GRIN-Global – Administrator Webinar

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

martin reisinger,
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

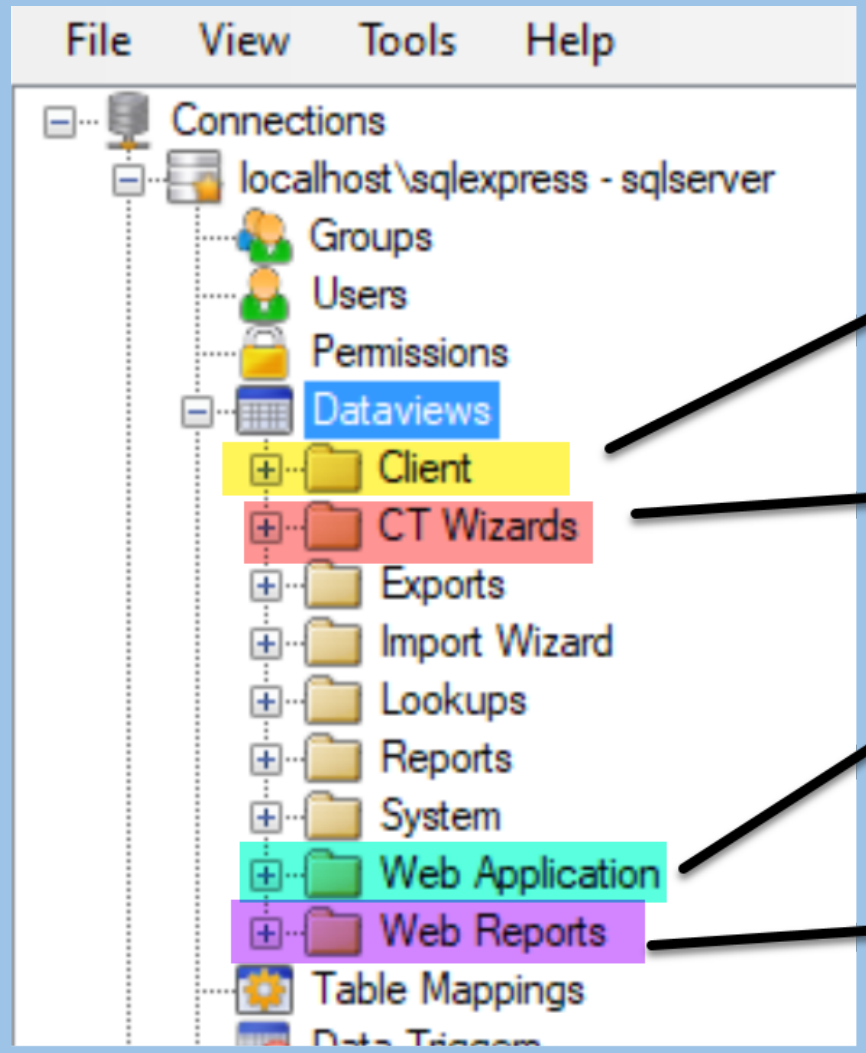
- are they known as “friendly names,” “alternate names,” or “database table names” ?

- – are they defined in SSMS? NO

Review

- Questions regarding any topics covered in the Previous Sessions

Dataviews: Categories



Curator & Search Tools

Wizards (w/ Build)

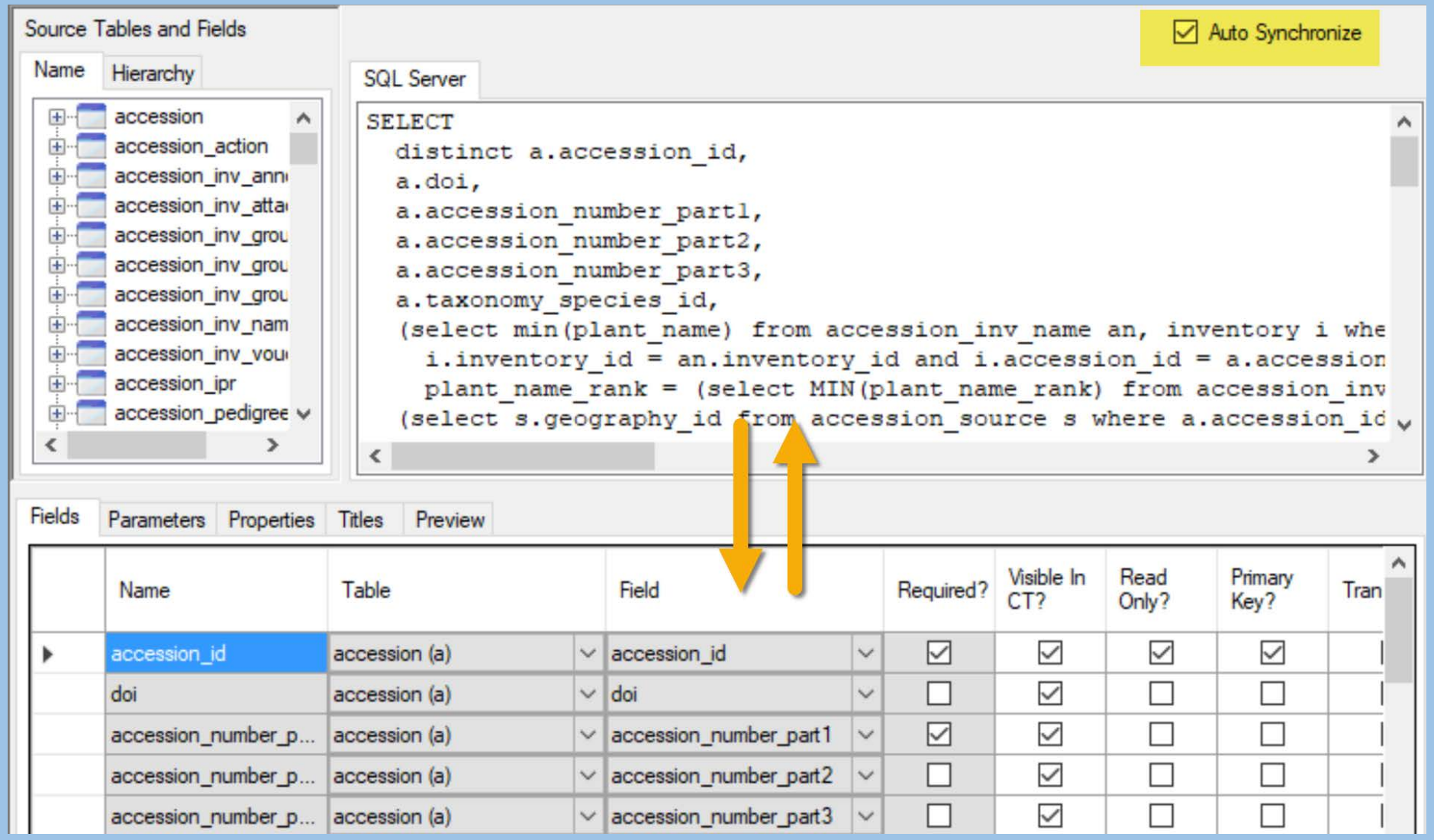
Public Website

Reports on Public Website

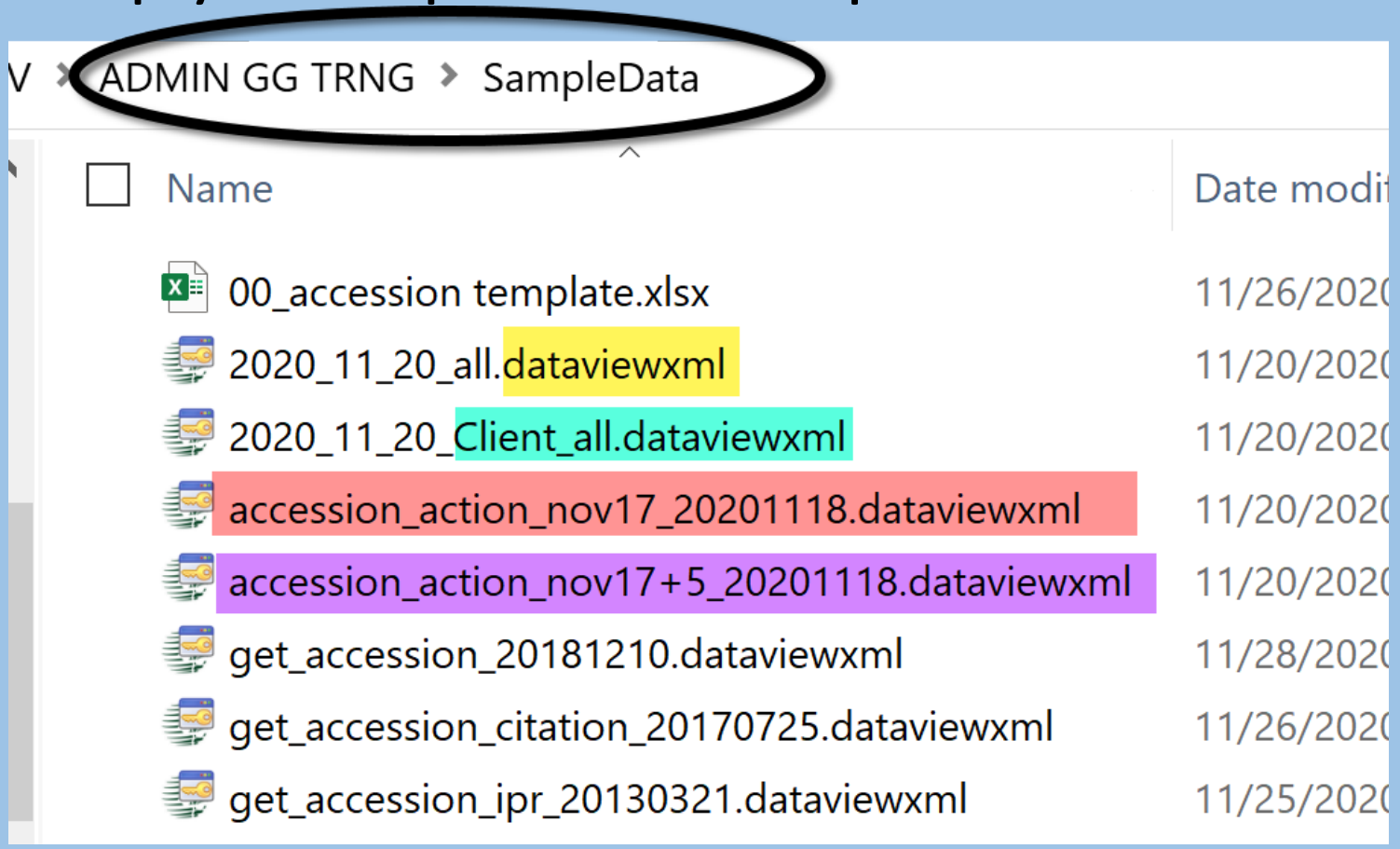
- Leave others alone!

