

# Languages and GRIN-Global

---

Updated April 27, 2012



## Contents

GRIN-Global and Languages.....	2
Overview .....	2
Language-related Database Items in GRIN-Global.....	2
Adding a Language to GRIN-Global.....	4
Overview .....	4
Table & Dataview Field Names .....	5
Overview .....	5
Storing Language-Friendly Column Heading Names at Two Levels (Overview) .....	5
Changing the Default Language-friendly Column Heading Names.....	7
Overriding a Dataview's Default Column Heading Names.....	11
Reviewing the Entries in the dbo.sys_dataview_field_lang Table.....	12
export_dataview_fields.....	13
import_dataview_fields .....	15
Application Resources.....	18
Overview .....	18
Correcting an Individual AppResource Item .....	20
Mass Editing AppResource Items (or Adding Items When Adding a New Language) .....	20
Titles and Descriptions.....	22
Overview .....	22
Exporting Titles and Descriptions.....	23
Importing Titles and Descriptions .....	24
Code Groups.....	26
Overview .....	26
Determining Where Code Groups are Used .....	27
<b>Appendix</b> .....	<b>29</b>
Deleting a Dataview .....	29
Overview .....	29
Step-by-step Directions.....	29

## GRIN-Global and Languages

### Overview

The default GRIN-Global (GG) software and interface is in English; however, GG was designed to handle an unlimited number of languages. GRIN-Global stores the language information in its database, in the same way that it stores curatorial data. Your organization can work with GG in any language, but you must first import the language data into GG. After this is completed, users can then interact with GG in their preferred language. This section explains what language data must be supplied.

The following languages are included in Version 1.0:

- English
- Spanish
- Russian
- French
- Arabic



The language used for the interface is distinct from the language used to store the curatorial data. For example, you can run the system in English, but store all of your data in Spanish. Conversely, you could store your data in English, but use Spanish for your preferred interface language.

Directions for adding another language to the GG database are described later in the section *Adding a Language to GRIN-Global* on page 2.

### Language-related Database Items in GRIN-Global

Initially, if the language to be used is already installed, your organization should review the translations for that language. If necessary, to meet specific organizational needs, the administrator may need to edit some of the language translations manually or even sometimes may need to export an extensive set of language translations from GG and then re-import them back into the GG database after editing them.

The following language-related items are stored in the GG database:

#### 1. Table & Dataview Field Name Titles

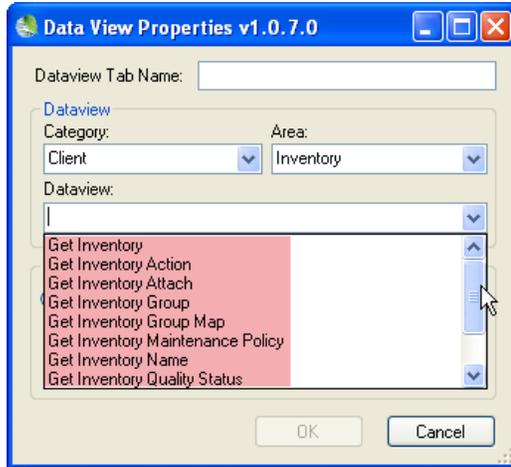
These field name titles are the “language-friendly names” that display as the column headings in the Curator Tool. (These names are stored in two tables: **dbo.sys\_table\_field\_lang** and **dbo.sys\_dataview\_field\_lang**. Detailed information explaining why two tables are used for storing the table field translations is in a subsequent section of this document.)

#### 2. Application Resources

This table stores the “language-friendly text” for the buttons, check boxes, radio buttons, text objects, error messages, labels and titles for all GG user applications such as the Curator Tool or the Public Website, so that these applications can display their interface in any language. (These interface objects are stored in the **dbo.app\_resource** table.)

### 3. Titles and Descriptions for Dataviews

In the Curator Tool, a user can select a dataview from a list when adding a tab for that dataview to the grid. The titles are displayed in the user's currently-selected language. (These titles (and descriptions) are stored in the database in the **dbo.sys\_dataview\_lang** table.)



### 4. Group Names & Code Values

Some GRIN-Global fields restrict the user to selecting from a set of possible values. These code values are stored in the **dbo.code\_value** and **dbo.code\_value\_lang** tables. After editing, when a curatorial record is stored, the value selected from the code table is stored in the record's field.

For example, the inventory record has a **Pathogen Status** field. There are four possible statuses: **FREE**, **INFECTED**, **TESTED**, or **UNTESTED**. If the user completes this field, one of these four values must be selected.

## Adding a Language to GRIN-Global

### Overview

The five installed languages included in the GG 1.0 database are listed on page 2. If one of these is the language that you intend to run GG under, then this section can be skipped. (There is no compelling reason to remove the “extra” languages. Even if never used, they do not impact run time or create any additional overhead.)

If a language that is intended to be used is not installed, then the organization’s administrator will add the language to the GG **sys\_lang** table via the **get\_system\_language** dataview.

### The System Language Dataview

The following screen illustrates the fields that are defined for a language:

Get System Language	Accessions	Cooperators	Get Accession Name	Get Accession Source Cooperator	Get Code Value	Get Ap
Sys Lang ID	ISO 639 3 Tag	IETF Tag	Script Direction	Title	Description	Cre.
1	ENG	en-US		English	For ISO 639-3 codes, see <a href="http://en.wikipedia.org/wi...">http://en.wikipedia.org/wi...</a>	1/9/
2	SPA	es-419		Español	Esta es descripción de español	1/9/
3	FRA	fr-FR		Français	C'est la description française	8/4/
4	ARA	ar	RTL	ةيبرعلا	ةيبرعلا فصوص اذه	8/4/
5	RUS	ru-RU		Русский	Это российский описание	8/4/
6	POR	pt-BR		Português	Esta é descrição portuguesa	8/4/
7	CES	cs		Český	Popis je český	9/20
8	SYS	en-SYS		System	System field values.	11/7
9						1/9/

To include a new language in GRIN-Global, in the Curator Tool open the **Get System Language** dataview and add a new record. (The dataview fields are described below.)

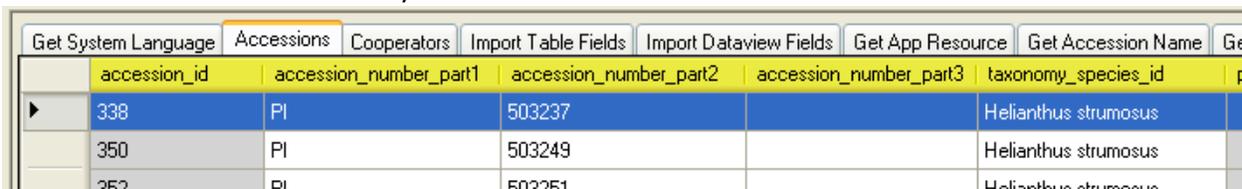
### From the Data Dictionary

Field	Description
ISO 639 3 Tag	The ISO 639-3 representation for the language. e.g. “ENG” See <a href="http://en.wikipedia.org/wiki/ISO_639-3">http://en.wikipedia.org/wiki/ISO_639-3</a> and <a href="http://www.sil.org/iso639-3/codes.asp?">http://www.sil.org/iso639-3/codes.asp?</a>
IETF Tag	The value in this field must be unique for every language row in the table. The value in this field represents the IETF language tag for the language. e.g. “en-US” See <a href="http://en.wikipedia.org/wiki/IETF_language_tag">http://en.wikipedia.org/wiki/IETF_language_tag</a>
Script Direction	Direction in which the language is displayed. “RTL” means “right to left.” All other values are interpreted as “left to right.”
Title	A human-friendly title for the language, e.g. “English”
Description	A human-friendly description for the language, e.g. “United States English”

## Table & Dataview Field Names

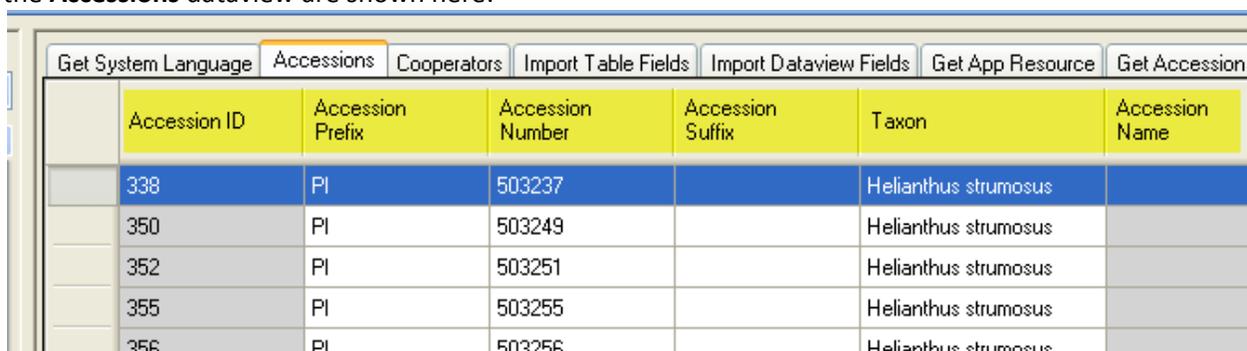
### Overview

The actual database names for the column headings are more technical than friendly; fortunately the Curator Tool user doesn't normally see these:



	accession_id	accession_number_part1	accession_number_part2	accession_number_part3	taxonomy_species_id	
▶	338	PI	503237		Helianthus strumosus	
	350	PI	503249		Helianthus strumosus	
	352	PI	503251		Helianthus strumosus	

Instead, the CT user sees “language-friendly names” displayed. Some of the English friendly names for the **Accessions** dataview are shown here:



	Accession ID	Accession Prefix	Accession Number	Accession Suffix	Taxon	Accession Name
	338	PI	503237		Helianthus strumosus	
	350	PI	503249		Helianthus strumosus	
	352	PI	503251		Helianthus strumosus	
	355	PI	503255		Helianthus strumosus	
	356	PI	503256		Helianthus strumosus	

This is the same Accession dataview, but it is displaying its Spanish column heading names:



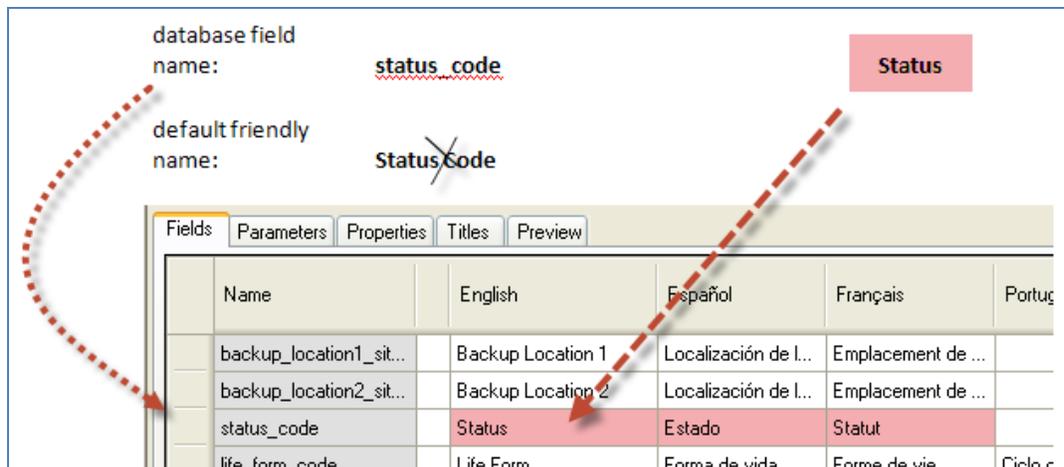
	ID de la accesión	Prefijo de la accesión	Número de la accesión	Sufijo de la accesión	Taxón	Nombre de la accesión	Origen
	338	PI	503237		Helianthus strumosus		
	350	PI	503249		Helianthus strumosus		
	352	PI	503251		Helianthus strumosus		
	355	PI	503255		Helianthus strumosus		

These column headings in the Curator Tool are modifiable since they are stored as system data in the GG database. (This data is referred to as *system* data in contrast to the curatorial data that is used for accession management.)

### Storing Language-Friendly Column Heading Names at Two Levels (Overview)

Organizations can decide what specific text will be displayed for each column heading.

For example, in the main accession dataview, when viewing in English, the user will see “**Status**” as the heading for the **status\_code** field (“**status\_code**” is the actual database field name.) For each language, “**status\_code**” is replaced with a language-specific name. In Spanish, the language-friendly translation is “**Estado**,” and in French it is “**Statut**.”



If an organization has added a new language to GRIN-Global, then all of the language-friendly, column-heading names for that language also need to be added to the database by the administrator.

