Question
[Kurro Lopez](#) · Aug 25, 2020

Search an object in a ListOfObj

Hi all.

I have a reponse message that has a property of the type %Collection.ListOfObj and I need to search for an item in this list. Let me show you The Response message has a collection of type LabCenter

```
Class ListLabCenter Extends Ens.Response
{

Property ListCenter As list Of LabCenter;
Storage Default
{
<Data name="ListLabCenterDefaultData">
<Subscript>"ListLabCenter"</Subscript>
<Value name="1">
<Value>ListCenter</Value>
</Value>
</Data>
<DefaultData>ListLabCenterDefaultData</DefaultData>
<Type>%Library.CacheStorage</Type>
}
}
```

```
Class LabCenter Extends (%SerialObject, %XML.Adaptor)
{

Property LabId As %String;
Property Center As %String;
Property Code As %String;
Storage Default
{
<Data name="LabCenter">
<Value name="1">
<Value>LabId</Value>
</Value>
```

```xml
<Value name="2">
<Value>Center</Value>
</Value>
<Value name="3">
<Value>Code</Value>
</Value>
</Data>
<State>LabCenterState</State>
<StreamLocation>^DKV.LaboCe4177.LabCenterC486S</StreamLocation>
<Type>%Library.CacheSerialState</Type>
}
}
```

I retrieve the message that I want to evaluate

```
> set obj=##class(ListLabCenter).%OpenId(1)
> zw obj
obj=<OBJECT REFERENCE>[2@ListLabCenter]
+----------------- general information ---------------
|        oref value: 2
|        class name: ListLabCenter
|             %%OID: $lb("1","ListLabCenter")
|   reference count: 2
+----------------- attribute values -----------------
|        %Concurrency = 1   <Set>
+----------------- swizzled references ---------------
|      i%ListCenter = ""
|    i%ListCenter(1) = $lb($lb("A08829848","A088298480001",""))
|    i%ListCenter(2) = $lb($lb("A08829848","A088298480002",""))
|    i%ListCenter(3) = $lb($lb("A08829848","A088298480003",""))
|    i%ListCenter(4) = $lb($lb("U66700196","U667001960002",""))
|    i%ListCenter(5) = $lb($lb("U66700196","U667001960003",""))
|      r%ListCenter = "1@%Collection.ListOfObj"
|    r%ListCenter(1) = "3@LabCenter"
+----------------------------------------------------
```

I have to locate a specific object, so I create an object with the data I want to find

```
 > set objFind = ##class(LabCenter).%New()
 > set objFind.LabId="A08829848"
 > set objFind.Center="A088298480003"
 > zw objFind
objFind=<OBJECT REFERENCE>[5@LabCenter]
+----------------- general information ---------------
|        oref value: 5
|        class name: LabCenter
|   reference count: 2
+----------------- attribute values -----------------
```

```
|              Center = "A088298480003"
|                Code = ""
|               LabId = "A08829848"
+------------------------------------------------------
```

I have tried to do the search using the command $LISTFIND but the object is not of type list

```
> w $Listvalid(obj.ListCenter)
0
```

Then I thought about using the command Find de %Collection.ListOfObj but I get an error if I try to find the object

How could I locate the item I am looking for in this collection? I want to avoid using a loop and checking the elements one by one because I don't know how many items I'll have.

Regards,
Francisco López

UPDATE

This is the real scenario.

There is a laboratory that has several centers where blood tests are performed. But the laboratory also belongs to a group of laboratories that are identified with another laboratory code

Example:
Kurro Laboratory - ID: A000001
Centers:

- KC01
- KC02
- KC03

Evgeny Laboratory - ID: A000002
Centers:

- EC01
- EC02
- EC03

Malaga laboratory group - ID: A000003
Centers:

- 01KC01
- 01KC02
- 02EC01
- 02EC03

When a blood test is performed, the laboratories send the information on which insured person has been tested. This information is stored in a database that is updated daily.
The next day, a process recovers all the records from the previous day and that is when I have to retrieve ONLY those from the Kurro laboratory or those associated with the Malaga Laboratorio group.

To find out which laboratory and center identifier the Kurro laboratory belongs to, I have a table that identifies it. My ESB process retrieves it and that is where I have the data (ListLabCenter)

- (A000001 - KC01)
- (A000001 - KC02)
- (A000001 - KC03)
- (A000003 - 01KC01)
- (A000003 - 02KC01)

As I have to evaluate ALL the records of the previous day (one by one), so I was looking for a way to find the insured's information quickly, filtering only by those of the Kurro laboratory.

Is my problem clearer now?

#ObjectScript #Caché

Source URL:https://community.intersystems.com/post/search-object-listofobj