Fields…

Auto Synchronize



Copy / Export & Import / Rename



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

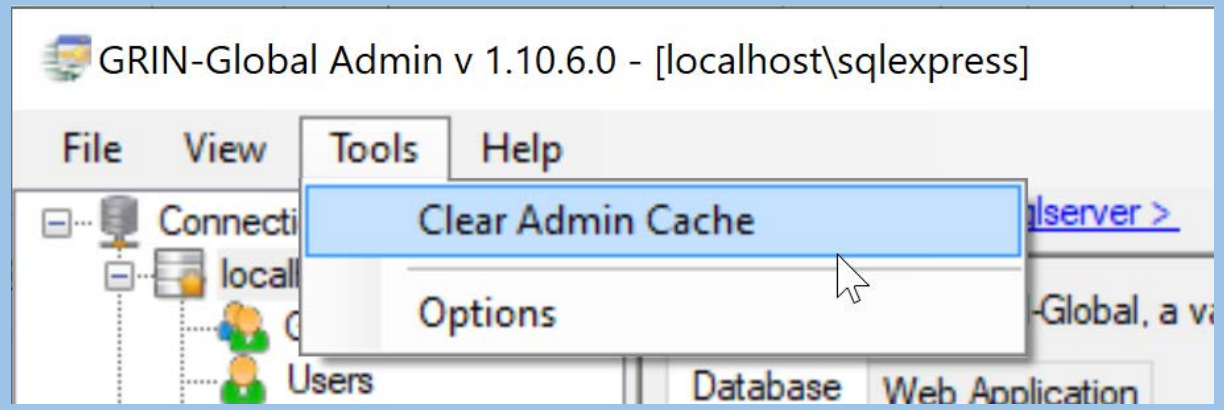
- Before deleting a column…
  - check if required
  - comment out first

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…

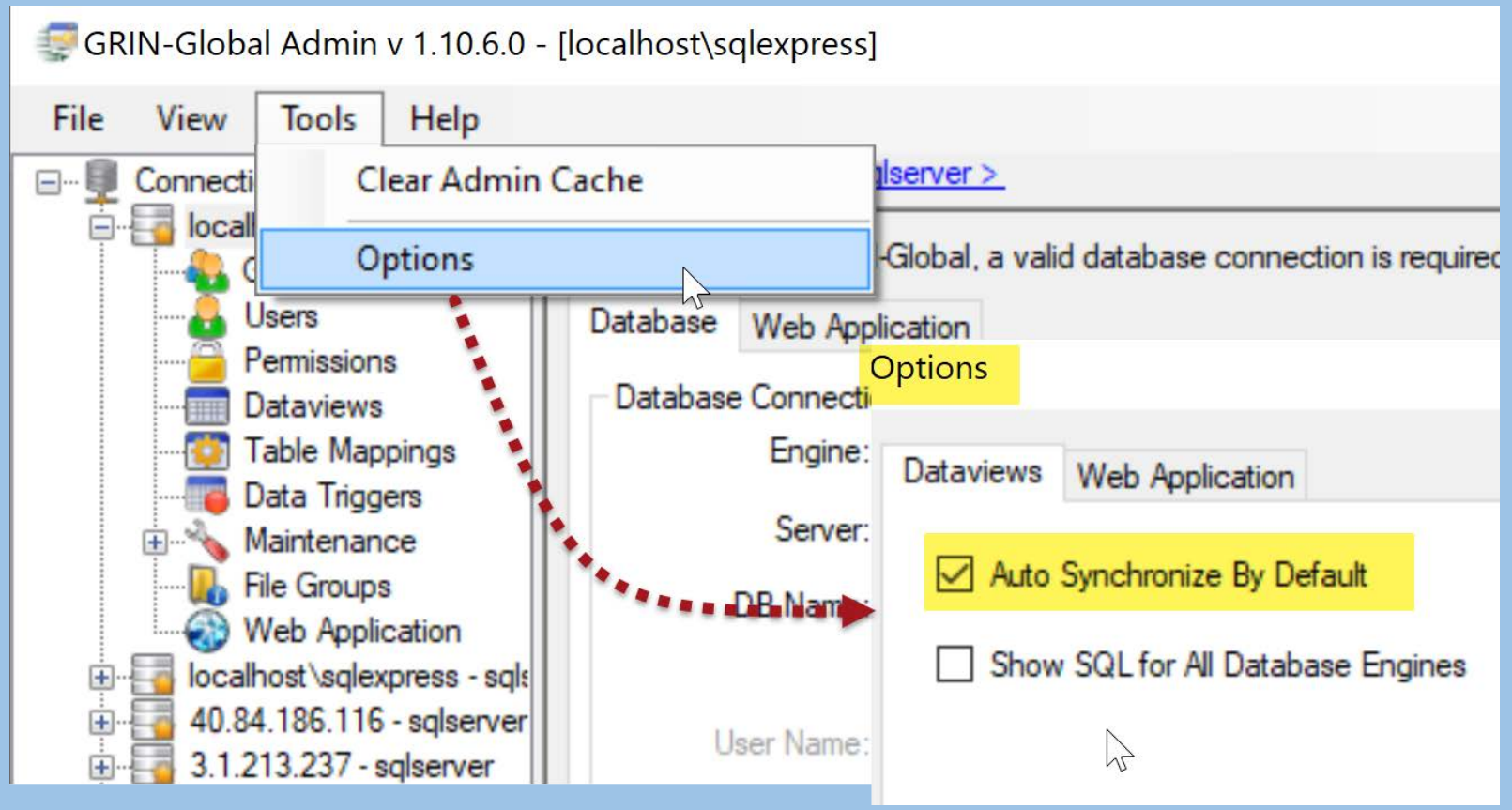
Change the dataview’s Category to **Client (**in **Properties)**

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?

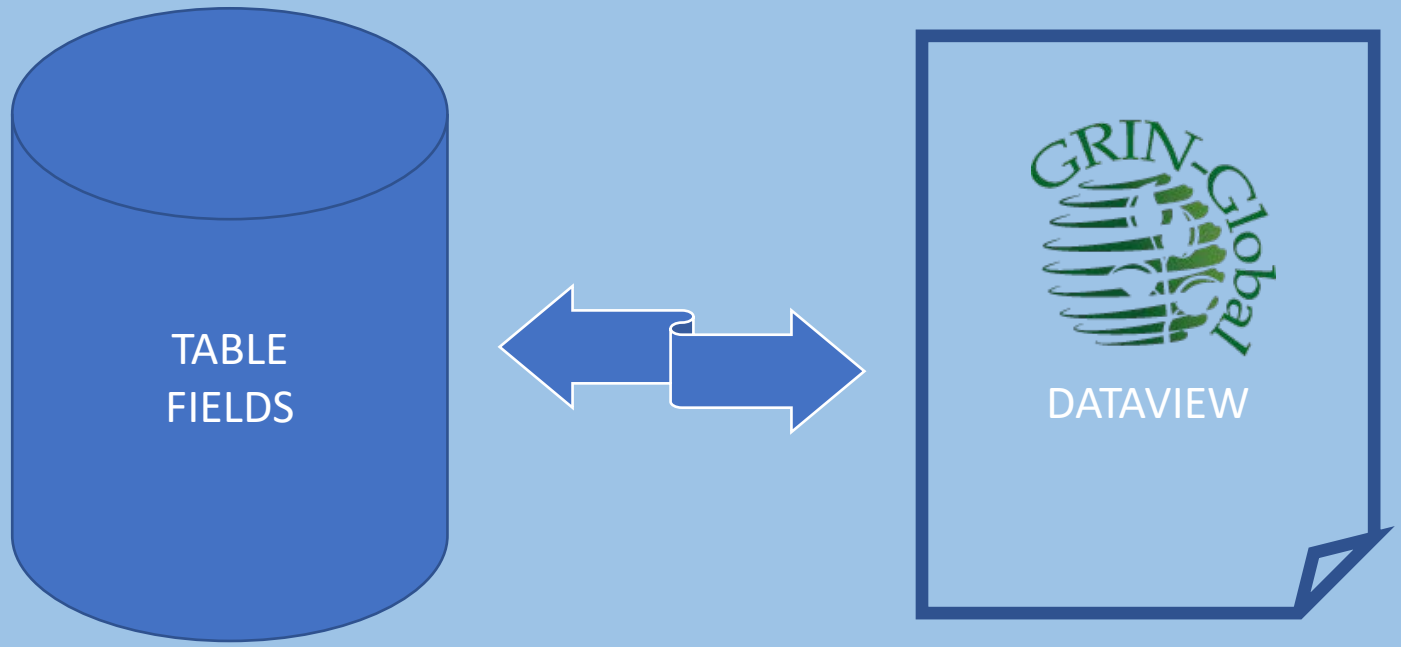


Table Field Names

DESKTOP-35RLT23\S...al - dbo.accession*

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

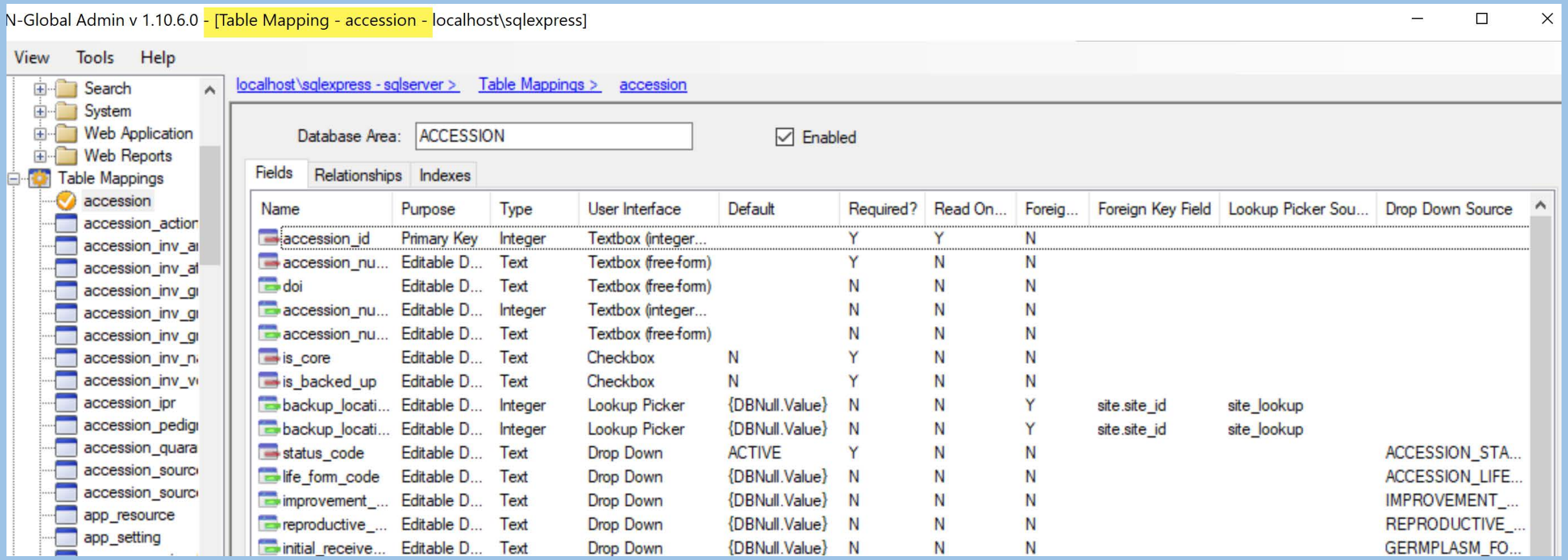
Mapped vs. Unmapped

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



AT provides more info than SSMS !

Use Case

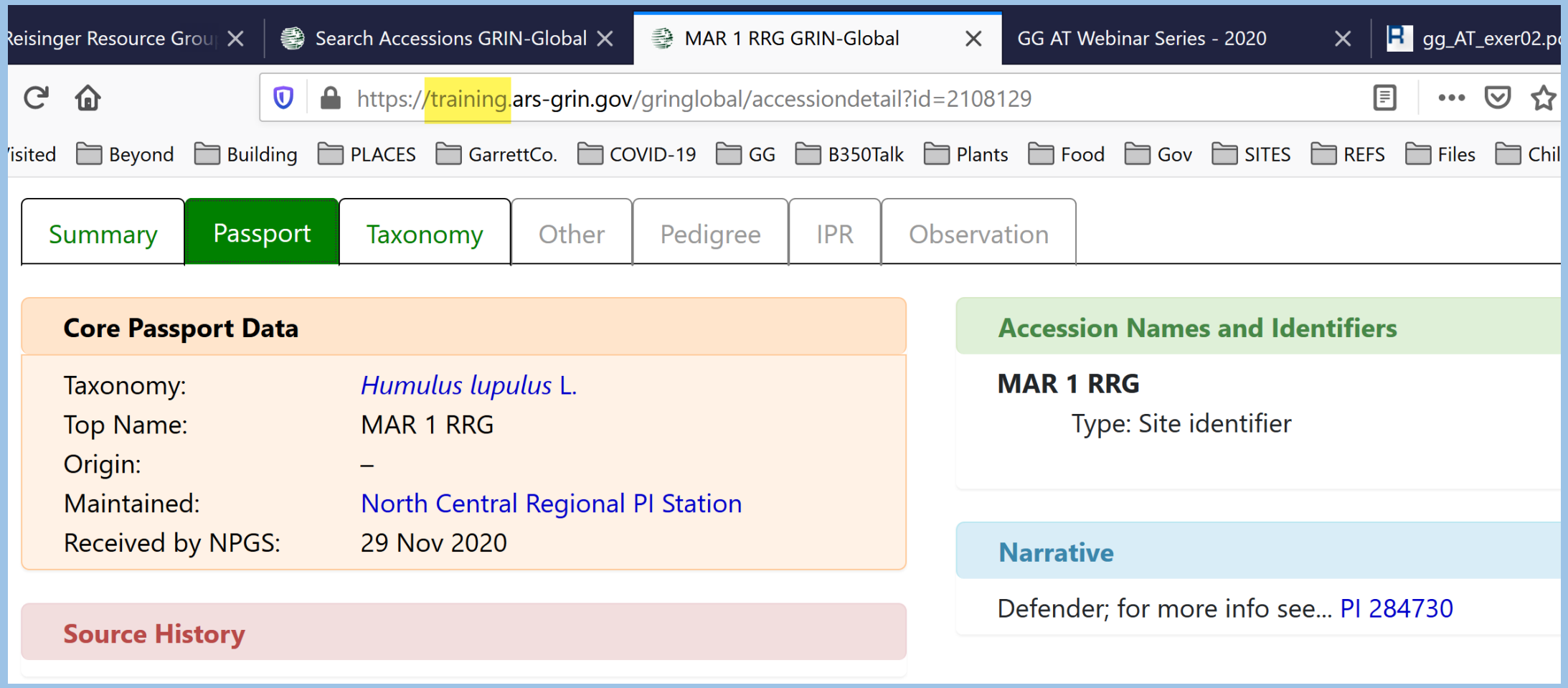
- A field was requested for the accession table to store a URL but not in the Note field because…