As background, “friendly” heading names can be defined at two levels:

- *table/field* level
- *dataview/field* level

The table/field friendly heading name serves as the default heading name whenever a new dataview is created. For example, any new dataview that points to **accession.accession\_id** will automatically receive “Accession ID” for its English friendly name.

However, an administrator editing a dataview can override a default heading by modifying it in the Admin Tool’s dataview editor. For example, “Accession ID” is the default heading for the **accession.accession\_id** field. But in one particular dataview it might be desirable to have “Accession” instead. To override the default “Accession ID,” the administrator editing the dataview would simply replace the text “Accession ID” in the dataview editor with “Accession.” When the change to the dataview is saved to the database, the translation text “Accession” is saved to the database at the dataview/field level.

Note that the value of the heading stored at the *table/field* level is left unchanged –only the value of the heading stored at the *dataview/field* level is changed. All the other dataviews pointing to **accession.accession\_id** will continue to display the default heading name “Accession ID.”

Why the apparent duplication? The table/field friendly name is a fallback if nothing is specified at the dataview/field level. Almost all of the GRIN-Global dataviews currently use table/field as the friendly name source. One important reason for using the table/field level translations as the primary translation storage place is this: if a change is made to the translation of a heading at this level, it will flow down to all of the dataviews using the default heading translation –none of those dataviews will need to be modified.

### *Changing a Dataview’s Language-friendly Column Heading Names*

There are two very different approaches for changing the column-heading names;

- change the entire set of default heading names at one time (updating the defaults heading names stored in the **dbo.sys\_table\_field\_lang** table)

- edit individual heading names for specific dataviews (thus overriding the default friendly names; updating the **dbo.sys\_dataview\_field\_lang** table)

### Changing the Default Language-friendly Column Heading Names

The pair of dataviews with “table” in their name is used to manage the default language-friendly column heading names. The other pair, with “dataview” in their name, is used to override the default names.

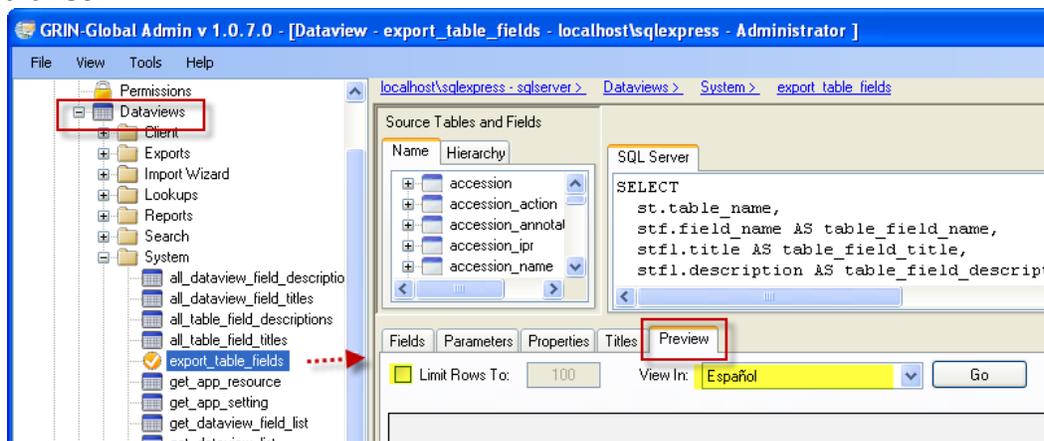
Dataview	Description
export_table_fields	Export the default, language-friendly column headings from GG into a spreadsheet. Also provides a side-by-side comparison of the English names with the language selected when the dataview is invoked.  These default dataview heading names are stored in the <b>dbo.sys_table_field_lang</b> table.
import_table_fields	An Import Wizard dataview for importing the data back into GG.
export_dataview_fields	Use this dataview to review and edit the language-friendly column heading names that have been modified.
import_dataview_fields	This dataview is accessed via the Import Wizard to import the data back into GG. It updates the data stored in the <b>dbo.sys_dataview_field_lang</b> table.

#### *Exporting the Default Friendly Column Headings from GG into a Spreadsheet*

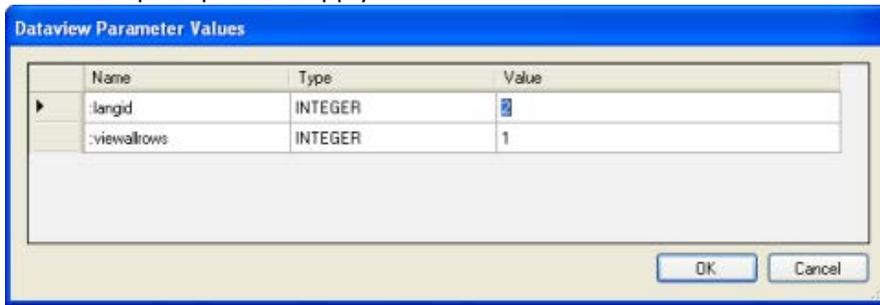
##### **export\_table\_fields**

In the Admin Tool, open the **export\_table\_fields** dataview; in the editor window, switch to **Preview** tab.

Deselect (remove the check) in the **Limit Rows to 100** checkbox. In the **View In** box, select the language to be used – generally this language will be the same as the language of the records you are exporting; click **Go**.



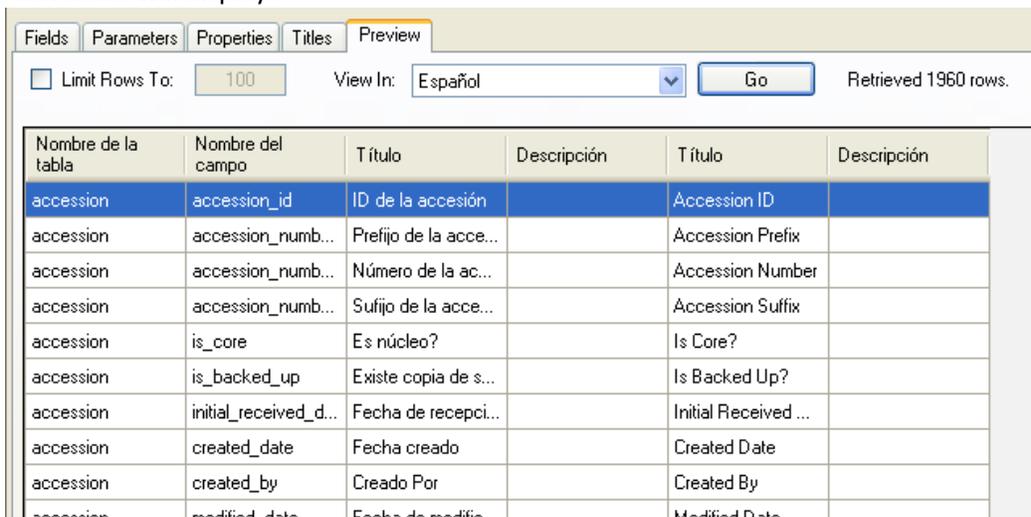
You will be prompted to supply two values in the dataview Parameter Values window:



The first row is looking for the **Sys Lang(uage) ID** value – see page 2 or the table below. In the example, “2” was entered for the first parameter, indicating Spanish (Español); for the second parameter always input “1”– this indicates that all rows will be selected.

Sys Lang ID	Title
1	English
2	Español
3	Français
4	ةيبرعلا
5	Русский
6	Português
7	Český
8	System

The results will display:



This **export\_table\_fields** dataview was designed to list the field names for the specified language as well as the English friendly names for comparison. Currently, in 1.0, the **Description** field is not being used and can be ignored.

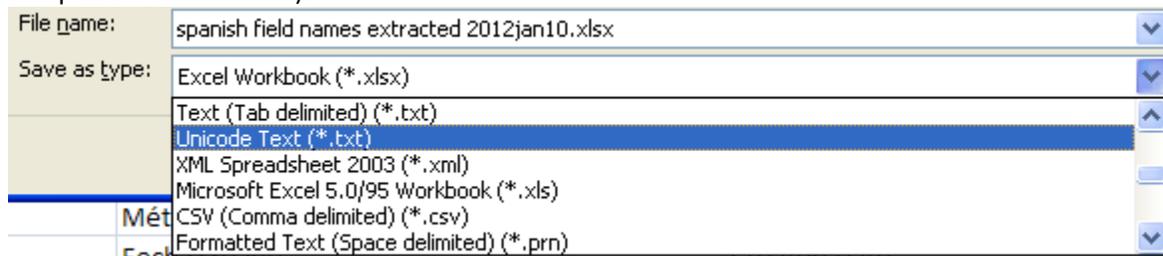
Select all the records and copy into an Excel spreadsheet. (In an English keyboard, the Windows shortcut keys **Ctrl-A** will select all rows and **Ctrl-C** will copy them to the clipboard.)

Results pasted into an Excel spreadsheet:

	A	B	C	D	E	F
1	Nombre de la tabla	Nombre del campo	Título	Descripción	Título	Descripción
2	accession	accession_id	ID de la accesión		Accession ID	
3	accession	accession_number_part1	Prefijo de la accesión		Accession Prefix	
4	accession	accession_number_part2	Número de la accesión		Accession Number	
5	accession	accession_number_part3	Sufijo de la accesión		Accession Suffix	
6	accession	is_core	Es núcleo?		Is Core?	
7	accession	is_backed_up	Existe copia de seguridad?		Is Backed Up?	

In Excel, edit the **Titles** in column **C** and save your changes. (In the example shown here, the titles are the Spanish (Español) titles.)

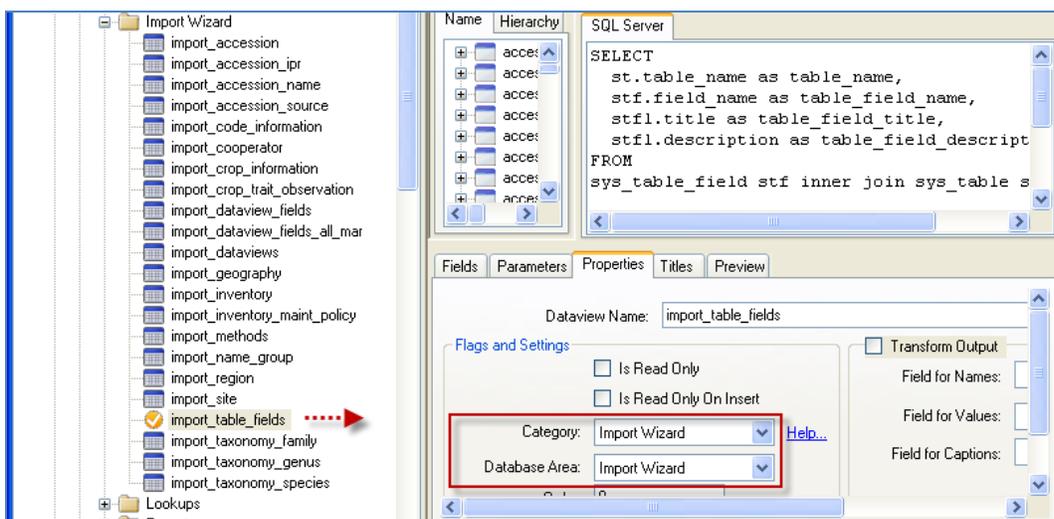
When saving, use the **Unicode Text (\*.txt)** format as shown below. This choice will automatically save the file as tab-separated-values with Unicode encoding (which is needed for double-byte languages such as Japanese and Chinese).



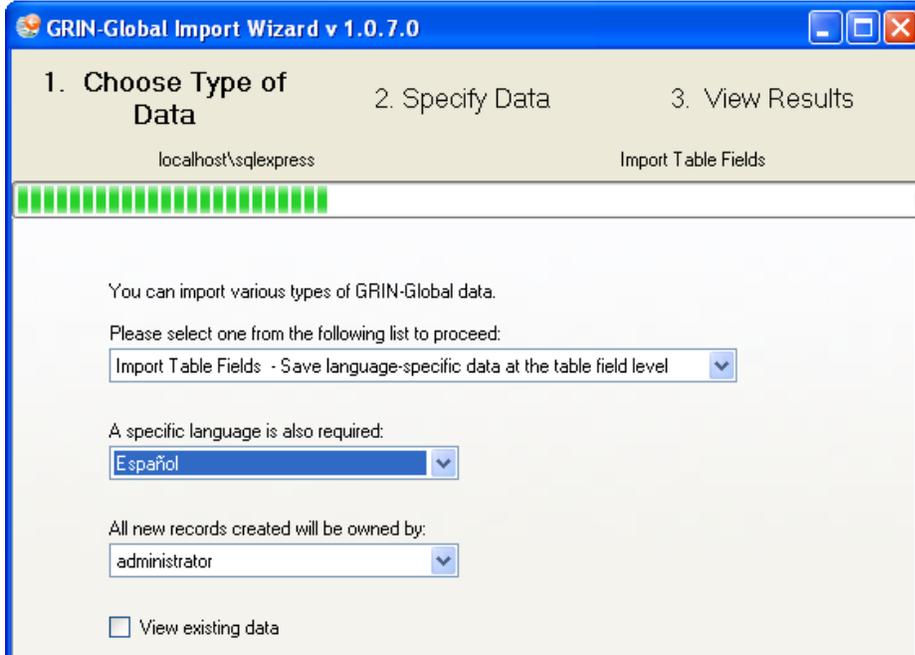
### import\_table\_fields

To import the data back into GG, in the Admin Tool, use the Import Wizard dataview (**import\_table\_fields**) that has been designed for that purpose.

