

Objective:

Perform administrative functions for GRIN-Global using the Admin Tool and other tools

martin reisinger, instructor

Credits

- •Brock Weaver Consultant, Admin Tool designer & developer
- •Kurt Endress USDA, AT & Updater modifier & guru, GG expert & resource
- •Juan Carlos Alarcon CIMMYT, GG Frontrunner
- •Matija Obreza Crop Trust, Information Systems Manager
- •Pete Cyr USDA, CT developer
- •Edwin Rojas CIP, Wizard contributor, GG Community Facebook

Agenda: Understand...

- GG components
- Schema: categories; areas; dataviews
- Naming conventions
- Parent-child relationships
- Key tables: Sites, Geography, Cooperators, SYS_...
- Data dictionary (& generate it)
- Determining field characteristics / SQL Server Management Studio (SSMS)

Agenda: How to use...

- AT Overview interface
- Users:
 - Add / update,
 - Users to Groups
 - Assigning Permissions to Users
 - Searching Web users
- GG Updater

Quiz!

What language was GRIN originally programmed in?

- Machine
- Assembly
- COBOL
- FORTRAN
- Pascal
- C#

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When was the Admin Tool written?

- a. 2005 2006
- b. 2008 2010
- c. 2012 2015

When was the Admin Tool written?

- a. 2005 2006
- b. 2008 2010
- c. 2012 2015

Which abbreviation does not belong in the mix? (only 1 answer)

AT	DV	PW
CR	GG	SQL
CT	IIS	SSMS
DB	MR-CF	ST
DBA	MS	

Which does not belong in the mix? (only 1 answer)

AT	DV	PW
CR	GG	SQL
СТ	IIS	SSMS
DB	MR-CF	ST
DBA	MS	

Marty Reisinger Chicken Farmer

GG Environment

- flexible *dataviews* can be added / modified
- expandable *wizards* can be added
- customizable codes easily added; triggers enabled / or disabled; languages can be added

Flexible...

Many dataviews

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

– 🗆 X

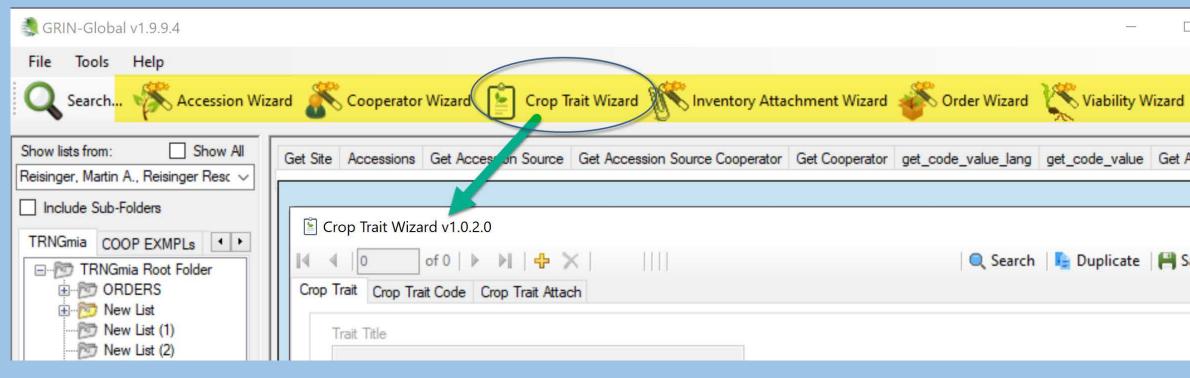
File View Tools Help

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	accession_lookup	Accession Lookup	Lookups	Lookup Table	11/25
	accession_pedigree_lookup	Accession Pedigree Lookup	Lookups	Lookup Table	1/25/2
	accession_source_lookup	Accession Source Lookup	Lookups	Lookup Table	11/25/
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	all_dataview_field_titles	Dataview Field Titles	System	Dataview	11/25/
Web Application	all_table_field_descriptions	Table Field Descriptions	System	System	11/25
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	citation_lookup	Citation Lookup	Lookups	Lookup Table	11/25
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 LI	cooperator_wizard_get_web_user_shipping_address	CooperatorWizard Get Web User Shipping Addr	CT Wizards	Web	11/8/2
	crop_lookup	Crop Lookup	Lookups	Lookup Table	11/25/
	m crop_lookup	Crop Lookup	Lookups	Lookup Table	11/25/

Expandable...

Wizards



Customizable

Codes

Get Cr	op Get Cro	p Trait Get Crop Trait Lang Get Crop	Trait	Code Get C	rop Trait Code Lang Get Method	Get Code Value Language
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	10212	ACCESSION_ACTION.SPLIT_ACC		Русский	Разделение на несколько обр	Образец был разделен на не
	2181	ACCESSION_ACTION.SUBLINED		English	Accession split into sublines	Heterogeneous plant introducti
	5407	ACCESSION_ACTION.SUBLINED		Español	Accesión divididida en sublíneas	
	7575	ACCESSION_ACTION.SUBLINED		Français	L'accession se subdivise en sou	
	8792	ACCESSION_ACTION.SUBLINED		العربية	تم فصل المدخلات إلى سلالات تابعة	
	10213	ACCESSION_ACTION.SUBLINED		Русский	Образец разделен на сублинии	
	2182	ACCESSION_ACTION.SVALBARD		English	Backed up at Svalbard Global S	Accession is backed up at Sva
	5412	ACCESSION ACTION.SVALBARD		Español	Copia de seguridad en Bóveda	

Customizable

Triggers

GRIN-Global Admin v 1.10.6.0 - [Data Triggers - localhost\sqlexpress]

