



# GRIN-Global – Administrator Webinar

Session 3:      Dataview Editing – Basics (continued)  
                         & Advanced Editing Topics;  
                         other GG Administrator Topics

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instructor

# Dataview Editing - Continuation

- Quiz
- Review / Explain editor interface
  - Fields ... Parameters... Preview
  - Auto Synchronize
  - Rearrange the column order
  - Delete?
- Adding new fields & tables to the schema – use Table Mappings
- Dataview Editor Tips
- Languages

# Quiz!

## Column heading names in the Curator Tool

- are they known as “friendly names,” “alternate names,” or “database table names” ?
- – are they defined in SSMS?

# Quiz!

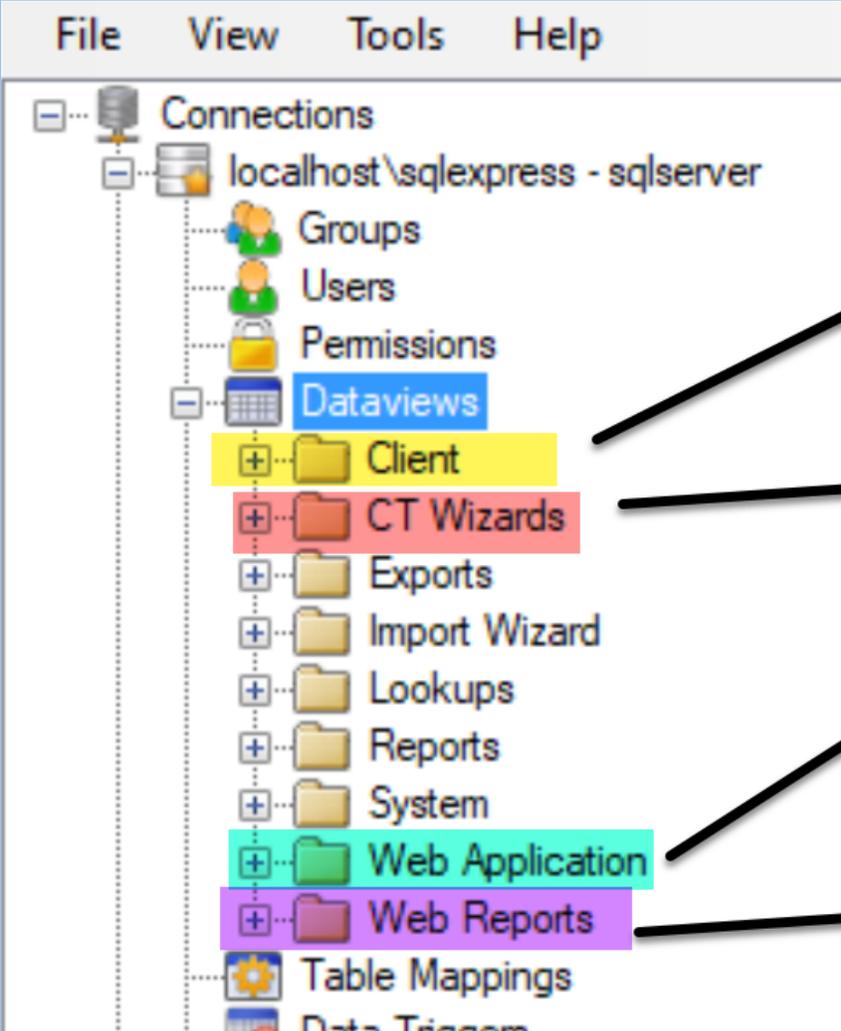
## Column heading names in the Curator Tool

- are they known as “friendly names,” “alternate names,” or “database table names” ?
- – are they defined in SSMS? **NO**

# Review

- Questions regarding any topics covered in the Previous Sessions

# Dataviews: Categories



Curator & Search Tools

Wizards (w/ Build)

Public Website

Reports on Public Website

- Leave others alone!

Fields...

# Auto Synchronize

Source Tables and Fields  Auto Synchronize

Name Hierarchy

- accession
- accession\_action
- accession\_inv\_ann
- accession\_inv\_atta
- accession\_inv\_grou
- accession\_inv\_grou
- accession\_inv\_grou
- accession\_inv\_nam
- accession\_inv\_vou
- accession\_jpr
- accession\_pedigree

SQL Server

```
SELECT
  distinct a.accession_id,
  a.doi,
  a.accession_number_part1,
  a.accession_number_part2,
  a.accession_number_part3,
  a.taxonomy_species_id,
  (select min(plant_name) from accession_inv_name an, inventory i whe
    i.inventory_id = an.inventory_id and i.accession_id = a.accession
    plant_name_rank = (select MIN(plant_name_rank) from accession_inv
  (select s.geography_id from accession_source s where a.accession_id
```

Fields Parameters Properties Titles Preview

Name	Table	Field	Required?	Visible In CT?	Read Only?	Primary Key?	Tran
accession_id	accession (a)	accession_id	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
doi	accession (a)	doi	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
accession_number_p...	accession (a)	accession_number_part1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
accession_number_p...	accession (a)	accession_number_part2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
accession_number_p...	accession (a)	accession_number_part3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

# Copy / Export & Import / Rename

V > ADMIN GG TRNG > SampleData

<input type="checkbox"/>	Name	Date modified
	00_accession template.xlsx	11/26/2020
	2020_11_20_all.dataviewxml	11/20/2020
	2020_11_20_Client_all.dataviewxml	11/20/2020
	accession_action_nov17_20201118.dataviewxml	11/20/2020
	accession_action_nov17+5_20201118.dataviewxml	11/20/2020
	get_accession_20181210.dataviewxml	11/28/2020
	get_accession_citation_20170725.dataviewxml	11/26/2020
	get_accession_ipr_20130321.dataviewxml	11/25/2020

Your first time using Export:



select a preferred folder which you intend to use again storing the dataview files

# Troubleshooting & Tips w New DVs

- Copy to a text processor
- Don't move all the SQL at one time
- Embed Comments `--` and/or `/* comment */`

# Columns

- Reorder
  - ...with the SQL

# Columns

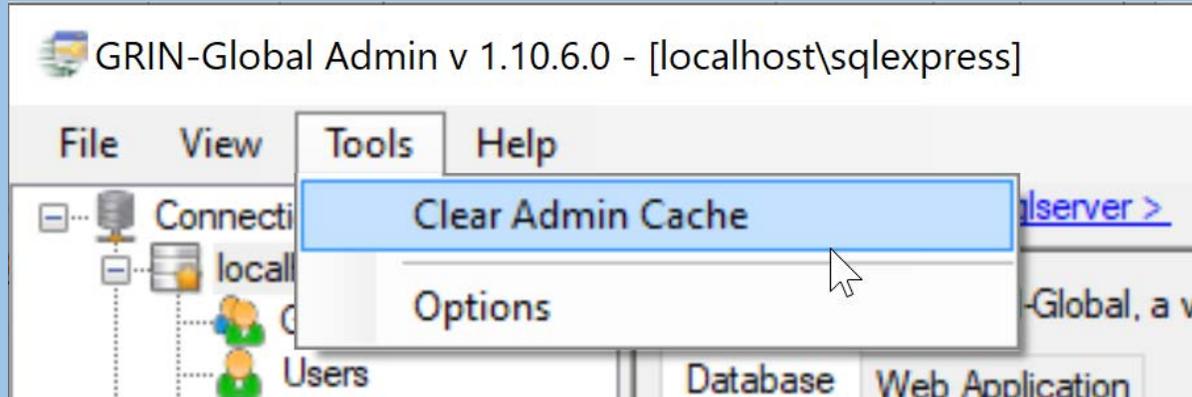
- Reorder
  - ...with the SQL
- Before deleting a column...
  - check if required
  - comment out first

For a Dataview to be visible & usable in the CT,  
what must be true?

... in order to use the dataview to edit data in the CT...

