



GRIN-Global – Administrator Webinar

Session 2: Dataview Editing - Basics

martin reisinger,
instructor

Dataview Editing - Basics

Use...

- DV Editor interface
 - the five tabs (Fields, Parameters,...Preview)
- DV editor to add languages for dataviews'
Titles and Descriptions
- Name and Hierarchy tabs

Dataview Editing – Basics...

Learn to:

- copy (backing up)
- export dataviews / import dataviews
- relate “simple” changes to the CT
- enable CT use of a dataview (temporarily or permanently)

Homework?

Dataview Editing – Basics...

- Examine the Source Tables and Fields Panel
- Explain “friendly” (dataview vs. table) names; using Table Mapping vs. Dataviews
- Show dependencies of the lookup tables

Review Quiz

1. Is it possible to update a GG without overlaying the curatorial data?

Review Quiz

1. Is it possible to update a GG without overlaying the curatorial data?
2. What is the critical step to take before running the Updater?

Review Quiz

3. What group must the user be in to have access to the Admin Tool?

What is a Dataview?

What is a Dataview?

- **A structured query** (a stored SQL procedure) with some peripheral information
- provides a dynamic view of data in the underlying **DataTable**

Are Dataviews used by the Public Website?

Are Dataviews used by the Public Website?

GRIN-Global Admin v 1.10.6.0 - [Dataview - web_crop - localhost\sqlexpress]

File View Tools Help

sys_user_permission_map
validate_login
Web Application
web_accession_maps
web_accession_maps_header
web_cooperator_methodsource
web_cooperator_orig
web_crop
web_crop_attach
web_crop_citation
web_crop_citation_accession
web_crop_cooperator
web_crop_descriptor
web_crop_marker
web_crop_marker_alldata
web_crop_marker_data
web_crop_marker_detail1
web_crop_marker_detail2
web_crop_marker_detail3
web_crop_method

localhost\sqlexpress - sqlserver > Dataviews > Web Application > web_crop

Source Tables and Fields

Name	Hierarchy
+	accession
+	accession_act
+	accession_inv
+	accession_inv
+	accession_inv
+	accession_inv
+	accession_inv
+	accession_inv

SQL Server

```
select  
    name,  
    note,  
    owned_by  
from crop  
where crop_id = :cropid
```

Fields Parameters Properties Titles Preview

☒ Limit Rows To: 100 View In: English

Dataview Example: Accession

Search... Batch Wizard Accession Wizard Cooperator Wizard Crop Trait Wizard Inventory Attachment Wizard Order Wizard Viability Wizard

Show lists from: ☐ Show All
Reisinger, Martin, Reisinger Resource Group

☐ Include Sub-Folders

Pravda2017 TabDemo Orders

Accessions Get Passport Data Rev Inventory Cooperators Orders Get Name Group Get Accession Source Accession Inventory Name Passport Data Rev

	Accession ID	Digital Object Identifier	Accession Prefix	Accession Number	Accession Suffix	Taxon	Name	Origin	Maintenance Site
	10034		MAR	71301	RRG	Humulus lupulus	Emma Gold 712	12206	102
	-2								-1

MAR_28123_Alice
MAR_28130_Alice
MAR_28131_Alice
Mar_3_Reisinger
MAR_587055_Alice
MAR_71301_RRG

Accessions Get Passport Data Rev Inventory Cooperators Orders Get Name Group Get Accession Source Accession Inventory Name Passport Data Rev Site Institute2 ...

	Maintenance Site	Is Core?	Is Backed Up?	Backup Location 1	Backup Location 2	Status	Life Form	Level Of Improvement	Reproductive Uniformity	Received As	Received Date Format	Received Date	Is Web Visible?
	102	<input type="checkbox"/>	<input type="checkbox"/>			Active	[Null]	[Null]	[Null]	[Null]	mm/dd/yyyy	07/13/2016	<input checked="" type="checkbox"/>
	-1	<input type="checkbox"/>	<input type="checkbox"/>			Active	[Null]	[Null]	[Null]	[Null]	[Null]		<input checked="" type="checkbox"/>

Dataview example...Friendly Names

Accession ID	Digital Object Identifier	Accession Prefix	Accession Number	Accession Suffix	Taxon	Name
1003	accession_id -- Accession table's primary key (PK) field. (Generated field; cannot be edited.)					old 712
-2						

What is a Dataview?

Component	Description
SQL Query Definitions	The SQL statement for each supported database engine
SQL Parameter Definitions	Passes user-specified values to the SQL queries at run time
Field Mappings	Associates a dataview field with a specific table and column in the database
Language Information	Provides language-specific Titles and Descriptions for column headings
Flags and Settings	Denotes if the dataview is read only, user visible, etc.

AT – Partial dataview list

GRIN-Global Admin v 1.10.6.0 - [Dataviews - localhost\sqlexpress]

File View Tools Help

Connections

- localhost\sqlexpress - sqlserve
 - Groups
 - Users
 - Permissions
 - Dataviews
 - Client**
 - CT Wizards
 - Exports
 - Import Wizard
 - Lookups
 - Reports
 - Search
 - System
 - Web Application

localhost\sqlexpress - sqlserver > [Dataviews](#) > [Client](#)

Name	Title	Category	Database Area
get_accession	Get Accession	Client	Accession
get_accession_2017jul03	Get Accession	Client	Accession
get_accession_action	Get Accession Action	Client	Accession
get_accession_backup	Get Accession	Client	Accession
get_accession_backup2	Get Accession	Client	Accession
get_accession_backup2...	Get Accession Demo	Client	Accession
get_accession_bck	Get Accession	Client	Accession
get_accession_citation	Get Accession Citation	Client	Accession
get_accession_demode...	Get Accession	Client	Accession
get_accession_inv_ann...	Get Accession Inventory Annotation	Client	Accession/Inve...
get_accession_inv_attach	Get Accession Inventory Attach	Client	Accession/Inve...
get_accession_inv_group	Get Accession Inventory Group	Client	Accession/Inve...

Dataview example...

GRIN-Global Admin v 1.10.6.0 - [Dataview - get_accession - localhost\sqlexpress]

File View Tools Help

Client

get_accession

get_accession_2017jul03

get_accession_action

get_accession_backup

get_accession_backup2

Client

get_accession

get_accession_2017sep2

get_accession_inv_annotation

get_accession_inv_attach

get_accession_inv_group

get_accession_inv_group_attach

get_accession_inv_group_map

get_accession_inv_name

get_accession_inv_voucher

get_accession_ipr

get_accession_ipr_citation

get_accession_mexico

get_accession_original

get_accession_pedigree

get_accession_pedigree_citation

get_accession_quarantine

get_accession_source

get_accession_source_cooperator

get_citation

get_code_value

get_code_value_lang

get_cooperator

get_cooperator_group

get_cooperator_map

get_crop

get_crop_attach

get_crop_trait

localhost\sqlexpress - sqlserver > Dataviews > Client > get_accession

Source Tables and Fields

Name Hierarchy

accession

accession_action

accession_inv_annotation

accession_inv_attach

accession_inv_group

accession_inv_group_atta

accession_inv_group_mar

accession_inv_name

accession_inv_voucher

accession_ipr

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 where
i.inventory_id = an.inventory_id and i.accession_id = a.accession_id and
plant_name_rank = (select MIN(plant_name_rank) from accession_inv_name an2, i
(select s.geography_id from accession_source s where a.accession_id = s.accessi

Auto Synchronize

Fields Parameters Properties Titles Preview

"Attributes" Grid

Name	Table	Field	Required?	Visible In CT?	Read Only?	Primary Key?	Transform?	User Interface
accession_id	accession (a)	accession_id	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Textbox (integers ...
doi	accession (a)	doi	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)
accession_number_part1	accession (a)	accession_number_part1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)
accession_number_part2	accession (a)	accession_number_part2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (integers ...
accession_number_part3	accession (a)	accession_number_part3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)
taxonomy_species_id	accession (a)	taxonomy_species_id	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lookup Picker
plant_name	accession_inv_na...	plant_name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)
geography_id	accession_source (s)	geography_id	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lookup Picker

Dataview example...

CT

Accessions											
Get Passport Data Rev Inventory Cooperators Orders Get Name Group Get Accession Source Accession Inventory Name Passport Data Rev Site Institute2											
	Accession ID	Digital Object Identifier	Accession Prefix	Accession Number	Accession Suffix	Taxon	Name	Origin	Maintenance Site	Is Core?	Is Backed Up?
	10034		MAR	71301	accession_number_part2 -- 2nd part of the three fields used to identify the accession (optional). Must be numeric						
	-2								-1	<input type="checkbox"/>	<input type="checkbox"/>

Dataview example...