[

see NPGS TRAINING accession MAR 1 RRG https://training.ars-grin.gov/gringlobal/accessiondetail?id=2108129

]

Narrative on the PW is the Note field



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

Table Mappings

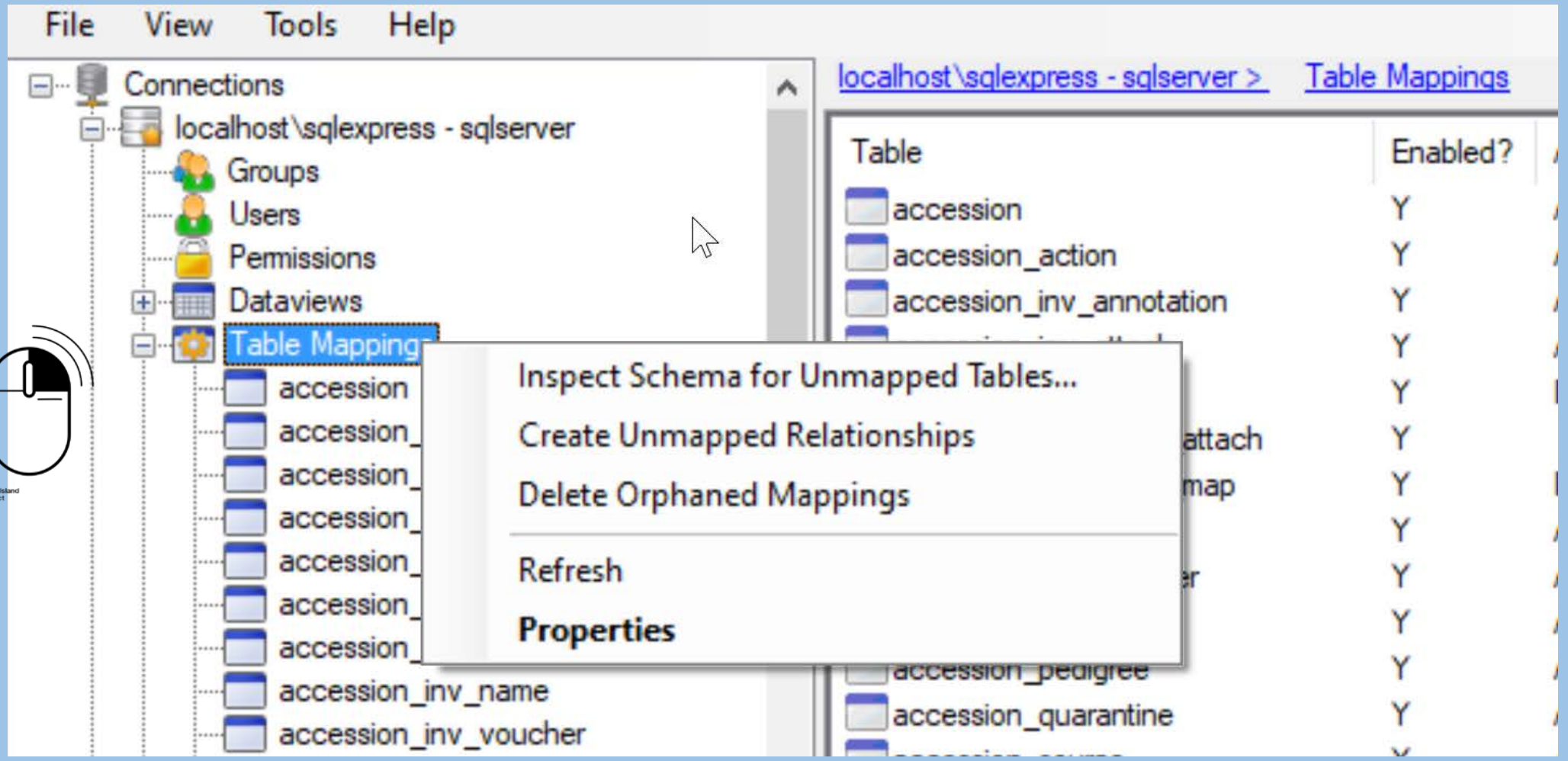


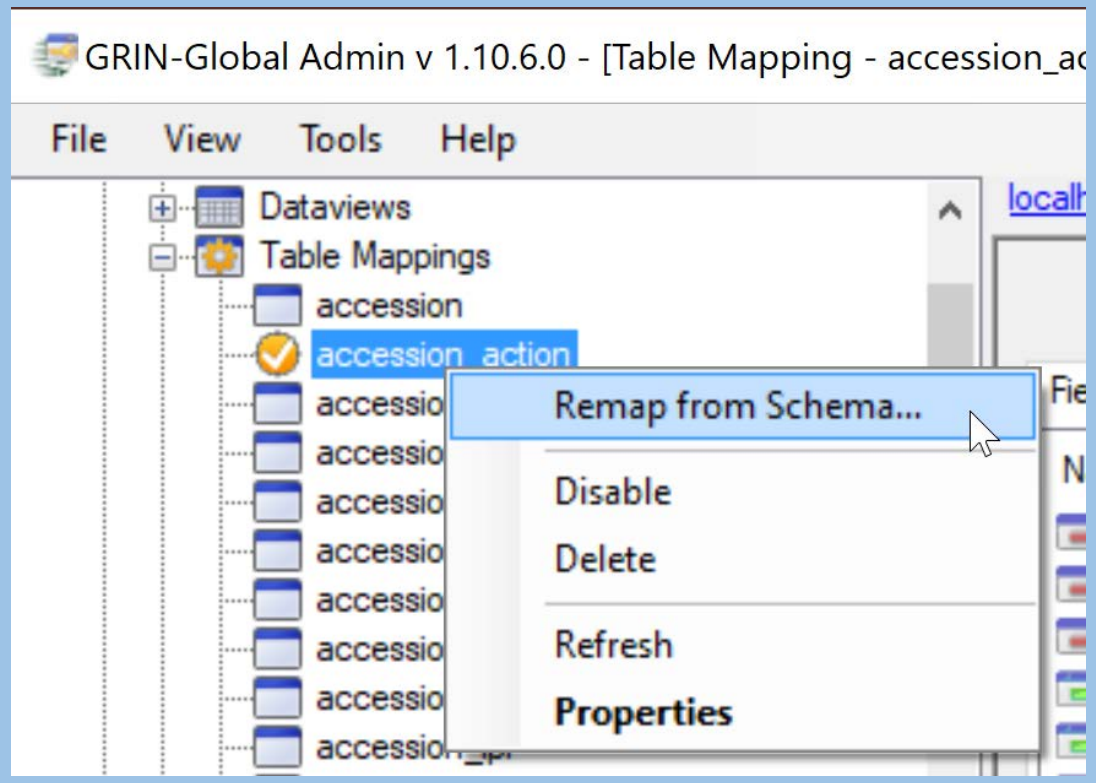
Table Mappings: Table Level

Menu Item	Description
Inspect Schema for Unmapped Tables	List all tables in the schema which are not currently mapped
Create Unmapped Relationships	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.
Delete Orphaned Mappings	Delete “Orphaned Mappings” – when tables have been dropped from the schema, but are still mapped in Table Mappings
Refresh	Refreshes the view in the Admin Tool with the latest data from the database.
Properties	See Refresh.

Table Mappings: Field Context Menu

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

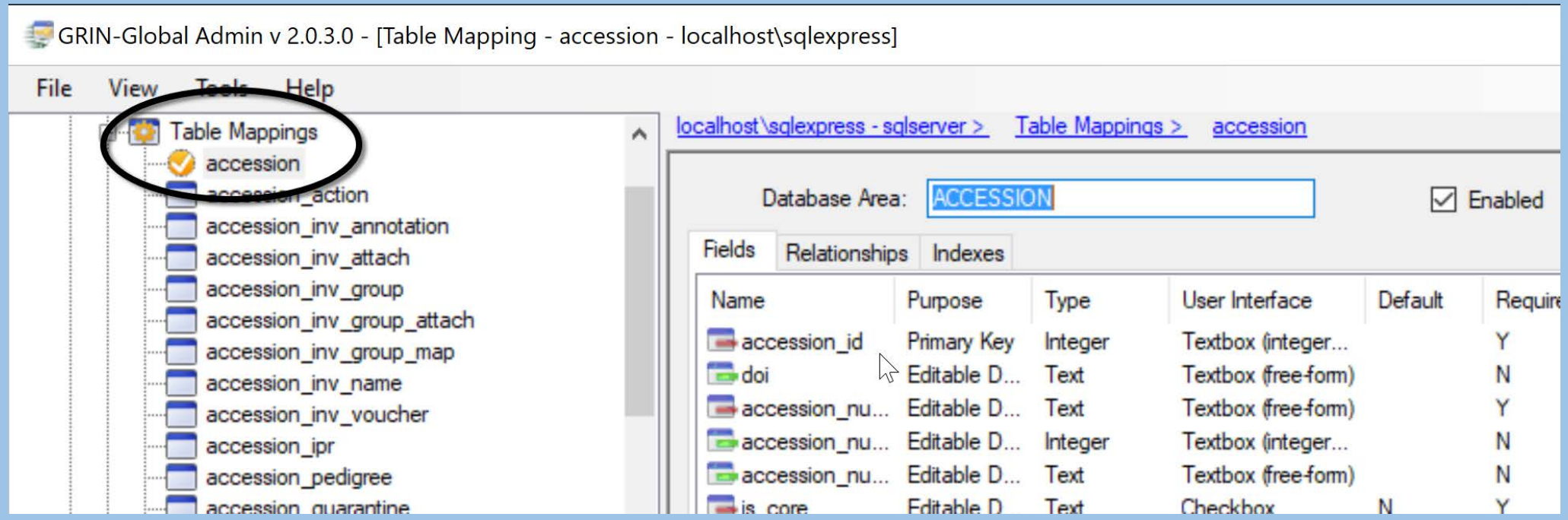
1. Create the field in the database (use SSMS)

   Example:

