Configure External Binning

Use this configuration when you provide an external binning table to the **Coarse Classes** node through the **External quantization ranges** port. If the input data source contains binning settings for a column, select **Input (external binning)** as its **Usage type** in the wizard. The node will then use the binning from the table instead of calculating it from the current data.

Requirements for external binning

To use external binning, create the table in a specific format:

- For **continuous** data, ensure each external binning row corresponds to one class (range) for the input data source field values.
- For **discrete** data, ensure each external binning row corresponds to one unique value of the input data source field.

The table below describes the columns that the external binning must include for continuous and discrete binning:

Column type	Column name for automapping	Data type	Continuous binning	Discrete binning	Description
Column name	Column Name	string	+	+	The name of the input data source field that the external binning applies to. Use the current column value to select the rows that define external binning for the input data source field.
Upper bound	UpperBound	real/integer	+	-	A strictly increasing sequence of binning boundaries. The number of classes will be *one greater* as it includes the class that contains values above the last boundary.
Upper bound open	IncludeUpperBound	logical	+	-	A constant value within one field's binning that defines the upper boundary type of the class range: open (excluded) or closed (included).

Column type	Column name for automapping	Data type	Continuous binning	Discrete binning	Description
Unique value	UniqueValue	any valid type	-	+	Unique values of the input data source field that the external binning corresponds to.
Class number	ClassNumber	integer	-	+	The class number that corresponds to the unique value.

Examples of external binning tables

Continuous binning:

Column name	Upper bound	Upper bound included
COL2	3728129	False
COL2	7934343	False
COL2	10533052	False
COL2	30721946	False
COL2	36494956	False
COL2	39509806	False
COL8	490.01	False
COL8	2308.07	False
COL8	5981.98	False
COL8	6600.01	False
COL8	10050.99	False
COL8	14870	False

Discrete binning:

Column name	Class number	Unique value
COL4	0	female

Column name	Class number	Unique value
COL4	1	male
COL4	2	NULL
COL4	2	
COL6	0	Bronze
COL6	1	Silver
COL6	2	Gold
COL6	2	Platinum