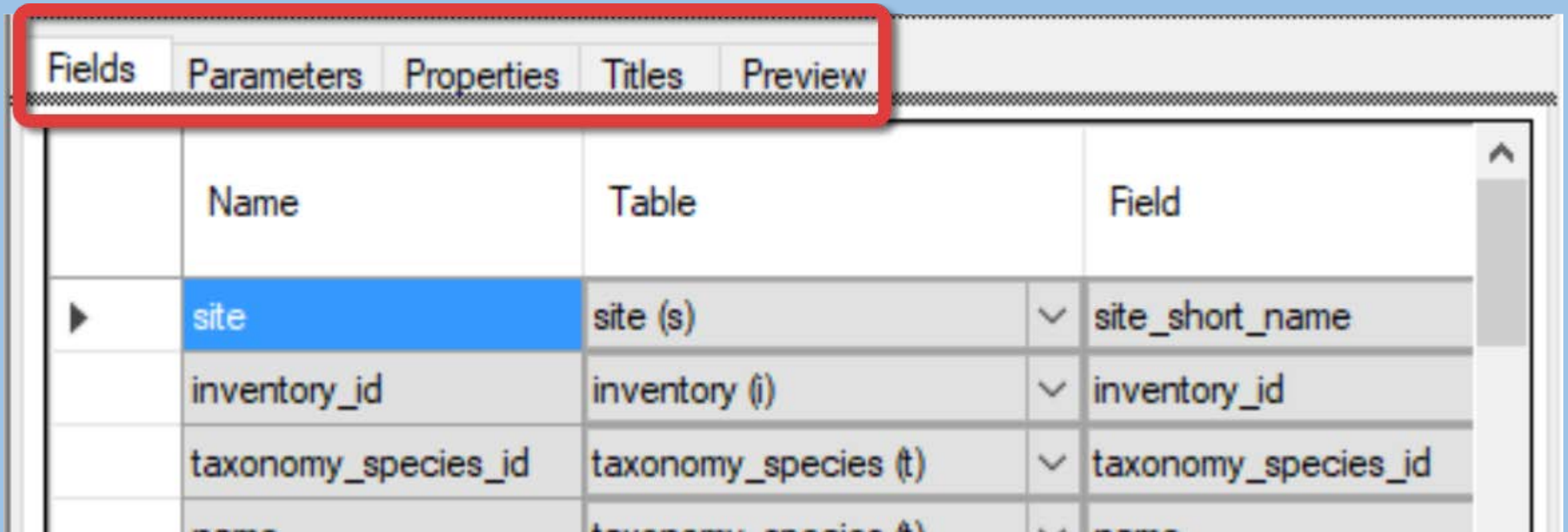
CT

Accessions	Get Passport Data Rev	Inventory	Cooperators	Orders	Get Name Group	Get Accession Source	Accession Inventory Name	Passport Data Rev	Site	Institute2
Accession ID	Digital Object Identifier	Accession Prefix	Accession Number	Accession Suffix	Taxon	Name	Origin	Maintenance Site	Is Core?	Is Backed Up?
10034		MAR	71301	accession_number_part2 -- 2nd part of the three fields used to identify the accession (optional). Must be numeric						
-2								-1	<input type="checkbox"/>	<input type="checkbox"/>

AT

Fields													Parameters	Properties	Titles	Preview
	Name	Table		Field		Required?	Visible In CT?	Read Only?	Primary Key?	Transform?	User Interface		Dr			
	accession_id	accession (a)	▼	accession_id	▼	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Textbox (integers only)	▼	(No			
	doi	accession (a)	▼	doi	▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)	▼	(No			
	accession_number_part1	accession (a)	▼	accession_number_part1	▼	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)	▼	(No			
▶	accession_number_part2	accession (a)	▼	accession_number_part2	▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (integers only)	▼	(No			
	accession_number_part3	accession (a)	▼	accession_number_part3	▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)	▼	(No			
	taxonomy_species_id	accession (a)	▼	taxonomy_species_id	▼	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lookup Picker	▼	(No			

The 5 Tabs in the DV Editor (“Attributes Grid”)



Fields Parameters Properties Titles Preview				
	Name	Table		Field
▶	site	site (s)	▼	site_short_name
	inventory_id	inventory (i)	▼	inventory_id
	taxonomy_species_id	taxonomy_species (t)	▼	taxonomy_species_id
	▼	...

Fields Tab: ...Name Table Field

Fields Parameters Properties Titles Preview									
	Name	Table		Field		Required?	Visible In CT?	Read Only?	Prim Key
▶	accession_id	accession (a)	▼	accession_id	▼	<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"/>	
	accession_number_p...	accession (a)	▼	accession_number_part1	▼	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	accession_number_p...	accession (a)	▼	accession_number_part2	▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	accession_number_p...	accession (a)	▼	accession_number_part3	▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	temporary_accession_id	accession (a)	▼	temporary_accession_id	▼	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Fields Tab: ...the 5 Y/N columns

Fields	Parameters	Properties	Titles	Preview				
Name	Table	Field	Required?	Visible In CT?	Read Only?	Primary Key?	Transform?	User Interface
accession_id	accession (a)	accession_id	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Textbox (integer)
doi	accession (a)	doi	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)
accession_number_part1	accession (a)	accession_number_part1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)
accession_number_part2	accession (a)	accession_number_part2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (integer)
accession_number_part3	accession (a)	accession_number_part3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)
taxonomy_species_id	accession (a)	taxonomy_species_id	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lookup Picker
plant_name	accession_inv_name (an)	plant_name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)

- Required?
- Visible in CT?
- Read Only?
- Primary Key?
- Transform?

Fields Tab: ...the 5 Y/N columns

Fields	Parameters	Properties	Titles	Preview				
Name	Table	Field	Required?	Visible In CT?	Read Only?	Primary Key?	Transform?	User Interface
accession_id	accession (a)	accession_id	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Textbox (integer)
doi	accession (a)	doi	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)
accession_number_part1	accession (a)	accession_number_part1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)
accession_number_part2	accession (a)	accession_number_part2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (integer)
accession_number_part3	accession (a)	accession_number_part3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)
taxonomy_species_id	accession (a)	taxonomy_species_id	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lookup Picker
plant_name	accession_inv_name (an)	plant_name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)

- Required?

- Visible in CT?

not functional (not used in NPGS)

- Read Only?

- Primary Key?

only one!

- Transform?

only used by the PW (rare)

Fields Tab: Fields

indicates the type of, or the source of, the data for each field

- Textboxes
 - freeform
 - integers only
 - decimals only
- Checkbox
- Date/Time
- Lookup Picker
- Drop Down

Lookup Picker Example (in CT)

Get Site SpecialAcc **Get Accession** Mar Action AccFromScratch Get Sys Table Field Lang Get Cooperator ...

	Accession ID	Accession Prefix	Accession Number	Accession Suffix	Taxon	Name
▶	-1					

Lookup Picker v1.9.9.4

HINT: For big lists, use the text filter to shorten the list search.

Filter ->

- +Crataegomespilus dardarii
- +Laburnocytisus adamii
- +Pyrocydonia danielii
- +Pyrocydonia spp.
- Aa spp.
- Abarema adenophora
- Abarema auriculata
- Abarema barbouriana
- Abarema barbouriana var. arenaria
- Abarema barbouriana var. barbouriana
- Abarema brachystachya
- Abarema campestris
- Abarema cochleata

Show Only Choices Valid For This:

☒ is_accepted_name

Refresh List OK Cancel

Lookup Picker (AT)

Fields Parameters Properties Titles Preview

	Name	Required?	Visible In CT?	Read Only?	Primary Key?	Transform?	User Interface	Drop Down Source	Lookup Picker Source	
	accession_id	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Textbox (integers only)	▼ (None)	▼ (None)	▼
	doi	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)	▼ (None)	▼ (None)	▼
	accession_number_part1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)	▼ (None)	▼ (None)	▼
	accession_number_part2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (integers only)	▼ (None)	▼ (None)	▼
	accession_number_part3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)	▼ (None)	▼ (None)	▼
▶	taxonomy_species_id	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lookup Picker	▼ (None)	▼ taxonomy_species_lookup	▼
	plant_name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Textbox (free-form)	▼ (None)	▼ (None)	▼
	geography_id	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lookup Picker	▼ (None)	▼ geography_lookup	▼

< >

Save Cancel

Drop Down Example (in CT)

Accessions	Get Passport Data Rev	Inventory	Cooperators	Orders	Get Name Group	Get Accession Source	Accession Inventory Name	Passport Data Rev	Site	Institute2		
	Maintenance Site	Is Core?	Is Backed Up?	Backup Location 1	Backup Location 2	Status	Life Form	Level Of Improvement	Reproductive Uniformity	Received As	Received Date Format	
	102	<input type="checkbox"/>	<input type="checkbox"/>			Active	[Null]	[Null]	[Null]	[Null]	mm/dd/yyyy	07
	-1	<input type="checkbox"/>	<input type="checkbox"/>			Active	[Null]	[Null]	[Null]	[Null]	[Null]	
						Active Inactive Quarantine Security backup Temporary						

