragging fields between the panes.

Available fields

To add a field to the **Selected fields** list on the right, do one of the following:

- Click the Σ **Move to variables** button.
- Click **Move to variables** in the field's context menu.
- Or press Alt + S.

Selected fields

When you add a field to the **Selected fields** list, the system assigns it a default aggregation function:

- **Sum** for numeric fields
- **Only** for all other fields

Use the mouse to manage selected fields. Drag fields within the list to change their positions. Move fields to the **Available fields** list to exclude them. Double-click a field to open the **Aggregation options** window.

You can also use the toolbar buttons to perform the same actions:

- **Move up**: Move the selected item up the list.
- **Move down**: Move the selected item down the list.
- **Edit**: Open the window for selecting available aggregation options for the selected field.
- **Delete**: Return the selected item to the **Available fields** list.
- **Delete all**: Move all items back to the **Available fields** list.

The context menu provides the same actions:

- **Move up**: Move selected fields up the list.
- **Move down**: Move selected fields down the list.
- **Edit**: Open the window for selecting available aggregation options for the selected fields.
- **Delete selected**: Move selected fields back to the **Available fields** list.

You can also use these keyboard shortcuts for the same commands:

- `Ctrl` + `Up`: **Move up**
- `Ctrl` + `Down`: **Move down**
- `F2`: **Edit**
- `Delete`: **Delete selected**

Output dataset

The output dataset contains variables that the component creates from fields using the selected aggregation functions. Each aggregation option produces a separate output variable.

The system determines variable names, captions, and values as follows:

- **Name**: If you have selected only one function, the variable name matches the field name. If you have selected multiple functions, the system adds a suffix to the name, indicating the corresponding function.
- **Caption**: To create the variable caption, the node combines the field name and the aggregation function name.

- **Value**: The node calculates the variable value from the field values using the selected aggregation function.

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