

EXAMPLE - Nested Functions

This simple example illustrates how the following functions operate on nested data.

- **ARRAYCONCAT** - Concatenate multiple arrays together. See *ARRAYCONCAT Function*.
- **ARRAYINTERSECT** - Find the intersection of elements between multiple arrays. See *ARRAYINTERSECT Function*.
- **ARRAYCROSS** - Compute the cross product of multiple arrays. See *ARRAYCROSS Function*.
- **ARRAYUNIQUE** - Generate unique values across multiple arrays. See *ARRAYUNIQUE Function*.

Source:

Code formatting has been applied to improve legibility.

Item	ArrayA	ArrayB
Item1	["A", "B", "C"]	["1", "2", "3"]
Item2	["A", "B"]	["A", "B", "C"]
Item3	["D", "E", "F"]	["4", "5", "6"]

Transformation:

You can apply the following transforms in the following order. Note that the column names must be different from the transform name, which is a reserved word.

Transformation Name	New formula
Parameter: Formula type	Single row formula
Parameter: Formula	ARRAYCONCAT([Letters, Numerals])
Parameter: New column name	'concat2'

Transformation Name	New formula
Parameter: Formula type	Single row formula
Parameter: Formula	ARRAYINTERSECT([Letters, Numerals])
Parameter: New column name	'intersection2'

Transformation Name	New formula
Parameter: Formula type	Single row formula
Parameter: Formula	ARRAYCROSS([Letters, Numerals])
Parameter: New column name	'cross2'

Transformation Name	New formula
Parameter: Formula type	Single row formula
Parameter: Formula	ARRAYUNIQUE([Letters, Numerals])

Parameter: New column name	'unique2'
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Results:

For display purposes, the results table has been broken down into three separate sets of columns.

Column set 1:

Item	ArrayA	ArrayB	concat2	intersection2
Item1	["A", "B", "C"]	["1", "2", "3"]	["A", "B", "C", "1", "2", "3"]	[]
Item2	["A", "B"]	["A", "B", "C"]	["A", "B", "A", "B", "C"]	["A", "B"]
Item3	["D", "E", "F"]	["4", "5", "6"]	["D", "E", "F", "4", "5", "6"]	[]

Column set 2:

Item	cross2
Item1	[["A", "1"], ["A", "2"], ["A", "3"], ["B", "1"], ["B", "2"], ["B", "3"], ["C", "1"], ["C", "2"], ["C", "3"]]
Item2	[["A", "A"], ["A", "B"], ["A", "C"], ["B", "A"], ["B", "B"], ["B", "C"]]
Item3	[["D", "4"], ["D", "5"], ["D", "6"], ["E", "4"], ["E", "5"], ["E", "6"], ["F", "4"], ["F", "5"], ["F", "6"]]

Column set 3:

Item	unique2
Item1	["A", "B", "C", "1", "2", "3"]
Item2	["A", "B", "C"]
Item3	["D", "E", "F", "4", "5", "6"]