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

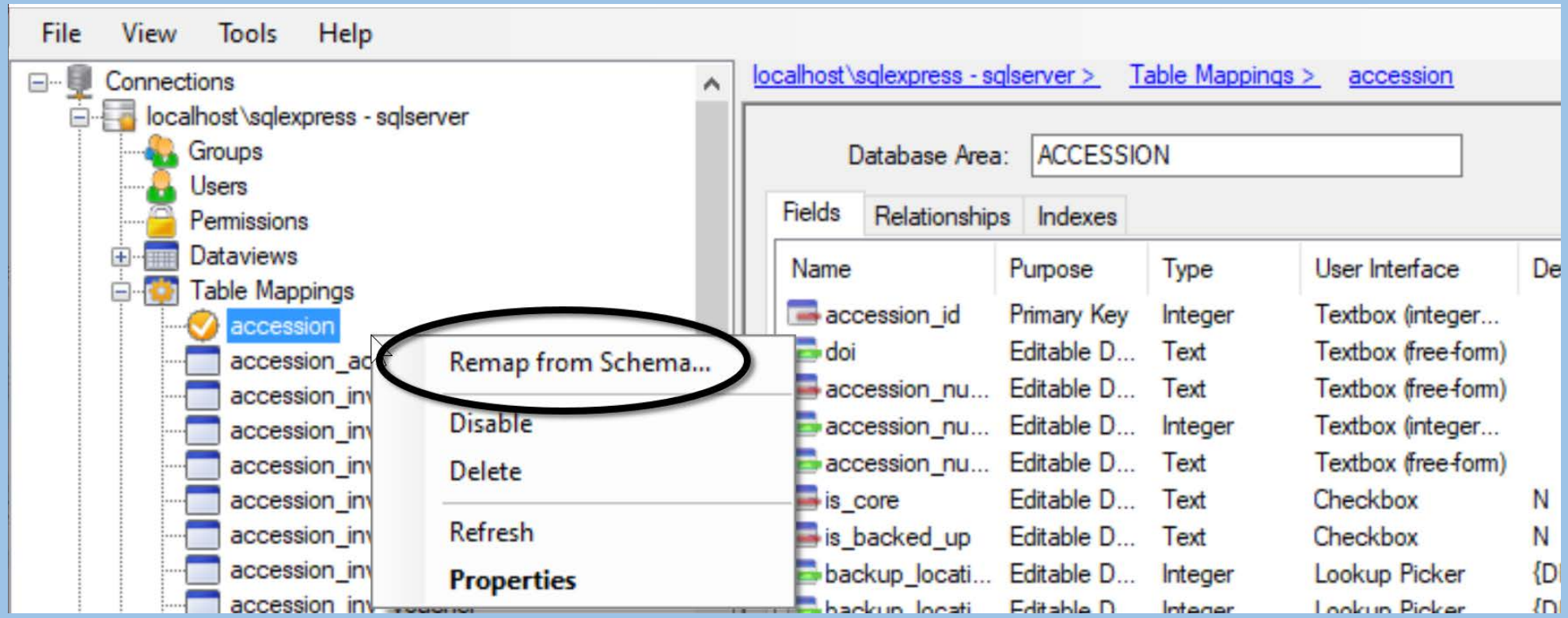
Steps in Mapping a DB *Field* to a Dataview

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



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**

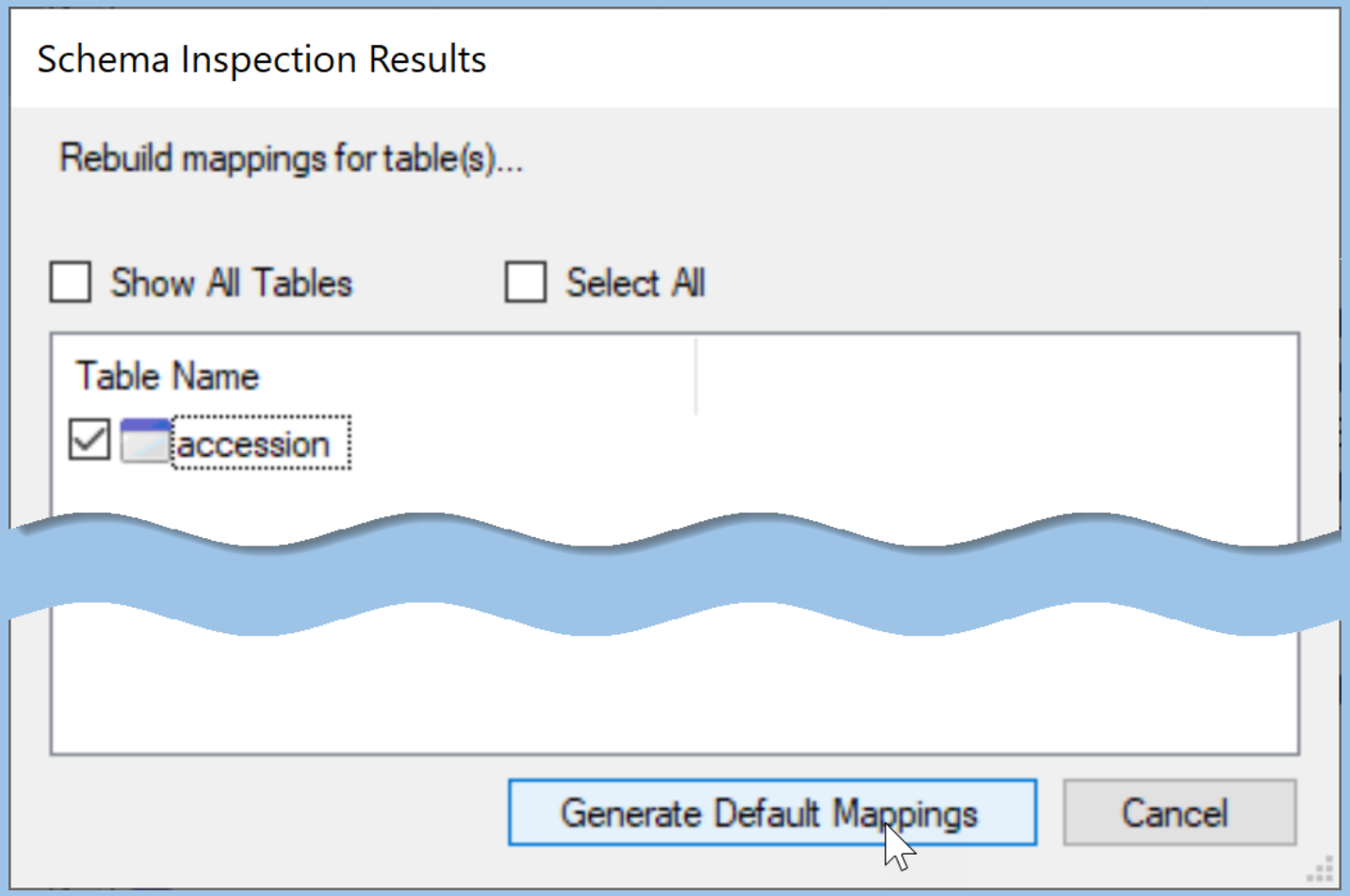
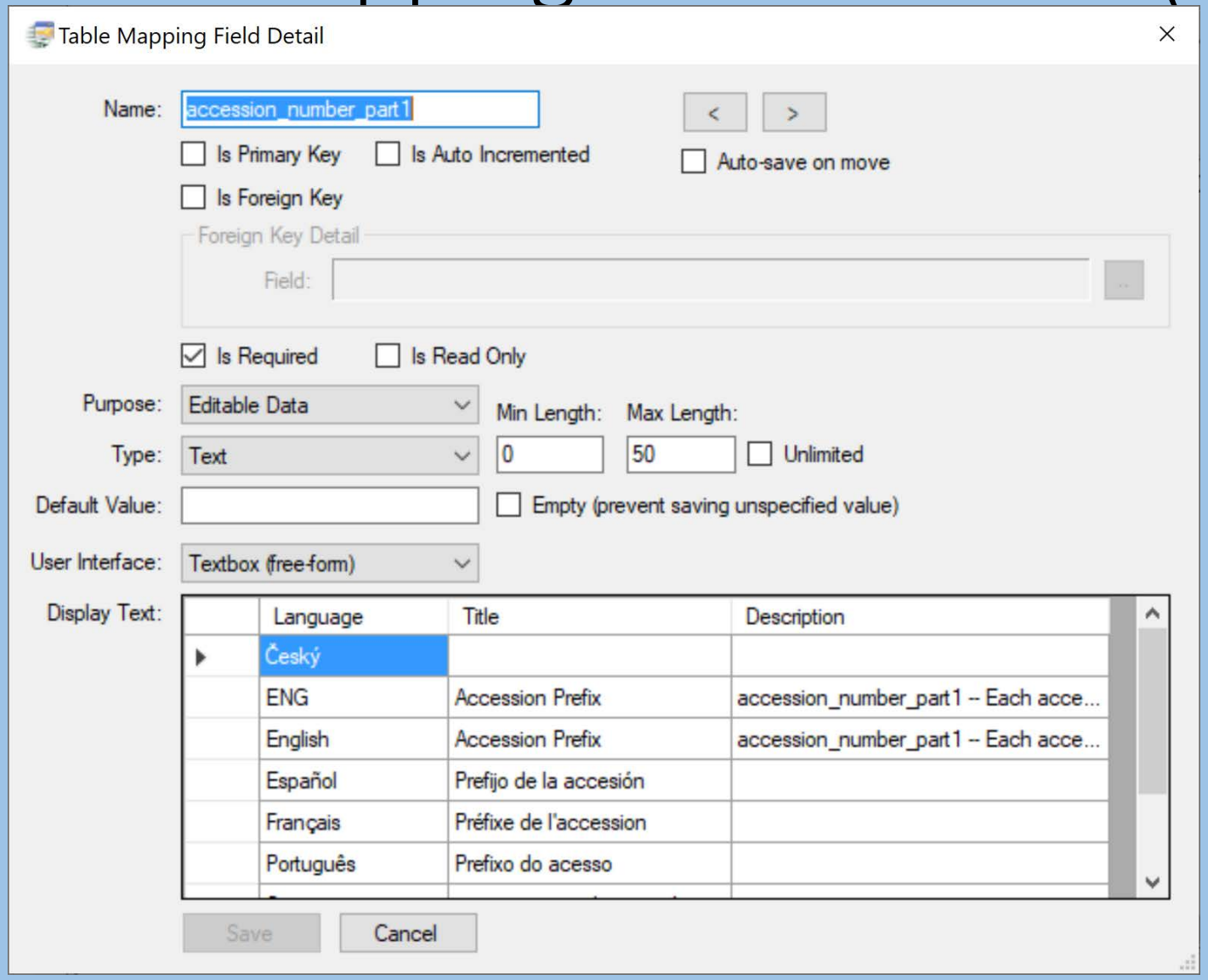


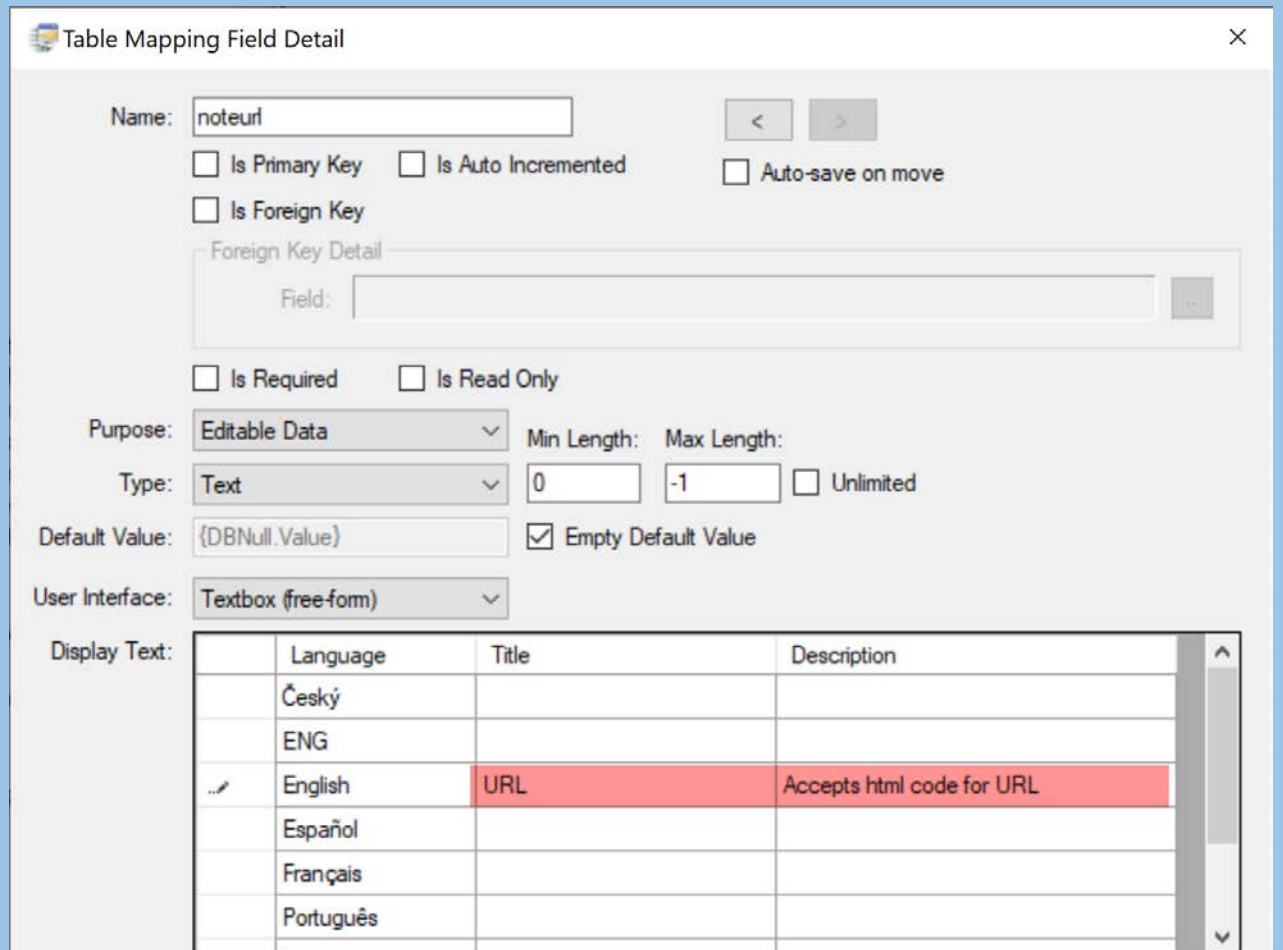
Table Mappings: Field Detail (Properties)