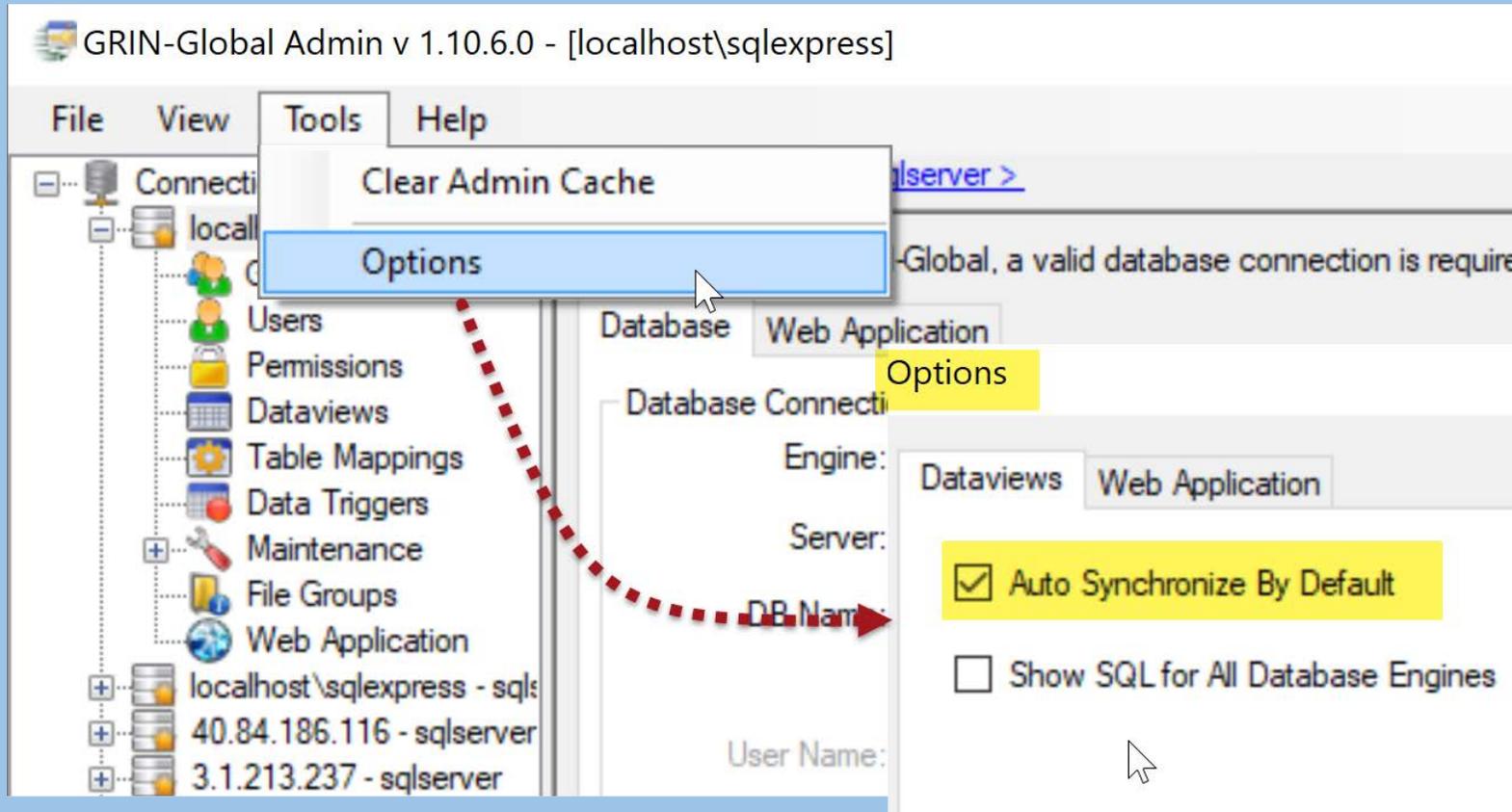
Change the dataview's Category to **Client (in Properties)**

# Admin Cache



- Use the **Clear Admin Cache** option to free up hard drive space

# Tools | Options

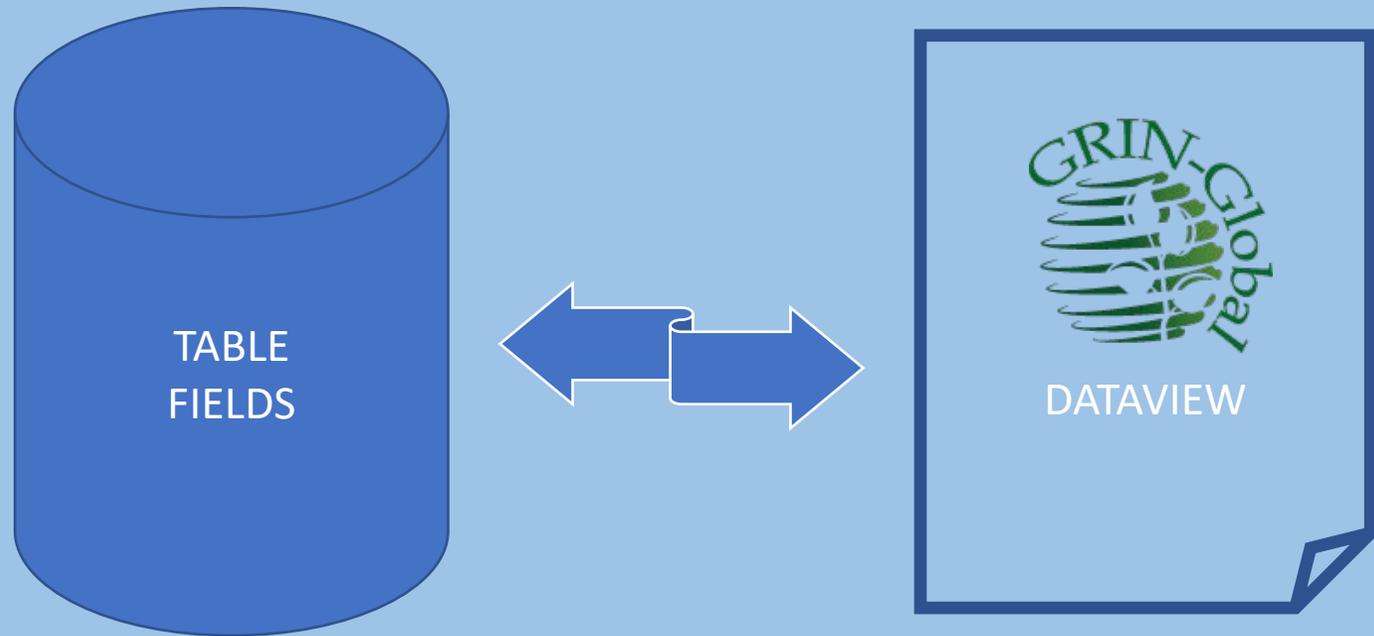


- (Generally,) keep the Options set **Auto Synchronize By Default**

# How does GG Do it?

Relate database *table* names to

dataview *friendly* names?



# Table Field Names

	Column Name	Data Type
🔑	accession_id	int
	doi	nvarchar(20)
	accession_number_part1	nvarchar(50)
	accession_number_part2	int
	accession_number_part3	nvarchar(50)
	is_core	nvarchar(1)
	is_backed_up	nvarchar(1)
	backup_location1_site_id	int
	backup_location2_site_id	int
▶	status_code	nvarchar(20)
	life_form_code	nvarchar(20)

screen from SSMS



How does GG Do it? Relate table names to dataview friendly names?

## **Table Mappings**

- associate *dataview* fields to specific table fields in the database

... for showing friendly column names, allowing updates, etc.

- enables the dataview editor, as well as the middle tier – enables the updating via the dataview

# Mapped vs. Unmapped

When fields are added to the table using SSMS, they need to be mapped

...map with the Admin Tool

Database fields *must be mapped* if they are to be available to GG



# Table Mappings

N-Global Admin v 1.10.6.0 - [Table Mapping - accession - localhost\sqlexpress]

View Tools Help

localhost\sqlexpress - sqlserver > Table Mappings > accession

Database Area:   Enabled

Fields Relationships Indexes

Name	Purpose	Type	User Interface	Default	Required?	Read On...	Foreign...	Foreign Key Field	Lookup Picker Sou...	Drop Down Source
accession_id	Primary Key	Integer	Textbox (integer...		Y	Y	N			
accession_nu...	Editable D...	Text	Textbox (free-fom)		Y	N	N			
doi	Editable D...	Text	Textbox (free-fom)		N	N	N			
accession_nu...	Editable D...	Integer	Textbox (integer...		N	N	N			
accession_nu...	Editable D...	Text	Textbox (free-fom)		N	N	N			
is_core	Editable D...	Text	Checkbox	N	Y	N	N			
is_backed_up	Editable D...	Text	Checkbox	N	Y	N	N			
backup_locati...	Editable D...	Integer	Lookup Picker	{DBNull.Value}	N	N	Y	site.site_id	site_lookup	
backup_locati...	Editable D...	Integer	Lookup Picker	{DBNull.Value}	N	N	Y	site.site_id	site_lookup	
status_code	Editable D...	Text	Drop Down	ACTIVE	Y	N	N			ACCESSION_STA...
life_fom_code	Editable D...	Text	Drop Down	{DBNull.Value}	N	N	N			ACCESSION_LIFE...
improvement_...	Editable D...	Text	Drop Down	{DBNull.Value}	N	N	N			IMPROVEMENT_...
reproductive_...	Editable D...	Text	Drop Down	{DBNull.Value}	N	N	N			REPRODUCTIVE_...
initial_receive...	Editable D...	Text	Drop Down	{DBNull.Value}	N	N	N			GERMPLASM_FO...