File View Tools Help localhost\sqlexpress - sqlserver > Data Triggers ----- E Connections localhost\sglexpress - sgl Dataview Table Assembly Class Description Enabled? Virtual File Groups GrinGlobal Additi. GrinGlobal Additi Checks accession for valid taxonomy ... ~/bin/Grin accession Users C GrinGlobal Additi... GrinGlobal Additi... Create a accession inv_name row for... ~/bin/Grir Permissions accession N 1 Dataviews GrinGlobal.Additi... GrinGlobal Additi Creates Accession Re-ID annotation i... Y ~/bin/Grir accession Table Mappings GrinGlobal Additi GrinGlobal Additi Allows assigning of sequential number... ~/bin/Grin Y accession 6 Data Triggers + GrinGlobal Additi GrinGlobal Additi. Creates action on accession number ... Y ~/bin/Grin accession 0 Maintenance GrinGlobal.Additi... GrinGlobal.Additi... Checks Accession Action date order. Y ~/bin/Grir accession action 6 File Groups GrinGlobal, Additi Checks Accession Inv Annotation. Y ~/bin/Grir GrinGlobal Additi ... accession_inv_... Web Application GrinGlobal Additi GrinGlobal Additi Y ~/bin/Grir accession inv ... Updates accession name rank. localhost\sqlexpress - sqls + and the second ~ Anim / Grin GrinGlahal Additi GrinGlabal Additi Checks Accession IPP V accession inr

- Operating System
- Database
- Applications
- Supplementary Software
- Extensions
- Other Components

Windows (& Windows IIS)

- Operating System
- Database
- Applications
- Supplementary Software
- Extensions
- Other Components

Windows (& Windows IIS) MS SQL Server; SSMS

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- Extensions
- Other Components

Windows (& Windows IIS) MS SQL Server; SSMS Web Application, CT, ST, PW, AT, Updater

- Operating System
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- Other Components

Windows (& Windows IIS) MS SQL Server; SSMS Web Application, CT, ST, PW, AT, Updater Crystal Reports Viewer

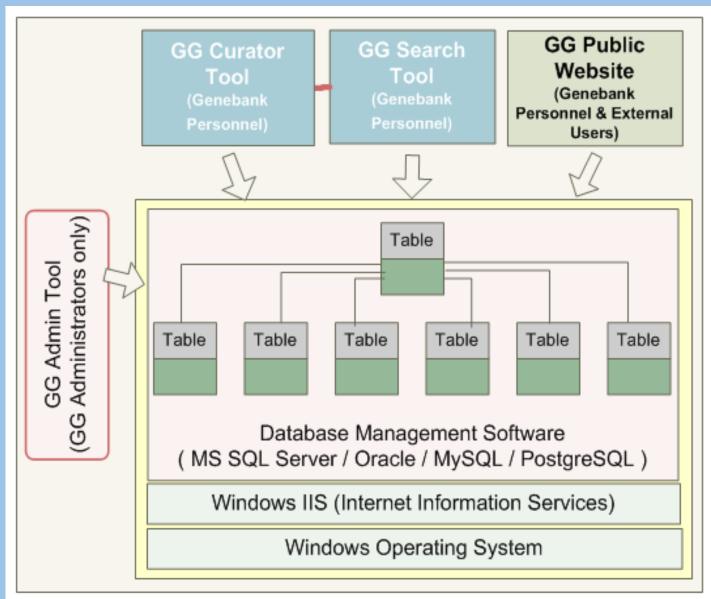
- Operating System
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Windows (& Windows IIS) MS SQL Server; SSMS Web Application, CT, ST, PW, AT, Updater Crystal Reports *Viewer* **Forms & Wizards**

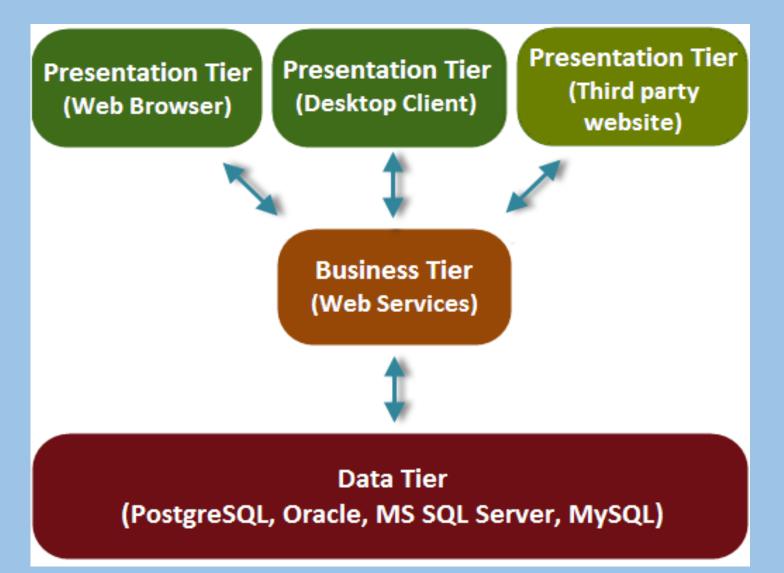
- Operating System
- Database
- Applications
- Supplementary Software
- Extensions
- Other Components

Windows (& Windows IIS) MS SQL Server; SSMS Web Application, CT, ST, PW, AT, Updater **Crystal Reports** Viewer Forms & Wizards **Dataviews & Images**