complete the Titles and Descriptions in the desired languages

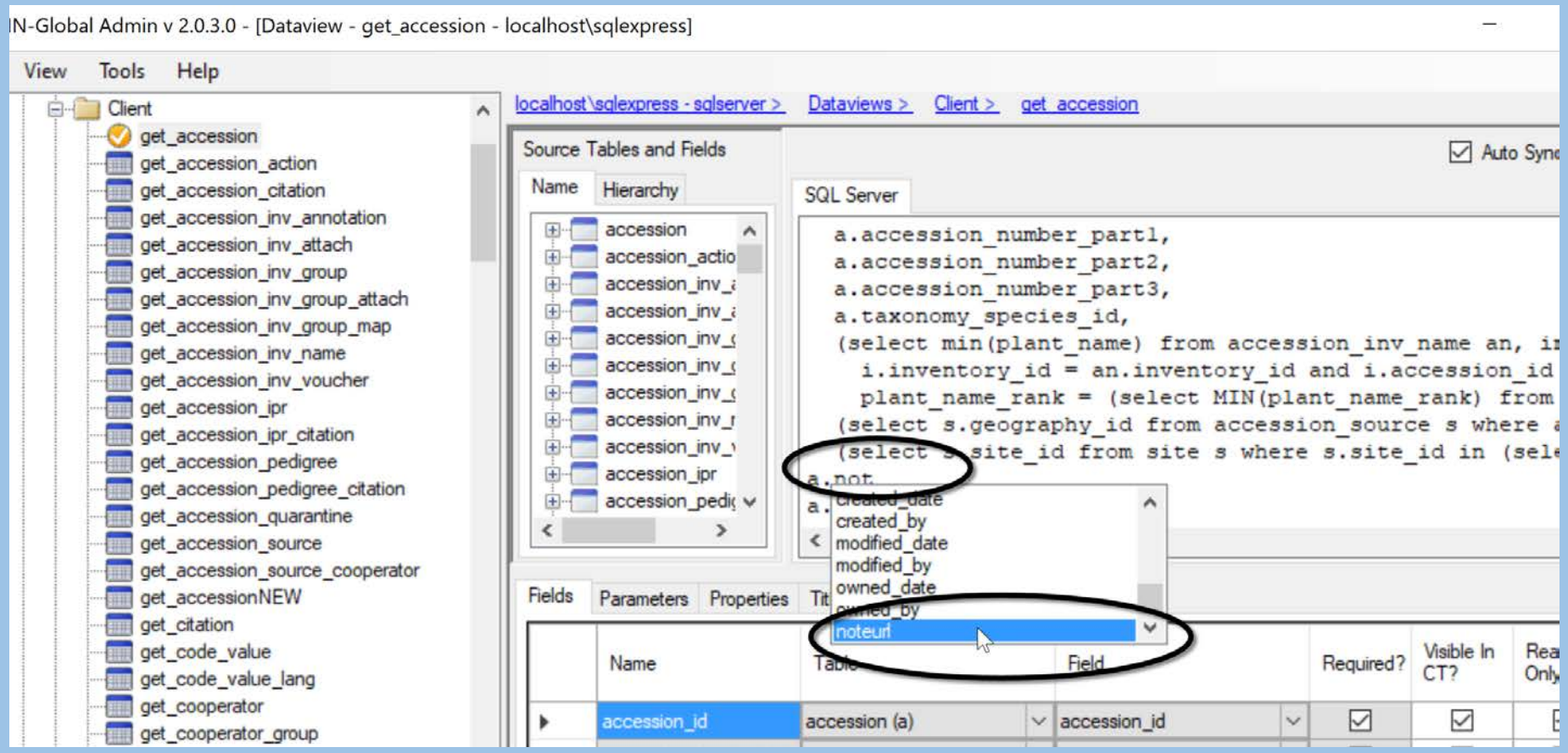
Steps in Mapping a DB *Field* to a Dataview

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



Steps in Mapping a DB *Field* to a Dataview

6. In the DV Editor, add the select to the SQL



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

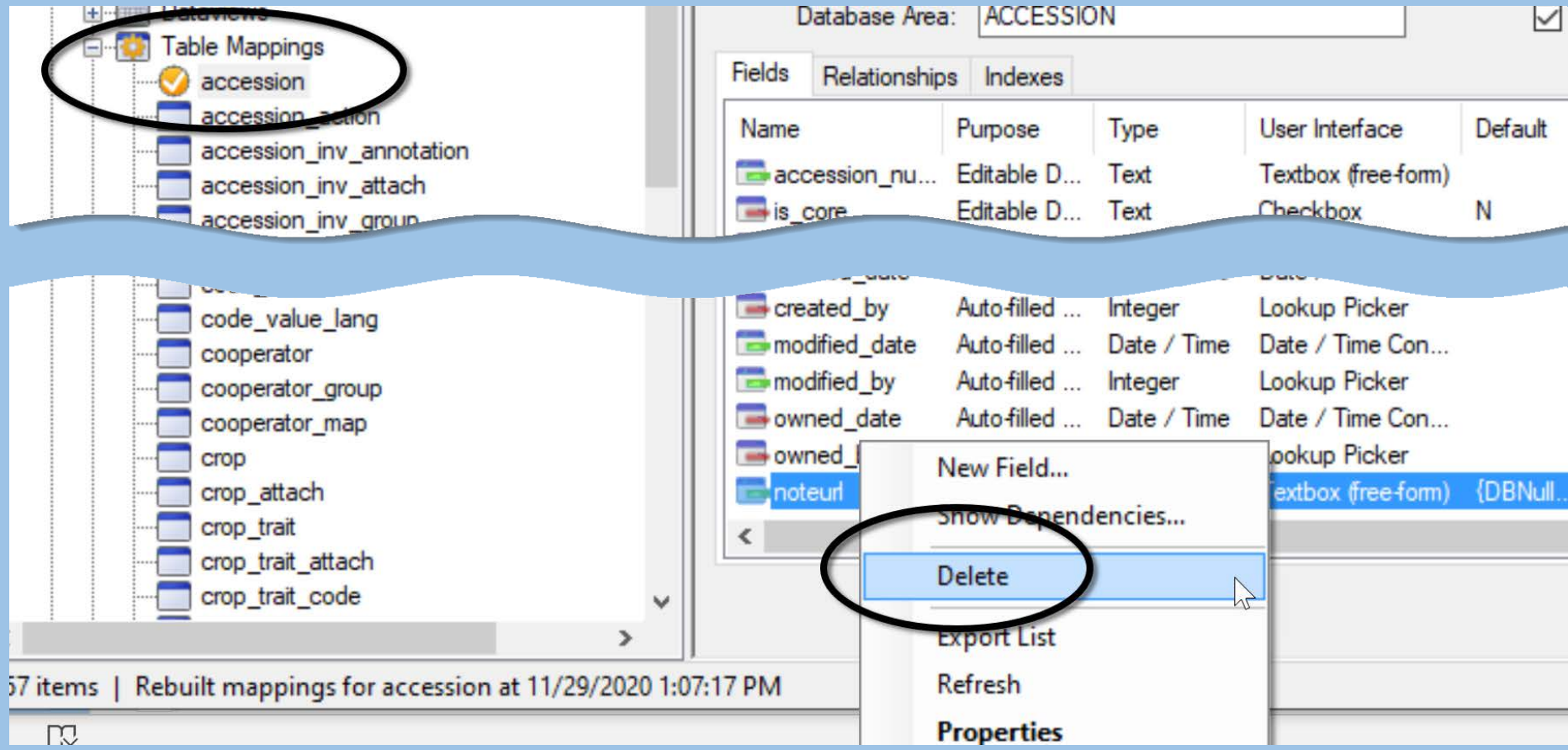
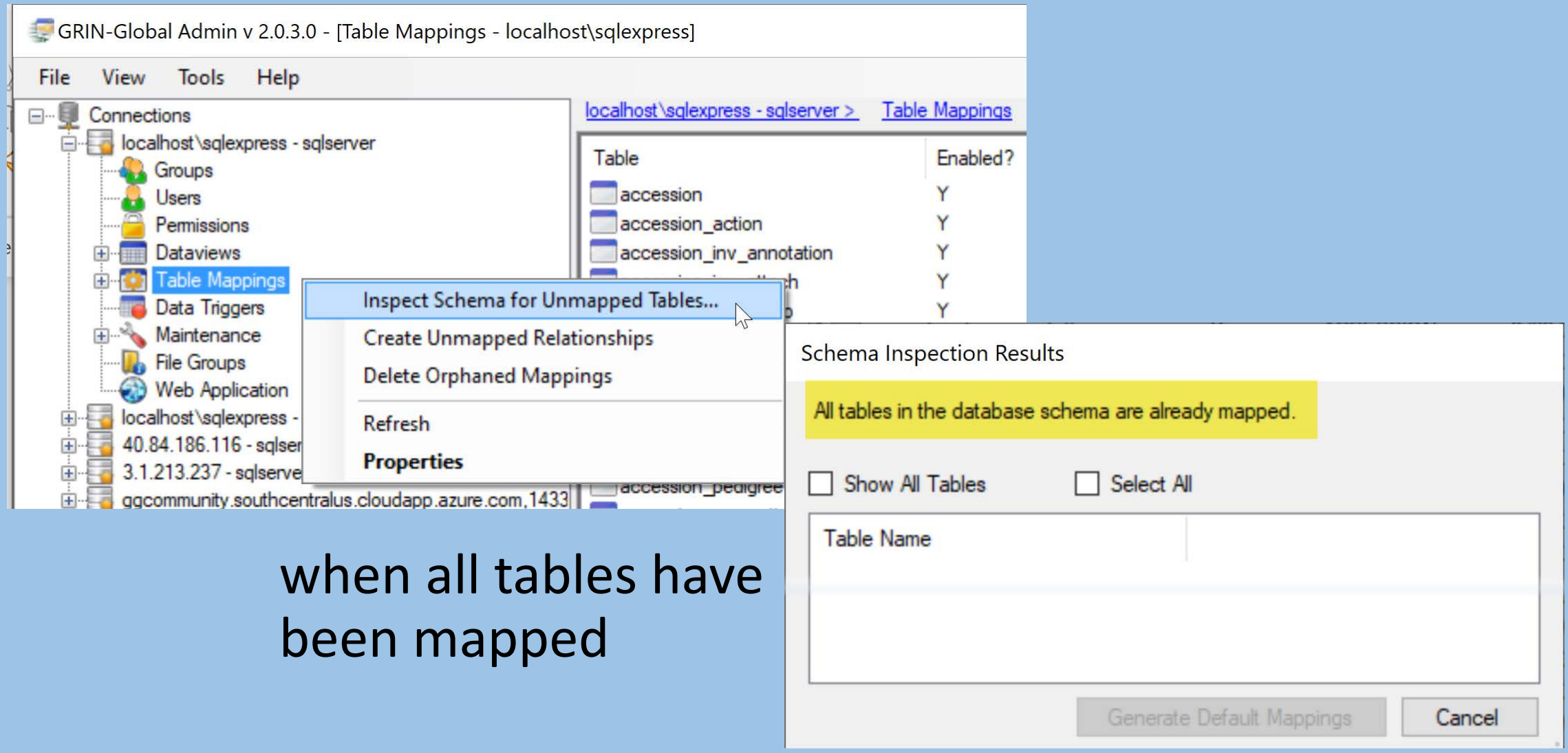
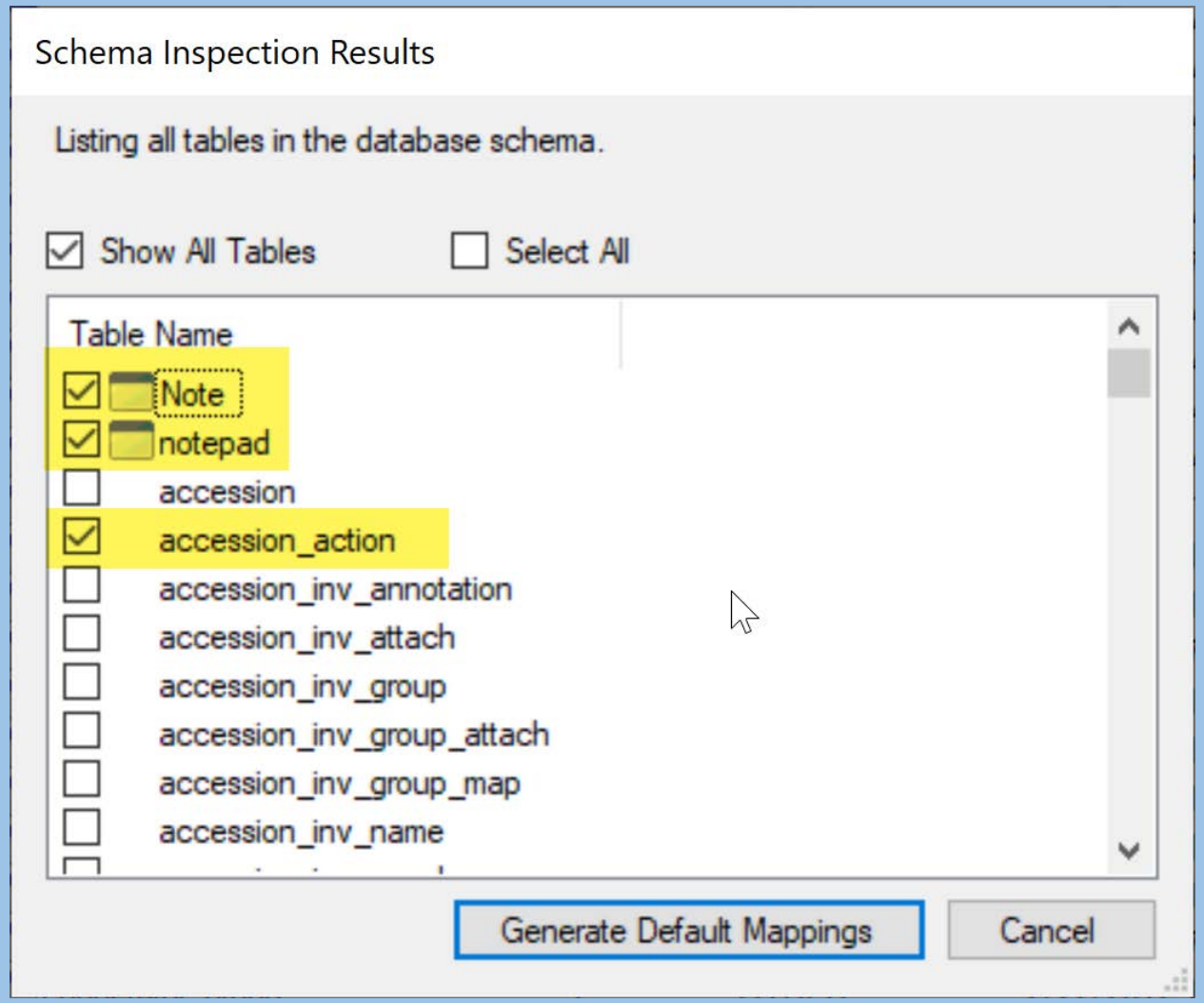