AT provides more info than SSMS !

# Use Case

- A field was requested for the accession table to store a URL but not in the Note field because...

[

see NPGS TRAINING accession MAR 1 RRG

<https://training.ars-grin.gov/gringlobal/accessiondetail?id=2108129>

]

# Narrative on the PW is the Note field

Reisinger Resource Group X Search Accessions GRIN-Global X MAR 1 RRG GRIN-Global X GG AT Webinar Series - 2020 X gg\_AT\_exer02.p

https://training.ars-grin.gov/gringlobal/accessiondetail?id=2108129

visited Beyond Building PLACES GarrettCo. COVID-19 GG B350Talk Plants Food Gov SITES REFS Files Chil

Summary **Passport** Taxonomy Other Pedigree IPR Observation

**Core Passport Data**

Taxonomy:	<i>Humulus lupulus L.</i>
Top Name:	MAR 1 RRG
Origin:	–
Maintained:	North Central Regional PI Station
Received by NPGS:	29 Nov 2020

**Accession Names and Identifiers**

**MAR 1 RRG**  
Type: Site identifier

**Narrative**

Defender; for more info see... [PI 284730](#)

**Source History**

As an aside, in this Note field, how was the link created?

Accessions	Inventory	Orders	Cooperators	Get Crop Trait Observation	Get Crop	Get Crop Trait	Crop Tr
	Received Date	Is Web Visible?	Note				
	11/29/2020	Y	Defender; for more info see... <a href="https://training.ars-grin.gov/gringlobal/accessiondetail?id=1212788">PI 284730</a>				

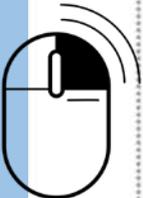
# Table Mappings

The screenshot displays the SQL Server Enterprise Manager interface. The left pane shows the server hierarchy for 'localhost\sqlexpress - sqlserver', with 'Table Mapping' selected. The right pane shows a table grid with the following data:

Table	Enabled?
<input type="checkbox"/> accession	Y
<input type="checkbox"/> accession_action	Y
<input type="checkbox"/> accession_inv_annotation	Y
<input type="checkbox"/> accession_inv_name	Y
<input type="checkbox"/> accession_inv_voucher	Y
<input type="checkbox"/> accession_pedigree	Y
<input type="checkbox"/> accession_quarantine	Y
<input type="checkbox"/> accession_source	Y

The context menu is open over the 'Table Mapping' folder, showing the following options:

- Inspect Schema for Unmapped Tables...
- Create Unmapped Relationships
- Delete Orphaned Mappings
- Refresh
- Properties**



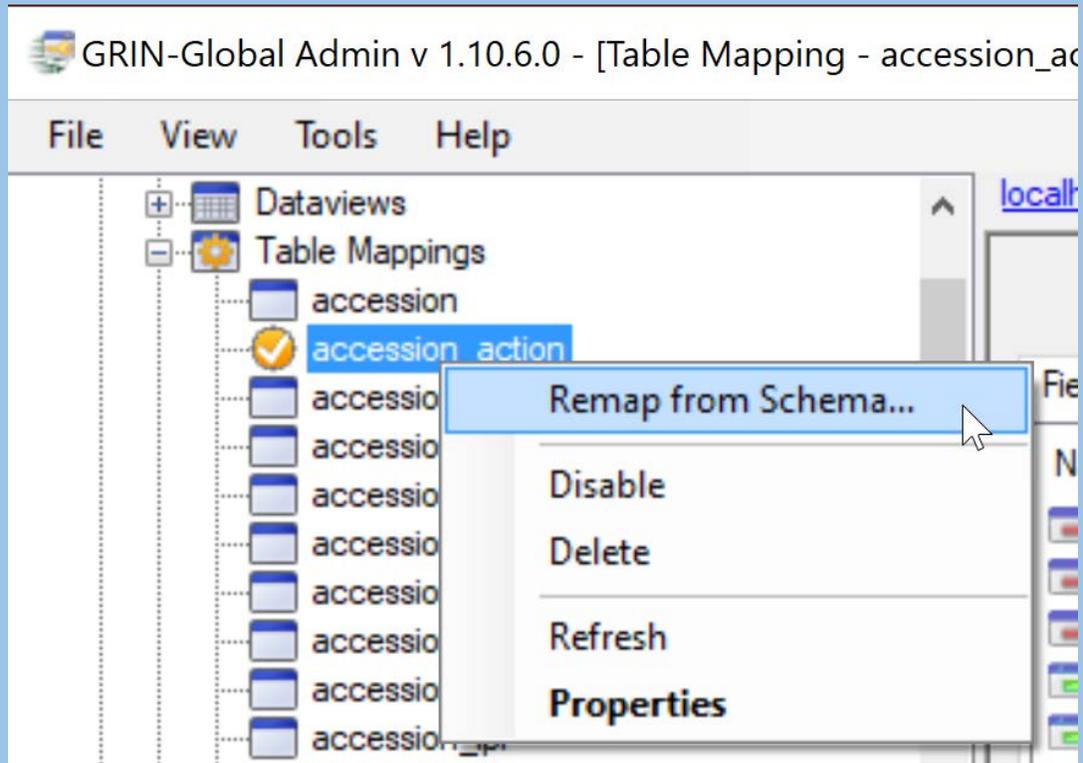
# Table Mappings: Table Level

Menu Item	Description
<b>Inspect Schema for Unmapped Tables</b>	List all tables in the schema which are not currently mapped
<b>Create Unmapped Relationships</b>	Use when a table has been modified in the database schema and has one or more relationships that have been modified, added, or removed, but which were not yet mapped in Table Mappings.
<b>Delete Orphaned Mappings</b>	Delete “Orphaned Mappings” – when tables have been dropped from the schema, but are still mapped in Table Mappings
<b>Refresh</b>	Refreshes the view in the Admin Tool with the latest data from the database.
<b>Properties</b>	See Refresh.

# Table Mappings: Field Context Menu

Menu Item	Description
<b>New Field...</b>	Map a new field to GRIN-Global
<b>Show Dependencies...</b>	Displays a list of all instances where the field is referenced in dataviews
<b>Delete</b>	Deletes the field's table mapping information
<b>Export List</b>	Generates a .csv file of the table mappings
<b>Refresh</b>	Ensures the display is current
<b>Properties</b>	Displays Table Mappings: Field Detail Window

# New Field Added?



the following steps  
show how to map...

# Steps in Mapping a DB *Field* to a Dataview

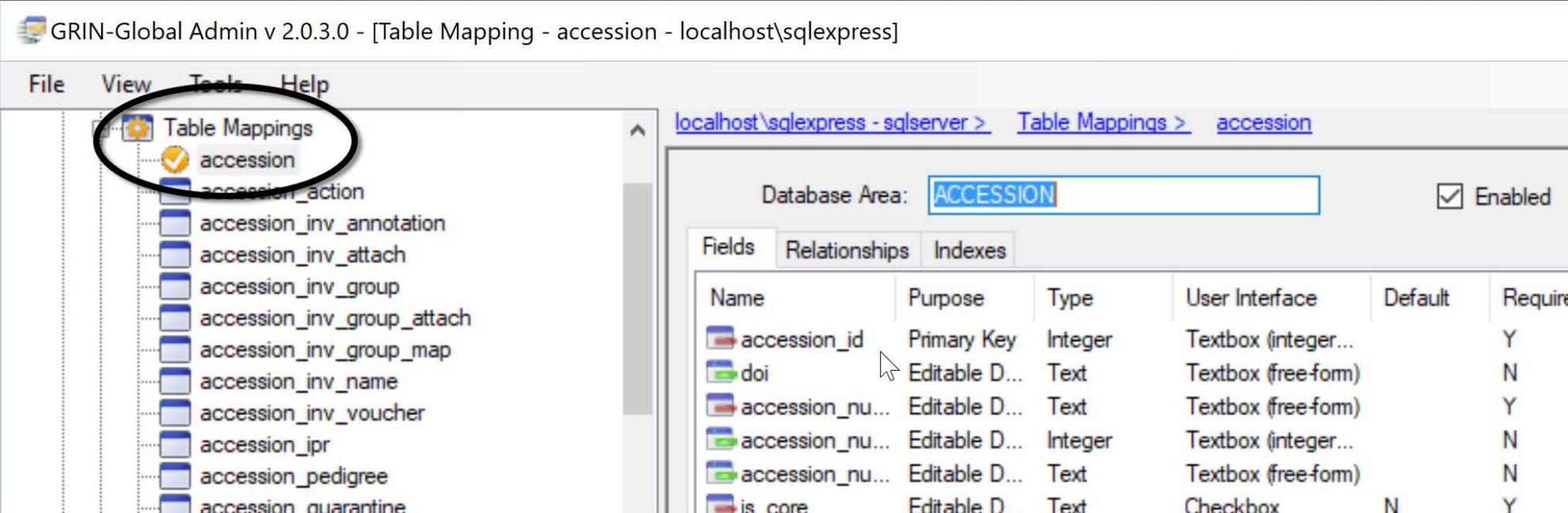
1. Create the field in the database (use SSMS)