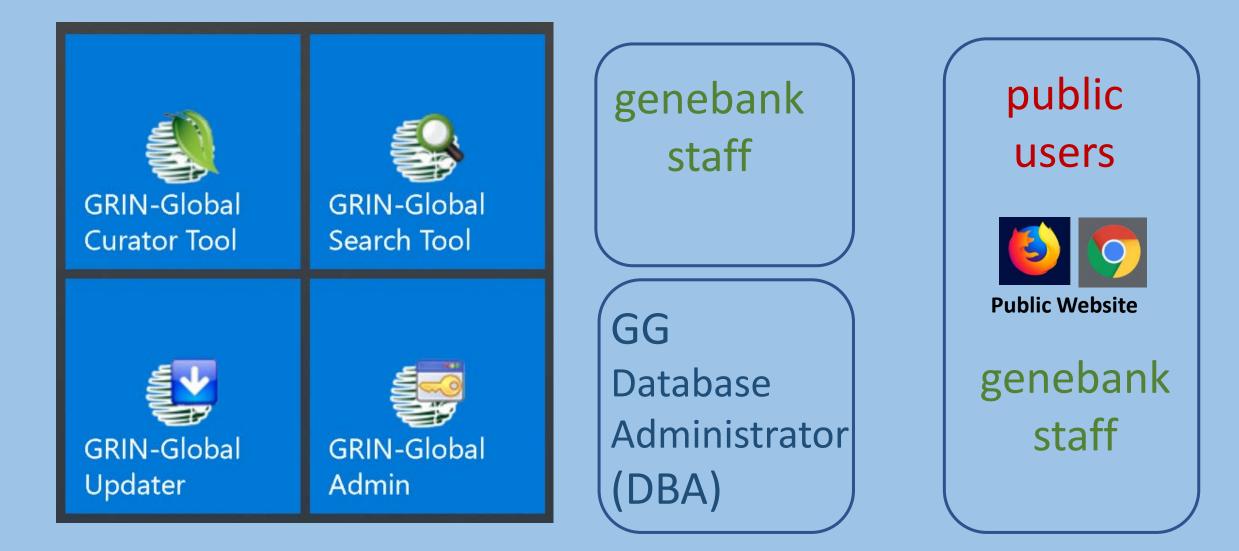
GG: Environment



GG: 3 Tier Architecture



GRIN-Global



GG: Software Components

• Web Application ("middle tier")

Web site *and* web services used for interacting with all GRIN-Global data

Makes calls into the database and search engine as requested

• Updater

for updating the GG server applications

...continued... Software Components...