Drop Down (AT)

Fields Parameters Properties Titles Preview										
Name		Required?	Visible In CT?	Read Only?	Primary Key?	Transform?	User Interface	Drop Down Source	Lookup Picker Source	
backup_location2_site_id	▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lookup Picker	▼ (None)	▼ site_lookup	
status_code	▼	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drop Down	▼ ACCESSION_STATUS	▼ (None)	
life_form_code	▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drop Down	▼ ACCESSION_LIFE_FORM	▼ (None)	
improvement_status_code	▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drop Down	▼ IMPROVEMENT_LEVEL	▼ (None)	
reproductive_uniformity_code	▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drop Down	▼ REPRODUCTIVE_UNIFOR...	▼ (None)	
initial_received_form_code	▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drop Down	▼ GERMPLASM_FORM	▼ (None)	
initial_received_date_code	▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drop Down	▼ DATE_FORMAT	▼ (None)	
initial_received_date	▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Date / Time Control	▼ (None)	▼ (None)	

<>

SaveCancel

Drop Down Source is always a Code Group

Code Groups discussed in session 4

AT Accessions Dataview

Fields Parameters Properties Titles Preview											
Name		Required?	Visible In CT?	Read Only?	Primary Key?	Transform?	User Interface	Drop Down Source	Lookup Picker Sou		
backup_location2_site_id	▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lookup Picker	▼ (None)	▼	site_lookup	
status_code	▼	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drop Down	▼ ACCESSION_STATUS	▼	(None)	
life_form_code	▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drop Down	▼ ACCESSION_LIFE_FORM	▼	(None)	
improvement_status_code	▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drop Down	▼ IMPROVEMENT_LEVEL	▼	(None)	

Accessions Get Passport Data Rev Inventory Cooperators Orders Get Name Group Get Accession Source Accession Inventory Name Passport Data Rev Site Institute2												
	Maintenance Site	Is Core?	Is Backed Up?	Backup Location 1	Backup Location 2	Status	Life Form	Level Of Improvement	Reproductive Uniformity	Received As	Received Date Format	F D
	102	<input type="checkbox"/>	<input type="checkbox"/>			Active	[Null]	[Null]	[Null]	[Null]	mm/dd/yyyy	07
	-1	<input type="checkbox"/>	<input type="checkbox"/>			Active ▼	[Null]	[Null]	[Null]	[Null]	[Null]	
						Active						
						Inactive						
						Quarantine						
						Security backup						
						Temporary						

Curator Tool Accessions Dataview

Fields: Languages

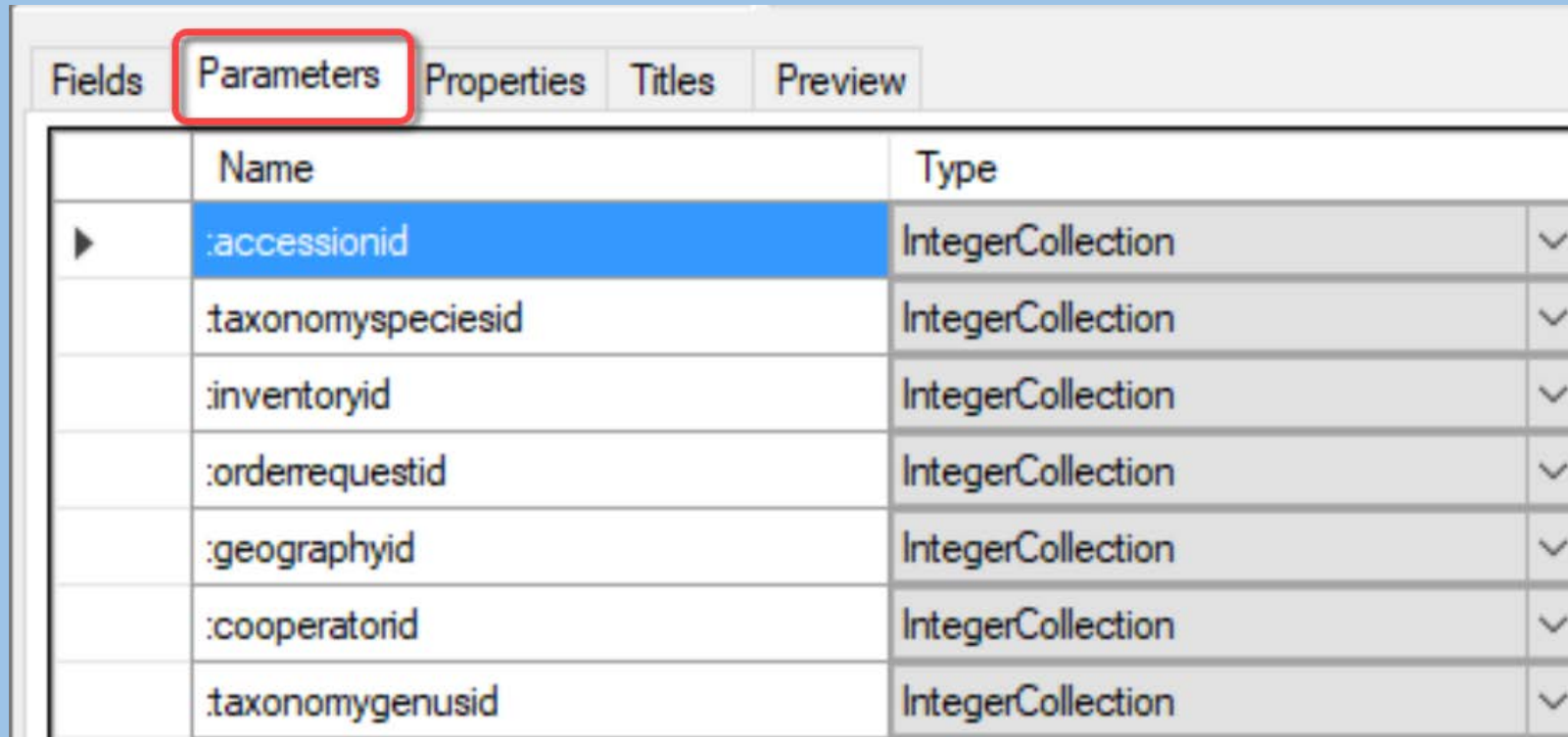
Fields										
Parameters Properties Titles Preview										
Name			Lookup Picker Source	Český	ENG	English	Español	Français	Português	
is_web_visible		▼	(None) ▼		Is Web Visi...	Is Web Visible?				
note		▼	(None) ▼	Poznámka	Note	Note	Nota	Note		Data de modifi
accession_id_string		▼	accession_lo...			Accession				
created_date		▼	(None) ▼	Datum vytvoře...	Created Date	Created Date	Fecha creado	Date de création		Data de criação
created_by		▼	cooperator_lo...	Vytvořil	Created By	Created By	Creado Por	Créé(e) par		Criado por
modified_date		▼	(None) ▼	Datum modifik...	Modified Date	Modified Date	Fecha de modific...	Date de modificat...		Data de modifi
modified_by		▼	cooperator_lo...	Modifikoval	Modified By	Modified By	Modificado por	Modifié(e) par		Modificado po

Languages discussed in session 4

Parameters Tab

Fields	Parameters	Properties	Titles	Preview
	Name	Type		
▶	:accessionid	IntegerCollection		▼
	:taxonomyspeciesid	IntegerCollection		▼
	:inventoryid	IntegerCollection		▼
	:orderrequestid	IntegerCollection		▼
	:geographyid	IntegerCollection		▼
	:cooperatorid	IntegerCollection		▼
	:taxonomygenusid	IntegerCollection		▼

Parameters Tab



	Name	Type
▶	:accessionid	IntegerCollection
	:taxonomyspeciesid	IntegerCollection
	:inventoryid	IntegerCollection
	:orderrequestid	IntegerCollection
	:geographyid	IntegerCollection
	:cooperatorid	IntegerCollection
	:taxonomygenusid	IntegerCollection

Parameters are values that must be specified at run time

Example:
:accession_ID

Parameters Tab

Source Tables and Fields

Auto Synchronize ☒

SQL Server

```
accession a
INNER JOIN (
    SELECT accession_id FROM accession WHERE accession_id IN (:accessionid)

    UNION SELECT accession_id FROM accession
        WHERE taxonomy_species_id IN (:taxonomyspeciesid)

    UNION SELECT accession_id FROM inventory
        WHERE inventory_id IN (:inventoryid)

    UNION SELECT accession_id FROM inventory i
```

Fields Parameters Properties Titles Preview

	Name	Type
▶	:accessionid	IntegerCollection
	:taxonomyspeciesid	IntegerCollection

Properties Tab

The screenshot shows a software window with a tabbed interface. The 'Properties' tab is selected and highlighted with a red rectangle. The 'Dataview Name' field contains 'get_accession' and is highlighted with a yellow background. The 'Flags and Settings' section contains several options: 'Is Read Only' (unchecked), 'Is Read Only On Insert' (unchecked), 'Category' (set to 'Client'), 'Database Area' (set to 'Accession'), and 'Order' (set to '0'). The 'Category' and 'Database Area' dropdowns are circled in purple. To the right of the 'Category' dropdown is a blue 'Help...' link. Below the 'Flags and Settings' section is a 'Configuration Options' field. At the bottom right are 'Save' and 'Cancel' buttons.