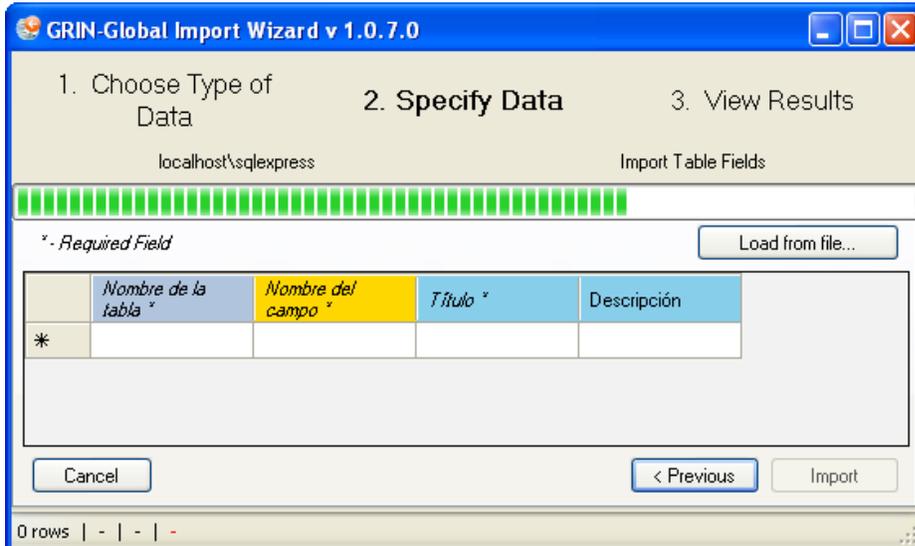
Note that when GG is initially installed, this dataview might be listed under **System** and not **Import Wizard**. If that is the case, change the **Category** and **Database Area** properties for the **import\_table\_fields** dataview.



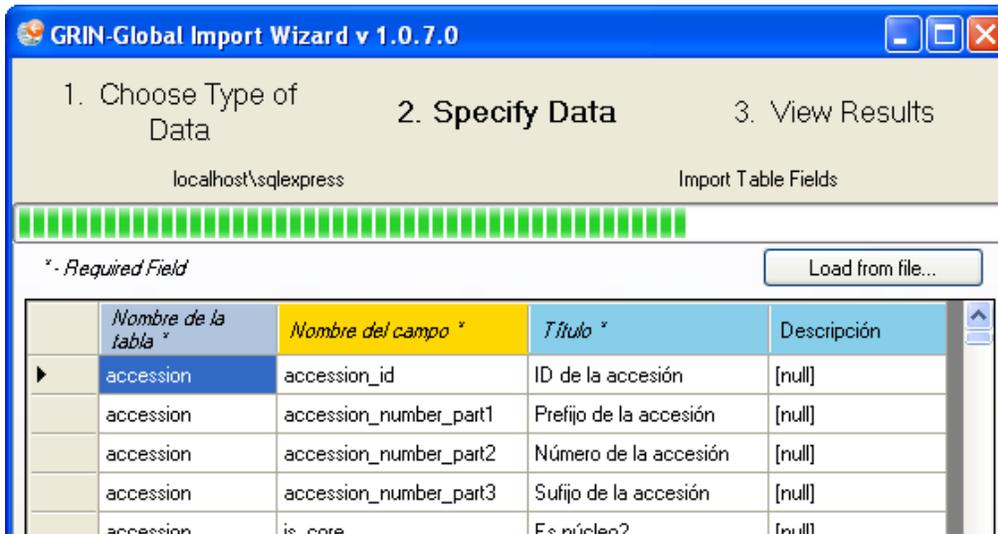
In the Admin Tool, start the Import Wizard and select “**Import Table Fields – Save Language-specific data...**” Select the language (Spanish is shown):



In Excel, copy the first four columns, A through D, from your spreadsheet that was discussed earlier in the section *export\_table\_fields* on page 9. Then paste the data into the grid in the Import Wizard (alternatively, click the **Load from file...** button and import the .txt file you created); click the **Import** button.



Results:



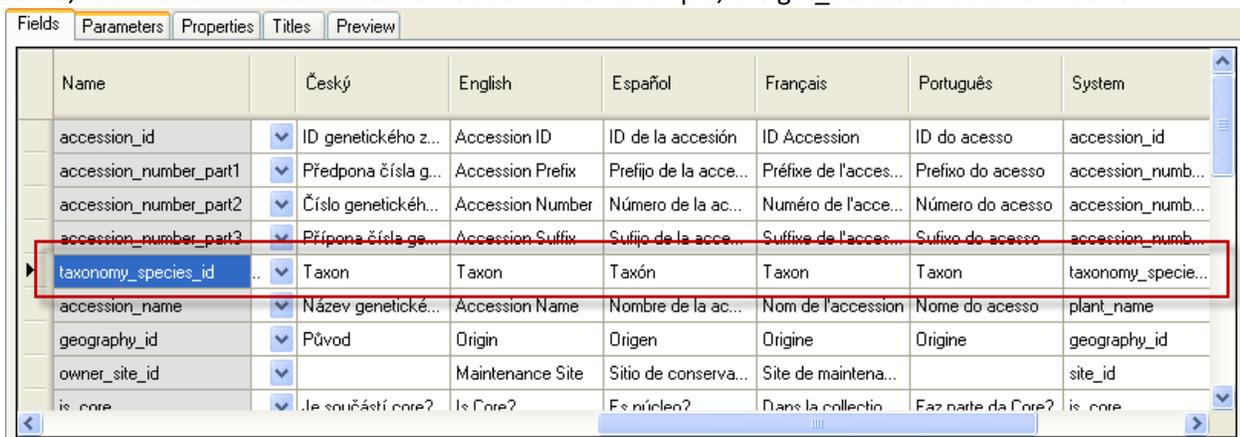
There is no need to export/import the entire set of records for a language if you just intend to change one or a few rows. You can export them all, and then in a spreadsheet, selectively choose and edit the records that you intend to modify. Import only the modified records, but remember to include the header row (to correspond with the IW's headings.)

By completing the instructions above, you have successfully replaced the default, language-friendly heading names in the **dbo.sys\_table\_field\_lang** table.

## Overriding a Dataview's Default Column Heading Names

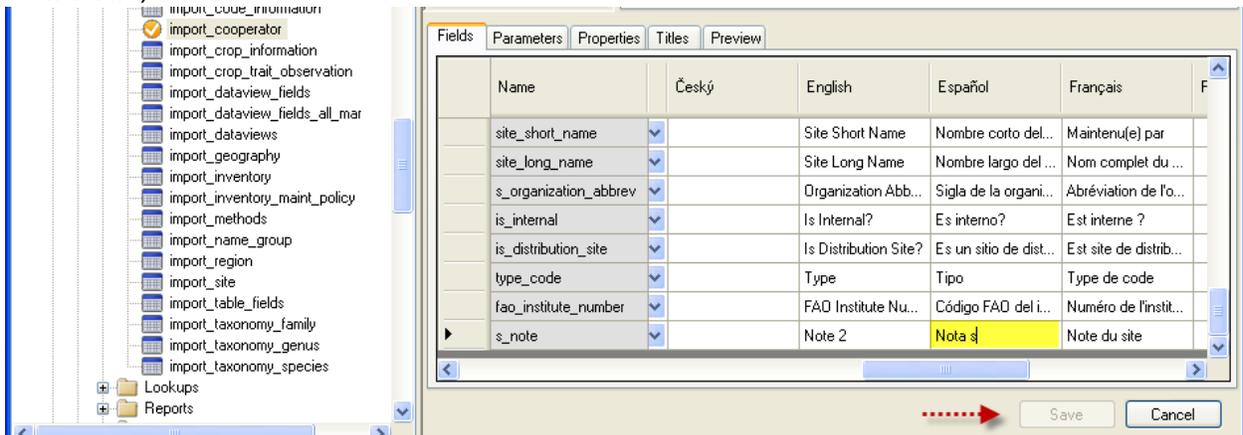
### *Manually / individually*

To edit a single dataview's language-friendly name and to override the default language-friendly heading name, use the Admin Tool's dataview editor. As an example, the `get_accession` dataview is shown:



If for some reason your organization did not want “Taxon” as the heading, the administrator could edit the heading by using the dataview editor in the Admin and modify the text used for the heading. Note that the dataview editor displays the friendly names for every installed language.

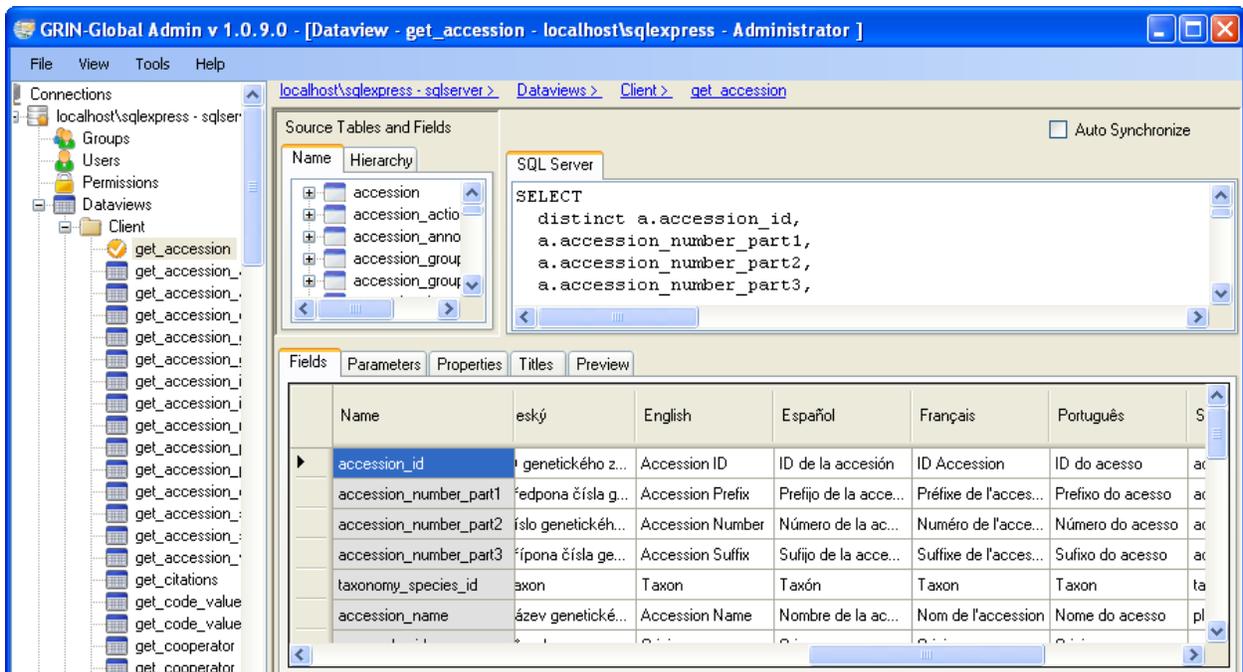
Input the new heading text under the respective language column; click the **Save** button. In the example shown here, the



Note that manually editing a dataview’s language-friendly column heading name in the dataview editor as explained above does not change the heading of the same field when it is used in other dataviews. If you want to change the table field’s language-friendly heading-name for all dataviews, follow the directions described in the section beginning on page 7.

### Reviewing the Entries in the `dbo.sys_dataview_field_lang` Table

The default language-friendly column names are stored in the `dbo.sys_table_field_lang` table. We mentioned that the default language-friendly column names can be manually overridden by the administrator using the Admin Tool’s dataview editor. For example, shown is the `get_accession` dataview:



When friendly names of specific columns are manually edited, these names are stored in the **dbo.sys\_dataview\_field\_lang** table.

In a new installation, it may be desirable for the organization’s administrator to review all existing entries in the **dbo.sys\_dataview\_field\_lang** table that were provided in the installation. The following directions explain how to review the table.

### export\_dataview\_fields

Use the **export\_dataview\_fields** dataview to review and edit the language-friendly column heading names that have been modified.