Example:

```
USE gringlobal
ALTER TABLE dbo.accession
ADD noteURL nVARCHAR(max) NULL
;
```

# Steps in Mapping a DB *Field* to a Dataview

## 2. In the AT, select the table in Table Mappings

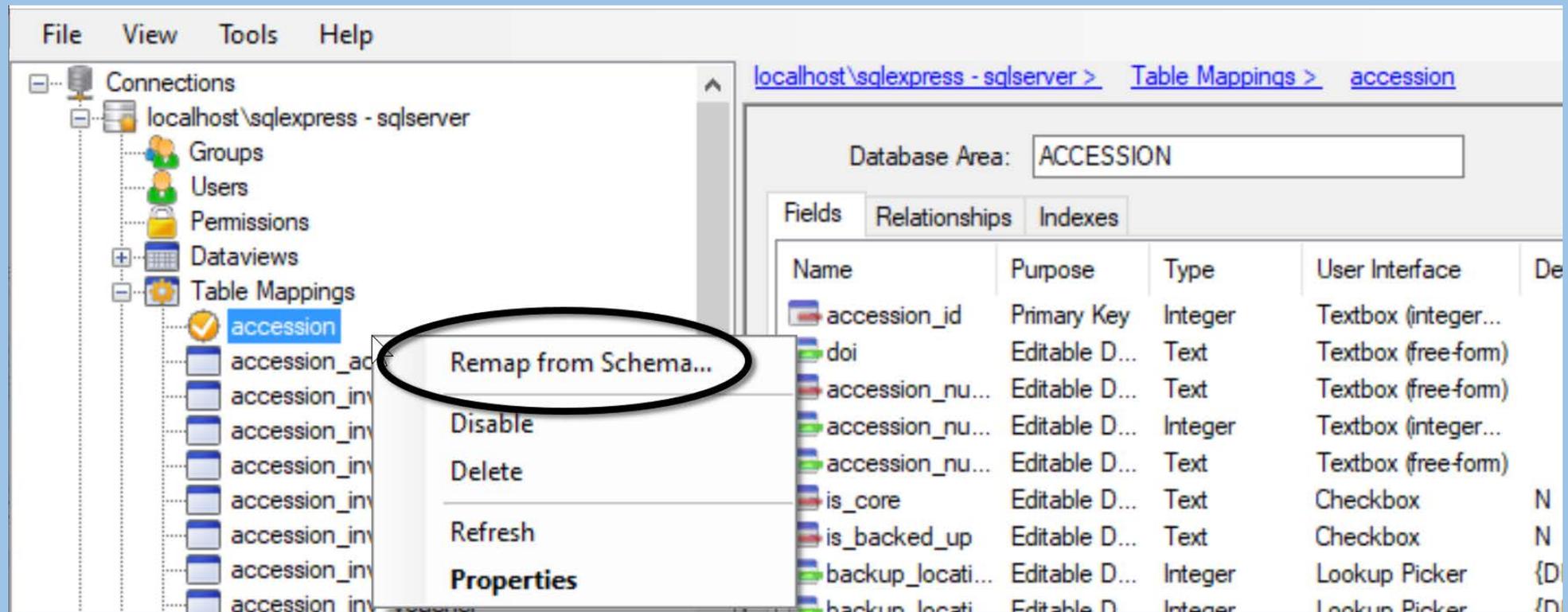


The screenshot shows the GRIN-Global Admin v 2.0.3.0 interface. The title bar indicates the current view is 'Table Mapping - accession - localhost\sqlexpress'. The 'Table Mappings' section in the left-hand tree view is circled in black, and the 'accession' table is selected. The main pane displays the configuration for the 'accession' table in the 'ACCESSION' database area, which is enabled. The 'Fields' tab is active, showing a table of field definitions.

Name	Purpose	Type	User Interface	Default	Required
accession_id	Primary Key	Integer	Textbox (integer...		Y
doi	Editable D...	Text	Textbox (free-fom)		N
accession_nu...	Editable D...	Text	Textbox (free-fom)		Y
accession_nu...	Editable D...	Integer	Textbox (integer...		N
accession_nu...	Editable D...	Text	Textbox (free-fom)		N
is_core	Editable D...	Text	Checkbox	N	Y

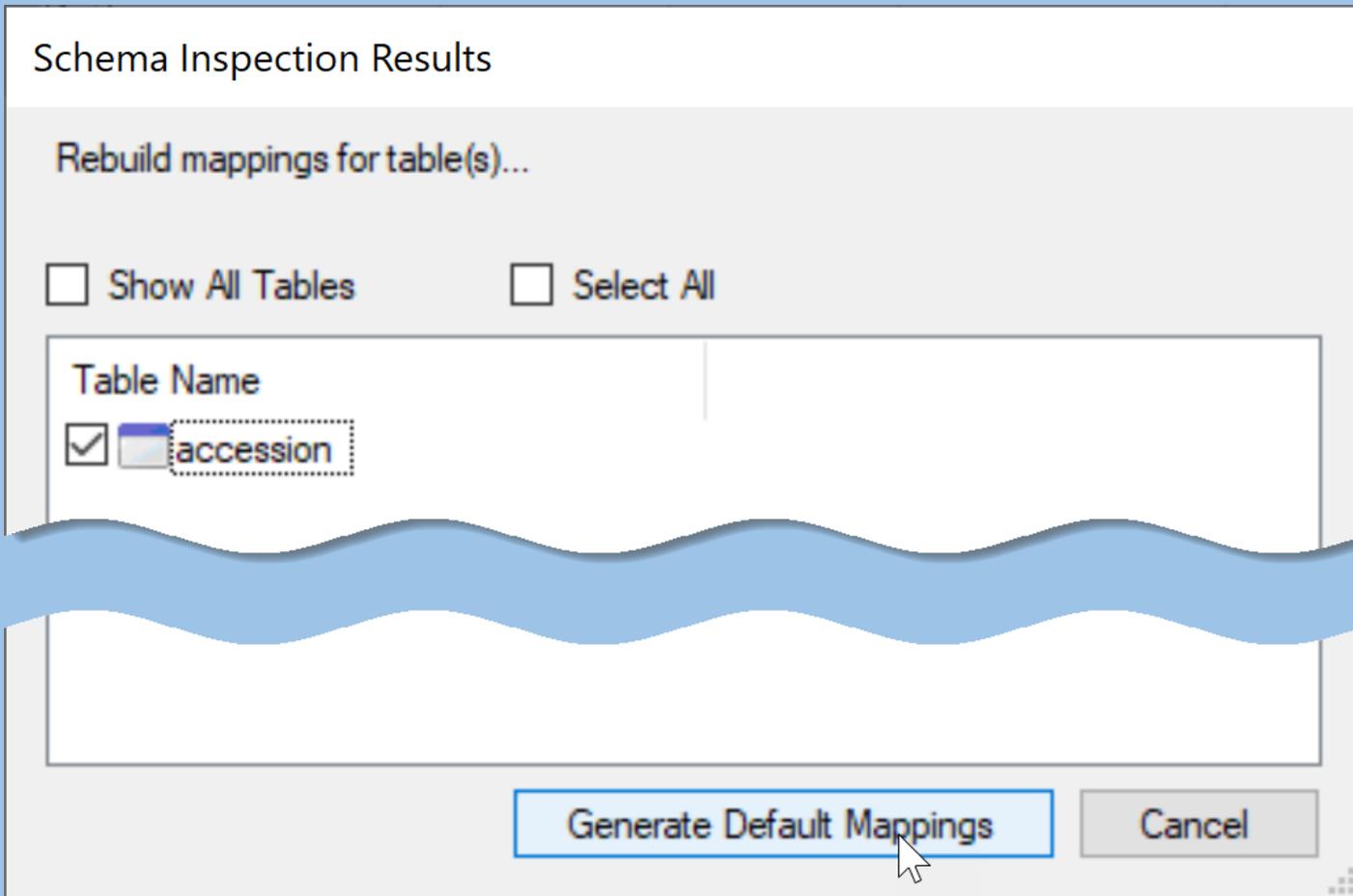
# Steps in Mapping a DB *Field* to a Dataview

