## Dynamic Folders



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#### Comparison of Static and Dynamic Folders

##### Static Folders

The original GG folder type – a static folder – contains a list of items referring to specific database records. The static folder is created at some point in time. If records similar to the records in the list are added later, the static folder does not automatically know about these new records. You would need to manually search the database using your original search criteria and then drag the newly found records to the CT list.

19 records are included in this highlighted folder:Graphical user interface, application, table

Description automatically generated

##### Dynamic Folders

Dynamic folders have an advantage that static folders do not have: a dynamic folder searches the database to ensure the list is current. (Under what conditions a dynamic folder [refreshes](#refresh) is explained in detail later.) Another advantage of setting up a dynamic folder is that the folder retains your search criteria; it eliminates the steps of switching to the search tool and dragging desired records into the Curator Tool.

In this example, only one record met the criteria:  
Graphical user interface, text, application, email

Description automatically generated

##### Static Folders: Advantages

So why use a static folder? First, they are simpler in some respect. Secondly, often you will want to review specific records, and only those records.

Listed below are a few examples of when each folder type is preferable:

|  |  |
| --- | --- |
| **Situation** | **Folder Type** |
| Keep track of a list of records which you are working on from one day to the next – the list doesn’t change | Static |
| List of orders that had been submitted on a specific day  (although there would be a fixed number of records that match the date criteria – a static list would work – a dynamic list could point to that one date – later, the date could be edited to search for orders submitted on a different date) | Static  (or  Dynamic |
| Maintain a list of all accessions for a specific Taxon | Dynamic |
| Review a subset of a site’s inventory based on a certain criterion | Dynamic |
| Track orders based on criteria | Dynamic |

##### Hybrid folders?

Not a good idea. That is, although it can work, it may be confusing to include list items in a dynamic folder:  
A picture containing calendar

Description automatically generated

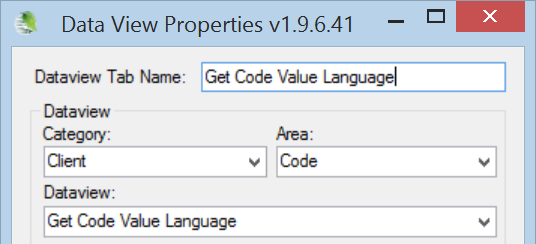
The folder HOPS-CR was established as a dynamic folder, but if you notice, there is a + (expand) icon to the left of the folder icon because an item was added (probably inadvertently). In the displayed list on the right, you might wonder what is going on since the folder was named HOPS. Clicking the + icon to the left of the folder name answers the question – an item had been added:  
Graphical user interface, application