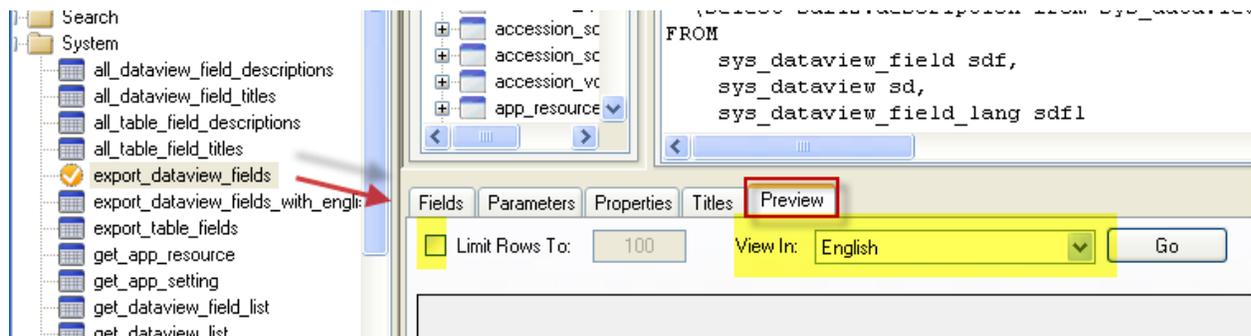
The directions for exporting and then importing back into GG the dataview fields follow the same flow as the directions for exporting and importing back the table field names that were described on page 7, except that you use the **export\_dataview\_fields** and **import\_dataview\_fields** dataviews.

Note: the spreadsheet file will have fewer records than the spreadsheet created when the table field names were exported because there are not many dataviews overriding the default column heading names.

#### Detailed Steps

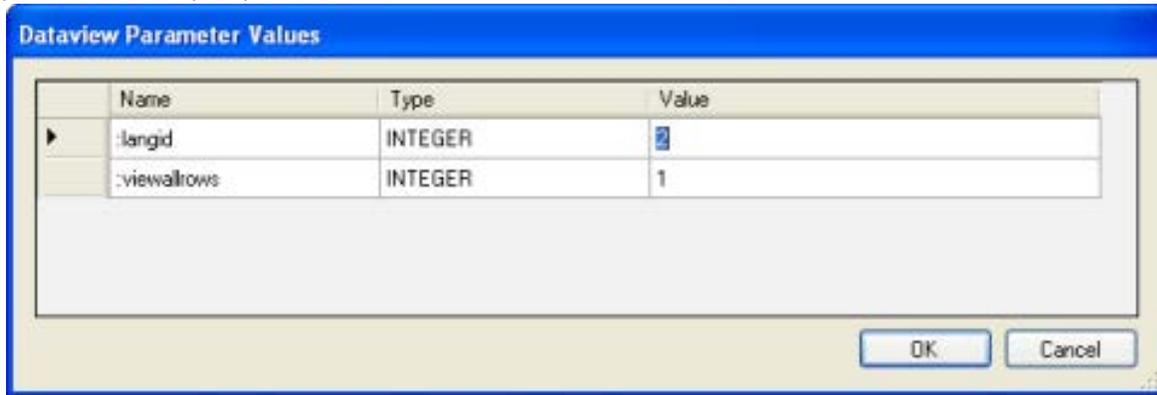
In the Admin Tool, open the **export\_dataview\_fields** dataview; in the editor window, switch to **Preview** tab.

Deselect (remove the check) in the **Limit Rows to 100** checkbox. In the **View In** box, select the language to be used – generally this language will be the same as the language of the records you are exporting; click **Go**.



You will be prompted to supply two values in the dataview Parameter Values window. The first row is looking for the **Sys Language ID** value – see page 2 or the table below the following graphic. In the example, “2” was entered for the first parameter, indicating Spanish (Español); for the second

parameter always input “1”– this indicates that all rows will be selected.



Sys Lang ID	Title
1	English
2	Español
3	Français
4	
5	Русский
6	Português
7	Český
8	System

In the following example, the Spanish entries are displayed. Highlighted are the two language-friendly column names that had been overridden for the get\_accession dataview:

System  Limit Rows To: 100 View In: Español Go Retrieved 457 rows

Nombre de la Vista	Nombre del campo de la Vista	Título de campo de la Vista	Descripción del campo de la Vista	Título en Inglés	Descripción en Inglés
get_accession	geography_id	Origen		Origin	
get_accession	owner_site_id	Sitio de conservación		Maintenance Site	
get_accession_citation	type_code	Tipo de referencia		Reference Type	
get_accession_quarantine	geography_id	Geografía del coopera...		Quarantining Coo...	
get crop trait code	code description	Descripción del código		Code Description	

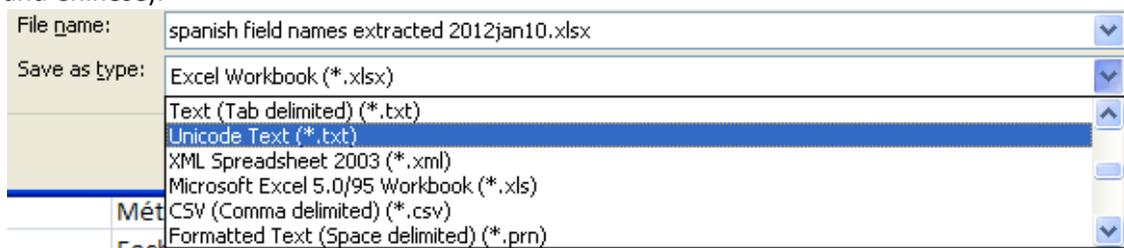


In 1.0, currently the **Description** field is not being used and can be ignored.

Select all the records and copy into an Excel spreadsheet. (In an English keyboard, the Windows shortcut keys **Ctrl-A** will select all rows and **Ctrl-C** will copy them to the clipboard.)

	A	B	C	D	E	F
	Nombre de la Vista	Nombre del campo de la Vista	Título de campo de la Vista	Descripción del campo de la Vista	Título en Inglés	Descripción en Inglés
1						
2	accession_lookup	value_member	Valor miembro		Value Member	
3	accession_lookup	display_member	Miembro desplegado		Display Member	
4	accession_name_loo kup	value_member	Valor miembro		Value Member	
5	accession_name_loo kup	display_member	Miembro desplegado		Display Member	
6	accession_source_lo okup	display_member	Miembro desplegado		Display Member	

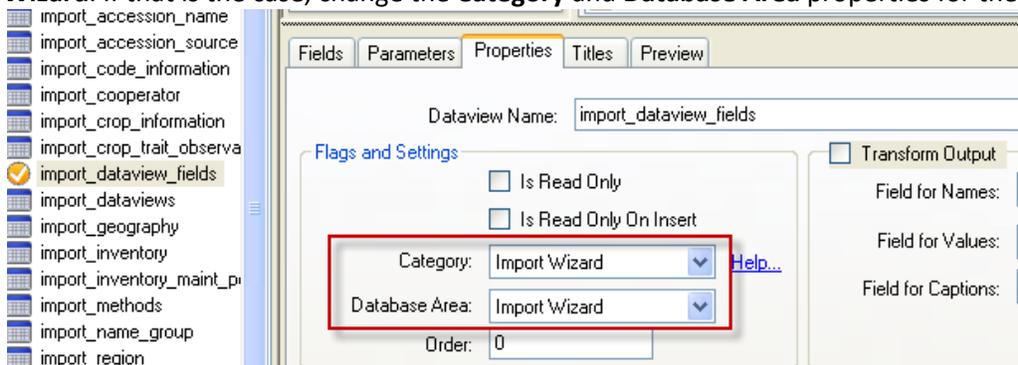
In Excel, edit the **Titles** (Column C) in the language and save your changes. When saving, use the **Unicode Text (\*.txt)** format as shown below. This choice will automatically save the file as tab-separated-values with Unicode encoding (which is needed for double-byte languages such as Japanese and Chinese).



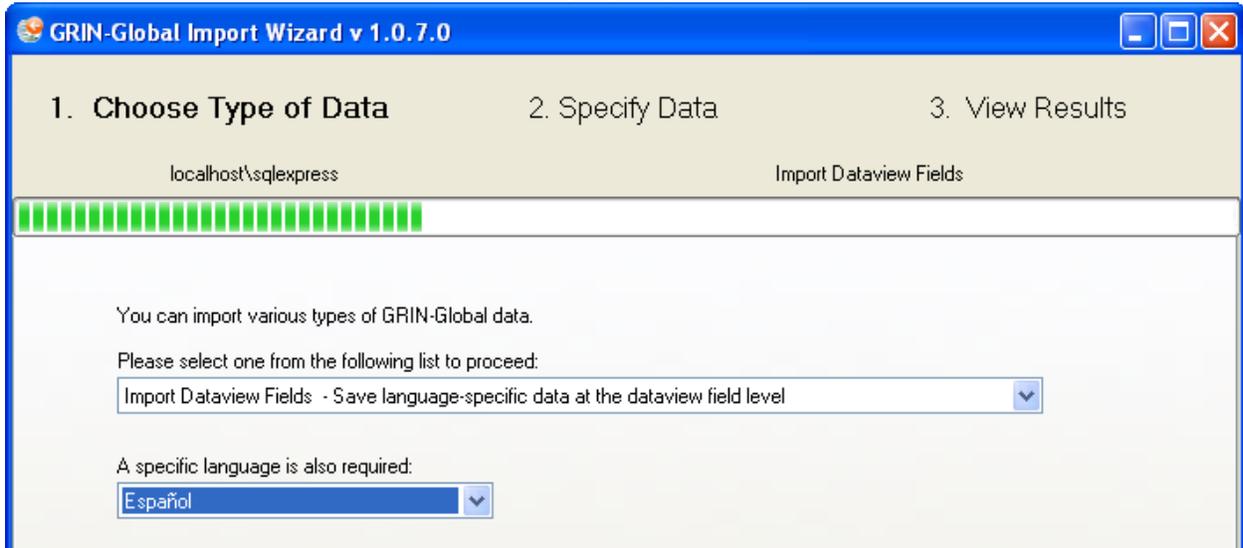
### import\_dataview\_fields

To import the data back into GG, in the Admin Tool, use the Import Wizard dataview (**import\_dataview\_fields**) that has been designed for this purpose.

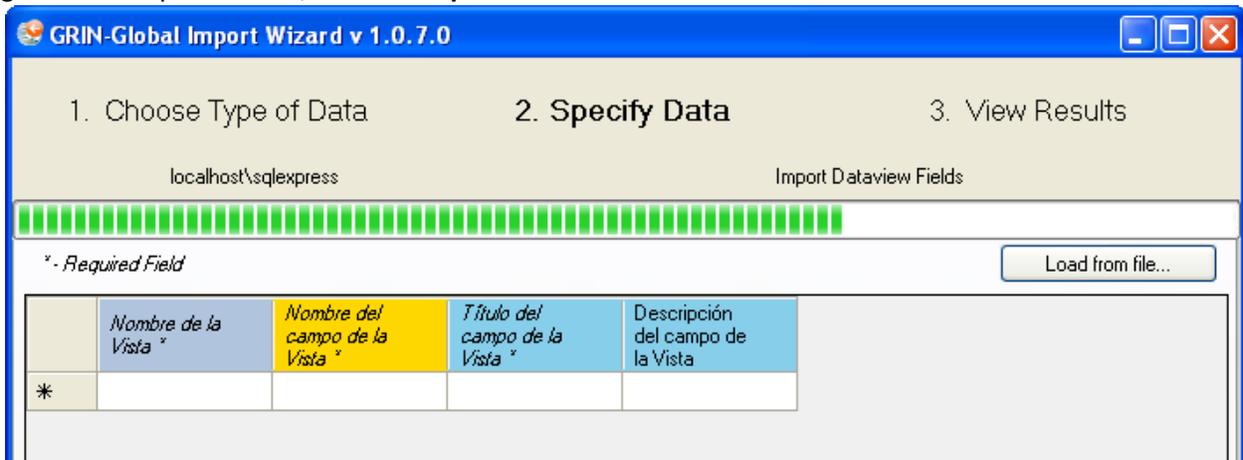
Note that when GG is initially installed, this dataview might be listed under **System** and not **Import Wizard**. If that is the case, change the **Category** and **Database Area** properties for the dataview.