Table Mappings: Inspect Schema



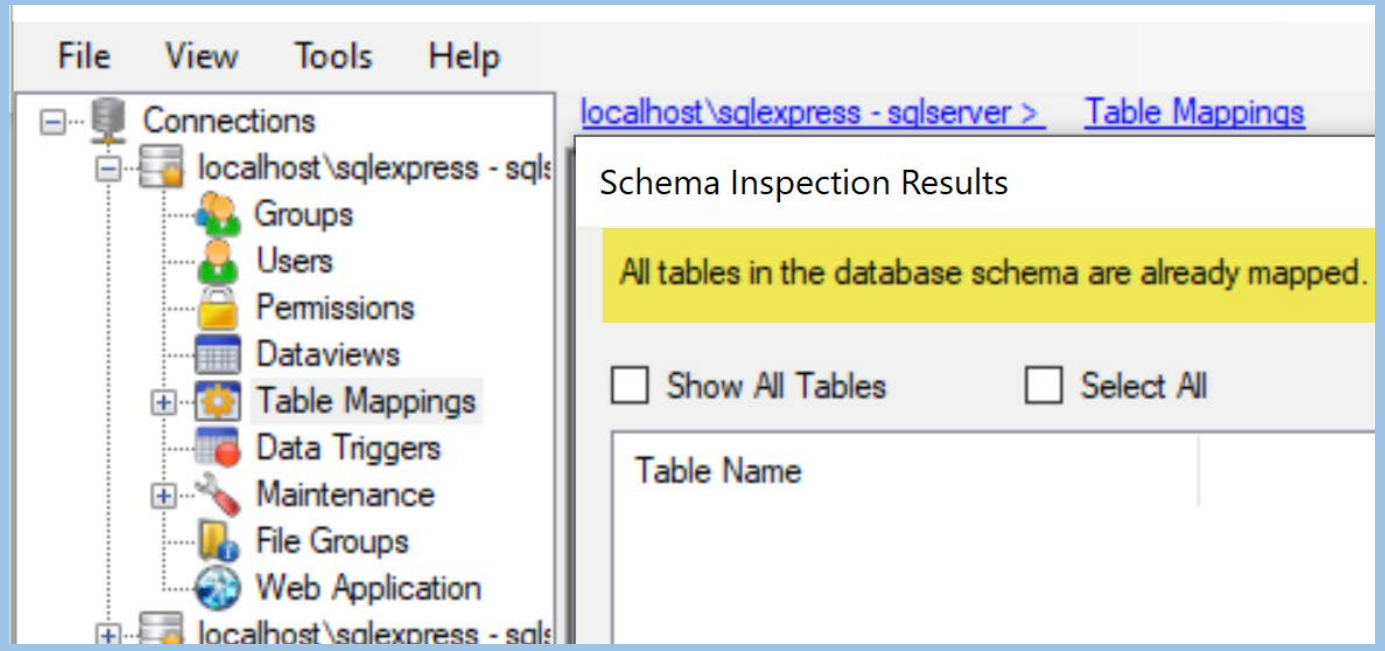
when all tables have been mapped

Table Mappings: Inspect Schema…



changes
detected

Table Mappings: Create Unmapped …



(when all tables have been mapped

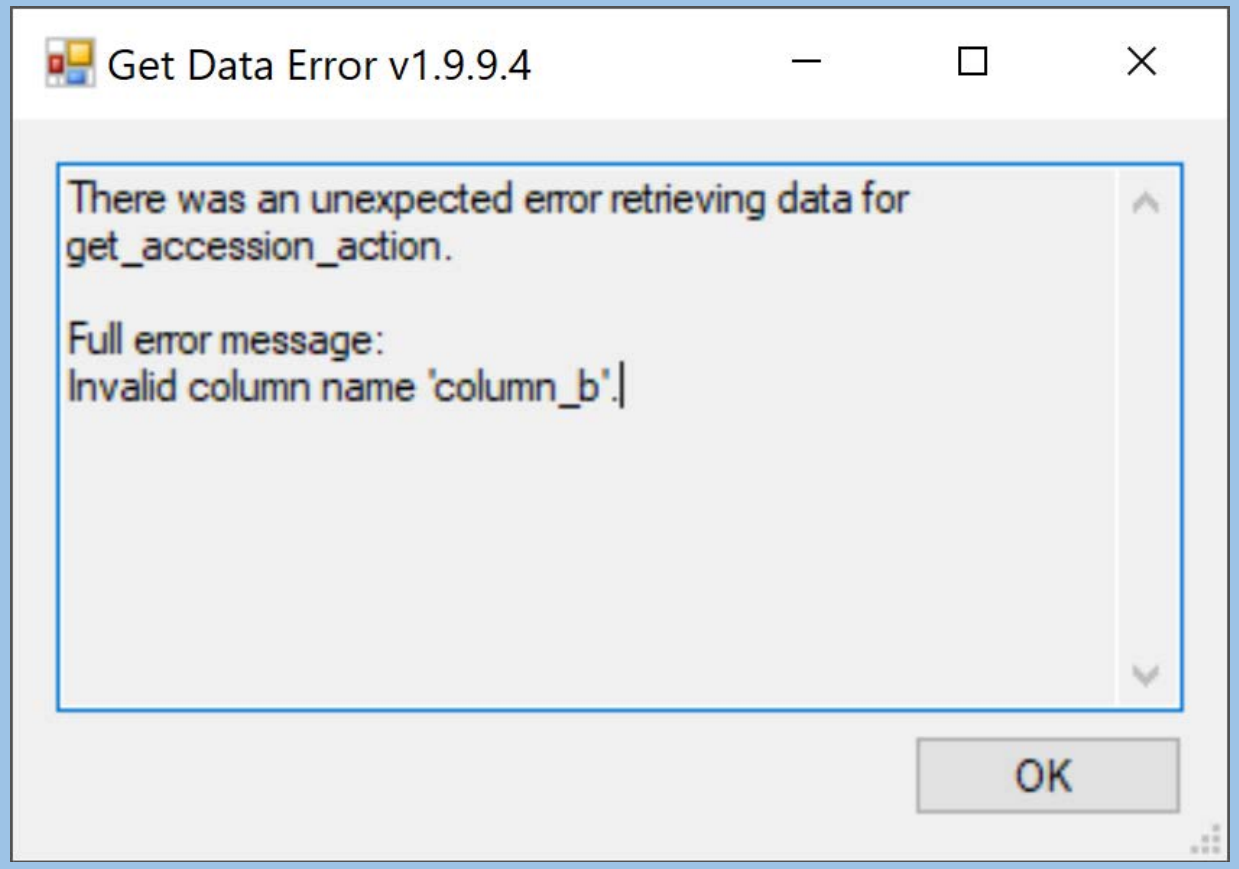
(First – in SSMS – Create Table)