Description automatically generated

#### Dynamic Folder Examples

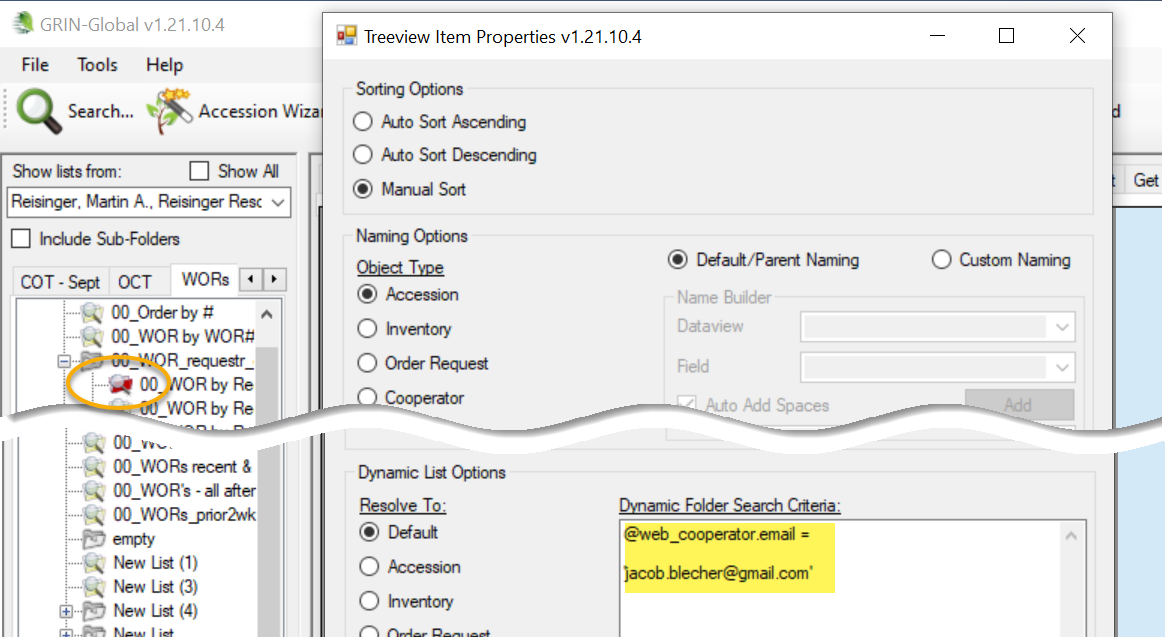
##### Dynamic Folder Examples\*

|  |  |
| --- | --- |
| **Purpose** | **Code** |
| Quick way to find an inventory record (resolve to Inventory).   Since the record is in the CT, you can then edit it (rather than search in the Search Tool and drag the record over to the CT). | @inventory.inventory\_number\_part1 = 'PI' AND @inventory.inventory\_number\_part2 = 600000 |
| Find inventory records created within a specific date range – in this example, between January 1 and January 21, 2022 | @inventory.created\_date >= '1-Jan-2022' and @inventory.created\_date <= '21-Jan-2022' |
| Find orders made in the year 2022 - for a site - distributed orders only - that are not complete  (they do not have a date filled for the COMPLETED\_DATE field. (resolve to Order Request) | @order\_request.ordered\_date LIKE '%2022%' AND  @site.site\_short\_name = 'NC7' AND  @order\_request.order\_type\_code = 'DI' AND  @order\_request.completed\_date IS NULL |
| Find the records whose species is 'Phalaris arundinacea' - the source type indicates records that were collected (as compared to developed or | @taxonomy\_species.name = 'Phalaris arundinacea'  AND  @accession\_source.source\_type\_code = 'COLLECTED'  AND  @geography.country\_code = 'USA' |
| This search is looking for records at the NC7 site whose inventory availability status is low. | @taxonomy\_genus.genus\_name = 'Zea' AND @taxonomy\_species.species\_name = 'mays' AND @taxonomy\_species.subspecies\_name = 'mexicana' AND @site.site\_short\_name = 'NC7' AND @inventory.availability\_status\_code = 'LOW' |

\* When codes are involved, you need to know which codes are valid and can be included in the dynamic folder criteria. Perhaps the simplest way to find all of the existing codes at once is to open the **Get Code Value Language** dataview and then show only the records for your language.  


#### Methods for Creating Dynamic Folders

There are several methods for creating a dynamic folder. Each starts similarly: In the Curator Tool , create an empty folder.

A note about dynamic query criteria: The query text is just that, text. The criteria can be copied from a document, an email, etc. You can send someone query text and they can copy it into the properties box for a folder:  
  


###### Method 1

Switch to the Search Tool; create a query. *Drag* *the code* in the large text box (generated by the QBE) onto the empty folder in the Curator Tool.

###### Method 2

While still in the Curator Tool, right-click on the empty folder. Select **Properties** from the menu. Switch to the Search Tool; create a query. *Copy* the code in the large text box (generated by the QBE) into the **Dynamic Folder Search Criteria** box in the Curator Tool.