In the Admin Tool, start the Import Wizard and select “**Import Dataview Fields – Save Language-specific data at the dataview field level.**” Select the language (Spanish is shown):

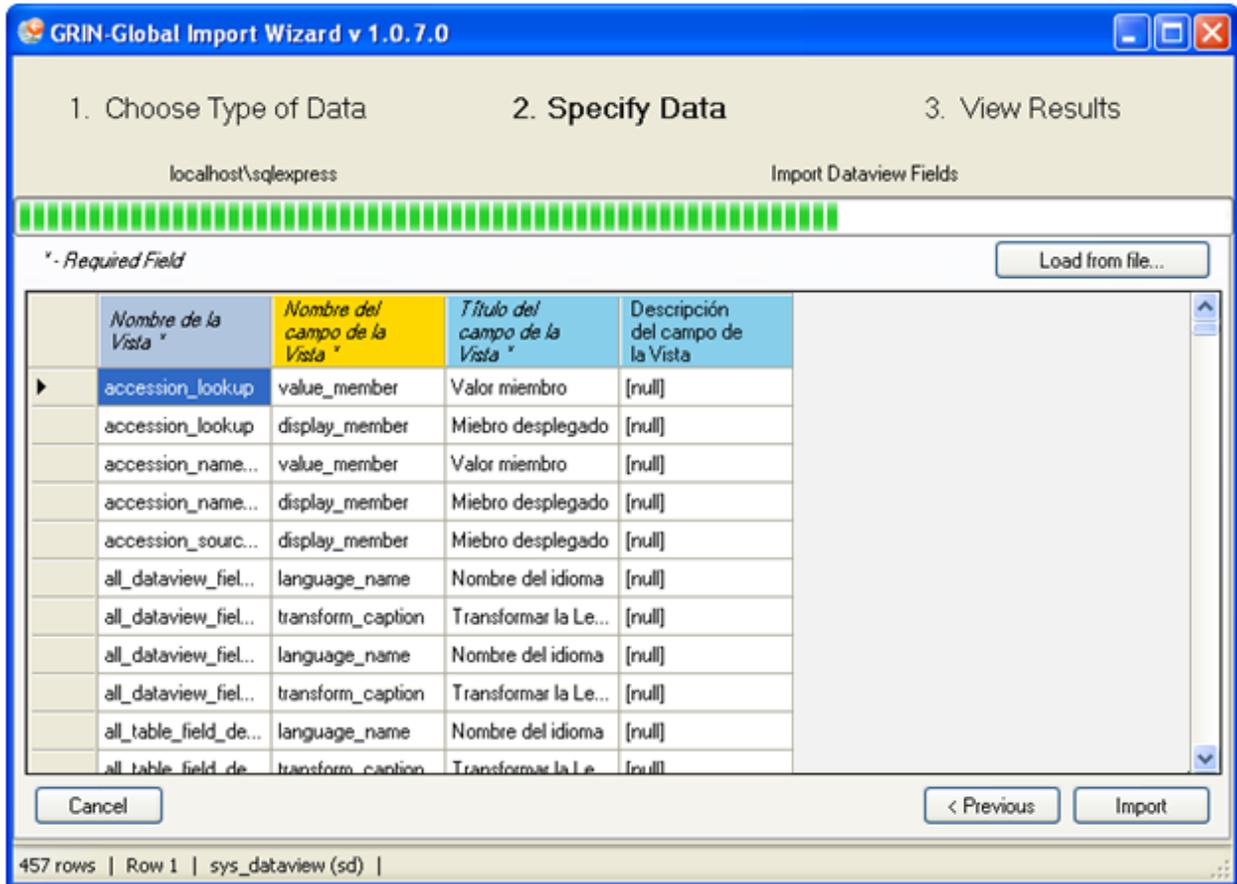


In Excel, copy the first four columns, A through D, from your spreadsheet; then paste the data into the grid in the Import Wizard; click the **Import** button.



As with all Import Wizard imports, the spreadsheet headings must match exactly with the Import Wizard headings.

Results:

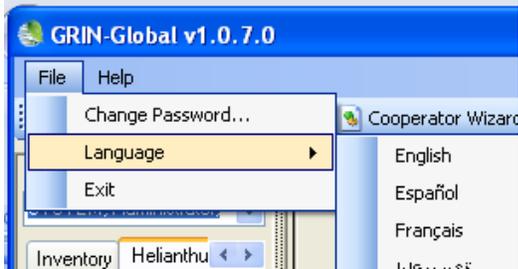


Whenever a dataview has a friendly name added or edited, a record is added to the **dbo.sys\_dataview\_field\_lang** table in the database. If for some reason at a later time the friendly name is to be removed from this table, it will be necessary to delete the modified dataview and then import the dataview back into GG. Complete directions for completely deleting and replacing a dataview are included in the Appendix under the section titled: "Deleting a Dataview."

## Application Resources

### Overview

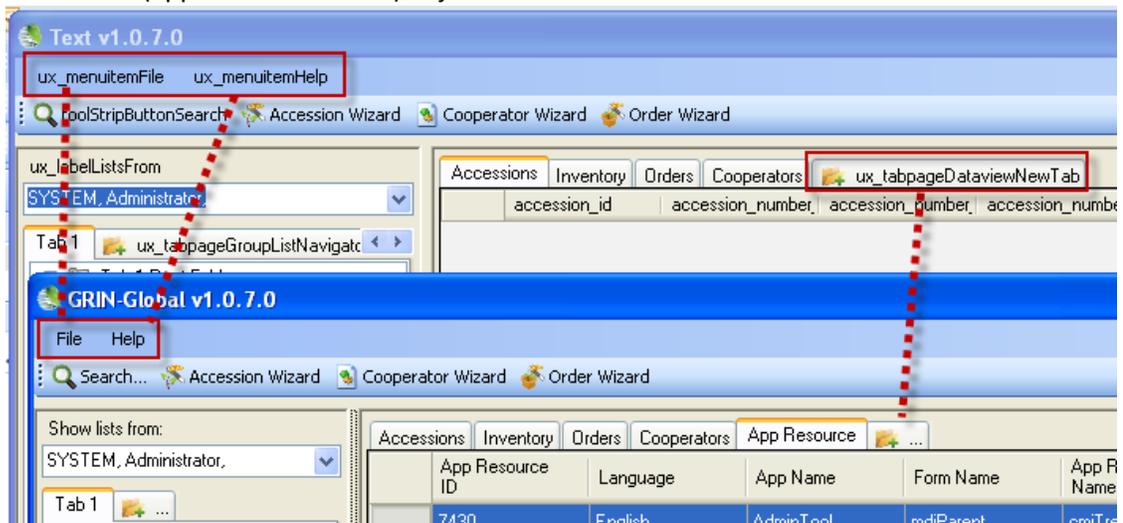
When defining a new user, the administrator also assigns a default language for the user. Throughout the Curator Tool and Admin Tool interface, text items can be displayed in the user's default (ideally his preferred) language. However, in the CT, the user can also select a different language via **File** on the main menu:



Each language displays its respective labels in the windows, boxes, and buttons. For example, the label above the treeview on the Curator Tool window displays "Show lists from:" in English and "Mostrar las listas de:" in Spanish:



You can have multiple CT windows open – this is very helpful when determining the system name of an (application resource) object:

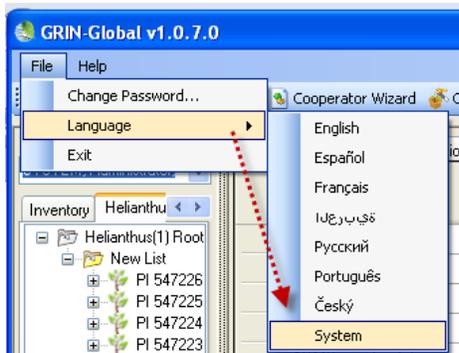


So where are these labels stored? In GRIN-Global’s **dbo\_app\_resource** table. As the administrator, you can edit these text items to meet your organization’s needs. The Curator Tool has a dataview in which you can display all of these “application resource” items. You can also use this dataview to copy the text data into a spreadsheet for further editing or quick mass updating.

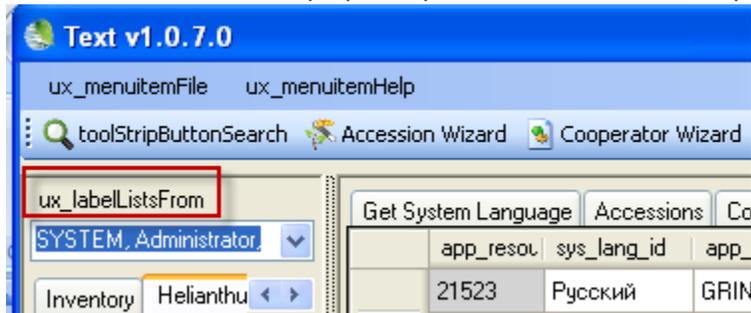
App Resource ID	Language	App Name	Form Name	App Resource Name	Display Member
19185	English	GRINGlobalClientCuratorTool	GRINGlobalClientCuratorTool	ux_labelListsFrom	Show lists from:
20195	Español	GRINGlobalClientCuratorTool	GRINGlobalClientCuratorTool	ux_labelListsFrom	Mostrar las listas de:
19186	Français	GRINGlobalClientCuratorTool	GRINGlobalClientCuratorTool	ux_labelListsFrom	Voir la liste à partir de:
21971	System	GRINGlobalClientCuratorTool	GRINGlobalClientCuratorTool	ux_labelListsFrom	ux_labelListsFrom
21379	Русский	GRINGlobalClientCuratorTool	GRINGlobalClientCuratorTool	ux_labelListsFrom	Показать списки:
20787	دېرغول	GRINGlobalClientCuratorTool	GRINGlobalClientCuratorTool	ux_labelListsFrom	نوم جي آڻوڻ لاءِ دهفتا
19187	English	GRINGlobalClientCuratorTool	GRINGlobalClientCuratorTool	ux_labelQuerPanelSize	Query Panel Size:

This updating is not generally done often, but is definitely necessary whenever an organization introduces a new language to be used within the GG software.

To determine the item’s **App Resource Name**, switch to **System** in the Curator Tool (Select **File | Language | System**).

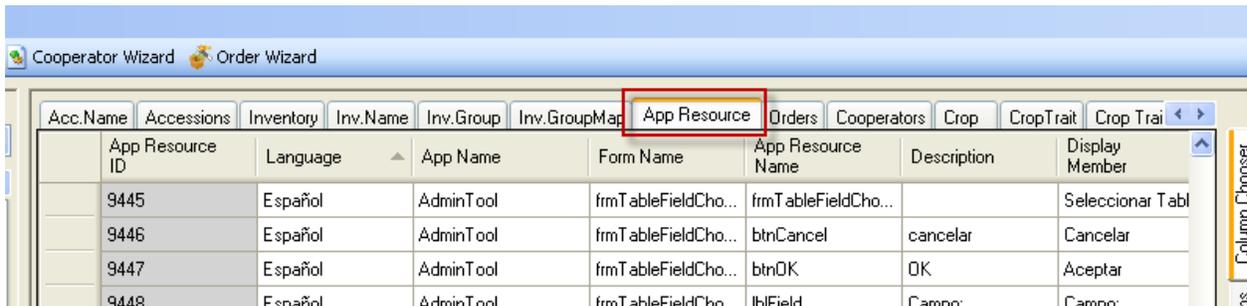
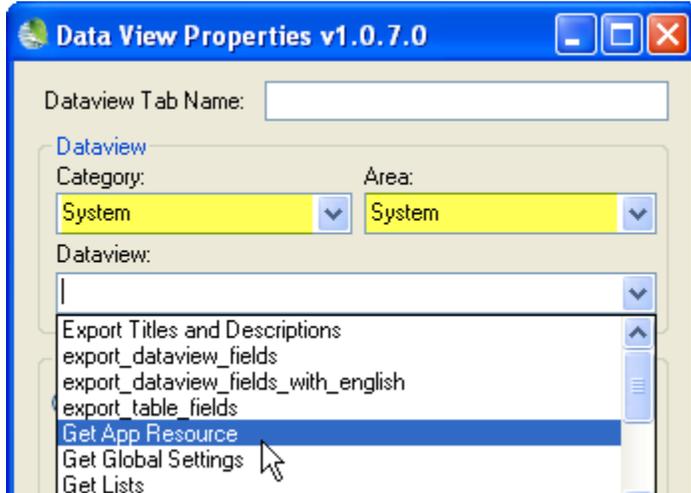


The interface will then display the system names which usually only the software developer uses:



## Correcting an Individual AppResource Item

If you need to correct an AppResource item, open the **get\_app\_resource** dataview in the Curator Tool. Locate the respective row in the grid, and edit and save the record:

