

# English vs.ENG

---

## (Also: Switching and Editing Codes & Code Groups)

### Background

Many Curator Tool dataview fields use dropdowns to assist the user in selecting a valid entry. To ensure data integrity, the dropdowns restrict the inputting of random text data, but instead require the user to select a value from a pre-populated set of choices. The organization's GRIN-Global administrator sets up the values and titles for these codes. One method to review and edit these **Code Groups** is via the Admin Tool.



The standard GRIN-Global installation supplies a base set of codes based on the codes used in the U.S. National Plant Germplasm System (NPGS). The codes have been translated into five languages (English, Spanish, French, Russian, and Arabic).

The code values are typically short (less than under 20 characters). Various tables in GG (mainly code\_value\_lang) convert the internal codes to their lengthier titles, which are language specific. For example, the **Order Item Status Code** which is stored internally as "**SHIPPED**" can be displayed as "**Shipped order item**" in English and "**Envíe item del pedido**" in Spanish.

NPGS GRIN users seem to be in "two camps"—some users prefer seeing the shorter internal code values displayed, whereas other users prefer displaying the longer titles. One advantage of the shorter codes comes when bulk updating via the dragging and dropping of data from spreadsheets to GG. For example, using the codes rather than the titles for the accession Observations involves much shorter text entries.

To accommodate both preferences, in the post-1.0 version of GG, an additional "language" (**ENG**) was included with the installation of GG. Users who set their language to **ENG** will see the code values displayed in a number of places (after reloading the appropriate lookup tables). For example, when using ENG as their language, they will see the code "**SHIPPED**," whereas users with **English** as their language will have the Code's English title displayed "**Shipped order item.**" NPGS users are initially setup with English as their default language, but they can switch back and forth as desired. ([Switching languages](#))

## ENG Example

In the following example, when adding a new order request item record in the Curator Tool, with **ENG** selected for his language, the user will see the shorter codes for **Item Status**:

The screenshot shows a data entry window with a table of order request items. The table has columns for Site, Orders, Order Request Item, Accessions, Accession Citation, Accession Source, Accession Inventory Name, and Note. The 'Order Request Item' column is expanded to show a dropdown menu for 'Item Status'. The dropdown menu lists the following options: [Null], CANCEL, HOLD, INSPECT, NEW, PENDING, QUALITYTEST, and SHIPPED. A red dashed arrow points to the dropdown menu with the text 'order request item status lookup'. Below the table, there is a 'Data Editing' section with buttons for 'Edit Data', 'Save Data', and 'Cancel'. The status bar shows '95 of 95' records.

Site	Orders	Order Request Item	Accessions	Accession Citation	Accession Source	Accession Inventory Name	Note
		SD	AVAIL	NEW			
		SD	AVAIL	NEW			
		SD	AVAIL	NEW			
		SD	AVAIL	NEW			
		SD	AVAILSEND	NEW			
		SD	AVAILSEND	SHIPPED			
		[Null]	[Null]	[Null]			

## English Example

When the user's language is **English**, the user will see the lengthier titles:

The screenshot shows a data entry window with a table of order request items. The table has columns for Site, Orders, Order Request Item, Accessions, Accession Citation, Accession Source, Accession Inventory Name, and Note. The 'Order Request Item' column is expanded to show a dropdown menu for 'Item Status'. The dropdown menu lists the following options: [Null], APHIS, Cancel or abort order item, Hold, Order item is new, Order item is under processing, Quality Testing, and Shipped order item. Below the table, there is a 'Data Editing' section with buttons for 'Edit Data', 'Save Data', and 'Cancel'. The status bar shows '94 of 94' records.

Site	Orders	Order Request Item	Accessions	Accession Citation	Accession Source	Accession Inventory Name	Note
		SD	Available	Order item is new			
		SD	Available	Order item is new			
		SD	Available	Order item is new			
		SD	Available to send	Order item is new			
		SD	Available to send	Shipped order item			
		[Null]	[Null]	[Null]			



The GRIN system used a convention where the Codes were always spelled in upper case. This has been carried over to GRIN-Global, but other organizations may establish their own convention.

When loading data (such as dragging data from a spreadsheet into the CT, you should match the case and spelling. For example, in ENG, a valid Item Status code for the Order Request Items is **NEW**; in English, it is **New**.