#### Refreshing a Dynamic Folder

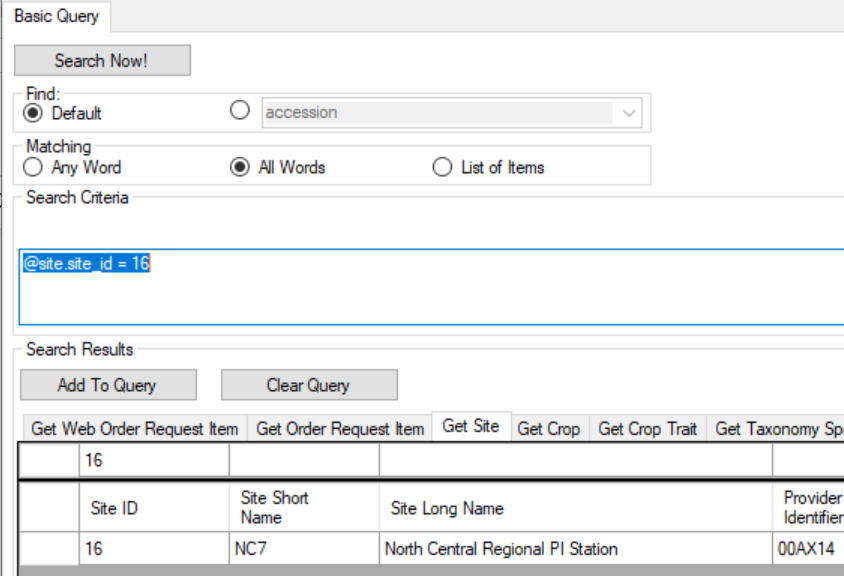
If any new records are added to the GRIN-Global database that meet the folder’s criteria, the records will be displayed when the dynamic folder is the active folder and has been refreshed. You can refresh a dynamic folder by invoking any of the following methods:

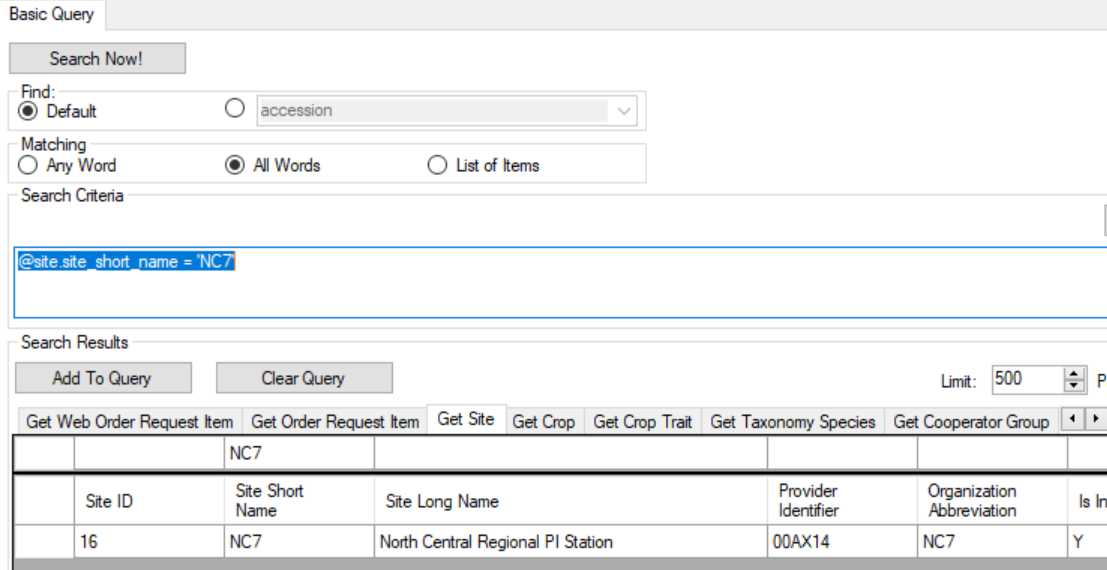
* right-click on the folder and select the **Refresh List** command
* switch to another tab and then back to the tab with the dynamic folder
* switch to another user and return back to the original user
* click the **Refresh Data** button in the right panel
* press F5
* start the CT