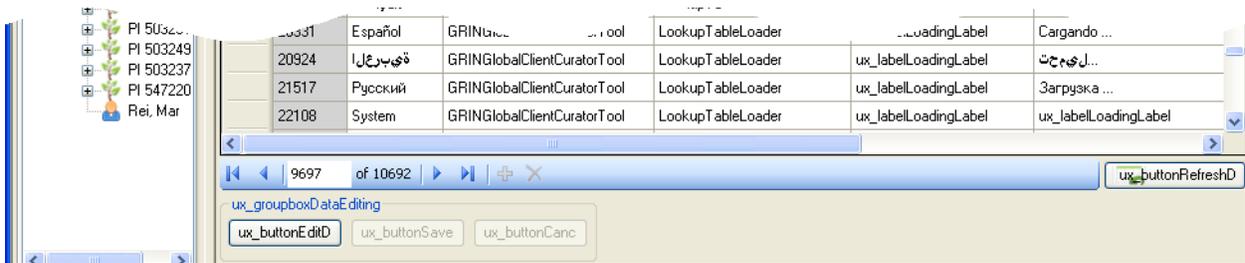
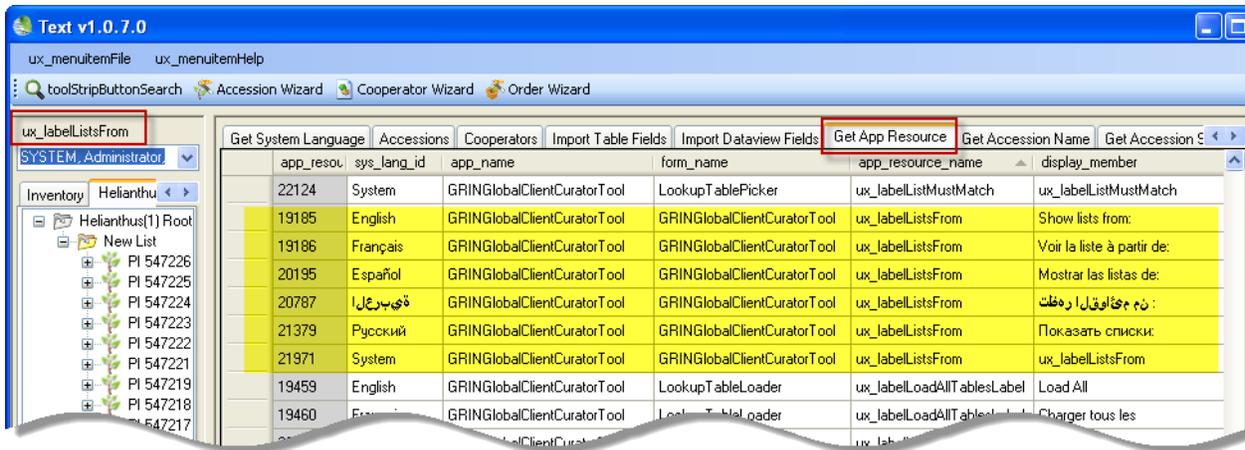


App Resource ID	Language	App Name	Form Name	App Resource Name	Description	Display Member
9445	Español	AdminTool	frmTableFieldCho...	frmTableFieldCho...		Seleccionar Tabl
9446	Español	AdminTool	frmTableFieldCho...	btnCancel	cancelar	Cancelar
9447	Español	AdminTool	frmTableFieldCho...	btnOK	OK	Aceptar
9448	Español	AdminTool	frmTableFieldCho...	tblField	Camn	Camn

## Mass Editing AppResource Items (or Adding Items When Adding a New Language)

Copy the AppResource data from the Curator Tool into a spreadsheet.

When editing existing data, consider sorting the data by `app_name`, then `form_name`, `app_resource_name`, `language`, etc. Edit the data in the spreadsheet, and then copy back into the CT as you would with any new data.



### Adding a New Language's App Resource Records

If you are adding a new language, you could filter the CT for just one existing language, such as English, and then drag those records into Excel.

	A	B	C	D	E	F	G	value_r
1								
2	app_resource_id	sys_lang_id	app_name	form_name	app_resource_name	description	display_member	
3	7854	English	AdminTool	frmAddSeparator	btnAdd	&Add	&Add	
4	7855	English	AdminTool	frmAddSeparator	btnCancel	&Cancel	&Cancel	
5	7852	English	AdminTool	frmAddSeparator	frmAddSeparator		Add a new Separator	
6	7853	English	AdminTool	frmAddSeparator	lblWord	Character to add as a se	Character to add as a separator:	

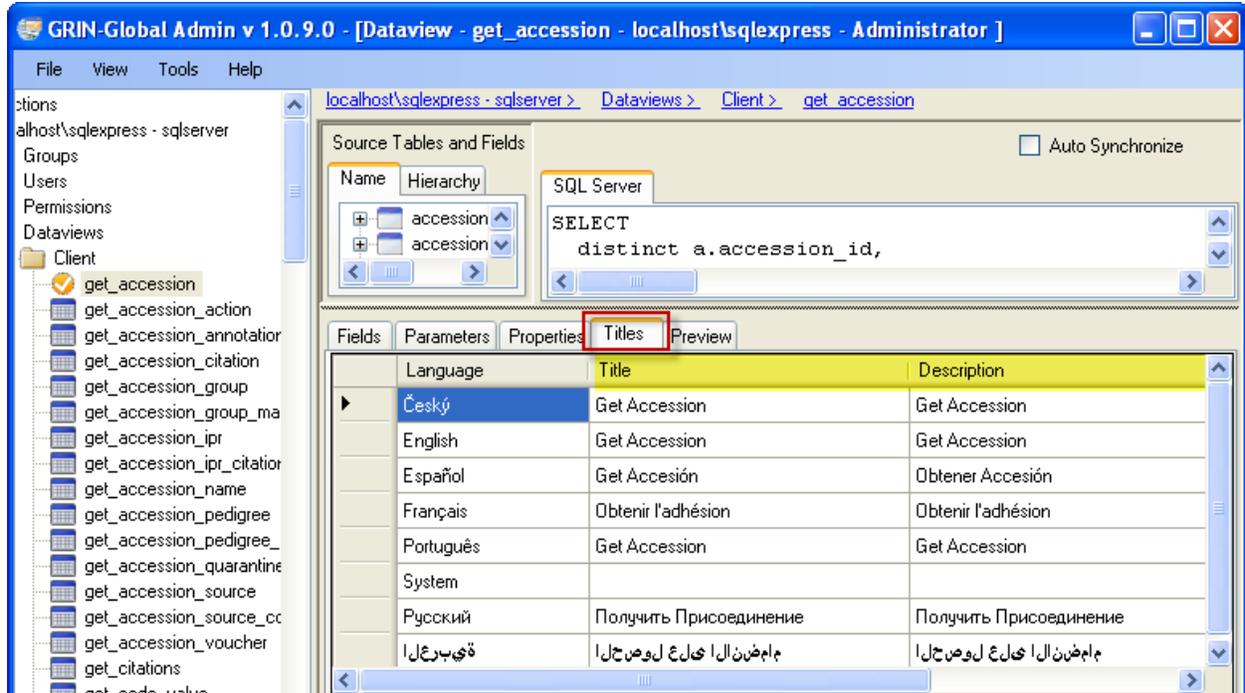
You will need to edit columns **A**, **B**, and **G**. In column...

- **A** – delete the existing **app\_resource\_id**'s (since these will be new records and will have their id's assigned by the software)
- **B** – change the language to match the new language (see p. 4)
- **G** – using the language, edit the **display\_member** fields (It might be easier to insert a new column adjacent to G, input your entries, and then delete the original column G entries, and ensure the heading of the new column is **display\_member**)

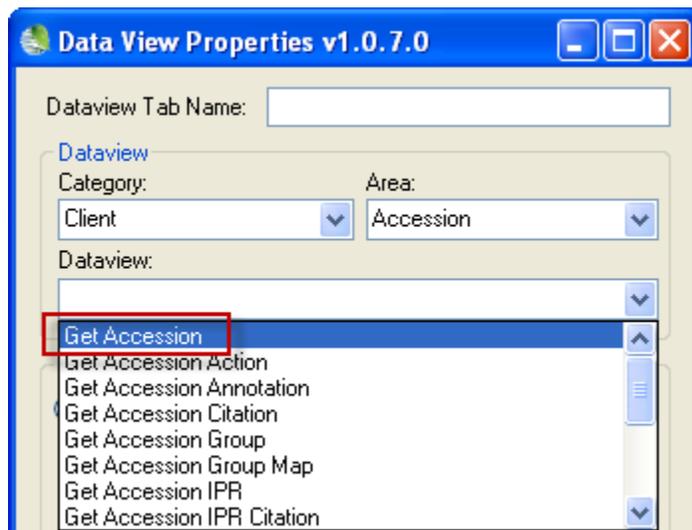
## Titles and Descriptions

### Overview

Each dataview can be described with a **Title** and **Description** in each of the languages defined in the system. The `get_accession` dataview is shown here in the Admin Tool:



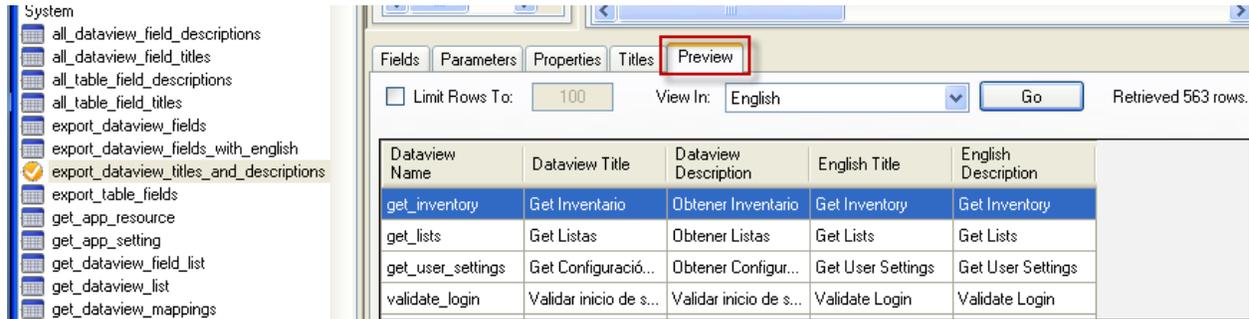
The Curator Tool users see the client dataviews' Titles when they open the **Data View Properties** window:



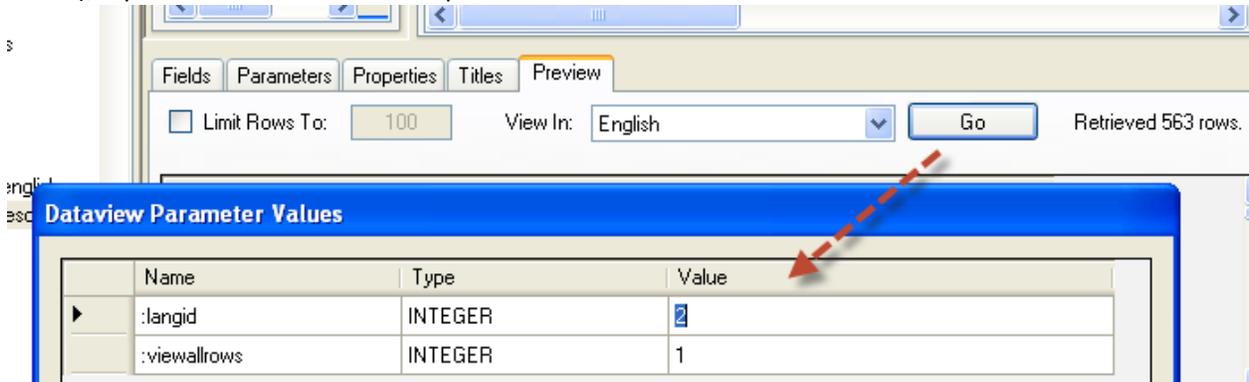
In the Admin Tool dataview editor, you can manually change a dataview's Title and Description. If you need to edit many dataview titles and descriptions, rather than edit them one-by-one, you may prefer to edit them *en masse* using two companion dataviews that can be used to review and edit the Titles and Descriptions. (Directions begin on the next page.)