• Curator Tool

designed for genebank staff for viewing and manipulating GG data

• Search Tool

for performing searches of GRIN-Global data

• Admin Tool

for administering GRIN-Global Requires a direct database connection

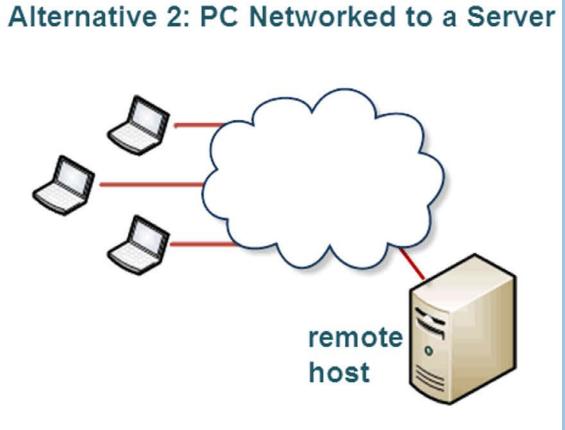


Customizable: Configurations

Alternative 1: Standalone PC



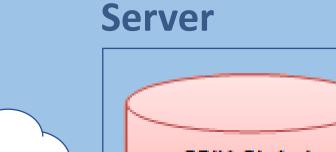
local host





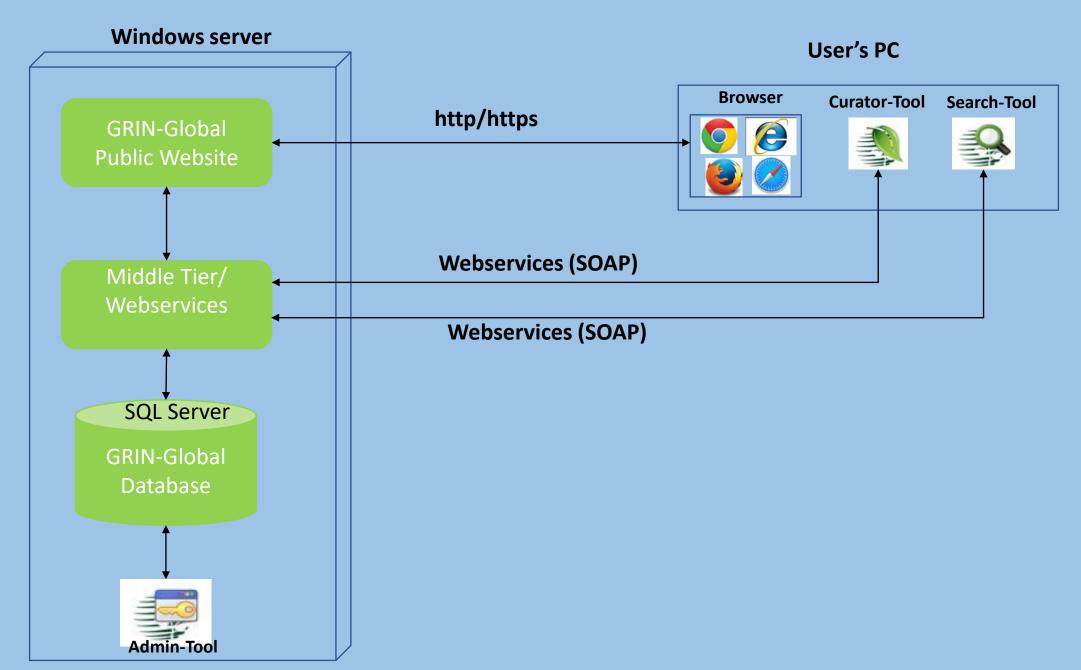
GG in a Network Configuration

User's PC

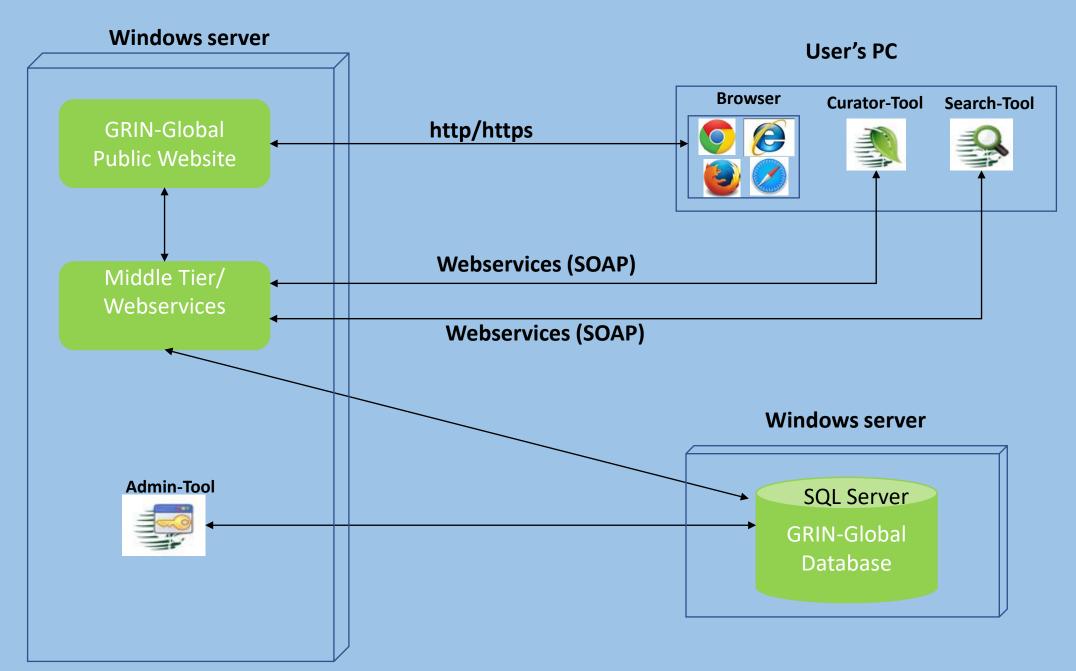


Curator Tool GRIN Global Database **Search Tool** GG Public Website Lookup Tables Middle Tier / Web services

Scenario I. GRIN-Global server components in one server

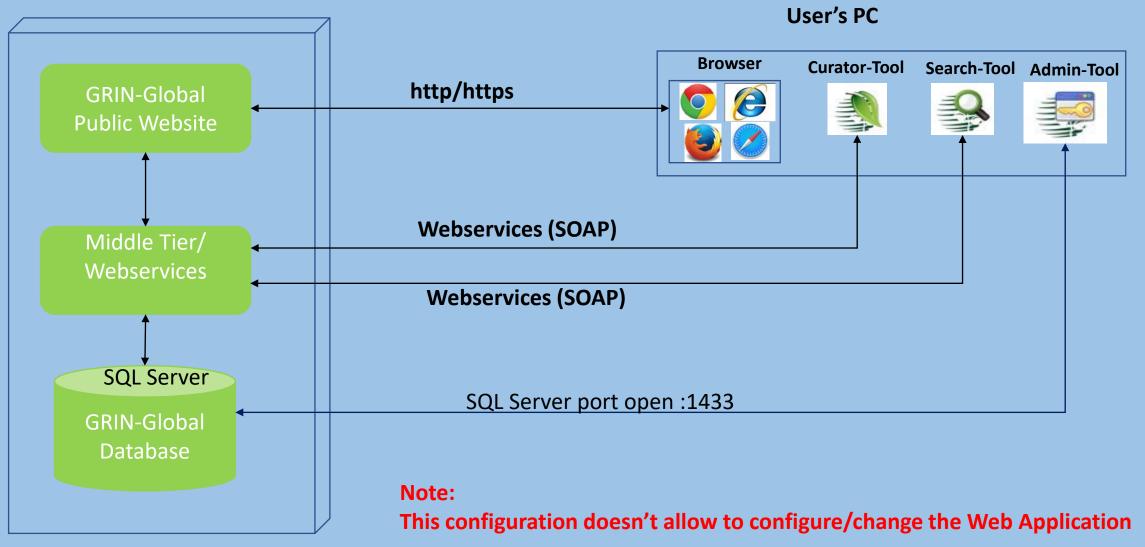


Scenario II. GRIN-Global server components in two servers

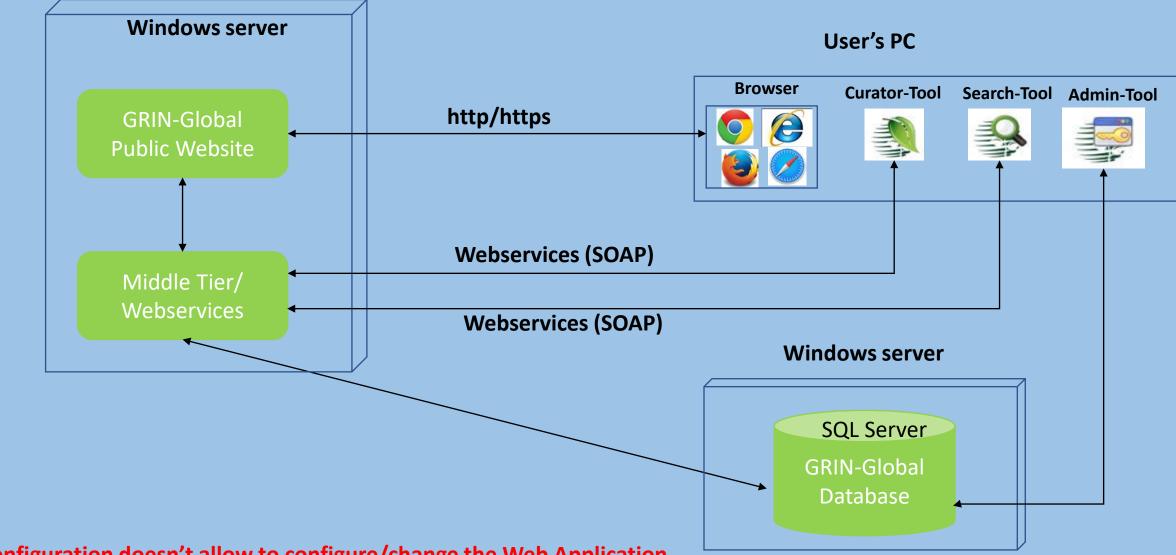


Scenario III. GRIN-Global PW, Services and Database in one server but Admin-Tool installed in user's computer

Windows server



Scenario IV. GRIN-Global PW, Services and Database in one server but Admin-Tool installed in user's computer



This configuration doesn't allow to configure/change the Web Application

Note:

Database: MS SQL Server (Optional: SQL Server Management Studio)