#### Making Dynamic Folders More Readable

##### Use Text rather than Primary Key Numbers

|  |  |
| --- | --- |
| **image2449.png** | Try to have the dynamic folder criteria use text values as much as possible and avoid using the primary key ID numbers. (When the code looks similar to “**@accession.taxonomy\_species\_id IN (27512, 27513, 27514),**” it is using primary key numbers. You can usually replace that code with text alternatives by using tables in which the data is stored.  For example:  @order\_request.ordered\_date LIKE '%2022%' AND  @site.site\_id IN (16) AND  @order\_request.order\_type\_code = 'DI' AND  @order\_request.completed\_date IS NULL |

It is difficult to know what **@site.site\_id IN (16) is** really indicating. What site is represented by “16?”   


If we search by NC7...  


The same site record is found. Therefore, the two statements

**@site.site\_short\_name = 'NC7'   
@site.site\_id = 16**

are equivalent (but one is easier to read!)

Here is the new code:

@order\_request.ordered\_date LIKE '%2022%' AND

**@site.site\_short\_name = 'NC7' AND**

@order\_request.order\_type\_code = 'DI' AND

@order\_request.completed\_date IS NULL

Later, if you want to search for orders for a different site, you can exchange the NC7 with the value of another site. For example, **S9**:

**@site.site\_short\_name = 'S9' AND**

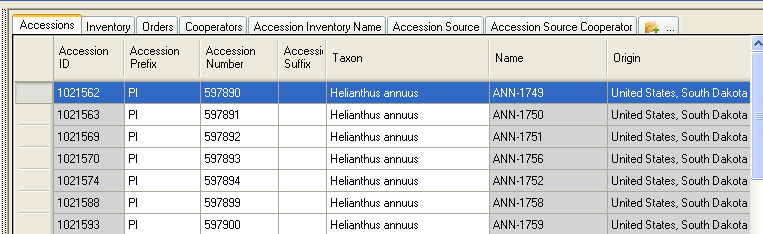
##### Second Text Example: Specifying the Taxon and the Geography

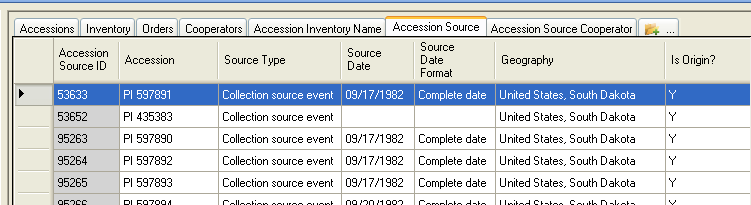
The following dynamic folder works fine, but when reviewing the code, it is difficult to know what species the **27923** is referring to, or what the geography\_id **1041** is referring to.

@accession.taxonomy\_species\_id IN (27923)

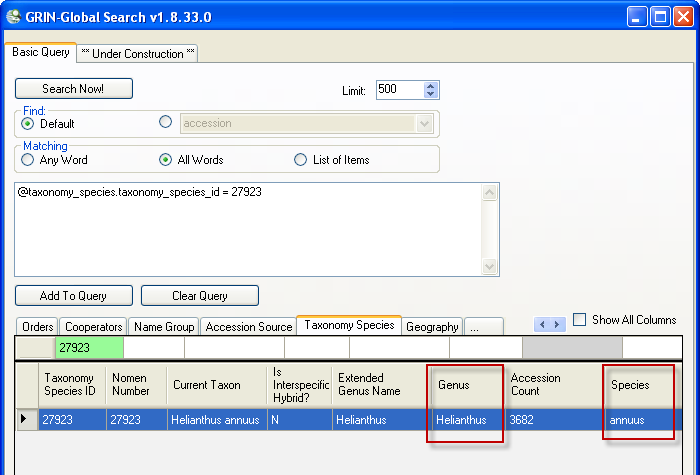
AND @accession\_source.geography\_id IN (1041)

