

EXAMPLE - ARRAYSlice and ARRAYMERGEELEMENTS Functions

This example illustrates how to generate an Array that is a slice of an another Array, based on index numbers. The elements of this Array can then be merged into a String value.

Functions:

Item	Description
ARRAYSLICE Function	Returns an array containing a slice of the input array, as determined by starting and ending index parameters.
ARRAYMERGEELEMENTS Function	Merges the elements of an array in left to right order into a string. Values are optionally delimited by a provided delimiter.

Source:

The following set of arrays contain results, in order, of a series of races. From this list, the goal is to extract a list of the podium finishers for each race as a single string.

RaceId	RaceResults
1	["racer3","racer5","racer2","racer1","racer6"]
2	["racer6","racer4","racer2","racer1","racer3","racer5"]
3	["racer4","racer3","racer5","racer2","racer6","racer1"]
4	["racer1","racer2","racer3","racer5"]
5	["racer5","racer2","racer4","racer6","racer3"]

Transformation:

From the list of arrays, the first step is to gather the top-3 finishers from each race:

Transformation Name	New formula
Parameter: Formula type	Single row formula
Parameter: Formula	ARRAYSLICE(RaceResults, 0, 3)
Parameter: New column name	'arrPodium'

The above captures the first three values of the RaceResults arrays into a new set of arrays.

The next step is to merge this new set of arrays into a single string:

Transformation Name	New formula
Parameter: Formula type	Single row formula
Parameter: Formula	ARRAYMERGEELEMENTS(arrPodium, ',')
Parameter: New column name	'strPodium'

Results:

RaceId	RaceResults	arrPodium	strPodium
1	["racer3","racer5","racer2","racer1","racer6"]	["racer3","racer5","racer2"]	racer3,racer5,racer2
2	["racer6","racer4","racer2","racer1","racer3","racer5"]	["racer6","racer4","racer2"]	racer6,racer4,racer2
3	["racer4","racer3","racer5","racer2","racer6","racer1"]	["racer4","racer3","racer5"]	racer4,racer3,racer5
4	["racer1","racer2","racer3","racer5"]	["racer1","racer2","racer3"]	racer1,racer2,racer3
5	["racer5","racer2","racer4","racer6","racer3"]	["racer5","racer2","racer4"]	racer5,racer2,racer4