

Collection Variables:

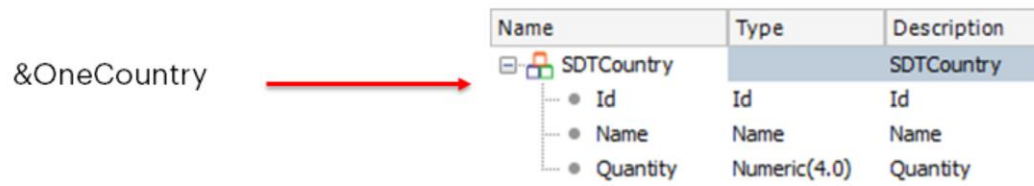
storing data collections in memory

GeneXus™ 16

We may define variables to store an entity:

&age → Numeric(3)

&name → Character(20)



In all GeneXus objects we may define variables based on simple or structured data types that enable us to store data of an entity, such as a numeric value, a text or data on a country.

Or, we may define variables of a given type and then mark them as collection:

&names →

Name	Type	Is Collection	Description
Variables			
Standard Variables			
names	Character(20)	<input checked="" type="checkbox"/>	names

&numbers →

Name	Type	Is Collection	Description
Variables			
Standard Variables			
numbers	Numeric(4.0)	<input checked="" type="checkbox"/>	numbers

Collections behave in a similar way, regardless of the data type of their elements



And we may also say that the variable we are defining with a data type will in fact be a collection of elements of that type.

Collections behave in a similar way, regardless of the data type of their elements. In order to work with them we must have available functionalities that will facilitate their use.

We have already seen some of those functionalities, such as Sort() for ordering the collection, or the For..In command to go over it. Let's now see some more functionalities...

We create &Countries as a collection of countries:

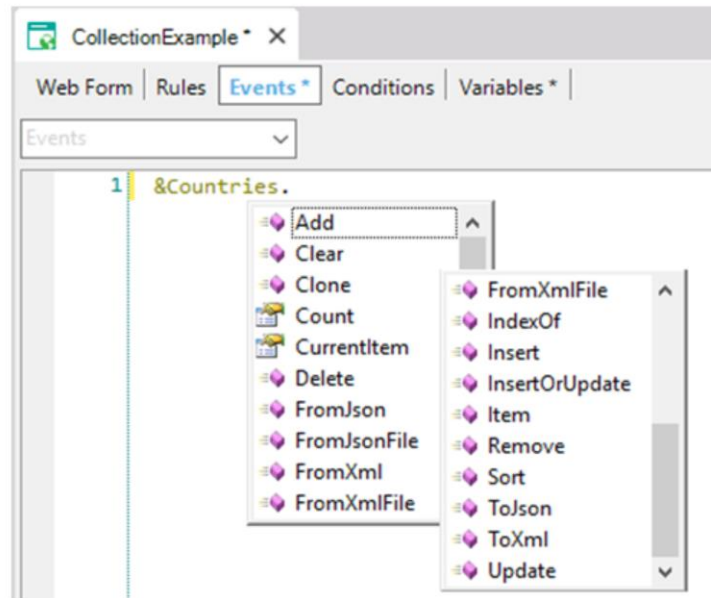


Each element in the collection
will be of the SDTCountry type.

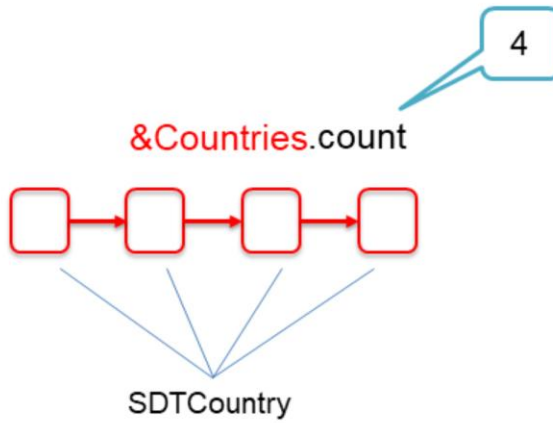
Suppose that we define a &Countries variable of the SDTCountry type and mark it as collection in the checkbox of the **Is Collection** column.

Each element in the collection will be of the SDTCountry type. This SDT was not defined as collection, so it will only allow us to store information on a single country. However, when we define a variable of this type and mark it as collection, we may then store data of several countries.

Properties and methods of collections:



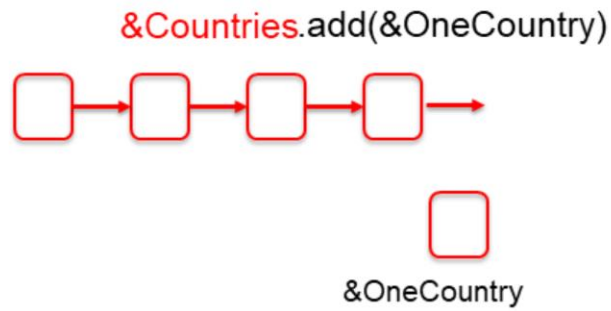
To count the number of elements:



With the Count property we may know the number of elements in the collection.

This property is ReadOnly.

To add an element to the collection:



The Add() method enables us to add elements to the collection.

The element to be added must have the same data type as the other elements in the collection.

To remove an element from the collection:

`&Countries.remove(3)`



The Remove() method enables us to remove an element based on its index.

The index range starts at 1 and ends at the value of the Count property.

To delete all elements in the collection:

`&Countries.clear()`



If we wish to delete all the elements in the collection, we use the `Clear()` method.

To learn more about this:

<http://wiki.genexus.com/commwiki/servlet/wiki?6352,Collection%20variables>



Videos

training.genexus.com

Documentation

wiki.genexus.com

Certifications

training.genexus.com/certifications