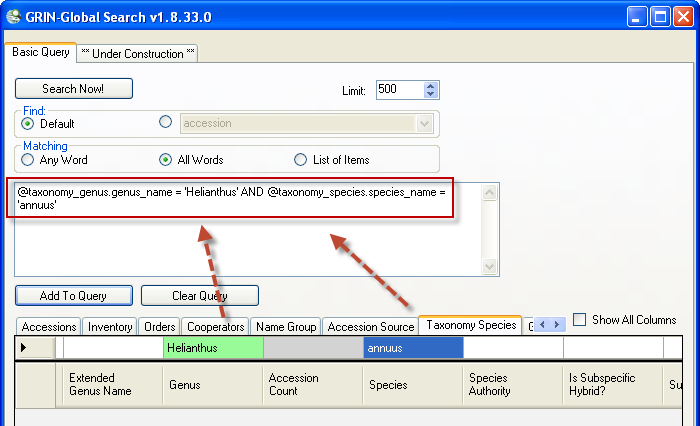
AND @accession\_source.is\_origin = 'Y'

If we display the Accession dataview, we can deduce the species \_id of 27923 is Helianthus annuus and the geography\_id value 1041 must be referring to United States, South Dakota:  


If we display the Accession Source dataview, we can confirm that the geography\_id value 1041 is referring to United States, South Dakota:  


If you want to make the Dynamic Folder easier to understand when you review its criteria some time later, you can use the ID values and substitute for them actual text strings, using the appropriate fields.

For example, starting with @accession.taxonomy\_species\_id IN (27923), if you search in the taxonomy species dataview, the following record will display:  


Notice the two fields for Genus and Species. You can execute a new search and use their QBE cells to generate the search string that uses their text:  


@taxonomy\_genus.genus\_name = 'Helianthus' AND   
@taxonomy\_species.species\_name = 'annuus'

This search clause is essentially doing the same as

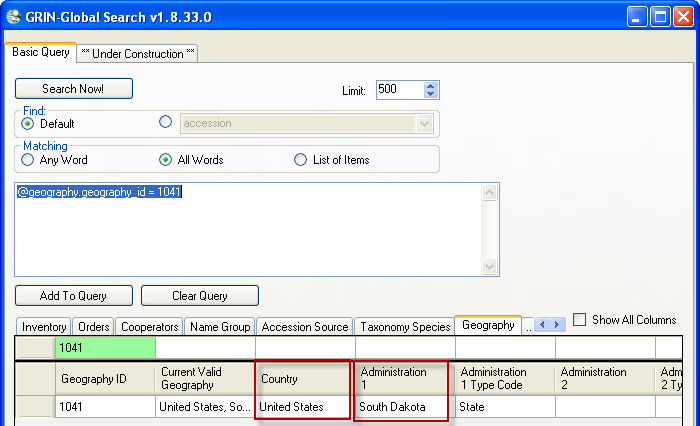
@accession.taxonomy\_species\_id IN (27923)

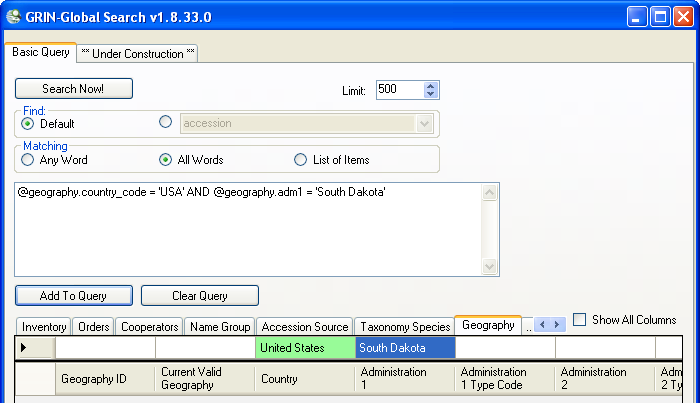
but the first statement is much easier to understand than the other.