Fields Parameters **Properties** Titles Preview

Dataview Name: get_accession

Flags and Settings

☐ Is Read Only

☐ Is Read Only On Insert

Category: Client [Help...](#)

Database Area: Accession

Order: 0

☐ Transform Output

Field for Names:

Field for Values:

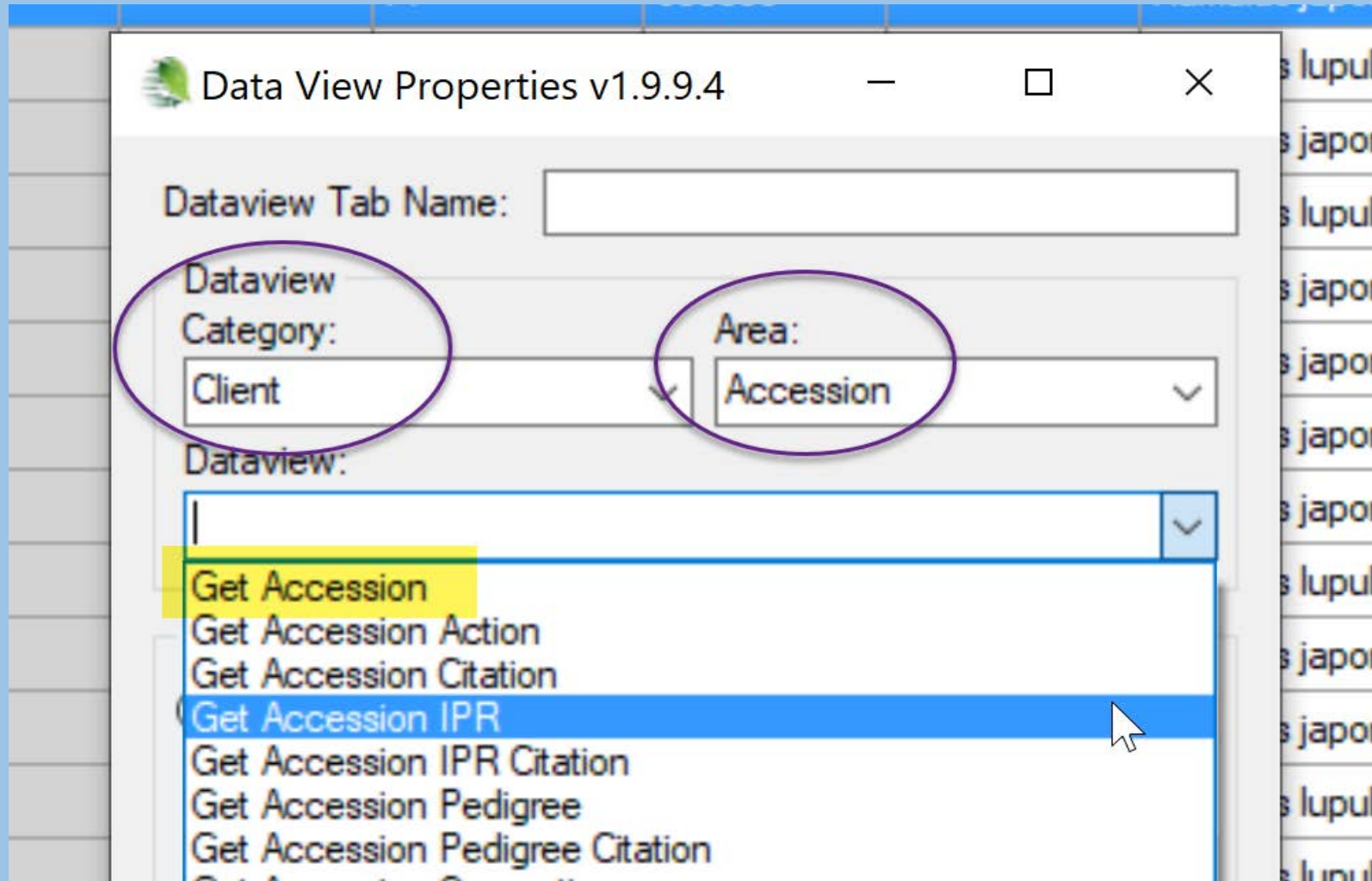
Field for Captions:

Configuration Options:

Save Cancel

primarily for
designating
Category and
the Database
Area

CT – User loading a DV



Data View Properties v1.9.9.4

Dataview Tab Name:

Dataview Category:

Area:

Dataview:

- Get Accession
- Get Accession Action
- Get Accession Citation
- Get Accession IPR
- Get Accession IPR Citation
- Get Accession Pedigree
- Get Accession Pedigree Citation

I need to edit some data in the CT but the dataview doesn't display...



What Determines if a dataview is
Visible in the CT?

What Determines if a DV is Visible in the CT?

localhost\\sqlexpress - sqlserver > Databases > System > get_dataview_list

Source Tables and Fields

Name	Hierarchy
accession	
accession	
accession	
accession	
accession	
accession	
accession	
accession	
accession	

SQL Server

```
LEFT JOIN code_value cc
    ON sd.category_code = cc.value AND cc.group_name = 'DATAVIEW_CATEGORY'
LEFT JOIN code_value_lang ccl
    ON cc.code_value_id = ccl.code_value_id AND ccl.sys_lang_id = __LANGUAGEID__
LEFT JOIN code_value dac
    ON sd.database_area_code = dac.value AND dac.group_name = 'DATAVIEW_DATABASE_AREA'
LEFT JOIN code_value_lang dacl
    ON dac.code_value_id = dacl.code_value_id AND dacl.sys_lang_id = __LANGUAGEID__
WHERE sd.category_code = 'Client' OR sd.category_code = 'Reports' OR sd.category_code LIKE 'Site%'
```

Fields Parameters Properties Titles Preview

☒ Limit Rows To: 100 View In: English Go Retrieved 100 rows.

Title	Description	Is Enabled?	Is Read-only?	Title	Title	Sort Order	Field Name
Get Inventory	Get Inventory	Y	N	Client	Inventory	0	inventory_id
Get Inventory Action	Get Inventory Act...	Y	N	Client	Inventory	0	inventory_action_id
Get Crop Trait Observation	Get Crop Trait Ob	Y	N	Client	Crop	0	crop_trait_observation_id

Adding a Language:

Example of Changing the Category

Example:

get_sys_language

DV Categories

See Help Link in DV Editor for additional rules

Fields Parameters Properties Titles Preview

Dataview Name:

Flags and Settings

☐ Is Read Only

☐ Is Read Only On Insert

Category:

Database Area:

Order:

[Help...](#)

☐ Transform Output

Field for Names:

Field for Values:

Field for Captions:

Configuration Options:

[Help...](#)

Transform Output

Rarely used. One example:
web_search_observation dataview

The screenshot shows the configuration window for the 'web_search_observation' dataview. The 'Properties' tab is selected, and the 'Transform Output' section is highlighted in yellow. The 'Dataview Name' is 'web_search_observation'. Under 'Flags and Settings', 'Is Read Only' is checked, 'Is Read Only On Insert' is unchecked, 'Category' is 'Web Application', 'Database Area' is 'Search', and 'Order' is '1'. A 'Help...' link is also present. The 'Transform Output' section includes a checked checkbox, and three dropdown menus for 'Field for Names' (trait_name), 'Field for Values' (trait_value), and 'Field for Captions'.