## 3. Right-click on the table name; select **Remap from Schema**



# Steps in Mapping a DB *Field* to a Dataview

## 4. Select **Generate Default Mappings**



# Table Mappings: Field Detail (Properties)

Table Mapping Field Detail

Name:

Is Primary Key  Is Auto Incremented  Auto-save on move

Is Foreign Key

Foreign Key Detail

Field:

Is Required  Is Read Only

Purpose:  Min Length:  Max Length:   Unlimited

Type:   Empty (prevent saving unspecified value)

Default Value:

User Interface:

Display Text:

	Language	Title	Description
▶	Český		
	ENG	Accession Prefix	accession_number_part1 -- Each acce...
	English	Accession Prefix	accession_number_part1 -- Each acce...
	Español	Prefijo de la accesión	
	Français	Préfixe de l'accession	
	Português	Prefixo do acesso	

complete the Titles and Descriptions in the desired languages

# Steps in Mapping a DB *Field* to a Dataview

## 5. Edit Titles & Descriptions; ...other options as needed

Table Mapping Field Detail

Name:

Is Primary Key  Is Auto Incremented  Auto-save on move

Is Foreign Key

Foreign Key Detail

Field:

Is Required  Is Read Only

Purpose:  Min Length:  Max Length:   Unlimited

Type:   Unlimited

Default Value:   Empty Default Value

User Interface:

Display Text:

	Language	Title	Description
	Český		
	ENG		
...	English	URL	Accepts html code for URL
	Español		
	Français		
	Português		

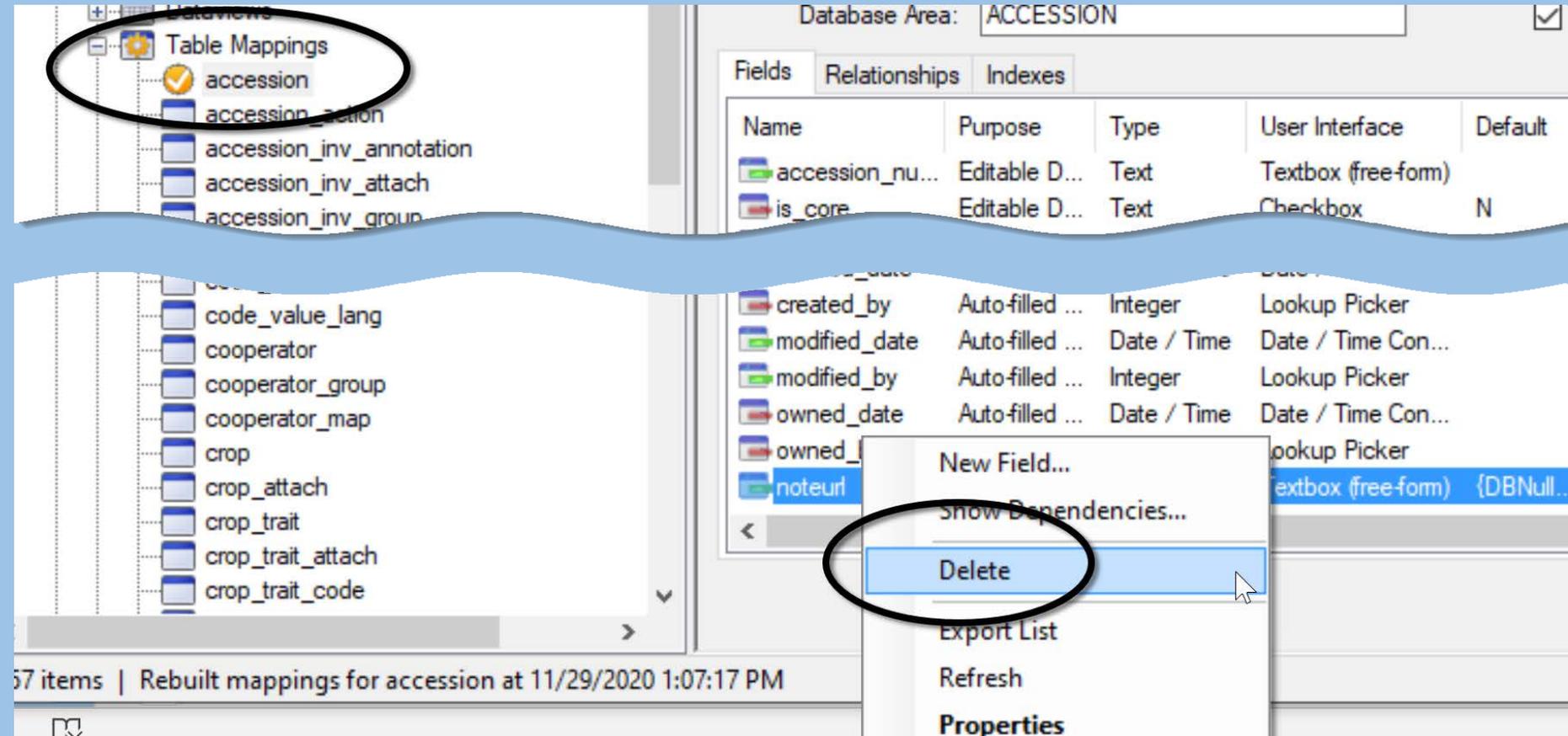


# Steps in Mapping a DB *Field* to a Dataview

## 7. Test: Preview

# Table Mappings: (Field) Delete Option

- is not deleting the actual table field
- is removing the field's mapping



# Table Mappings: Inspect Schema

GRIN-Global Admin v 2.0.3.0 - [Table Mappings - localhost\sql[express]]

File View Tools Help

localhost\sql[express] - sqlserver > Table Mappings

Table	Enabled?
<input type="checkbox"/> accession	Y
<input type="checkbox"/> accession_action	Y
<input type="checkbox"/> accession_inv_annotation	Y
<input type="checkbox"/> accession_inv_annotation	Y
<input type="checkbox"/> accession_inv_annotation	Y

Inspect Schema for Unmapped Tables...  
Create Unmapped Relationships  
Delete Orphaned Mappings  
Refresh  
Properties

Schema Inspection Results

All tables in the database schema are already mapped.

Show All Tables  Select All

Table Name

Generate Default Mappings Cancel

when all tables have  
been mapped

# Table Mappings: Inspect Schema...

Schema Inspection Results

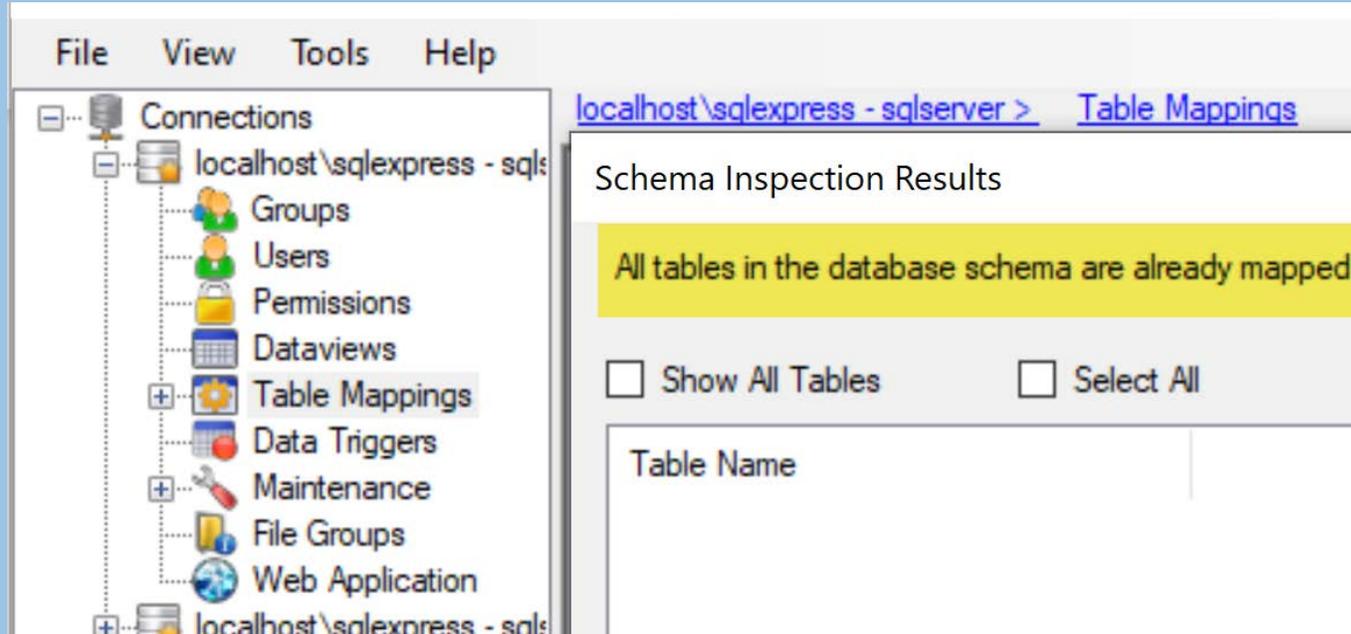
Listing all tables in the database schema.