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

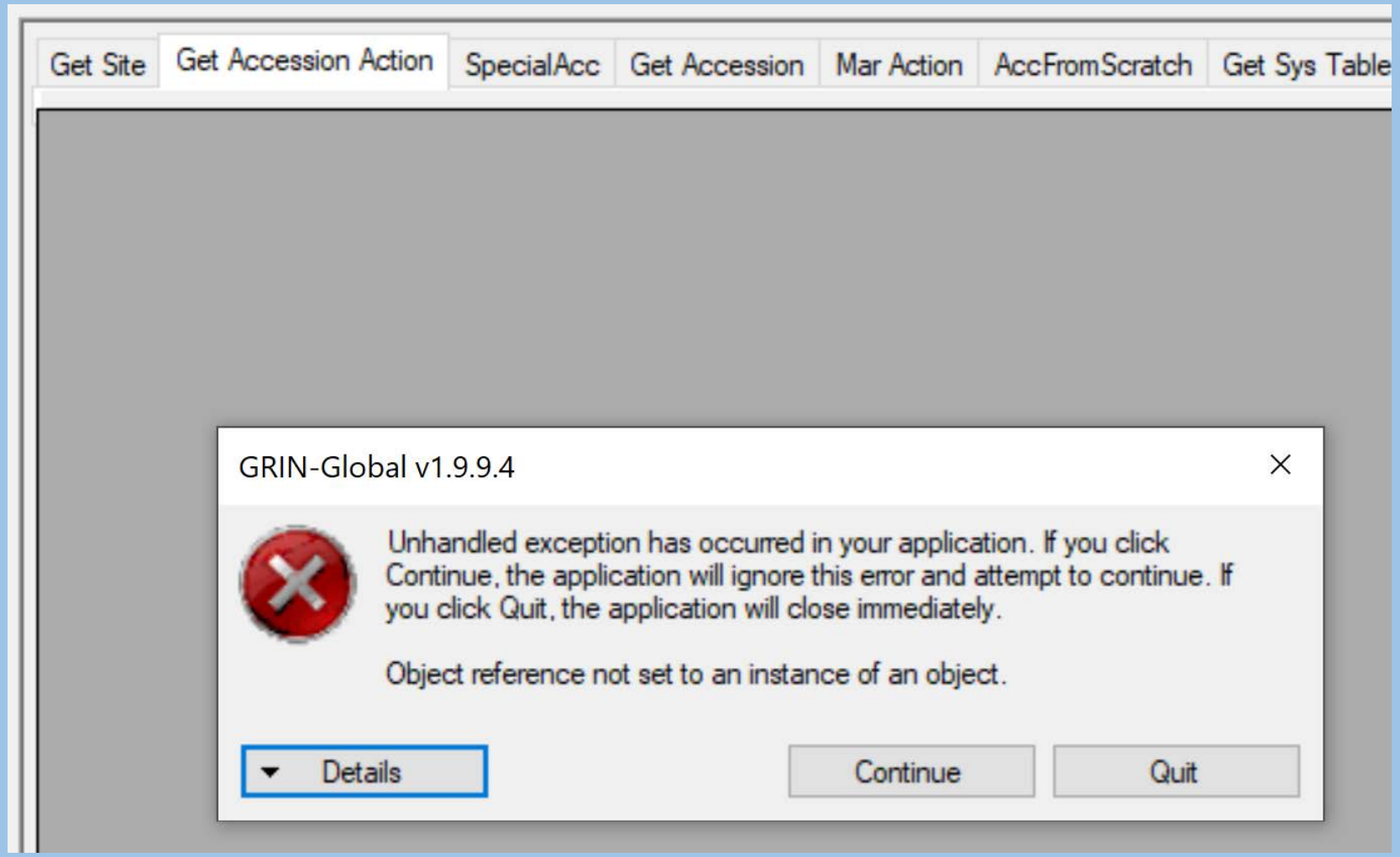
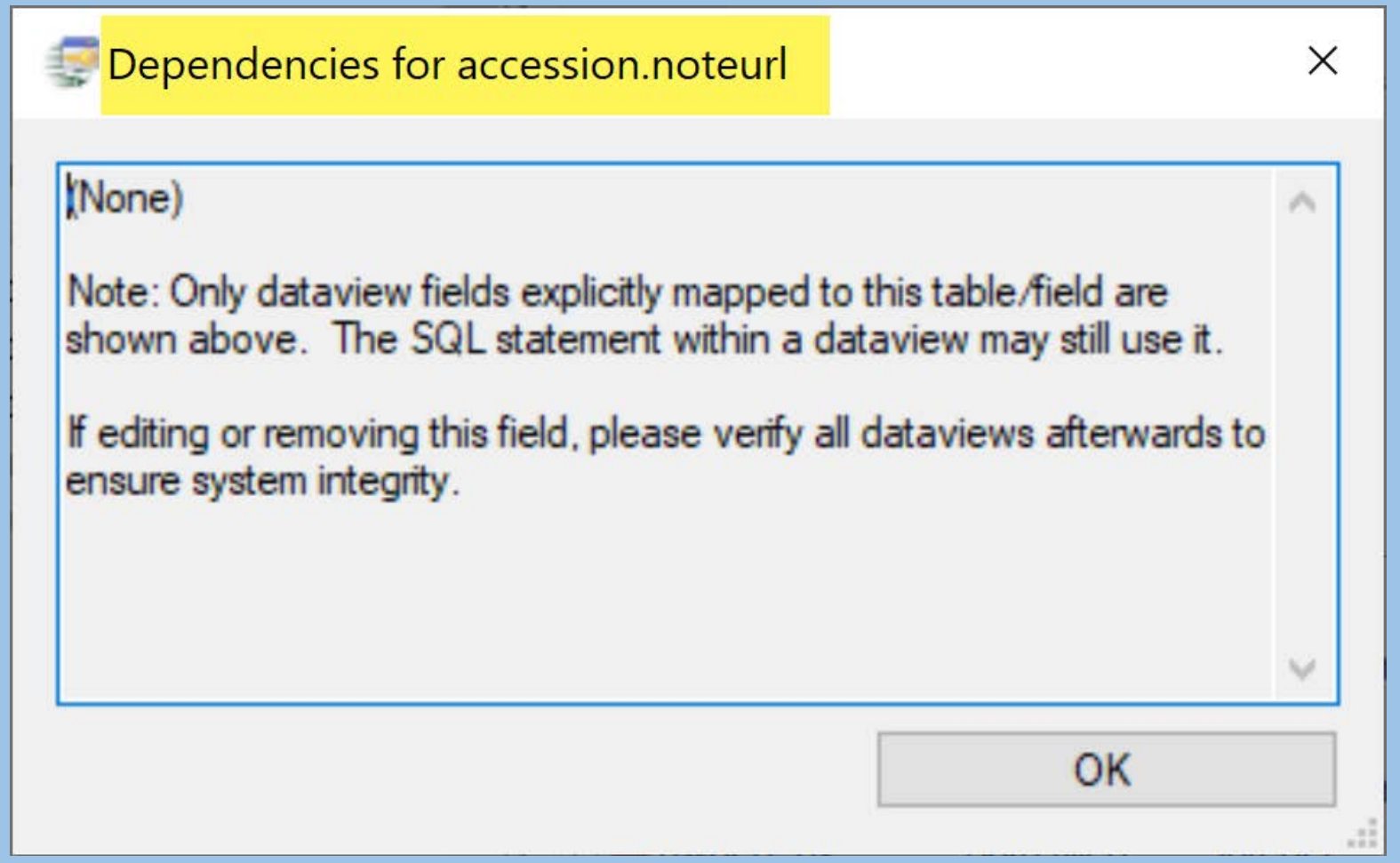


Table Mapping: Show Dependencies Option



Show Dependencies

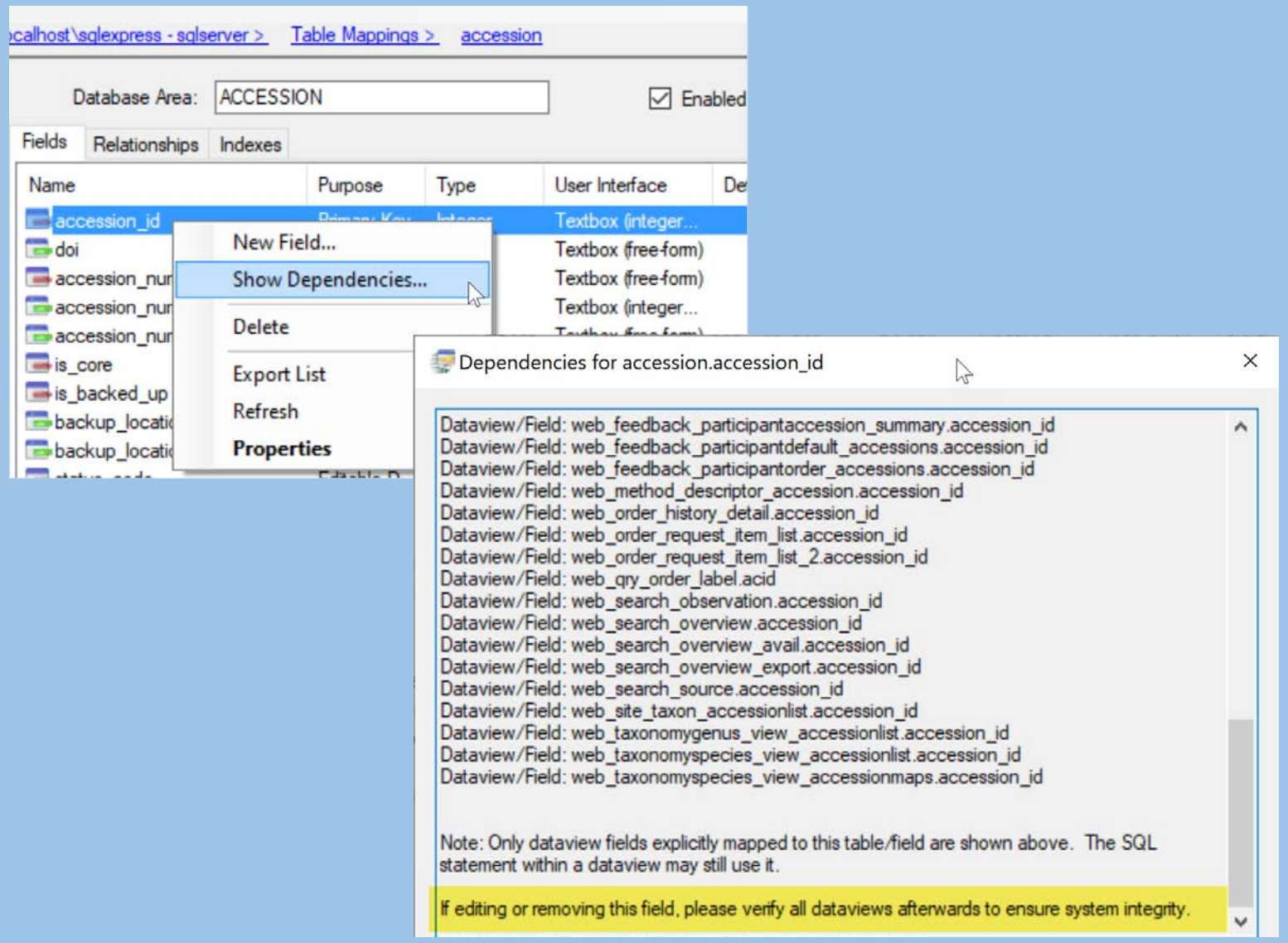
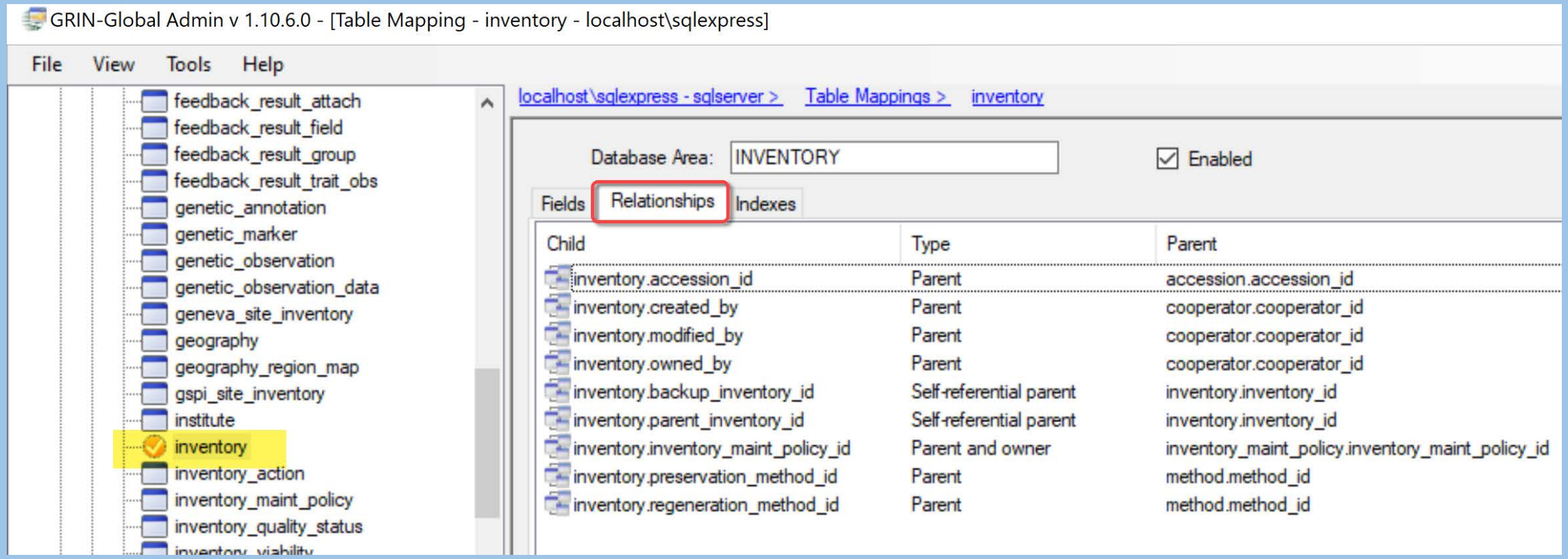