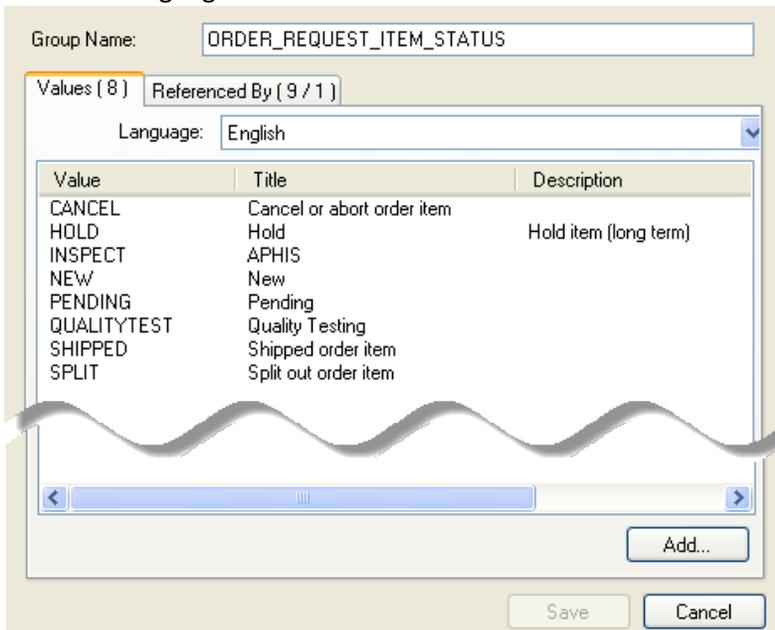
### How does the user switch language?

On the CT's menu, the user needs to select **File | Language** and then select the desired language from the languages displayed on the menu.



### Where does the text for these codes come from?

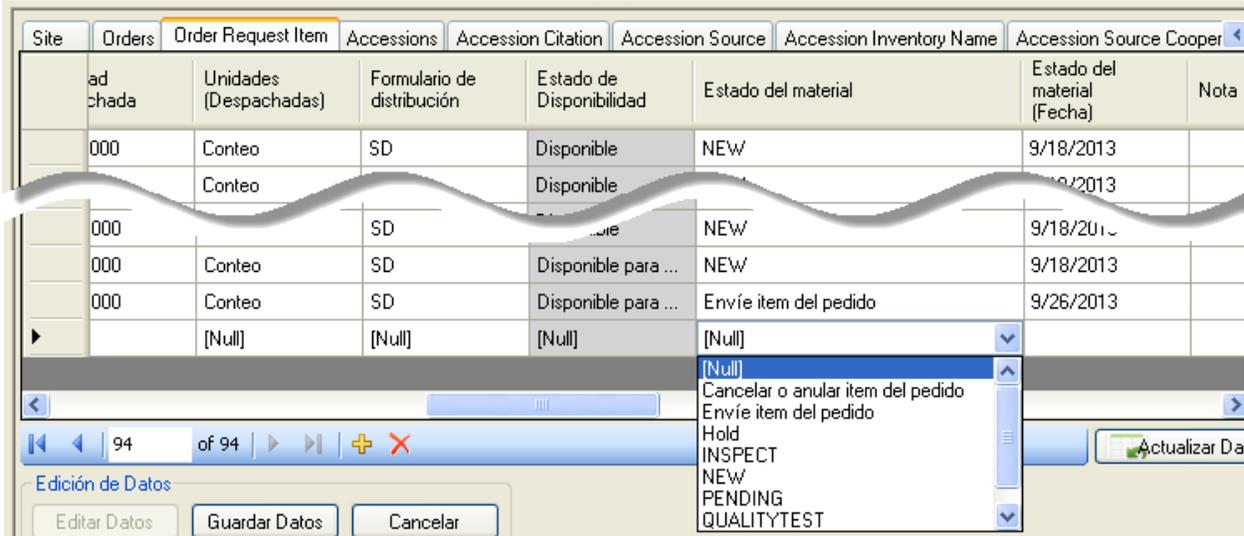
The administrator controls what text is stored with each code. The screen below was copied from the Admin Tool, which only the organization's GRIN-Global administrator (or users with administrative privileges) will have access to. If you review the **ENG** and **English** described earlier, you can see the **Value** is displayed when **ENG** is the user's selected language; **Title** is displayed when **English** is set for the user's language.