## Exporting Titles and Descriptions

Open the **export\_dataview\_titles\_and\_descriptions** dataview. To extract the titles and descriptions; select the **Preview** tab:

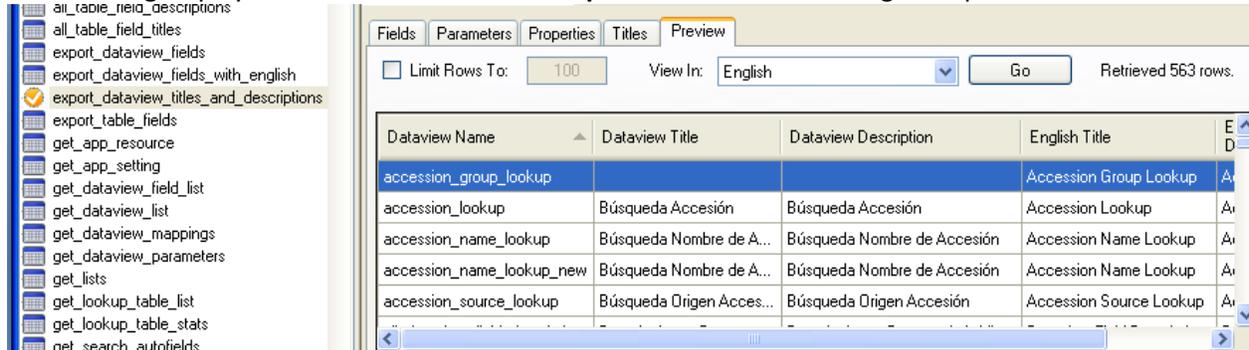


Uncheck the **Limit Rows To:** checkbox; click **Go**; input the value for the desired language (see page 4 for values); input **1** for the **viewallrows** parameter:



“2” indicates Spanish (Español)

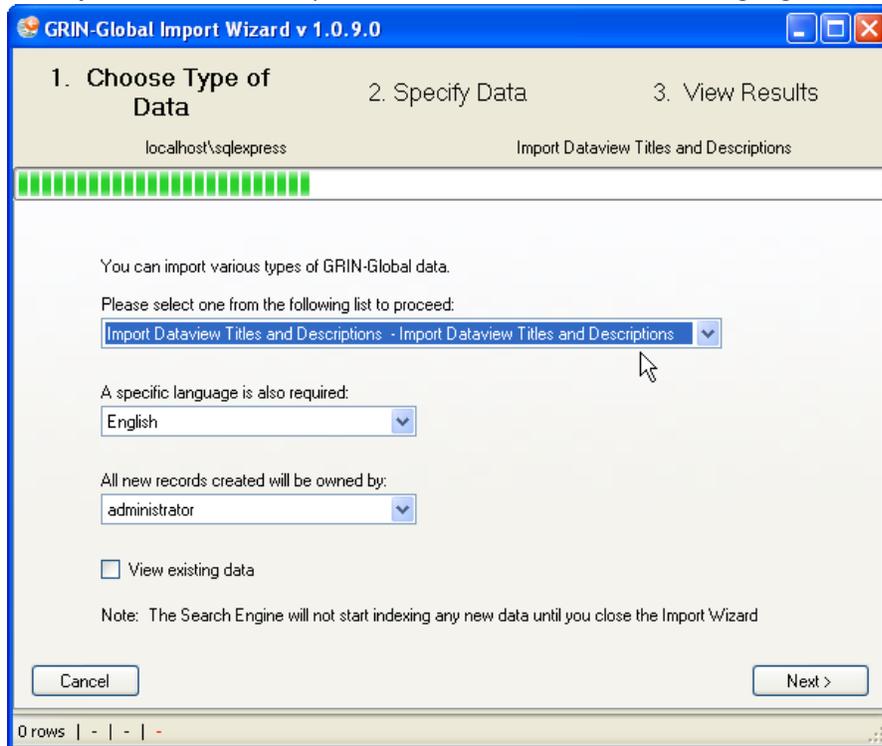
The resulting display will list the **Titles** and **Descriptions** as well as their English equivalents:



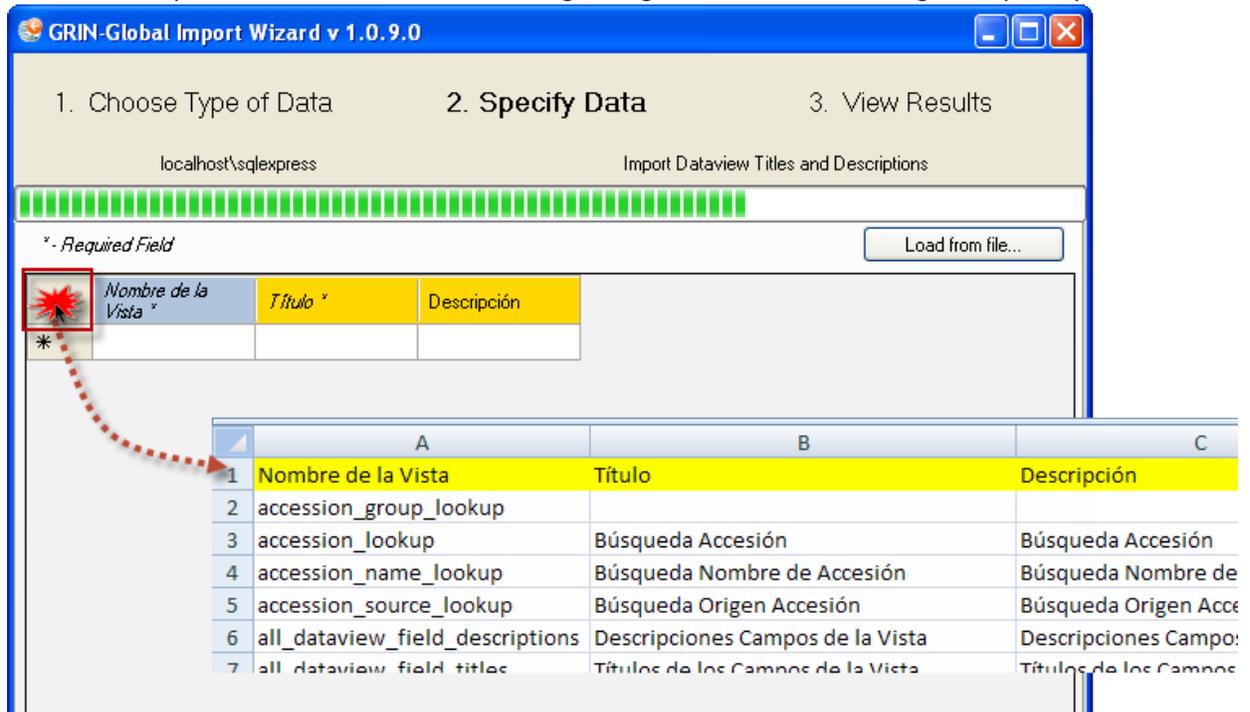
Copy these entries into a spreadsheet for review and editing. After editing, the next step is to import the data back into GG.

## Importing Titles and Descriptions

Use the Import Wizard **import Dataview Titles and Descriptions** dataview to import the Titles and Descriptions from the spreadsheet. Start the Import Wizard; select **Import Dataview Titles and Descriptions** from the dropdown menu; select the desired language:



Click on the top left corner to select the headings; drag the translated headings into your spreadsheet:



Drag the spreadsheet's first three columns into the Import Wizard grid; click the **Import** button:

The screenshot shows a Microsoft Excel spreadsheet with the following data:

	A	B	C	D	E
1	Nombre de la Vista	Titulo	Descripción	English Titlish Descr	
2	accession_group_lookup			Accession Accessic	
3	accession_lookup	Búsqueda Accesí			
4	accession_name_lookup	Búsqueda Nomb			
5	accession_source_lookup	Búsqueda Origen			
6	all_dataview_field_descriptions	Descripciones Ca			
7	all_dataview_field_titles	Títulos de los Car			
8	all_table_field_descriptions	Descripciones de			
9	all_table_field_titles	Títulos de los Car			
10	big_cooperator_lookup	Búsqueda Colabo			
11	citation_lookup	Búsqueda Cita Bi			
12	code_value_id_lookup	Búsqueda ID del			
13	code_value_lookup	Código valor de b			
14	cooperator_group_lookup	Búsqueda Grupo			
15	cooperator_lookup	Búsqueda Colabo			
16	crop_lookup	Búsqueda Cultivo			
17	crop_trait_code_lookup	Búsqueda Código			
18	crop_trait_coded_name_lookup	Búsqueda Nomb			
19	crop_trait_lookup	Búsqueda Descri			
20	export_dataview_fields				

The GRIN-Global Import Wizard v 1.0.9.0 window is open, showing the 'Specify Data' step. The wizard title bar is 'GRIN-Global Import Wizard v 1.0.9.0'. The main area shows 'localhost\sqlexpress' and 'Import Dataview Titles and Descrip'. Below this is a progress bar and a 'Load fr' button. A table below the progress bar shows the selected fields for import:

	Nombre de la Vista *	Titulo *	Descripción
▶*			

## Code Groups

### Overview

Many of the dataviews in the Curator Tool use dropdowns to assist the user in selecting a valid entry – the fields using dropdowns do not allow any random text data to be entered, but instead require a value from a pre-populated set of values. These values can be set up for each language that is installed in GRIN-Global.

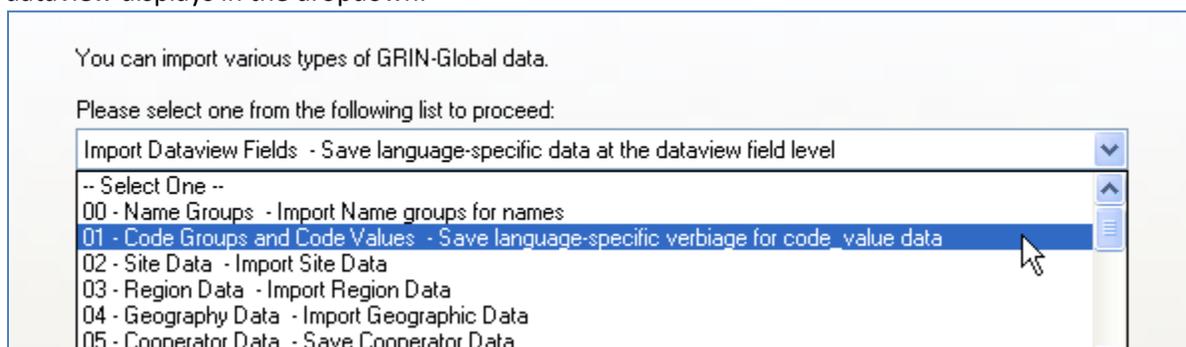
Example of a dropdown based on Codes:

Accessions	Get Accession Name	Inventory	Orders	Cooperators	Get Taxon
	Form	Level Of Improvement	Reproductive Uniformity	Initial Type	
	rub	Wild material	[Null]		CT
	rub	Wild material	[Null]		CT
	rub	Clone	[Null]		CT
	ee	Cultivar	[Null]		CT
	rub	Cultivated material	[Null]		CT
	rub	Genetic material	[Null]		CT
	rub	Landrace	[Null]		CT
	rub	Rootstock	[Null]		CT
	rub	Uncertain improvement stat	[Null]		CT
	ee	Wild material	[Null]		CT

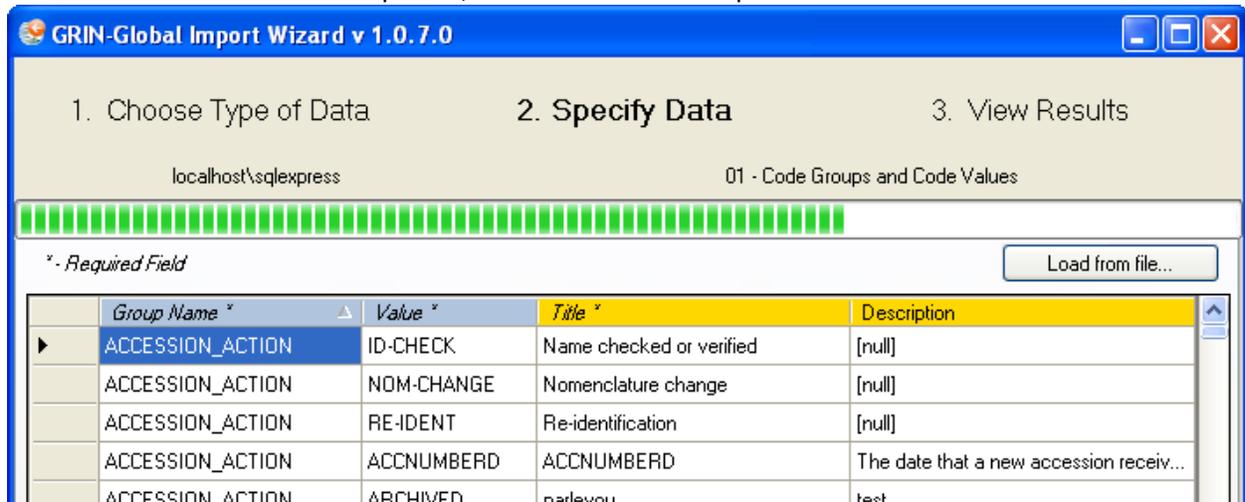
In the *Database Code Groups & Values GRIN-Global* section of the **Setup Guide Cookbook**, there is a detailed example illustrating how one Code Group, “IMPROVEMENT\_LEVEL,” is set up in the Admin Tool and then used in the Curator Tool.