Table Mappings - Relationships

- 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

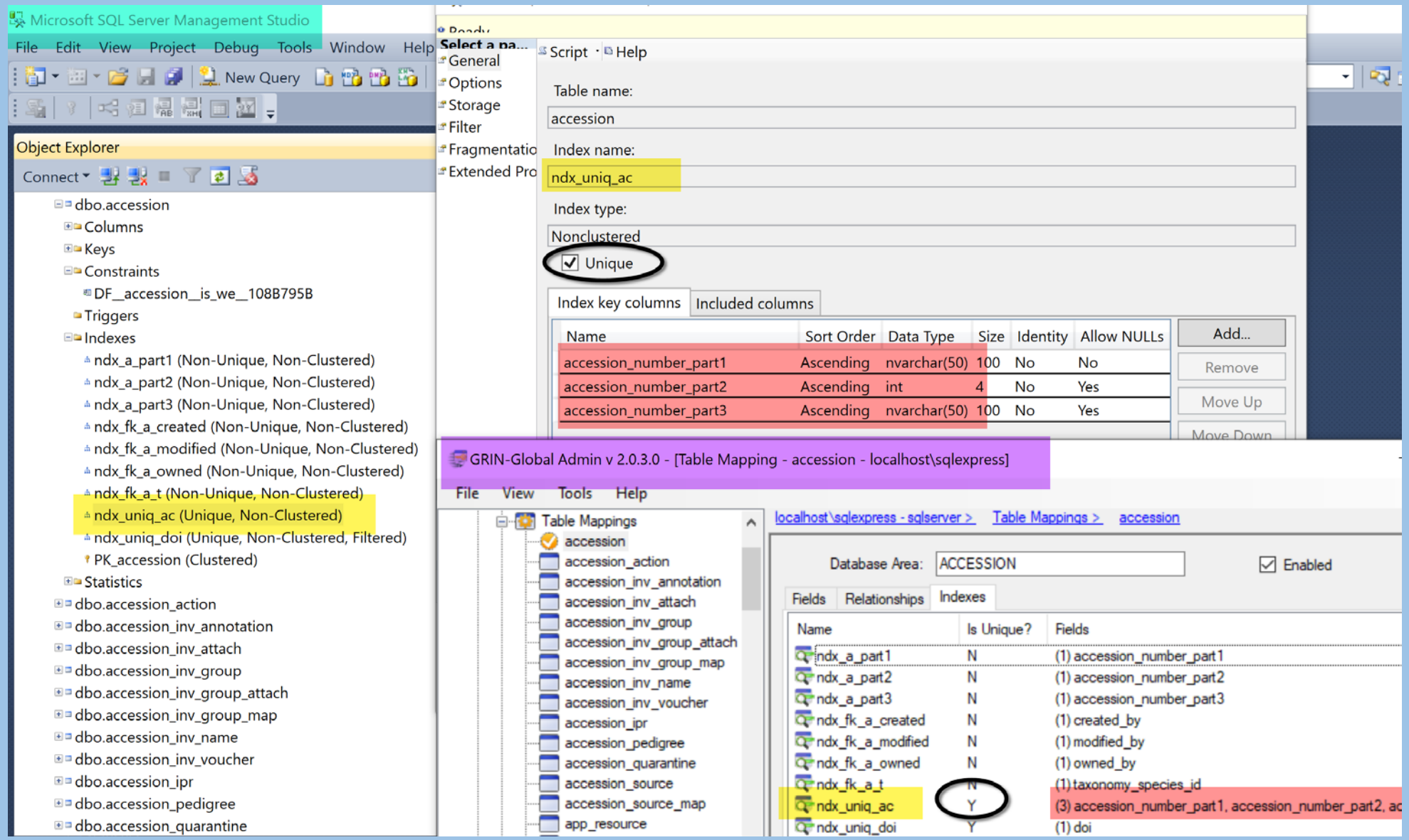
- Also used by the middle tier to determine ownership of a database record when a new record is created.

Relationships



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



Languages …Tables …and Dataviews

Languages …Tables …and Dataviews

Table	Stores data for the…
sys_table_field_lang **sys_dataview_field_lang**	Column headings displayed in the dataviews
app_resource	Interface elements: buttons, etc.
sys_dataview_lang	Dataviews' Titles & Descriptions
code_value **code_value_lang**	Codes that display in the dropdowns
sys_language	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***

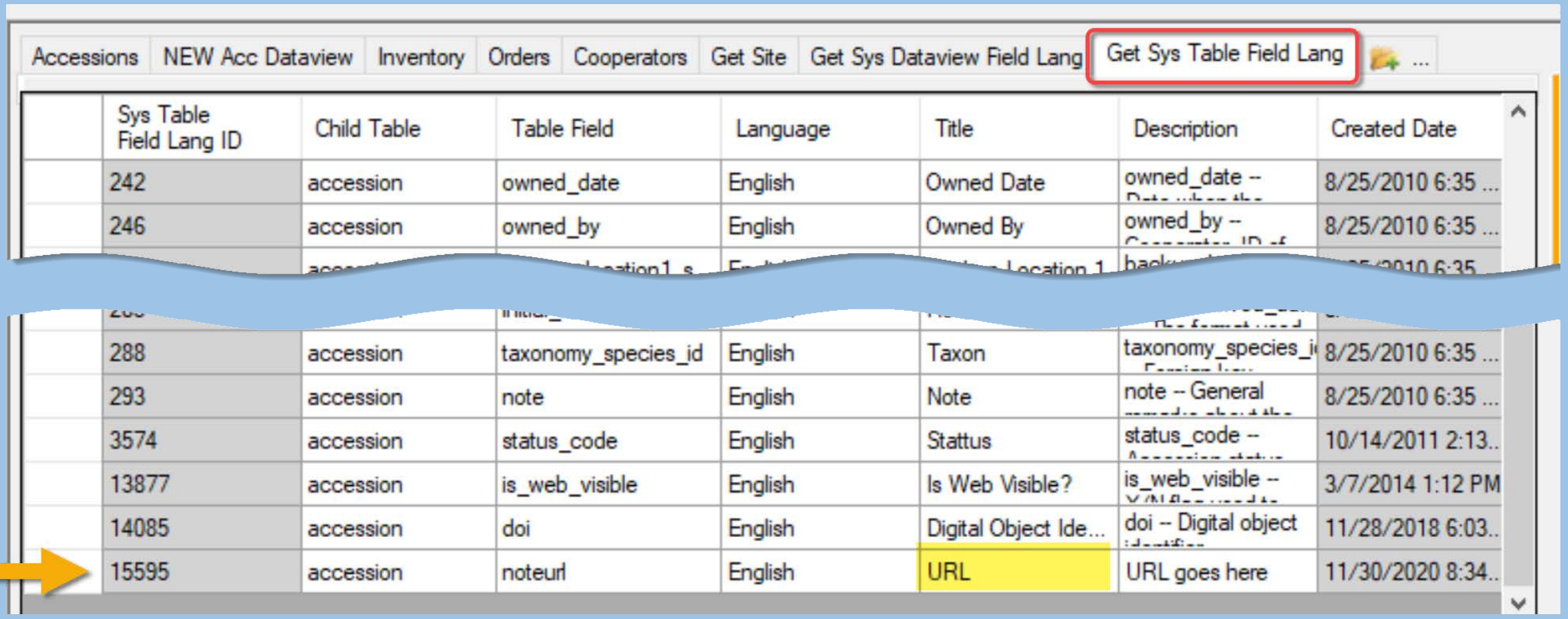
Friendly Names – 2 Types

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

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

accession_number_part1 = **Accession Prefix**

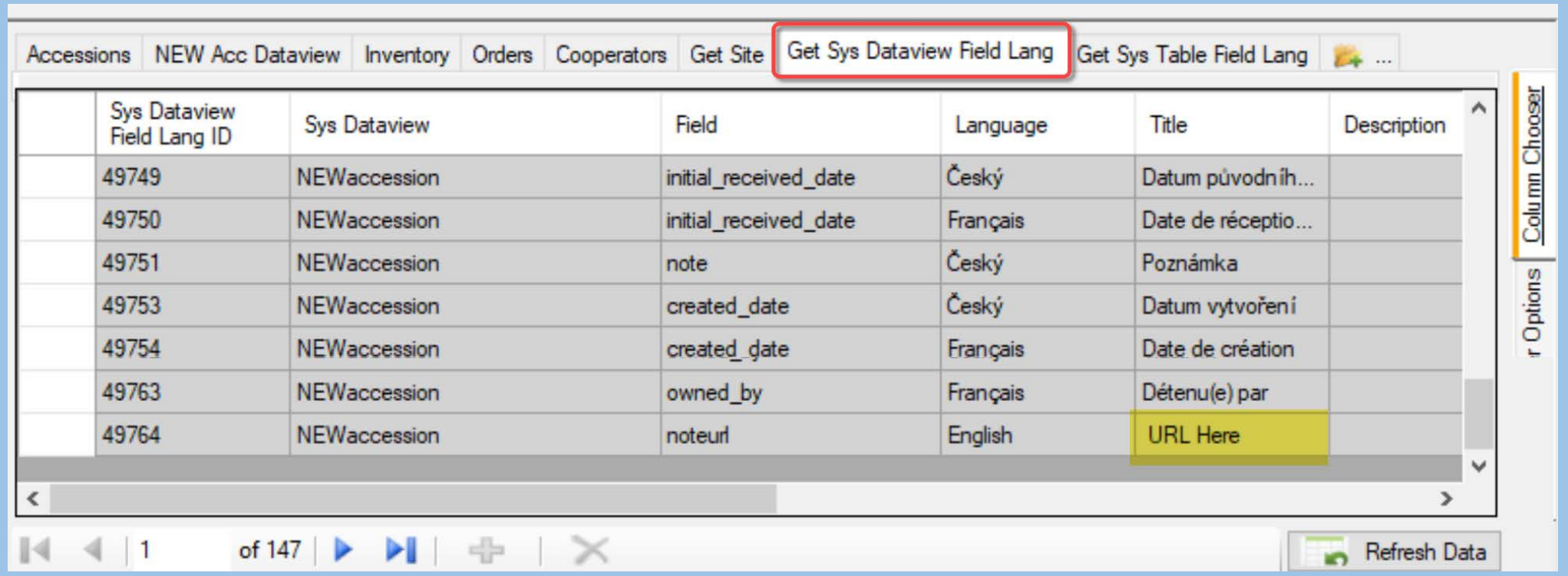
DB Table Field default *friendly names*



Sys Table Field Lang ID	Child Table	Table Field	Language	Title	Description	Created Date
242	accession	owned_date	English	Owned Date	owned_date --	8/25/2010 6:35 ...
246	accession	owned_by	English	Owned By	owned_by --	8/25/2010 6:35 ...
288	accession	taxonomy_species_id	English	Taxon	taxonomy_species_i	8/25/2010 6:35 ...
293	accession	note	English	Note	note -- General	8/25/2010 6:35 ...
3574	accession	status_code	English	Stattus	status_code --	10/14/2011 2:13..
13877	accession	is_web_visible	English	Is Web Visible?	is_web_visible --	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*



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

Questions?

Marty Reisinger

- mar@rrginc.com
- 410 790 8649
- Skype: live:mar_3510

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