Administrators can reference two documents for updating codes. The *Admin Guide* has directions for using the Admin Tool's Code editor; the *Import Wizard Cookbook* has details for bulk loading codes (initially done when the administrator is initially setting up the organization's database).

### Spanish Example

In the following example, Spanish was selected for the language. It appears that in this situation, there is a mixture – for some codes, some values are displayed, and for others, titles.



The following Admin Tool screen shows how the Spanish data was installed:



You can conclude that the **Title** trumps the **Value**, that is, when the user is selecting from a lookup, if the code has an associated **Title**, the **Title** will display in the Curator Tool, otherwise, the **Value** will display.

The following two screens illustrate how **English** and **ENG** are working. The **English** codes have associated **Titles**; the **ENG** codes do not. When the user is using English as his language, he will see the **Titles** displayed, when in ENG, only the **Values**. (A corollary to this: when viewing in English (or in any language), if the **Code** does not have a corresponding **Title**, only its **Value** will display.)

Group Name:

Values ( 8 ) Referenced By ( 9 / 1 )

Language:

Value	Title	Description	Last Touched
CANCEL	Cancel or abort order item		10/5/2011 8:10:17 F
HOLD	Hold	Hold item (long term)	10/5/2011 8:10:17 F
INSPECT	APHIS		9/16/2013 2:30:51 F
NEW	New		9/16/2013 2:30:51 F
PENDING	Pending		9/16/2013 2:30:51 F
QUALITYTEST	Quality Testing		9/16/2013 2:30:51 F
SHIPPED	Shipped order item		10/5/2011 8:10:17 F
SPLIT	Split out order item		4/30/2013 1:25:22 F

Group Name:

Values ( 8 ) Referenced By ( 9 / 1 )

Language:

Value	Title	Description	Last Touched
CANCEL			10/5/2011 8:10:17 F
HOLD			10/5/2011 8:10:17 F
INSPECT			9/16/2013 2:30:51 F
NEW			9/16/2013 2:30:51 F
PENDING			9/16/2013 2:30:51 F
QUALITYTEST			9/16/2013 2:30:51 F
SHIPPED			10/5/2011 8:10:17 F
SPLIT			4/30/2013 1:25:22 F

### Updating the Lookup Tables When Switching Languages

Curator Tool users do not need to reload *all* of their lookup tables after switching languages, but they will be prompted that their tables are not up to date. Normally a user will rarely switch languages, but he can. The user may only need to reload few lookup tables if he is mainly concerned with seeing codes in a particular context.

*Lookup tables that may need updating when a user switches languages*

- Code Value Lookup
- Cooperator (Big) Lookup
- Crop Trait Code Lookup
- Crop Trait Lookup

- Geography Lookup
- Inventory Lookup
- Mailing Geography Lookup
- Source Descriptor Code Lookup
- Taxonomy Geography Map Lookup

English:

Orders	Cooperators	Order Summary	Crop Trait	Crop Trait Code	Crop Trait Observation	Crop Trait Code Lang	Crop Trait Lang	...
Crop Trait Observation ID	Accession	Inventory	Crop	Crop Trait	Code Definition	Crop Trait Value Code		
2302841	PI 249009	PI 249009 01 SD	WATERMELON	Anthracnose rac...	Susceptible	9		
2302865	PI 254742	PI 254742 01 SD	WATERMELON	Anthracnose rac...	Susceptible	9		
2303622	PI 249009	PI 249009 01 SD	WATERMELON	Background color	Dark Green	3		
2303646	PI 254742	PI 254742 01 SD	WATERMELON	Background color	Light Green	1		
2304549	PI 249009	PI 249009 01 SD	WATERMELON	Fruit color pattern	Solid	1		
2304573	PI 254742	PI 254742 01 SD	WATERMELON	Fruit color pattern	Striped	2		
2305285	PI 254742	PI 254742 01 SD	WATERMELON	Downy mildew	Susceptible	9		

ENG:

Orders	Cooperators	Order Summary	Crop Trait	Crop Trait Code	Crop Trait Observation	Crop Trait Code Lang	Crop Trait Lang	...
Crop Trait Observation ID	Accession	Inventory	Crop	Crop Trait	Crop Trait Code Value	Crop Trait Value Code		
2302841	PI 249009	PI 249009 01 SD	WATERMELON	Anthracnose rac...	Susceptible	9		
2302865	PI 254742	PI 254742 01 SD	WATERMELON	Anthracnose rac...	Susceptible	9		
2303622	PI 249009	PI 249009 01 SD	WATERMELON	Background color	Dark Green	3		
2303646	PI 254742	PI 254742 01 SD	WATERMELON	Background color	Light Green	1		
2304549	PI 249009	PI 249009 01 SD	WATERMELON	Fruit color pattern	Solid	1		
2304573	PI 254742	PI 254742 01 SD	WATERMELON	Fruit color pattern	Striped	2		
2305285	PI 254742	PI 254742 01 SD	WATERMELON	Downy mildew	Susceptible	9		

ENG: after Updating the Crop, Trait, and Trait Code Lookup Tables and Refreshing:

Orders	Cooperators	Order Summary	Crop Trait	Crop Trait Code	Crop Trait Observation	Crop Trait Code Lang	Crop Trait Lang	...
Crop Trait Observation ID	Accession	Inventory	Crop	Crop Trait	Crop Trait Code Value	Crop Trait Value Code		
2302841	PI 249009	PI 249009 01 SD	WATERMELON	ANTHRAC2	9	9		
2302865	PI 254742	PI 254742 01 SD	WATERMELON	ANTHRAC2	9	9		
2303622	PI 249009	PI 249009 01 SD	WATERMELON	BACKGROUND	3	3		
2303646	PI 254742	PI 254742 01 SD	WATERMELON	BACKGROUND	1	1		
2304549	PI 249009	PI 249009 01 SD	WATERMELON	COLORPATT	1	1		
2304573	PI 254742	PI 254742 01 SD	WATERMELON	COLORPATT	2	2		
2305285	PI 254742	PI 254742 01 SD	WATERMELON	DOWNYMILD	9	9		
2305287	PI 249009	PI 249009 01 SD	WATERMELON	FLESHCOLOR	4	4		

“Refreshing” –clicking the Refresh Data button:



### Codes That Have Identical Values and Titles

There are a few Code Groups which have identical titles and values. The primary reason the codes were set up in this fashion relates to the original GRIN nomenclature used by the NPGS. Other organizations adapting GG will most likely review the titles and delete/ change them to meet the organization's specific needs.

group_name	value	title
ACCESSION_STATUS	INACTIVE	Inactive
CART_TYPE_CODE	FAVORITE	Favorite
CART_TYPE_CODE	ORDER ITEMS	Order Items
COOPERATOR_STATUS	ACTIVE	ACTIVE
COOPERATOR_STATUS	DEAD	DEAD
COOPERATOR_STATUS	HISTORICAL	HISTORICAL
COOPERATOR_STATUS	INACTIVE	INACTIVE
GERMPLASM_FORM	**	**
GERMPLASM_FORM	BD	BD
GERMPLASM_FORM	BL	BL
GERMPLASM_FORM	CA	CA
GERMPLASM_FORM	CL	CL
GERMPLASM_FORM	CM	CM
GERMPLASM_FORM	CT	CT
GERMPLASM_FORM	DN	DN
GERMPLASM_FORM	ER	ER
GERMPLASM_FORM	FI	FI
GERMPLASM_FORM	FR	FR
GERMPLASM_FORM	GS	GS
GERMPLASM_FORM	HE	HE
GERMPLASM_FORM	HS	HS
GERMPLASM_FORM	IO	IO
GERMPLASM_FORM	IV	IV
GERMPLASM_FORM	LA	LA
GERMPLASM_FORM	LV	LV
GERMPLASM_FORM	MF	MF
GERMPLASM_FORM	MI	MI
GERMPLASM_FORM	MS	MS
GERMPLASM_FORM	PD	PD
GERMPLASM_FORM	PF	PF
GERMPLASM_FORM	PL	PL
GERMPLASM_FORM	PO	PO
GERMPLASM_FORM	PR	PR
GERMPLASM_FORM	RH	RH
GERMPLASM_FORM	RN	RN
GERMPLASM_FORM	RT	RT
GERMPLASM_FORM	SC	SC
GERMPLASM_FORM	SD	SD
GERMPLASM_FORM	SG	SG
GERMPLASM_FORM	SP	SP