### Loading en Masse

Directions are also included there for initially bulk-loading **Code Groups and Code Values**, using the Import Wizard. Basically, groups of codes can be copied and pasted via the Import Wizard (IW). This IW dataview displays in the dropdown:



There are four fields that are imported, as shown in this example:



### Editing Codes Individually

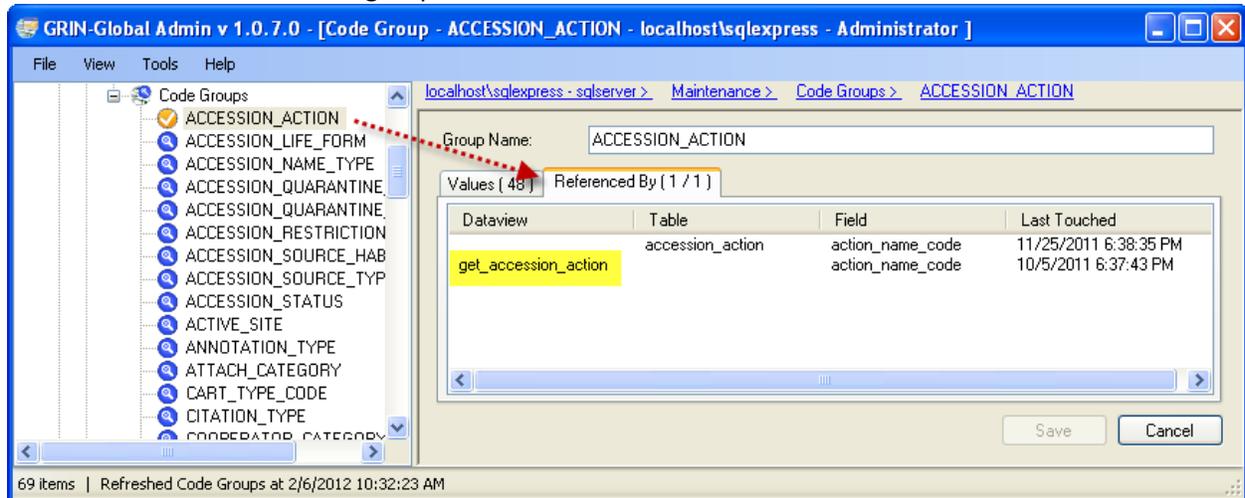
In the **Admin Guide**, there is a section titled *Code Groups*. There you will find detailed instructions for editing an existing code value. The section also explains how to quickly create a spreadsheet of code values for any Code Group, using the Admin Tool Code Group editor. This list can be modified, and then imported back into GG via the Import Wizard.



The Import Wizard doesn't delete records, so any codes that need to be deleted must be deleted via the Admin Tool editor.

### Determining Where Code Groups are Used

Use the Code Groups tool in the Admin Tool to review the values for each group and also to review which dataviews use the code groups.



In the CT, open a dataview in Edit mode to review how the codes are being used:

Get Accession Name	Get Accession IPR	Get Accession Action	Cooperators	Accessions IPR	Accessions
Accession Action ID	Accession	Action Name			Start Date
-1		Accession split into sublines			
		Accession split into sublines			
		Accessions availability comment			
		Accessions data was added			
		Accessions data was deleted			
		ACCNUMBERED			
		Backed up at Svalbard Global Seed Vault			
		Brief passport check only			
		Changed the taxonomy or received			

# Appendix

## Deleting a Dataview

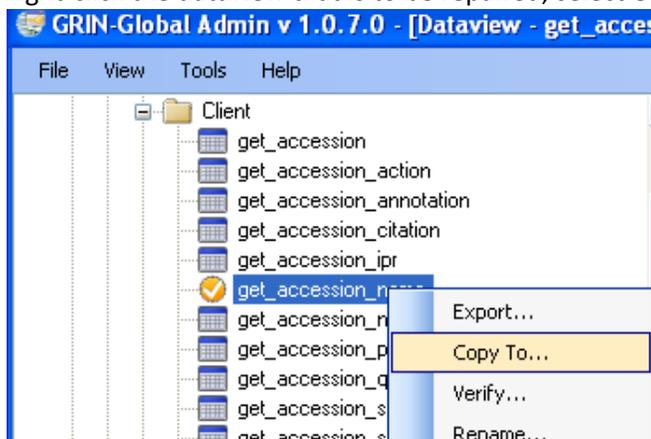
### Overview

Whenever a dataview has a friendly name added or edited, a record is added to the **dbo.sys\_dataview\_field\_lang** table in the database. If for some reason the intent is to have that friendly name removed from this table, it will be necessary to delete the modified dataview and then import the dataview back into GG.

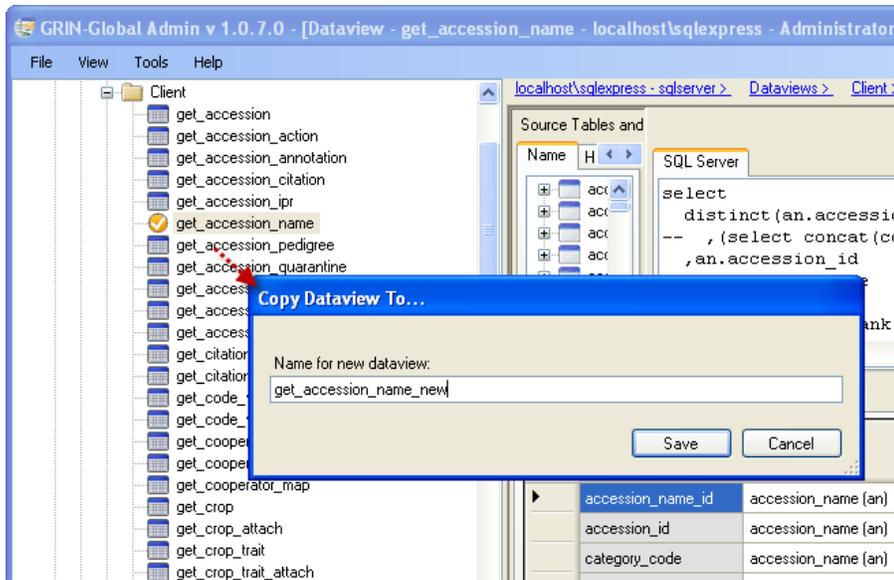
### Step-by-step Directions

These directions guide you through making a copy of a dataview before editing the original one. This ensures that the original can be restored if needed for any reason. In the process, you will have two similar dataviews, the original and a copy.

- 1) In the AT, select the dataview that is to be corrected. (For example, a dataview with redundant language-friendly column names.)
- 2) Right-click the dataview that is to be repaired; select **Copy To**:



and provide a temporary name for this copy:

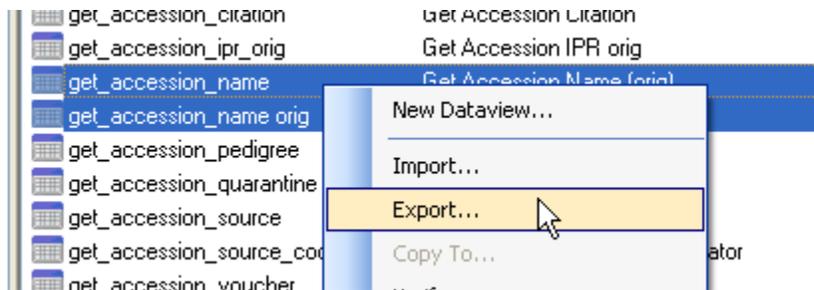


3) Select the new (copied) dataview. Make your corrections to the copy.



In any dataview, each language-friendly column heading name must be unique.

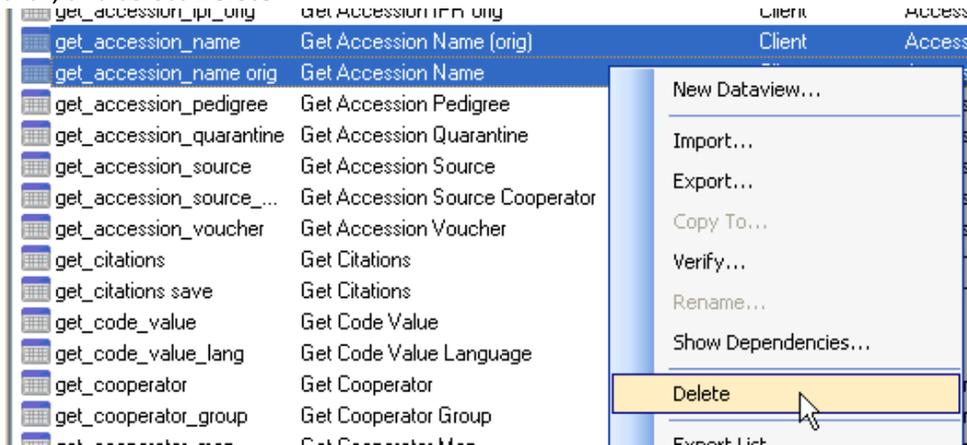
4) Keep both dataviews, the original and the copy, until you are certain everything is working as you expect it to. To do that, in the list view (the right grid,) select both dataview names, right-click, and select **Export...**



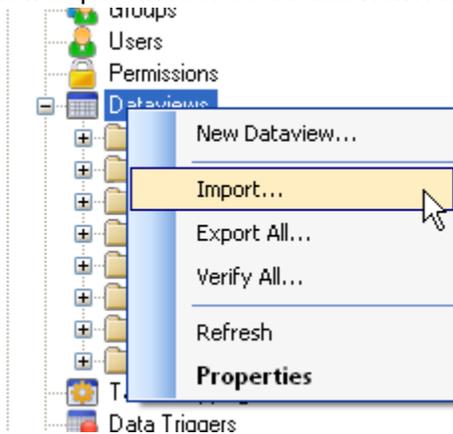
The dataviews will be saved on a drive with the extension “**dataview.**” When you save a dataview for the first time, specify a dedicated folder that can serve as the holding place for any GG dataviews saved in the future. (The folder can hold other items, but it will be easier to view the dataviews if that is the sole purpose of the folder.) After the first save, GG by default will display that folder again as the potential folder whenever you attempt to save a dataview file.

2012_01_30_2_names.dataview	283 KB	1/30/2012 3:54 PM	A dataview for GRI...
2012_01_30_2.dataview	283 KB	1/30/2012 3:45 PM	A dataview for GRI...
2012_01_30_get_accession_ipr_orig.dataview	283 KB	1/30/2012 3:19 PM	A dataview for GRI...
2012_01_30_get_accession_ipr_fixed.dataview	283 KB	1/30/2012 12:09 PM	A dataview for GRI...

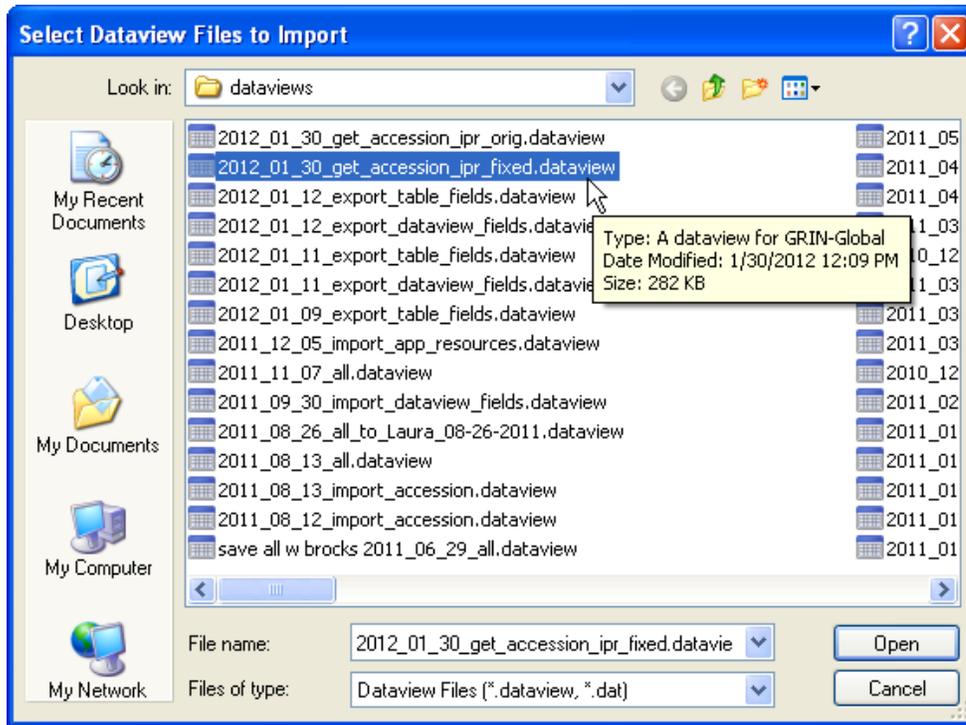
- 5) Delete *both* dataviews. To do that, in the list view (the right grid), select both dataview names, right-click, and select **Delete**



- 6) Now import the corrected dataview. At the **Dataviews** level, select **Import...**



7) Select the dataview with the corrections:



8) In the AT dataview editor, rename the corrected version with the original dataview name.

When you are satisfied with the new dataview, there is no need to keep storing the original dataview file. You can delete it from your drive or just hold onto it for awhile as a backup of the original.