Show All Tables       Select All

Table Name
<input checked="" type="checkbox"/> Note
<input checked="" type="checkbox"/> notepad
<input type="checkbox"/> accession
<input checked="" type="checkbox"/> accession_action
<input type="checkbox"/> accession_inv_annotation
<input type="checkbox"/> accession_inv_attach
<input type="checkbox"/> accession_inv_group
<input type="checkbox"/> accession_inv_group_attach
<input type="checkbox"/> accession_inv_group_map
<input type="checkbox"/> accession_inv_name

changes  
detected

# Table Mappings: Create Unmapped ...



(when all  
tables have  
been mapped)

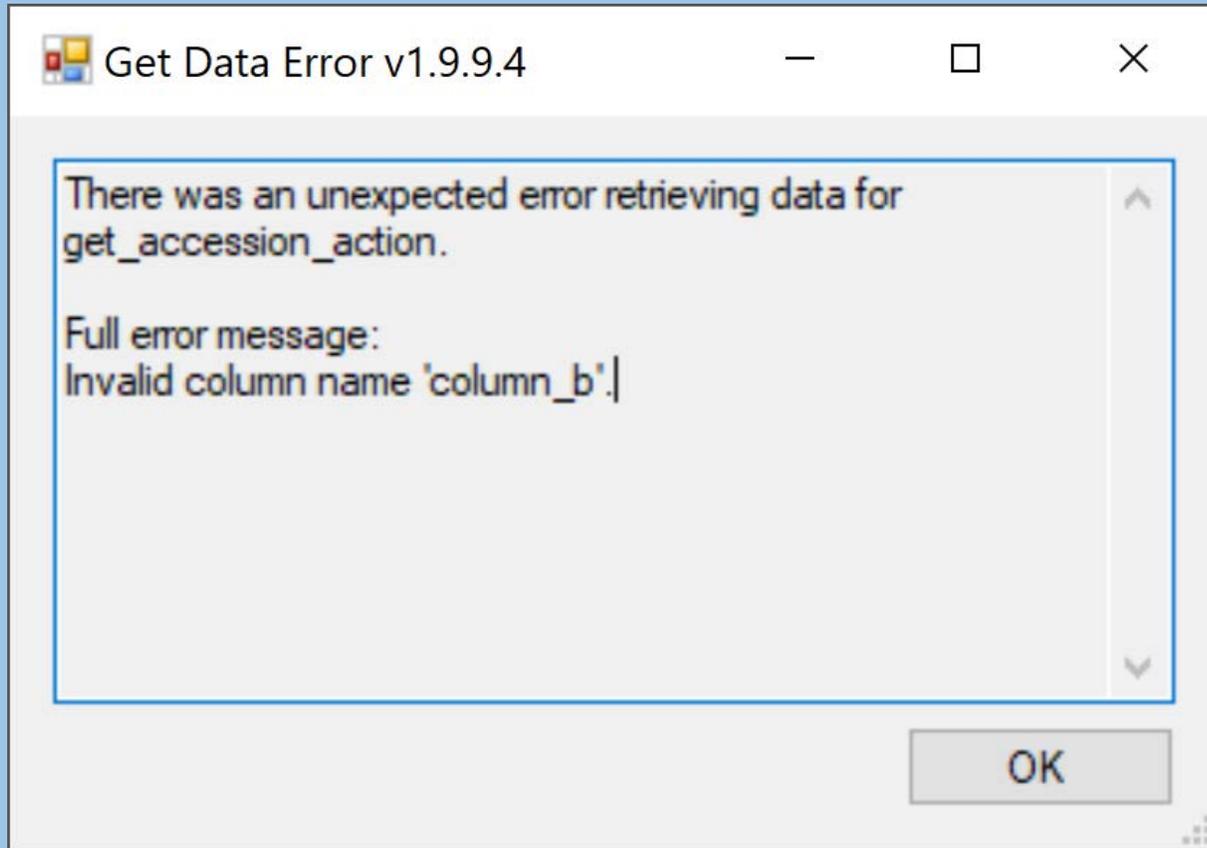
(First – in SSMS – Create Table)

# Table Mappings: Delete Orphaned Mappings

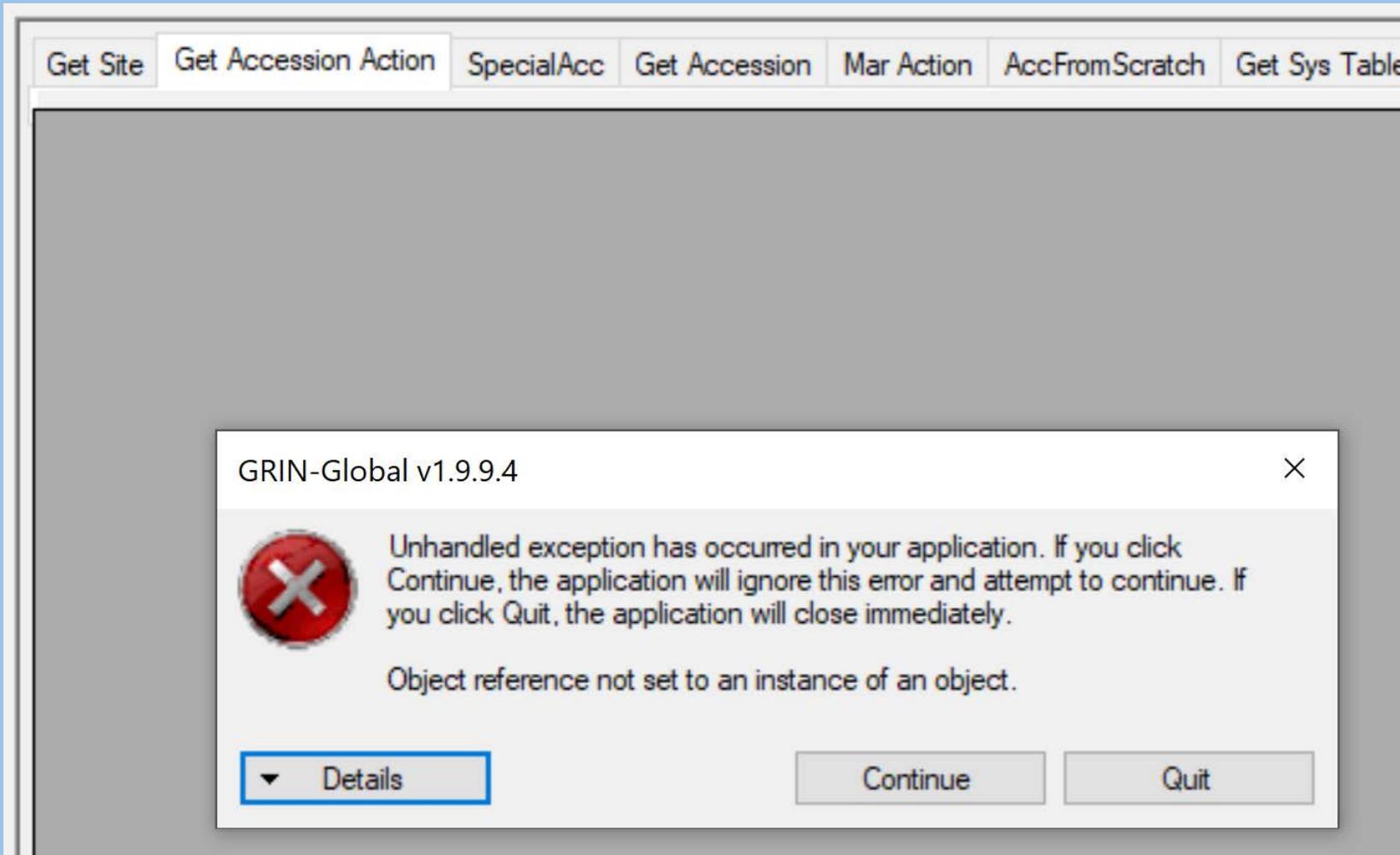
## Delete “Orphaned Mappings”