Similarly, the following two statements are equivalent, but one is much easier (to a human) to understand:

@geography.geography\_id = 1041

vs. @geography.country\_code = 'USA' AND @geography.adm1 = 'South Dakota'

I use the Geography dataview to determine these field names and values.  


Do a new search, but now I use the **Country** and **Administration 1** cells to run the query:

The codes that is generated in the search text box

@geography.country\_code = 'USA' AND @geography.adm1 = 'South Dakota'

is equal to

@geography.geography\_id = 1041

Back to the original statement at the beginning of this topic; we had:

@accession.taxonomy\_species\_id IN (27923)  
AND @accession\_source.geography\_id IN (1041)  
AND @accession\_source.is\_origin = 'Y'

Now, using what we learned in the examples above, we can assemble a much easier-to-understand statement and store this in the Properties | Dynamic FolderSearch Criteria box:

@taxonomy\_genus.genus\_name = 'Helianthus'   
AND @taxonomy\_species.species\_name = 'annuus'   
AND @geography.country\_code = 'USA'   
AND @geography.adm1 = 'South Dakota'  
AND @accession\_source.is\_origin = 'Y'

In the future, you can edit the folder properties and replace any of the text values to find the desired records.

#### Sample Queries

##### One Accession

@accession.accession\_number\_part1 = 'PI' AND   
@accession.accession\_number\_part2 = 600000

##### Accession Range

( @accession.accession\_number\_part2 > 500000 AND @accession.accession\_number\_part2 < 500100 )

##### Several Accessions

@accession.accession\_number\_part1 = IN ('PI' , 'CRIB') AND   
@accession.accession\_number\_part2 > 500000

##### An Accession – by its name

EGR 1  
(where **EGR 1** is the Accession-Inventory name)

##### One Species

@taxonomy\_species.name = 'Ribes cereum'

##### Born in the USA

@taxonomy\_species.name = 'Helianthus tuberosus'  
AND @accession\_source.source\_type\_code = 'COLLECTED'  
AND @geography.country\_code = 'USA'

##### Collected -USA but not obvious

@accession\_source.source\_type\_code = 'COLLECTED' AND @accession\_source.geography\_id IN (926, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051) AND @accession\_source.is\_origin = 'Y' AND @accession.taxonomy\_species\_id IN (27512, 27513, 27514)

##### Looking for Origin

@accession.taxonomy\_species\_id IN (27923)  
AND @accession\_source.geography\_id IN (1041)  
AND @accession\_source.is\_origin = 'Y'

##### Pending Orders

@order\_request.ordered\_date LIKE '%2022%' AND   
@site.site\_short\_name = 'S9' AND   
@order\_request.order\_type\_code = 'DI' AND   
@order\_request.completed\_date IS NULL

##### Sorghum - KERCOLOR 2 4

@crop.name = 'SORGHUM'   
AND @crop\_trait.coded\_name = 'KERCOLOR'  
AND @crop\_trait\_code.code IN ('2', '4')

##### Looking for available inventory

@taxonomy\_genus.genus\_name = 'Zea' AND   
@taxonomy\_species.species\_name = 'mays' AND   
@taxonomy\_species.subspecies\_name = 'mexicana' AND   
@site.site\_short\_name = 'NC7' AND   
@inventory.availability\_status\_code = 'LOW'

##### Looking for low inventory

@inventory\_maint\_policy.maintenance\_name LIKE 'NC7-maize.pop%' AND   
@inventory.is\_distributable = 'Y' AND   
@inventory.is\_available = 'Y' AND @inventory.availability\_status\_code = 'AVAIL' AND @inventory.quantity\_on\_hand < 1500