EXAMPLE - Nested Functions

This example illustrates how to use the nested functions.

Functions:

Item	Description
ARRAYCONCAT Function	Combines the elements of one array with another, listing all elements of the first array before listing all elements of the second array.
ARRAYINTERSECT Function	Generates an array containing all elements that appear in multiple input arrays, referenced as column names or array literals.
ARRAYCROSS Function	Generates a nested array containing the cross-product of all elements in two or more arrays.
ARRAYUNIQUE Function	Generates an array of all unique elements among one or more arrays.

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'

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"]