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Updater Program

F

for installing the server components

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Ch	neck For Server Updates	Installed Version	Latest Version	Size (MB)	Status	
~	Component GRIN-Global Admin	(not installed)	1.9.1	2.86	Outdated	1
- -	GRIN-Global Database	(not installed)	1.9.1	3.05	Outdated	
•	GRIN-Global Web Application	(not installed)	1.9.1	8.46	Outdated	
	to -					

Curator Tool

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designed for staff to create & manage data

ude Sub-Folders		Accession ID	Accession Prefix	Accession Number	Accession Suffix	Taxon	Name	Origin	Maintenance Site
ContactUsJuly	•	1008986	PI	617282		Humulus lupulus var. lupulus	Pacific Gem	United States	COR
TRNG Root Folder		1200107	PI	264597	1	Humulus lupulus var. lupulus	Shinshuwase	Japan	COR
ORDERS		1193790	PI	250809		Humulus lupulus var. lupulus	Yugoslavia Golding	Former Serbia an	COR
		1008956	PI	617281		Humulus lupulus var. lupulus	Osvald Saazer Clone 7	Czech Republic	COR
		1430744	PI	535808		Humulus lupulus var. lupulus	Mt. Hood	United States, Or	COR
		1453561	PI	558589		Humulus lupulus var. lupul	H. lupulus var. lupuloid	United States, Wi	COR
		2101094	MAR	1		Unident spp.	Yellow Mello		NC7
		1453570	PI	558598		Humulus lupulus var. lupulus	USDA 19173 Male	United States, Or	COR
		1413696	PI	518760		Humulus lupulus var. lupulus	USDA 19058 Male	United States, Or	COR
		1453579	PI	558607		Humulus lupulus var. lupulus	H. lupulus var. lupulus	Former Serbia an	COR
		2101028	NA	1	RRG	Humulus lupulus var. lupul	MAR 1	United States, M	NC7
		1227631	PI	302781		Humulus lupulus var. lupulus	Brewer's Gold	United Kingdom,	COR
		Editing	of 12 🕨 🕨	Cancel	×			I	Refresh Da



Required Components Curator Tool (CT) requires Windows; IIS

Several programs are installed with the CT:

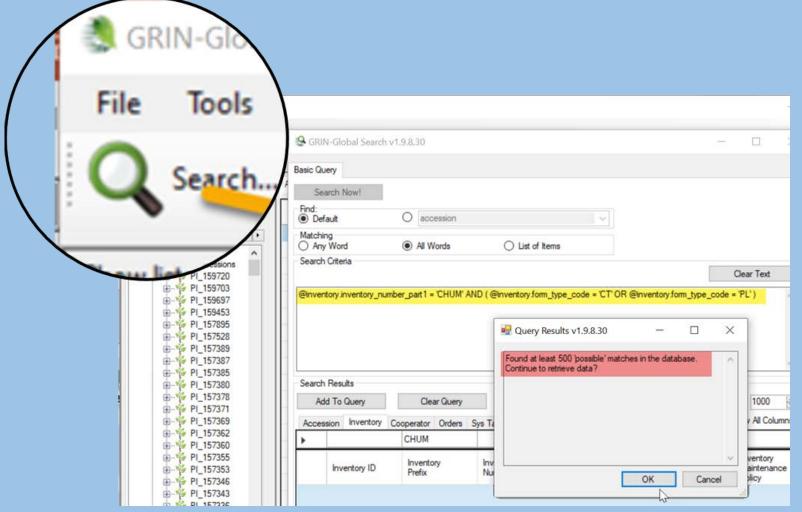




Search Tool

used by genebank staff to locate data; accesses GG's

Search Engine

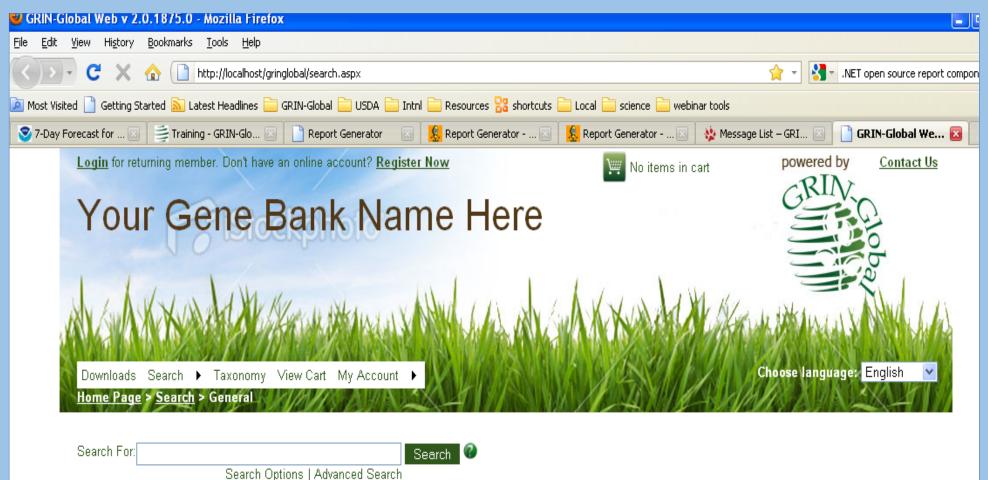


Search Tool

- installed with the Curator Tool
- communicates with Search Engine
- search fields can be configured by the GG administrator (session 3)

Public Website (PW)

designed for external clients searching the GG database; optional



Admin Tool used for managing CT user accounts, codes, dataviews, triggers, etc.