Fields Parameters Properties Titles Preview

Dataview Name: web_search_observation

Flags and Settings

- ☒ Is Read Only
- ☐ Is Read Only On Insert
- Category: Web Application [Help...](#)
- Database Area: Search
- Order: 1

☒ Transform Output

Field for Names: trait_name

Field for Values: trait_value

Field for Captions:

Titles Tab

- a title and a description can be given to each dataview for each language
- if you duplicate a dataview – for testing or *to have a slightly different* dataview, use unique titles

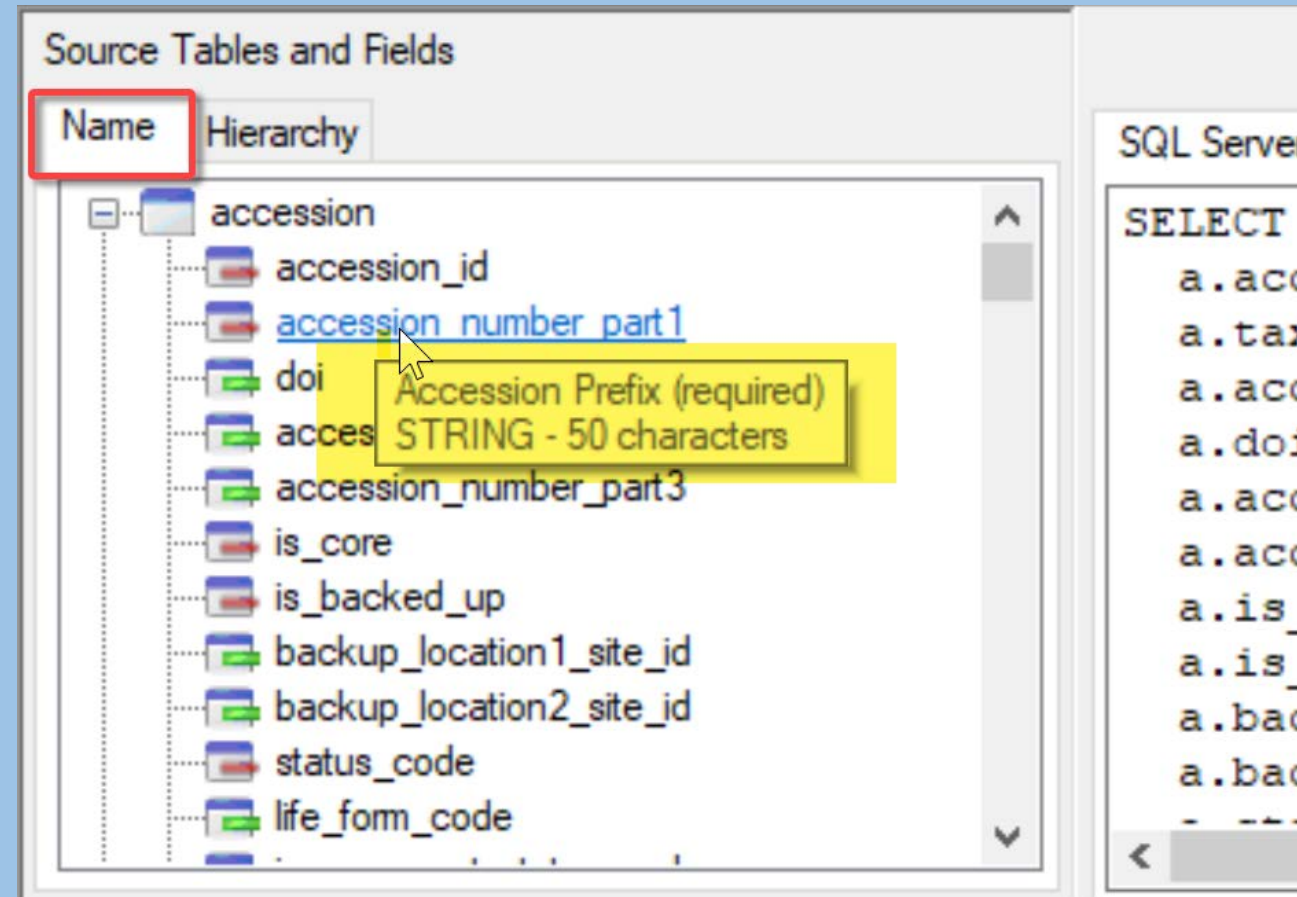
Fields	Parameters	Properties	Titles	Preview
	Language		Title	Description
►	Český		Get Accession	Get Accession
	ENG			
	English		Get Accession	Get Accession
	Español		Get Accesión	Obtener Accesión
	Français		Obtenir l'adhésion	Obtenir l'adhésion
	Português		Get Accession	Get Accession
	System			
	Русский		Получить Присоединение	Получить Присоединение
	العربية		الحصول على الانضمام	الحصول على الانضمام

Name & Hierarchy Tabs

- **Name**

lists dataviews in alphabetical order;

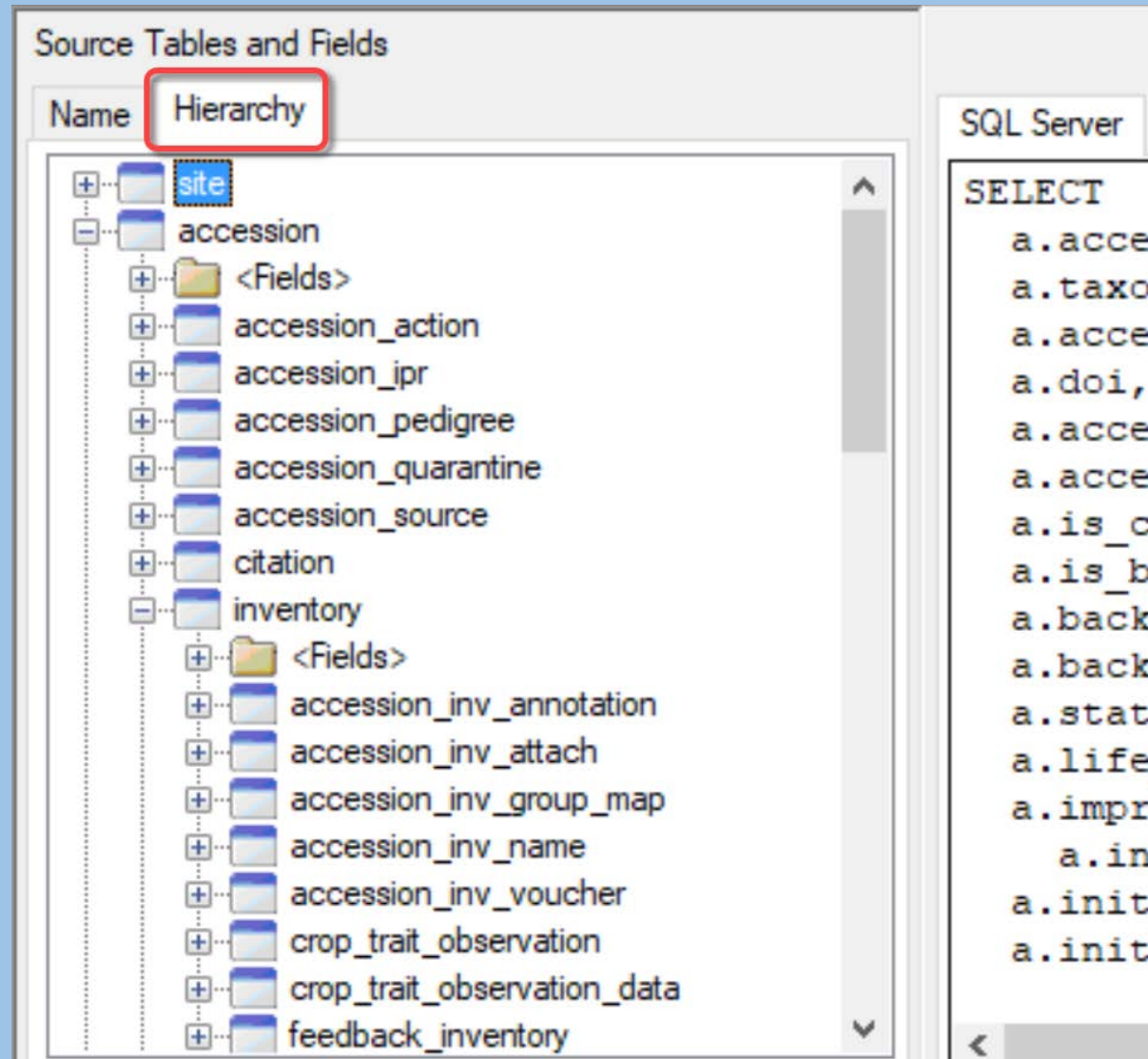
scroll over the fieldname –
displays friendly name –
other field attributes;
red icons indicate required fields



Name & Hierarchy Tabs

Hierarchy

- shows the parent-child relationships between tables
- useful for finding the unique key



GG Rule #1

GG Admin Tool Rule #1

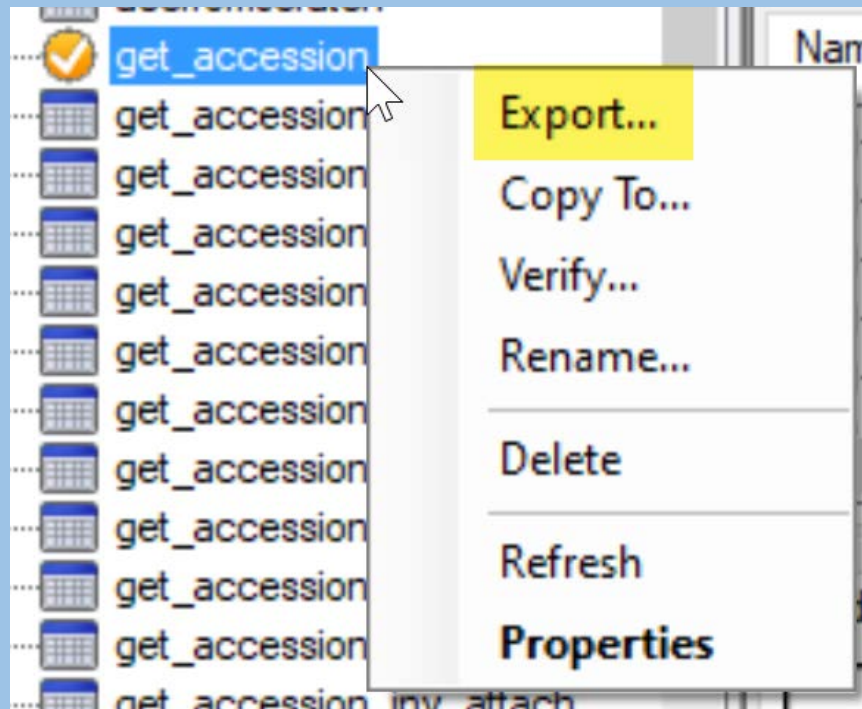
- When unsure, right-click!