GERMPLASM_FORM	ST	ST
GERMPLASM_FORM	TC	TC
GERMPLASM_FORM	TU	TU
LITERATURE_TYPE	ARTICLE	Article
LITERATURE_TYPE	BOOK	Book
LITERATURE_TYPE	JOURNAL	Journal
LITERATURE_TYPE	PERIODICAL	Periodical
LITERATURE_TYPE	URL	URL
TAXONOMY_NOXIOUS_TYPE	AQUATIC	Aquatic
TAXONOMY_NOXIOUS_TYPE	SEED	Seed
TAXONOMY_NOXIOUS_TYPE	TERRAIN	Terrain
TAXONOMY_NOXIOUS_TYPE	TURF	Turf
TAXONOMY_SUPRAFAMILY	CLASS	Class
TAXONOMY_SUPRAFAMILY	DIVISION	Division
TAXONOMY_SUPRAFAMILY	KINGDOM	Kingdom
TAXONOMY_SUPRAFAMILY	ORDER	Order



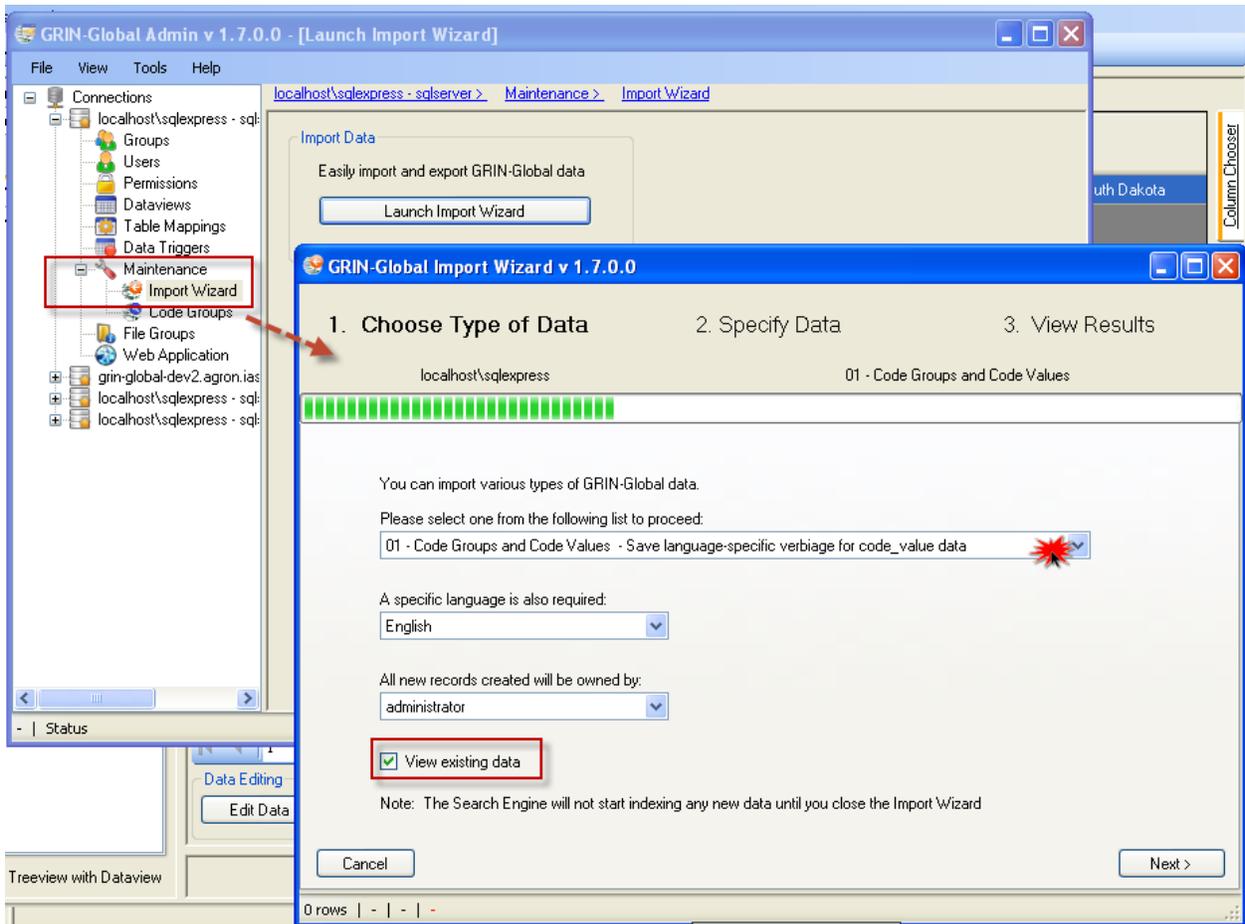
As a reminder, in a new GG installation where the organization is starting with fresh data, the organization can establish which codes they intend to use and delete those that they will not use. For example, in the NPGS, there are 312 codes for the code group **PATHOLOGY\_TEST** in GG version 1.9. Review the Codes and Code Groups before going into production.