GRIN-Global Admin v 1.10.6.0 -	[Code Groups - localhost\sqlexpress]			_
File View Tools Help				
	localhost\sqlexpress - sqlserver > Maint	enance > Code Groups		
Iocalhost \sqlexpress - sqls	Name	Referenced By Tables/Dataviews	Values	Last Tou
🕀 🧸 Users	ACCESSION_ACTION	3	88	6/14/20
Permissions	ACCESSION_LIFE_FORM	15	12	10/5/20
	ACCESSION_NAME_TYPE	3	17	2/9/201
	ACCESSION_QUARANTINE_STA	2	10	2/3/201
	ACCESSION_QUARANTINE_TYPE	2	6	10/5/20
🖻 🔧 Maintenance	ACCESSION_RESTRICTION_TYPE	4	32	7/2/201
	ACCESSION_SOURCE_HABITAT	4	32	5/4/201
	ACCESSION_SOURCE_TYPE	9	3	10/5/20
E File Groups	ACCESSION_STATUS	13	5	4/2/202
Web Application	ACTIVE_SITE	0	1	10/5/20
localhost∖sqlexpress - sqls	ANNOTATION_TYPE	2	4	10/5/20

Curator Tool

- CT is a .NET application
- connects to the web services applications (middle tier)
- interface genebank staff person searches, reads, & updates data
- requires Windows elevated privileges for installing (session 6)
- installed via a self-extracting installer (.exe file)

Crystal Reports

- .rpt files come with GG builds
- .rpt files can be *displayed* by the CR Viewer
- CR Viewer is installed with the CT
- more details in Session 6

How Does the CT Connect to the Server?

List (Friendly) Name		Properties
JCA zure	~	List Display Name:
FRNG NPGS PROD NPGSweb	Move Up	JCA zure
NordGenTRNG DB AzureBlue ocalhost	move op	Use SSL Use LDAP
		Server Name (or IP Address):
DEV List (Friendly) Name		ggcommunity.southcentralus.cloudapp.a
IRRI TRNG	Move Down	Examples: grin-global-test1.agron.iastate.edu ncrpis-arwen.agron.iastate.edu 129.186.234.51
	~	129.186.234.4
Add New De	elete	Test Server Address

✓ ↑ ► > This PC > OS (C:) > Us	Jsers 🕨 mar 🄌 AppData 🄌 Roaming 🔌 GRIN-Gl	ilobal 👂 Curator Tool	
📕 FileZilla	Name	Date modified	Copy file onto each
GIMP	WebServiceURL.txt	11/6/2020 10:33 A T	user's PC
 GRIN-Global Admin 	genesys_mar@rrginc.com.txt	10/31/2018 4:09 P T	
Curator Tool	ReportsMapping.txt AppSettings.txt	4/13/2018 3:11 PM T 10/23/2017 8:32 A T	(after setting
Curator Tool_tbd	ReportsMapping.txttbd	11/2/2016 1:10 PM T	correct connections)
Updater			connections
		Tentent Content	loudapp.azure.com/GRINGlobal/GUI.asm

OTT LUT O	
RNG NPGS	https://training.ars-grin.gov/GRINGlobal/GUI.asmx
ROD NPGSweb	https://npgsweb.ars-grin.gov/GRINGlobal/GUI.asmx
NordGenTRNG DB	https://grintest.nordgen.org/GRINGlobal/GUI.asmx
AzureBlue	http://40.84.186.116/GRINGlobal/GUI.asmx
ocalhost	http://localhost/GRINGlobal/GUI.asmx
DEV	https://npgsdev.ars-grin.gov/GRINGlobal/GUI.asmx
• • /= • • • • •	

List (Friendly) Name http://localhost/GRINGlobal/GUI.asmx

Curator Tool Extensions

• Forms

\rightarrow	🗙 🛧 📙 🕻 This PC 🎽 OS (C:) 🏅	Prog	gram	Files 👂 GRIN-Global 👂	GRIN-Global Curator To	ool 👂 Forms		
~	GRIN-Global	^		Name	Date modified	Туре		Size
~	GRIN-Global Curator Tool			AccessionForm.dll	3/16/2020 11:27 P	Application exte	ension	40 KB
	📙 Forms			ImageForm.dll	3/16/2020 11:27 P	Application exte	ension	30 KB
>	📙 Images			lnventoryForm.dll	3/16/2020 11:27 P	Application exte	ension	40 KB
	Reports			OrderForm.dll	3/16/2020 11:27 P	Application exte	ension	31 KB
	📙 Wizards							

• Wizards

rogram Files 👂 GRIN-Global 👂 GRIN-Global Cu	urator Tool 👂 Wizards	
Name	Date modified	Туре
AccessionBatchWizard.dll	9/2/2020 3:40 PM	Application extension
AccessionWizard.dll	3/16/2020 11:27 P	Application extension
CooperatorWizard.dll	3/16/2020 11:27 P	Application extension
CropTraitWizard_196_41.dull	6/10/2020 9:52 AM	DULL File
CropTraitWizard_198_31.dull	6/10/2020 10:49 A	DULL File
CropTraitWizard_aug05.dll	8/5/2020 11:19 AM	Application extension
InventoryAttachmentWizard.dll	3/16/2020 11:27 P	Application extension
OrderWizard.dll	3/16/2020 11:27 P	Application extension
💁 ViabilityWizard.dll	3/16/2020 11:27 P	Application extension
	 Name AccessionBatchWizard.dll AccessionWizard.dll CooperatorWizard.dll CropTraitWizard_196_41.dull CropTraitWizard_198_31.dull CropTraitWizard_aug05.dll InventoryAttachmentWizard.dll OrderWizard.dll 	NameDate modifiedAccessionBatchWizard.dll9/2/2020 3:40 PMAccessionWizard.dll3/16/2020 11:27 PCooperatorWizard.dll3/16/2020 11:27 PCropTraitWizard_196_41.dull6/10/2020 9:52 AMCropTraitWizard_198_31.dull6/10/2020 10:49 ACropTraitWizard_aug05.dll8/5/2020 11:19 AMInventoryAttachmentWizard.dll3/16/2020 11:27 POrderWizard.dll3/16/2020 11:27 P

Size

GG Public Website

- optional
- requires IIS web server
- runs on any standard browser
- designed primarily for external users, but
- staff tool also -
 - with features restricted to staff how? - AT Web User – later in this session & in session 6