- when tables have been dropped from the schema, but are still mapped in Table Mappings

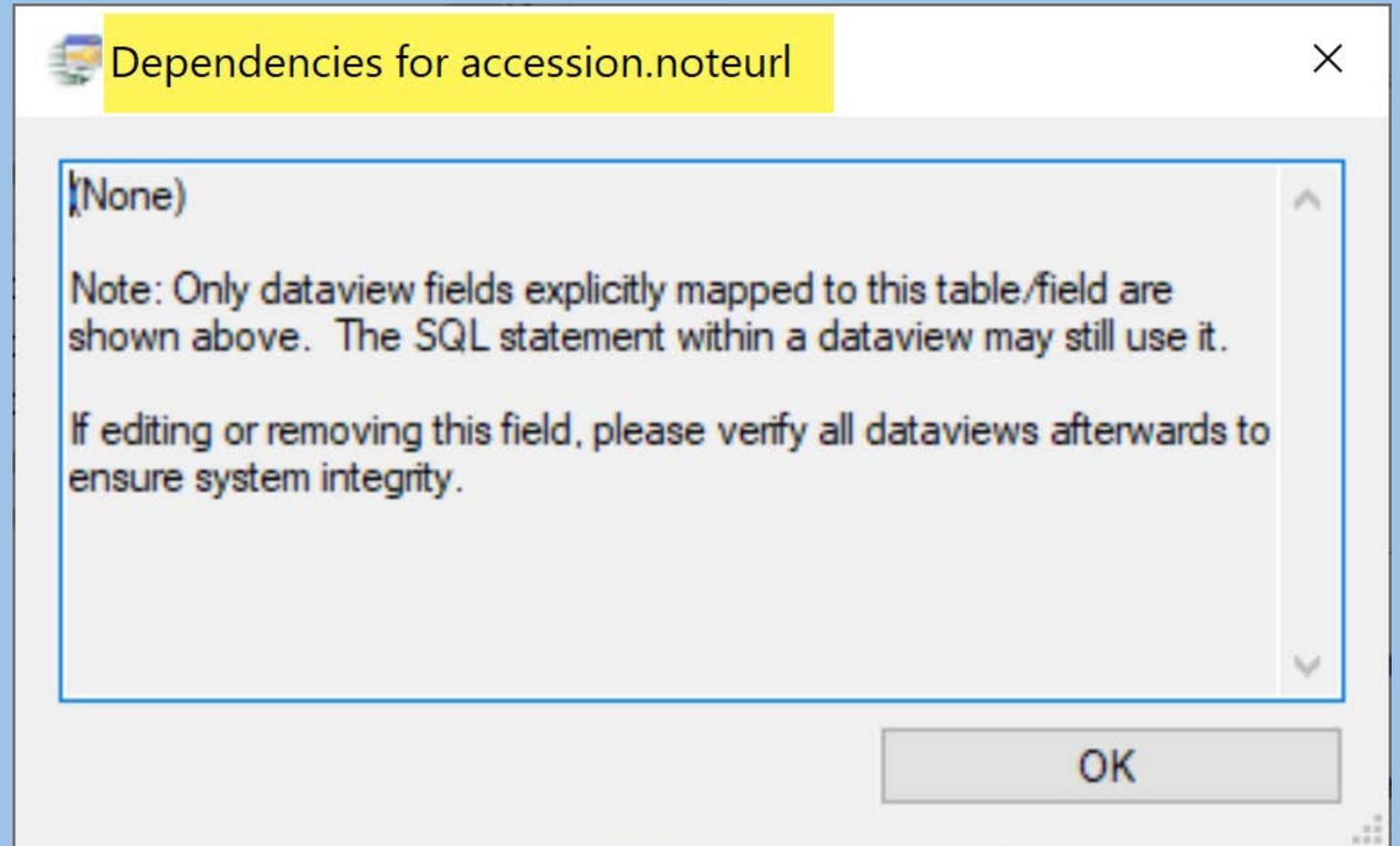
# CT Error Message when Table Mapping isn't quite right



# CT Error Message when Table Mapping isn't quite right



# Table Mapping: Show Dependencies Option



# Show Dependencies

The screenshot shows the SQL Server Enterprise Manager interface. The 'Table Mappings' pane is open for the 'accession' table in the 'ACCESSION' database. The 'Fields' tab is selected, and the 'accession\_id' field is highlighted. A context menu is open over the field, with 'Show Dependencies...' selected. A secondary dialog box titled 'Dependencies for accession.accession\_id' is displayed, listing various dataview fields that depend on the selected field. A yellow highlight is present at the bottom of the dialog box.

Database Area:   Enabled

Fields Relationships Indexes

Name	Purpose	Type	User Interface	De
accession_id	Primary Key	Integer	Textbox (integer...	
doi			Textbox (free-fom)	
accession_nur			Textbox (free-fom)	
accession_nur			Textbox (integer...	
accession_nur			Textbox (free-fom)	
is_core				
is_backed_up				
backup_locati				
backup_locati				
status_code				

Context Menu:

- New Field...
- Show Dependencies...
- Delete
- Export List
- Refresh
- Properties

Dependencies for accession.accession\_id

- Dataview/Field: web\_feedback\_participantaccession\_summary.accession\_id
- Dataview/Field: web\_feedback\_participantdefault\_accessions.accession\_id
- Dataview/Field: web\_feedback\_participantorder\_accessions.accession\_id
- Dataview/Field: web\_method\_descriptor\_accession.accession\_id
- Dataview/Field: web\_order\_history\_detail.accession\_id
- Dataview/Field: web\_order\_request\_item\_list.accession\_id
- Dataview/Field: web\_order\_request\_item\_list\_2.accession\_id
- Dataview/Field: web\_qry\_order\_label.acid
- Dataview/Field: web\_search\_observation.accession\_id
- Dataview/Field: web\_search\_overview.accession\_id
- Dataview/Field: web\_search\_overview\_avail.accession\_id
- Dataview/Field: web\_search\_overview\_export.accession\_id
- Dataview/Field: web\_search\_source.accession\_id
- Dataview/Field: web\_site\_taxon\_accessionlist.accession\_id
- Dataview/Field: web\_taxonomygenus\_view\_accessionlist.accession\_id
- Dataview/Field: web\_taxonomyspecies\_view\_accessionlist.accession\_id
- Dataview/Field: web\_taxonomyspecies\_view\_accessionmaps.accession\_id

Note: Only dataview fields explicitly mapped to this table/field are shown above. The SQL statement within a dataview may still use it.

If editing or removing this field, please verify all dataviews afterwards to ensure system integrity.

# Table Mappings - Relationships

- Relationships for a table. ... used by the dataview editor to determine how to automatically generate SQL when a table or field is dragged onto the SQL pane
- Also used by the middle tier to determine ownership of a database record when a new record is created.

# Relationships

GRIN-Global Admin v 1.10.6.0 - [Table Mapping - inventory - localhost\sqlexpress]

File View Tools Help

localhost\sqlexpress - sqlserver > Table Mappings > inventory

Database Area: INVENTORY  Enabled

Fields Relationships Indexes

Child	Type	Parent
inventory.accession_id	Parent	accession.accession_id
inventory.created_by	Parent	cooperator.cooperator_id
inventory.modified_by	Parent	cooperator.cooperator_id
inventory.owned_by	Parent	cooperator.cooperator_id
inventory.backup_inventory_id	Self-referential parent	inventory.inventory_id
inventory.parent_inventory_id	Self-referential parent	inventory.inventory_id
inventory.inventory_maint_policy_id	Parent and owner	inventory_maint_policy.inventory_maint_policy_id
inventory.preservation_method_id	Parent	method.method_id
inventory.regeneration_method_id	Parent	method.method_id

When the relationship type is “OWNER\_PARENT,” the record in the child table is owned by the owner of the parent record

# Indexes

displays table keys

The screenshot shows the Microsoft SQL Server Management Studio interface. On the left, the Object Explorer displays the 'Indexes' folder for the 'accession' table, with 'ndx\_uniq\_ac (Unique, Non-Clustered)' highlighted. The main window shows the 'Index Properties' dialog for 'ndx\_uniq\_ac', where the 'Unique' checkbox is checked. Below the dialog, the 'Table Mappings' window for the 'accession' table is visible, showing a list of indexes and their fields.