### Reviewing the Codes and Code Groups

Obviously not all of these codes within the U.S. NPGS will be needed by other organizations adapting GRIN-Global. The initial thinking in providing these codes was (a) they serve as examples and (b) it is perhaps quicker for an organization to delete or edit than to not have any to start with.

Ideally an organization's GG administrator will review these codes and edit them before the organization starts using GG in production. Once a code is used by a record, the code cannot be deleted.

In the Admin tool, (accessible only to the GG administrator), under the **Maintenance** node, the Import Wizard can be used to list all of the codes ( and the list can be exported to a spreadsheet), or also under Maintenance, the Code Groups option provides a means for reviewing, editing, and deleting codes. (The former method is explained in detail in the [Cookbook for Importing Data](#), and the latter method is described in the [Admin Tool Guide](#).



GRIN-Global Import Wizard v 1.7.0.0

1. Choose Type of Data      2. Specify Data      3. View Results

localhost\sqlexpress      01 - Code Groups and Code Values

\* - Required Field      Load from file...

	Group Name *	Value *	Title *	Description
	IMPROVEMENT_LEVEL	BREEDING	Breeding material	
▶	IMPROVEMENT_LEVEL	CLONE	Clone	
	IMPROVEMENT_LEVEL	CULTIVAR	Cultivar	
	IMPROVEMENT_LEVEL	CULTIVATED	Cultivated material	
	IMPROVEMENT_LEVEL	GENETIC	Genetic material	
	IMPROVEMENT_LEVEL	LANDRACE	Landrace	
	IMPROVEMENT_LEVEL	ROOTSTOCK	Rootstock	
	IMPROVEMENT_LEVEL	UNCERTAIN	Uncertain improv...	
	IMPROVEMENT_LEVEL	WILD	Wild material	
	REPRODUCTIVE_UNIF...	APOMICTIC	Apomictic	
	REPRODUCTIVE_UNIF...	HYBRID	Hybrid	
	REPRODUCTIVE_UNIF...	INBRED	Highly inbred	

Cancel      < Previous      Import

2122 rows | Row 2 | code\_value\_lang (cvl) |

## Query to Display Codes & Code Groups

You must be logged into the Public Website:

The screenshot shows the GRIN-Global Release 1.7 web interface. At the top left, there is a "Logout" link for the user "marty.reisinger@ars.usda.gov" (marked with a red circle 1). The main title is "GRIN-Global Release 1.7". Below the title is a banner image of various fruits. A navigation bar contains links for "Search Accessions", "Search Taxonomy", "View Cart", "Reports", "My Account", "Tools" (marked with a red circle 2), and "Help". Under "Tools", there is a "Web Query" link (marked with a red circle 3). The "Web Query" page is active, showing a text area for entering SQL queries. The SQL query entered is: 

```
USE gringlobal;
SELECT
  cv.code_value_id as value_id,
  cv.group_name as group_name,
  cv.value as gg_value,
  cvl.title as cvl_title
```

 (marked with a red circle 4). Below the text area is a "Load SQL From File" section with a "Browse..." button, an "Open File" button, and a "Save SQL to File" button. A note states: "Note: click **Browse...** button first, then click **Open File** button."

The following SQL can be use in the Public Website, under Tools | Web Query, to display the codes:

```
USE
gringlobal;

SELECT
cv.code_value_id as value_id,

cv.group_name as group_name,
cv.value as gg_value,
cvl.title as cvl_title

FROM
code_value cv

inner join code_value_lang cvl
on cv.code_value_id = cvl.code_value_id
left join sys_lang sl2
```

```
                on cvl.sys_lang_id = sl2.sys_lang_id
WHERE
  sl2.sys_lang_id = 1
/* and group_name = 'inventory_action' */
/* use and clause to search for a specific code */

ORDER BY
  group_name,
  gg_value
```