

EXAMPLE - ARRAYSTOMAP Function

This example illustrates how to use the ARRAYSTOMAP function to convert values in an Array to and Object of key-value pairs.

Source:

Your dataset contains master product data with product properties stored in two arrays of keys and values.

ProdId	ProdCategory	ProdName	ProdKeys	ProdProperties
S001	Shirts	Crew Neck T-Shirt	["type", "color", "fabric", "sizes"]	["crew", "blue", "cotton", "S,M,L", "in stock", "padded"]
S002	Shirts	V-Neck T-Shirt	["type", "color", "fabric", "sizes"]	["v-neck", "white", "blend", "S,M,L,XL", "in stock", "discount - seasonal"]
S003	Shirts	Tanktop	["type", "color", "fabric", "sizes"]	["tank", "red", "mesh", "XS,S,M", "discount - clearance", "in stock"]
S004	Shirts	Turtleneck	["type", "color", "fabric", "sizes"]	["turtle", "black", "cotton", "M,L,XL", "out of stock", "padded"]

Transformation:

When the above data is loaded into the Transformer page, you might need to clean up the two array columns.

Using the following transform, you can map the first element of the first array as a key for the first element of the second, which is its value. You might notice that the number of keys and the number of values are not consistent. For the extra elements in the second array, the default key of `ProdMiscProperties` is used:

Transformation Name	New formula
Parameter: Formula type	Single row formula
Parameter: Formula	ARRAYSTOMAP(ProdProperties, ProdValues, 'ProdMiscProperties')
Parameter: New column name	'prodPropertyMap'

You can now use the following steps to generate a new version of the keys:

Transformation Name	Delete columns
Parameter: Columns	ProdKeys
Parameter: Action	Delete selected columns

Transformation Name	New formula
Parameter: Formula type	Single row formula
Parameter: Formula	KEYS(prodPropertyMap)
Parameter: New column name	'ProdKeys'

Results:

ProdId	ProdCategory	ProdName	ProdKeys	ProdProperties	prodPropertyMap
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S001	Shirts	Crew Neck T-Shirt	["type", "color", "fabric", "sizes", "ProdMiscProperties"]	["crew","blue","cotton","S,M,L","in stock","padded"]	{ "type": ["crew"], "color": ["blue"], "fabric": ["cotton"], "sizes": ["S", "M", "L"], "ProdMiscProperties": ["in stock", "padded"] } }
S002	Shirts	V-Neck T-Shirt	["type", "color", "fabric", "sizes", "ProdMiscProperties"]	["v-neck","white","blend","S,M,L,XL","in stock","discount - seasonal"]	{ "type": ["v-neck"], "color": ["white"], "fabric": ["blend"], "sizes": ["S", "M", "L", "XL"], "ProdMiscProperties": ["in stock", "discount - seasonal"] } }
S003	Shirts	Tanktop	["type", "color", "fabric", "sizes", "ProdMiscProperties"]	["tank","red","mesh","XS,S,M","discount - clearance","in stock"]	{ "type": ["tank"], "color": ["red"], "fabric": ["mesh"], "sizes": ["XS", "S", "M"], "ProdMiscProperties": ["discount - clearance", "in stock"] } }
S004	Shirts	Turtleneck	["type", "color", "fabric", "sizes", "ProdMiscProperties"]	["turtle","black","cotton","M,L,XL","out of stock","padded"]	{ "type": ["turtle"], "color": ["black"], "fabric": ["cotton"], "sizes": ["M", "L", "XL"], "ProdMiscProperties": ["out of stock", "padded"] } }