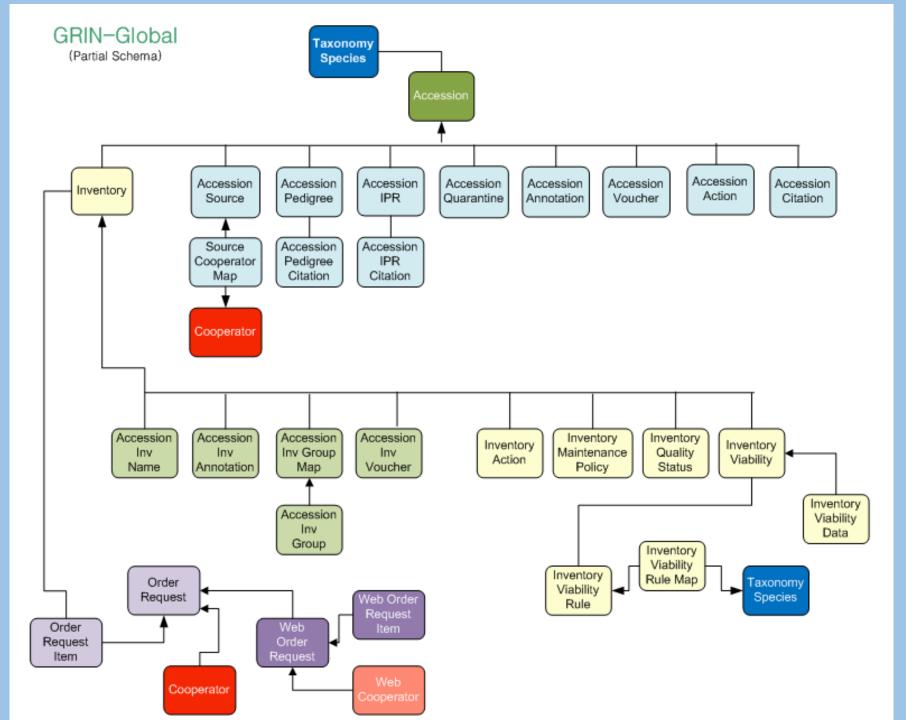
GG Schema

- overview: tables; categories; areas; dataviews
- Naming conventions: IDs, ownership fields
- Parent-child relationships



Tables

- a relational database hundreds of tables
- new tables & fields may be added, but...
- strongly recommended:
 - new administrators refrain from changing the schema
 - check with the international GRIN-Global helpdesk



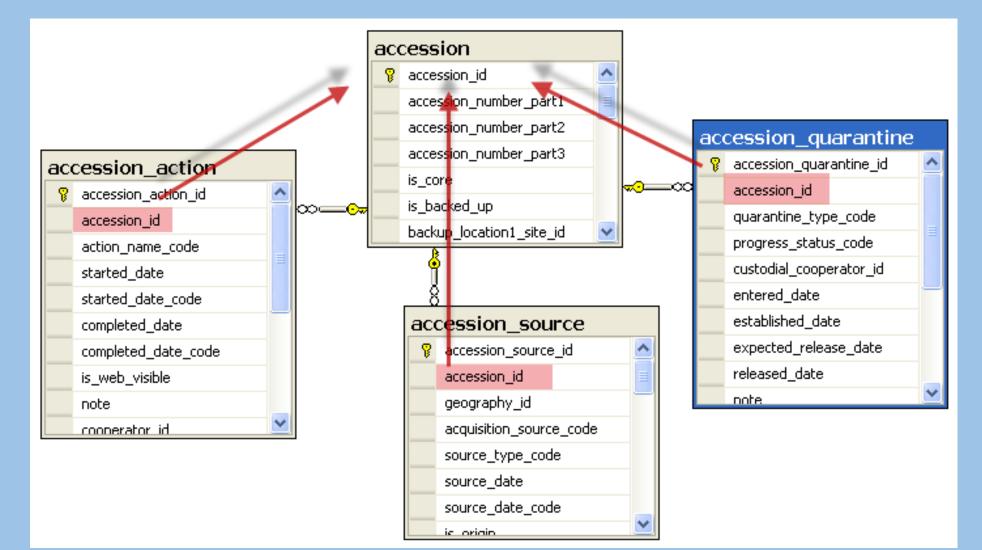
SQL for Generating a Data Dictionary



The document SQL the Public Website Queres (.pdf) (.docx) contains SQL examples which can be copied into the PW question specifics of an institute's GG installation.

Accession & a few of its children tables

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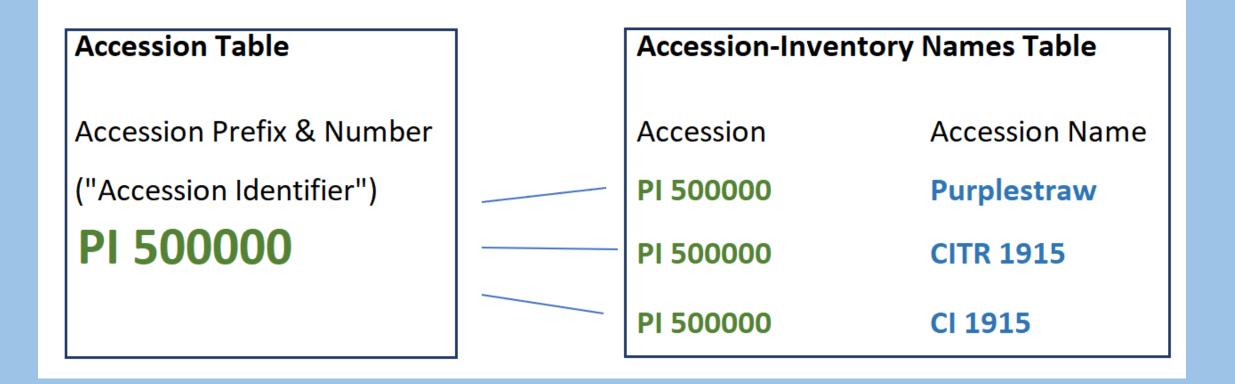


Tables related logically usually begin with the same word

accession, accession_action, accession_source, etc.

Subordinate records relate to the accession (parent) record by pointing to the accession's Primary Key

Ex: Names Records Related to Parent Accession



Naming Conventions...

Prefix accession inventory order request taxonomy crop_ web sys_ and app_

Tables Accession Inventory Order Taxonomy Crop **Public Website GRIN-Global System**

Naming Conventions... continued...