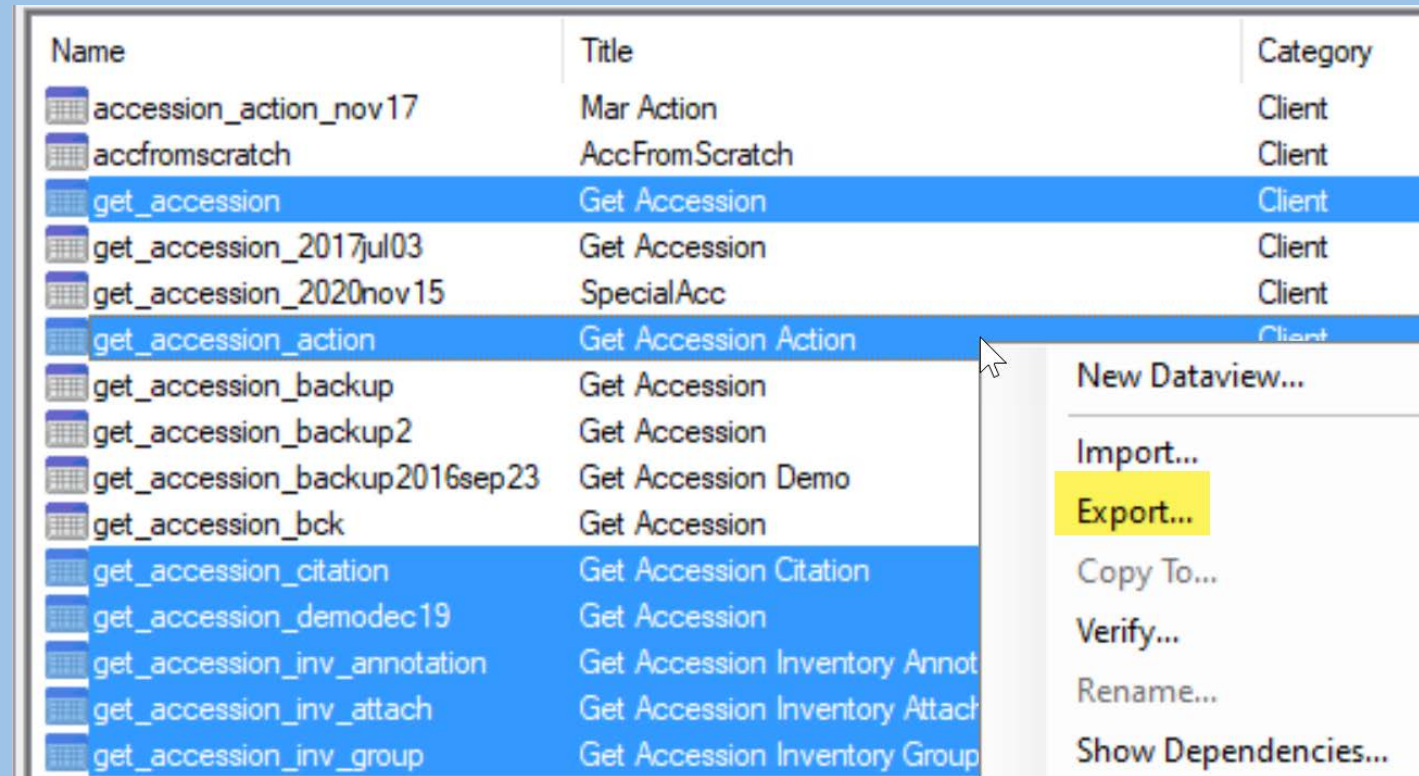
Created by Icon Island
from Noun Project

Dataview menu: Export...

One or...



many...

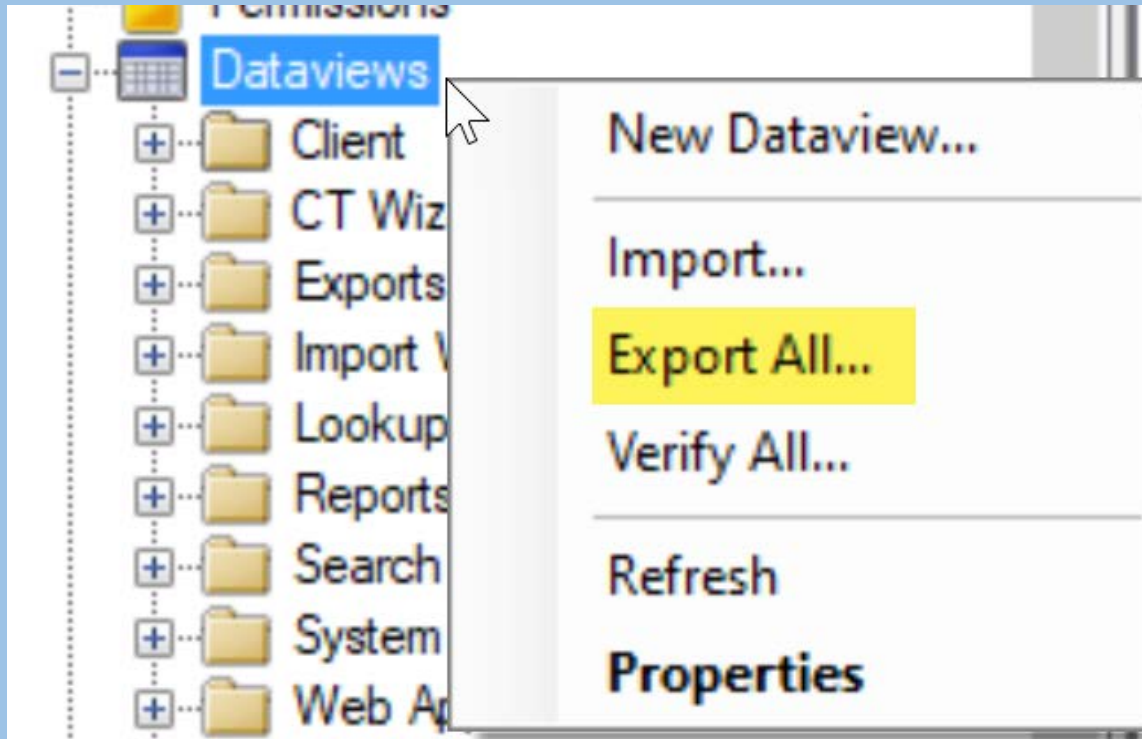


or...

Ctrl +/-or Shift..

Dataview menu: Export...

