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# Join



The Join block returns a new table that joins the rows of two input tables.



#### **Note**

Make sure to rename columns using the **renameColumns** property, if you don't want the columns to be combined.

For information on using dataflow blocks, see Dataflow.

For answers to some common questions about working with tables, see Tables.

#### **Input/Output Properties**

The following properties of the Join block can take input and give output.

- input1 (table)
- input2 (table)
- column1 (string)
- column2 (string)
- join (enum)
- renameColumns (string)

**input1** specifies the left table for the join operation.

**input2** specifies the right table for the join operation.

**column1** specifies the name of the key column from the **input1** table.

**column2** specifies the name of the key column from the **input2** table.

join determines the method of joining. The value of the join property can be one of the following:

- Left: All rows from input1 are included. Rows from input2 are included and merged when the column2 value matches a column1 value.
- **Right**: All rows from **input2** are included. Rows from **input1** are included and merged when the **column1** value matches a **column2** value.
- Inner: Rows are included and merged only when the values in column1 and column2 are the

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same.

• Full: All rows from both tables are included, and the rows are merged if the values of **column1** and **column2** are the same.

• **Union**: All rows from both tables are included in a new table. Rows are not merged.

**renameColumns** determines the names in the output table for columns that come from **input2**. Use this syntax:

column1:newName
column2:newName

To edit text in a popup window, click the **Edit in Window** icon. To create line breaks between columns, press Alt + Enter in the block properties panel, or press Enter in the popup window.

# **Output Property**

The following property of the Join block can give output but cannot take input.

• output (table)

output returns the joined table.

## **Order of Priority for Duplicate Column Names**

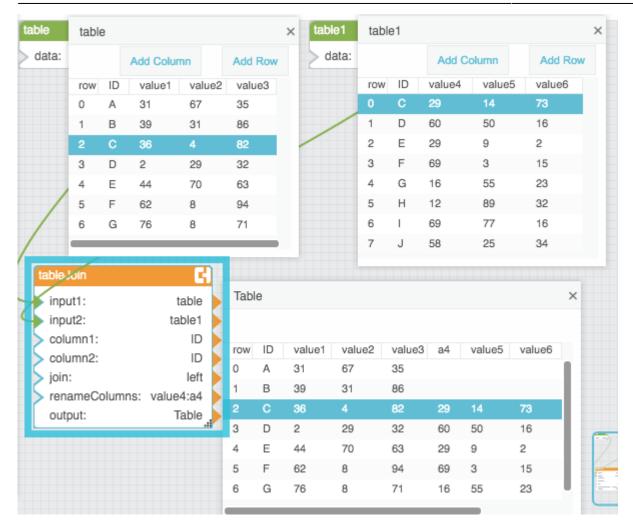
If column names are the same and are not renamed using the **renameColumns** property, the type of join determines the order of priority, as follows:

- In a left, inner, or full join, the value in the **input1** table overrides the value in the **input2** table.
- In a right join, the value in the **input2** table overrides the value in the **input1** table.
- In a union join, all values are included.

### **Example**

The following image shows an example of the Join block. In this example, a left join operation is performed.

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