Name	Sort Order	Data Type	Size	Identity	Allow NULLs	Add...	Remove	Move Up	Move Down
accession_number_part1	Ascending	nvarchar(50)	100	No	No				
accession_number_part2	Ascending	int	4	No	Yes				
accession_number_part3	Ascending	nvarchar(50)	100	No	Yes				

Name	Is Unique?	Fields
ndx_a_part1	N	(1) accession_number_part1
ndx_a_part2	N	(1) accession_number_part2
ndx_a_part3	N	(1) accession_number_part3
ndx_fk_a_created	N	(1) created_by
ndx_fk_a_modified	N	(1) modified_by
ndx_fk_a_owned	N	(1) owned_by
ndx_fk_a_t	N	(1) taxonomy_species_id
ndx_uniq_ac	Y	(3) accession_number_part1, accession_number_part2, accession_number_part3
ndx_uniq_doi	Y	(1) doi

Languages ...Tables ...and Dataviews

# Languages ...Tables ...and Dataviews

Table	Stores data for the...
<code>sys_table_field_lang</code> <code>sys_dataview_field_lang</code>	Column headings displayed in the dataviews
<code>app_resource</code>	Interface elements: buttons, etc.
<code>sys_dataview_lang</code>	Dataviews' Titles & Descriptions
<code>code_value</code> <code>code_value_lang</code>	Codes that display in the dropdowns
<code>sys_language</code>	Languages installed in GG

# Establishing What Languages Will Exist

Use the System Language Dataview: `sys_language`

# Friendly Heading Names

...can be defined at 2 Levels:

- *table* field level  
the table field friendly heading name serves as the *default* heading name whenever a new dataview is created
- *dataview* field level  
using the AT dataview editor, a GG admin can rename any field heading for a *specific* dataview

# Friendly Heading Names

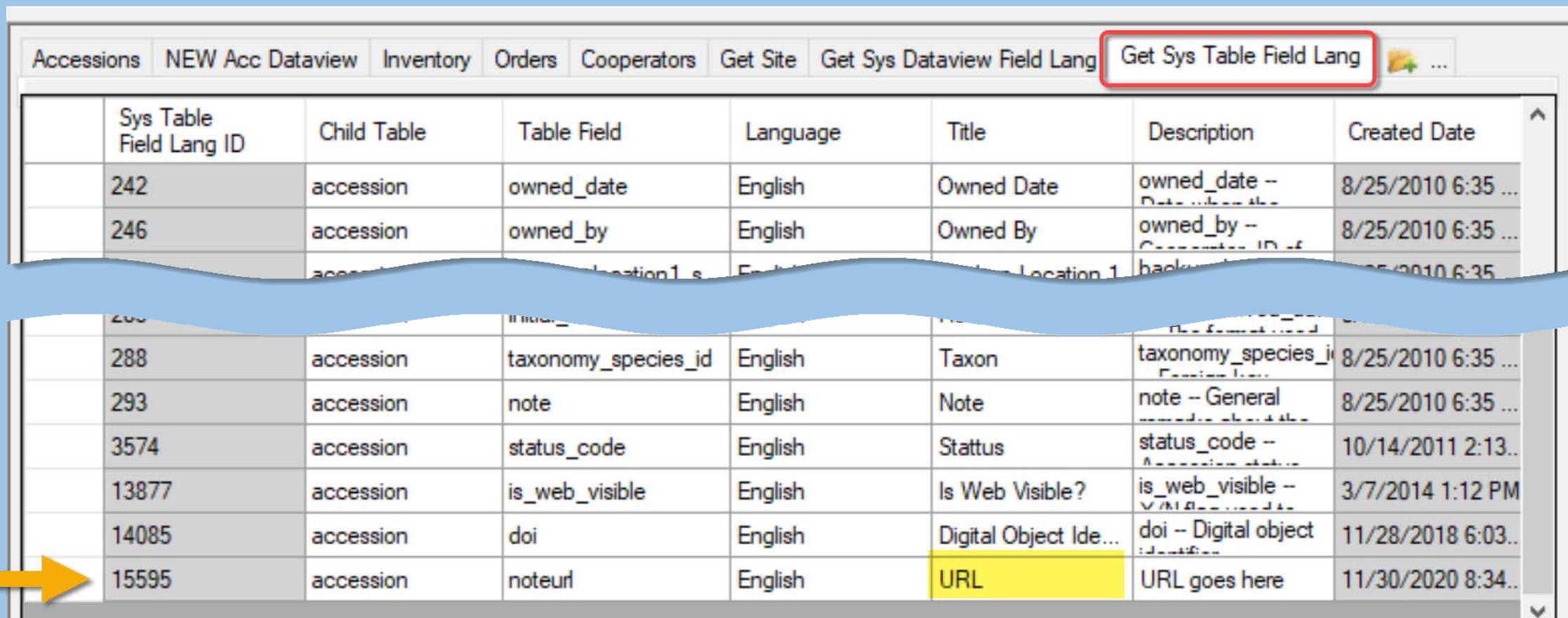
...can be defined at 2 Levels:

- *table* field level  
the table field friendly heading name serves as the *default* heading name whenever a new dataview is created
- *dataview* field level  
using the AT dataview editor, a GG admin can rename any field heading for a *specific* dataview ... ***this does not change the field heading for other dataviews***

# Friendly Names – 2 Types

- *table/field level* & *dataview/field level*
- With new dataviews, the *table/field* friendly name is the default friendly name
  - accession\_number\_part1 = Accession Prefix**

# DB Table Field default *friendly names*



Sys Table Field Lang ID	Child Table	Table Field	Language	Title	Description	Created Date
242	accession	owned_date	English	Owned Date	owned_date -- Date when the	8/25/2010 6:35 ...
246	accession	owned_by	English	Owned By	owned_by -- Cooperator ID of	8/25/2010 6:35 ...
288	accession	taxonomy_species_id	English	Taxon	taxonomy_species_id -- Taxon ID	8/25/2010 6:35 ...
293	accession	note	English	Note	note -- General	8/25/2010 6:35 ...
3574	accession	status_code	English	Status	status_code -- Accession status	10/14/2011 2:13..
13877	accession	is_web_visible	English	Is Web Visible?	is_web_visible -- Whether the	3/7/2014 1:12 PM
14085	accession	doi	English	Digital Object Ide...	doi -- Digital object	11/28/2018 6:03..
15595	accession	noteurl	English	URL	URL goes here	11/30/2020 8:34..

screen from CT: URL in this example is the default friendly name

# Dataview-specific *friendly names*

The screenshot shows a software interface with a table of system dataview field languages. The table has columns for Sys Dataview Field Lang ID, Sys Dataview, Field, Language, Title, and Description. The row with ID 49764 is highlighted in yellow, showing the title 'URL Here'. The interface also includes a navigation bar at the top with tabs like 'Accessions', 'NEW Acc Dataview', 'Inventory', 'Orders', 'Cooperators', 'Get Site', 'Get Sys Dataview Field Lang', and 'Get Sys Table Field Lang'. A 'Column Chooser' sidebar is visible on the right, and a 'Refresh Data' button is at the bottom right.

Sys Dataview Field Lang ID	Sys Dataview	Field	Language	Title	Description
49749	NEWaccession	initial_received_date	Český	Datum původníh...	
49750	NEWaccession	initial_received_date	Français	Date de réceptio...	
49751	NEWaccession	note	Český	Poznámka	
49753	NEWaccession	created_date	Český	Datum vytvoření	
49754	NEWaccession	created_date	Français	Date de création	
49763	NEWaccession	owned_by	Français	Détenu(e) par	
49764	NEWaccession	noteurl	English	URL Here	

screen from CT: the Title highlighted here is the friendly name used by the **NEWaccession** dataview (only)

# Confusing? !?!

... the AT dataview editor Fields tab doesn't indicate whether you are seeing the underlying (default) `sys_table_field_lang` heading name or the overriding `sys_dataview_field_lang` heading name.

Reference: ***Languages & GRIN-Global***

[https://www.grin-global.org/docs/gg\\_language\\_guide.docx](https://www.grin-global.org/docs/gg_language_guide.docx)

Questions?

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# Friendly Names – 2 Types

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

- With new dataviews, the table/field friendly name is the default friendly name

**accession\_number\_part1 = Accession Prefix**

- Select “**Include language-specific field names**” checkbox to pull in the “friendly” names
- Selecting “**Use as defaults in table mappings**” checkbox will write the *table-level* “friendly” name for each field