Folder or All



Deleting Dataviews

localhost\sqlexpress - sqlserver

Groups
Users
Permissions
Dataviews
Client

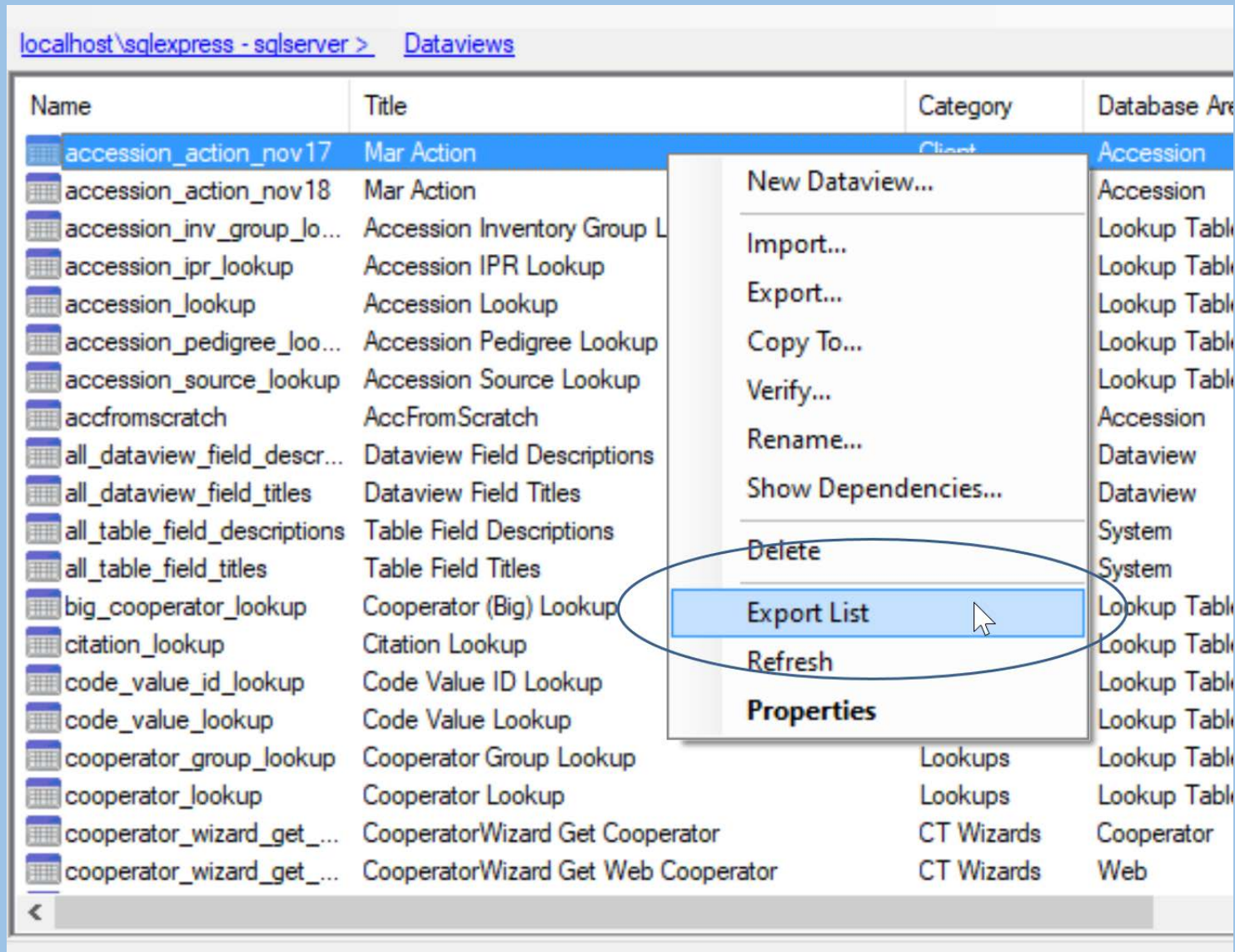
localhost\sqlexpress - sqlserver > Dataviews > Client

Name	Title	Category	Database Area
accession_action_nov17	Mar Action	Client	Accession
accession_action_nov18	Mar Action	Client	Accession
accfromscratch	AccFromScratch	Client	Accession
get_accession	Get Accession	Client	Accession
get_accession_2017jul03	Get Accession	Client	Accession
get_accession_2020nov15	SpecialAcc	Client	Accession
get_accession_action	Get Accession Action	Client	Accession
get_accession_backup	Get Accession	Client	Accession
get_accession_backup2		Client	Accession
get_accession_bck		Client	Accession
get_accession_citation		Client	Accession
get_accession_demodec19		Client	Accession
get_accession_inv_annotation		Client	Accession/Inve...
get_accession_inv_attach		Client	Accession/Inve...
get_accession_inv_group		Client	Accession/Inve...
get_accession_inv_group_attach		Client	Accession/Inve...
get_accession_inv_group_map		Client	Accession/Inve...
get_accession_inv_name		Client	Accession/Inve...
get_accession_inv_voucher		Client	Accession/Inve...
get_accession_jpr		Client	Accession

New Dataview...
Import...
Export...
Copy To...
Verify...
Rename...
Show Dependencies...
Delete
Export List
Refresh
Properties

Refreshed Dataviews at 11/22/2020 11:13:10 AM

Getting a List of Dataviews








Export ALL dataviews ... twice!



- *Before using* Updater to update your database
- *Immediately after* updating your database

<input type="checkbox"/>	Name	Date modified	Type
<input checked="" type="checkbox"/>	20_all.dataviewxml	11/20/2020 6:43 PM	Open dataviewxml with GG Admin Tool

Importing Dataviews

<input type="checkbox"/> Name	Date modified	Type
 2020_11_20_all.dataviewxml	11/20/2020 6:43 PM	Open dataviewxml with GG Admin Tool
 2020_11_20_Client_all.dataviewxml	11/20/2020 6:16 PM	Open dataviewxml with GG Admin Tool
 accession_action_nov17_20201118.dataviewxml	11/20/2020 6:15 PM	Open dataviewxml with GG Admin Tool
<input checked="" type="checkbox"/>  accession_action_nov17+5_20201118.dataviewxml	11/20/2020 6:34 PM	Open dataviewxml with GG Admin Tool
 get_accession_20181210.dataviewxml	11/5/2020 9:20 PM	Open dataviewxml with GG Admin Tool

Importing Dataviews

Select Dataview(s) to Import

☒ Select All

Dataview	Last Touched	Category
<input checked="" type="checkbox"/> accession_action_nov17	11/17/2020 7:56:23 PM	Client
<input checked="" type="checkbox"/> accfromscratch	11/18/2020 8:52:53 PM	Client
<input checked="" type="checkbox"/> get_accession	12/10/2018 11:40:18 AM	Client
<input checked="" type="checkbox"/> get_accession_2017jul03	7/3/2017 4:41:37 PM	Client
<input checked="" type="checkbox"/> get_accession_2020nov15	11/17/2020 7:48:28 PM	Client
<input checked="" type="checkbox"/> get_accession_action	10/9/2014 1:59:26 PM	Client
<input checked="" type="checkbox"/> get_accession_backup	11/10/2016 2:59:10 PM	Client
<input checked="" type="checkbox"/>

Import SQL For...

