

# EXAMPLE - ARRAYSLICE and ARRAYMERGEELEMENTS Functions

This example covers the following functions:

- **ARRAYSLICE** - Returns an array that is a slice of another array, based on the provided starting and ending index numbers. See *ARRAYSLICE Function*.
- **ARRAYMERGEELEMENTS** - Merges the elements of an array together into a string. See *ARRAYMERGEELEMENTS Function*.

## 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"]

## Transform:

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

```
derive type: single value: ARRAYSLICE(RaceResults, 0, 3) as: '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:

```
derive type: single value: ARRAYMERGEELEMENTS(arrPodium, ',') as: '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