

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.

- Arrays are referenced by column name or as array literals.
- This function applies two or more columns of Array type only. To concatenate string values, see *Merge Transform*.
- Duplicate values are not removed from the generated array.

Basic Usage

Array literal reference example:

```
arrayconcat(["A", "B", "C"], ["C", "D", "E"])
```

Output: Generates the following array:

```
["A", "B", "C", "C", "D", "E"]
```

Column reference example:

```
arrayconcat([array1, array2])
```

Output: Generates a new array containing a single array listing all of the elements in `array1` followed by all elements from `array2` in order.

Syntax and Arguments

```
arrayconcat(array_ref1, array_ref2)
```

Argument	Required?	Data Type	Description
array_ref1	Y	string or array	Name of first column or first array literal to apply to the function
array_ref2	Y	string or array	Name of second column or second array literal to apply to the function

For more information on syntax standards, see *Language Documentation Syntax Notes*.

array_ref1, array_ref2

Array literal or name of the array column whose elements you want to concatenate together. You can concatenate together two or more arrays.

Usage Notes:

Required?	Data Type	Example Value
Yes	Array literal or column reference	myArray1, myArray2

Examples

Tip: For additional examples, see *Common Tasks*.

Example - Simple concat example

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'

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"]