☒ SQL Server

Other Settings

☒ Include Fields, Properties, and Parameters

Language

☒ Include language-specific field names and titles

☐ Use as defaults in table mappings

localhost\sqlexpress

Import Cancel

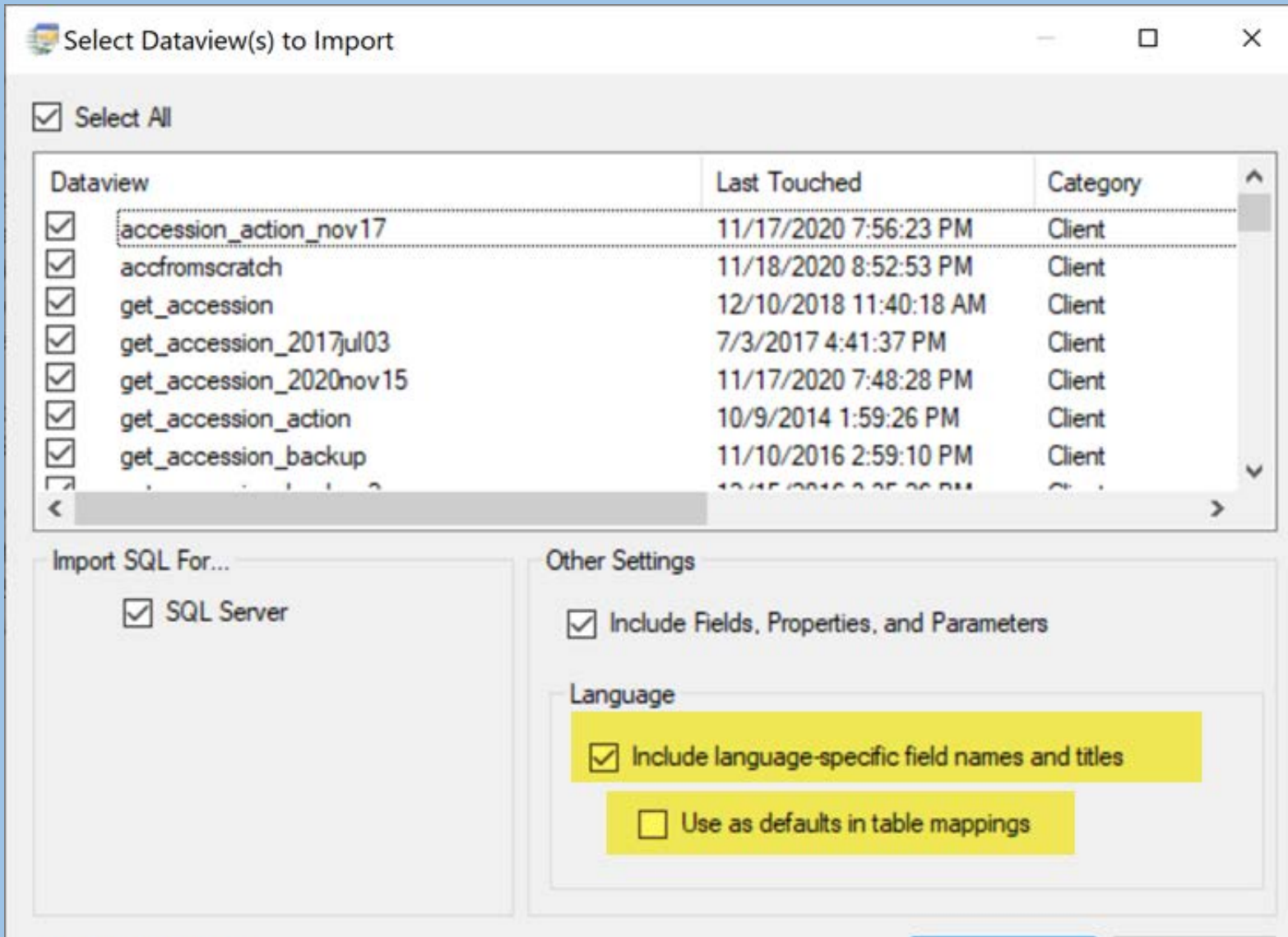
Consider Renaming when Importing



- Use F2 to rename a dataview to protect the original (when appropriate)



Include language-specific... yes!



Select Dataview(s) to Import

☒ Select All

Dataview	Last Touched	Category
<input checked="" type="checkbox"/> accession_action_nov17	11/17/2020 7:56:23 PM	Client
<input checked="" type="checkbox"/> accfromscratch	11/18/2020 8:52:53 PM	Client
<input checked="" type="checkbox"/> get_accession	12/10/2018 11:40:18 AM	Client
<input checked="" type="checkbox"/> get_accession_2017jul03	7/3/2017 4:41:37 PM	Client
<input checked="" type="checkbox"/> get_accession_2020nov15	11/17/2020 7:48:28 PM	Client
<input checked="" type="checkbox"/> get_accession_action	10/9/2014 1:59:26 PM	Client
<input checked="" type="checkbox"/> get_accession_backup	11/10/2016 2:59:10 PM	Client

Import SQL For...

☒ SQL Server

Other Settings

☒ Include Fields, Properties, and Parameters

Language

☒ Include language-specific field names and titles


☐ Use as defaults in table mappings

Friendly Names – 2 Types

table/field level & *dataview*/field level


Database Field Names

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

DB Table Field *friendly names*

Get Site	SpecialAcc	Get Accession	Mar Action	AccFromScratch	Get Sys Table Field Lang	Get Cooperator	Get System Language	 ...
	Sys Table Field Lang ID	Child Table	Table Field	Language	Title	Description		
	66	accession	accession_id	English	Accession ID	accession_id -- Accession table's primary field. (Generated field; cannot be edited)		
	67	accession	accession_number_part1	English	Accession Prefix	accession_number_part1 -- Each accession identifier. Example: VAB 123		
	68	accession	accession_number_part2	English	Accession Number	accession_number_part2 -- 2nd part of accession identifier		
	69	accession	accession_number_part3	English	Accession Suffix	accession_number_part3 -- record identifier (optional)		
	200	accession	is_core	English	Is Core?	is_core -- Y/N flag indicating that the record is a core subject accession		
	206	accession	is_backed_up	English	Is Backed Up?	is_backed_up -- A Y/N flag; indicates if the record is backed up at an alternate location		

screen from CT

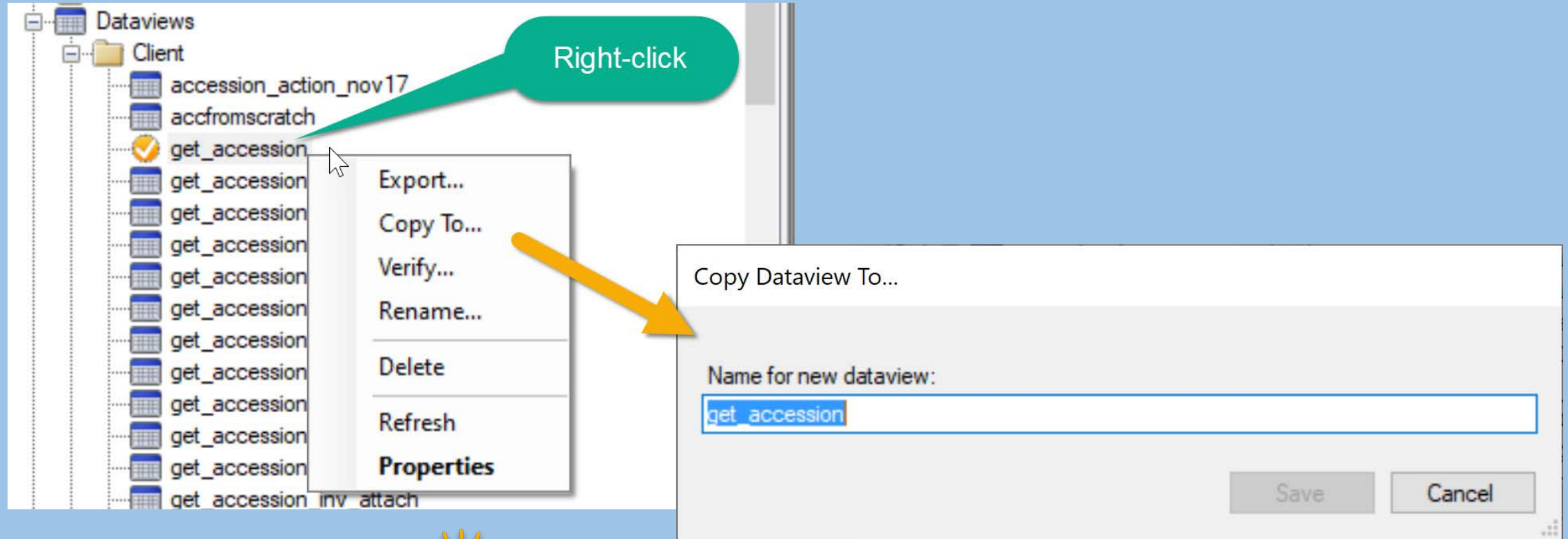
Friendly Names – 2 Types

- *table/field level* & *dataview/field level*
- With new dataviews, the *table/field* friendly name is the default friendly name
accession_number_part1 = Accession Prefix

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

Copying Dataviews



Duplicate ! 

Show Dependencies...

How do you determine where Lookup Tables are used?

Show Dependencies...

How do you determine where Lookup Tables are used?



Created by Icon Island
from Noun Project

Show Dependencies...

The screenshot illustrates the process of viewing dependencies for a specific lookup table in a database application. The interface is divided into several panels:

- Left Panel (Lookups):** A tree view showing a folder named 'Lookups' containing a list of lookup tables. The list includes: accession_inv_group_lookup, accession_ipr_lookup, accession_lookup, accession_pedigree_lookup, accession_source_lookup, big_cooperator_lookup, citation_lookup, code_value_id_lookup, code_value_lookup, cooperator_group_lookup, cooperator_lookup, crop_lookup, crop_trait_code_lookup, crop_trait_lookup, exploration_lookup, genetic_annotation_lookup, genetic_marker_lookup, genetic_observation_lookup, geography_lookup, and inventory_lookup.
- Center Panel (List of Lookups):** A list of lookup tables. The table 'taxonomy_genus_lookup' is highlighted in blue. A mouse cursor is pointing at it, and a circular arrow icon is overlaid on the list.
- Right Panel (Context Menu):** A menu is open for the selected 'taxonomy_genus_lookup' table. The menu options are: New Dataview..., Import..., Export..., Copy To..., Verify..., Rename..., Show Dependencies... (highlighted in yellow), and Delete.
- Far Right Panel (Dependencies Window):** A window titled 'Dependencies for taxonomy_genus_lookup' is open. It lists the following dependencies: Dataview: web_taxonomygenus_summary, Dataview: web_taxonomygenus_synonyms, Dataview: get_taxonomy_attach, Dataview: get_taxonomy_genus, Dataview: get_taxonomy_family, Dataview: get_taxonomy_common_name, Dataview: get_taxonomy_species, Dataview: get_taxonomy_alt_family_map, and Dataview: taxonomy_common_name_lookup. Below this list, there is a section titled 'Taxonomy CWR Map Lookup' which includes: _genus_citation, get_order_request_item, get_packet_label, _regulation_map, in_name, ily_map, s, and ion_map.

A large yellow arrow points downwards from the 'Show Dependencies...' menu option to the 'Dependencies for taxonomy_genus_lookup' window, indicating the flow of the action.

Questions?

Marty Reisinger

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