• first field is the primary key field ...table_id

accession_id

• every record has 6 audit fields



Ownership

- records exist in sys_table_relationship that define "ownership" relationships with the parent tables
- the basic ownership model is that anyone can create a record in any table and they become the owner (more in session 5, Security)

SQL for displaying the Owner Parent relationships

SELECT st1.table_name AS child, st2.table_name AS owner FROM sys_table_relationship str

- JOIN sys_table_field stf1 ON stf1.sys_table_field_id = str.sys_table_field_id
- JOIN sys_table st1 ON st1.sys_table_id = stf1.sys_table_id

JOIN sys_table_field stf2 ON stf2.sys_table_field_id = str.other_table_field_id

- JOIN sys_table st2 ON st2.sys_table_id = stf2.sys_table_id
- WHERE relationship_type_tag = 'OWNER_PARENT'

What is a Dataview?

What is a Dataview?

• a stored SQL procedure (a query) with some peripheral information

Dataview SQL example

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, inventory i2 where an2.inventory_id = i2.inventory_id and i2.accession_id = a.accession_id)) AS plant_name,

(select s.geography_id from accession_source s where a.accession_id =
s.accession_id and s.accession_source_id = (select MIN(s2.accession_source_id)
from accession_source s2 where a.accession_id = s2.accession_id and is_origin =
'Y')) AS geography_id,

(select siste id from site signature siste id in (select disite id from cooperator d

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 displayed in applications
Flags and Settings	Denotes if the dataview is read only, user visible, etc.

How do you make changes to a...

• table?

• dataview?

How do you make changes to a...

• table?

Use the database management tool (SSMS) (Session 3)

• dataview?

Use the AT Dataview editor edit dataviews (Sessions 2 & 3)

SQL Server Management Studio

	r 12.0.4522 - DESKTOP ▲ right-click; ect Top 1000 Rows		SELECT TOP : ,[doi] ,[acce ,[acce ,[acce ,[is_d ,[is_d ,[back ,[back ,[back ,[stat ,[life ,[impr	2000 [2000 [20	cation1_site_id] cation2_site_id] de] _code] nt_status_code] ive_uniformity_code]		i4)) SQLQuery3.sql -	DE35RL	.T23\ma
Columns accession_id (PK, int, not null)	Design Select Top 1000 Rows				eceived_form_code]				
^{III} doi (nvarchar(20), null)	Edit Top 200 Rows		ó ▼ <						
accession_number_part1 (nvarcha	Script Table as	, 💷 Res	ults 🗅 Messages						
accession_number_part2 (int, null)	View Dependencies	-	accession_id	doi	accession_number_part1	accession_number_part2	accession_number_pa		is_ba
accession_number_part3 (nvarcha)	· · · · · · · · · · · · · · · · · · ·	1 , 2	2	NULL NULL	BRA BRA	16 18	NULL NULL	N V	N N
is_core (nvarchar(1), not null)	Full-Text index	, <u>2</u> 3	2	NULL	BRA	19	NULL	T N	N
is_backed_up (nvarchar(1), not nul	Policies	, 4	4	NULL		20	NULL	N	N
ا backup_location1_site_id (FK, int, ا	Facets	5	5	NULL		21	NULL	N	N
Plackup location2 site id (FK. int. i	Start PowerShell	6	6	NULL		22	NULI	N	Ν
	Reports	•							

AT – Partial dataview list

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

File View Tools Help				
E U Connections	localhost\sqlexpress - sqlserver	<u>> Dataviews > Client</u>		
Iocalhost\sqlexpress - sqlserve	Name	Title	Category	Database Area I
	get_accession	Get Accession	Client	Accession
Permissions	get_accession_2017jul03	Get Accession	Client	Accession
Dataviews	get_accession_action	Get Accession Action	Client	Accession
😟 💼 Client	get_accession_backup	Get Accession	Client	Accession
⊕ CT Wizards	get_accession_backup2	Get Accession	Client	Accession
Exports	get_accession_backup2	Get Accession Demo	Client	Accession
Import Wizard	get_accession_bck	Get Accession	Client	Accession
E Lookups	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
Web Application		Cat Associate Investory Course	01	A // ·

A GG Build (Installation) provides Pre-Populated Tables

- Sites
- Codes
- Geography
- Cooperator
- Taxonomy

Site Table

• Build includes the SYS site – required!

١.					
	Site ID	Site Short Name	Site Long Name	Provider Identifier	Organiza Abbrevia
	1	SYS	SYSTEM		

 An organization creates sites for physical locations or virtual reasons

Codes

 Should be configured by DBA *before* the organization starts using GG

• use the AT to add/ edit Code Groups & Codes (Session4)

GRIN-Global Admin v 1.10.6.0 - [Code Groups - localhost\sqlexpress]

File View Tools Help					
	localhost\sqlexpress - sqlserver > Maintenance > Code Groups				
Iocalhost\sqlexpress - sqlserver	Name	Referenced By Tables/Dataviews	Values		
🕀 🕂 🚺 Users	ACCESSION_ACTION	3	88		
Permissions	ACCESSION_LIFE_FORM	15	12		
Dataviews	ACCESSION_NAME_TYPE	3	17		
	SACCESSION_QUARANTINE_STA	2	10		
	SACCESSION_QUARANTINE_TYPE	2	6		
🖃 🐴 Maintenance	ACCESSION_RESTRICTION_TYPE	4	32		
	SOURCE_HABITAT	4	32		
E S Code Groups	ACCESSION_SOURCE_TYPE	9	3		
	ACCESSION_STATUS	13	5		
Web Application	ACTIVE_SITE	0	1		

Geography

• Default geography data can (should!) be downloaded during installation

Cooperator

- default cooperators installed
 - administrator
 - guest
 - fbowner
 - fbsubmitter



• additional cooperators installed with Taxonomy

Cooperators ...continued...

- Can be a person or an organization
- CT users are cooperators added via the Admin Tool

Cooperators ...continued...

- Can be a person or an organization (last name is null)
- CT users are cooperators added via the AT

Finally...

• Introduction to the Admin Tool

The AT's initial screen requires two logins:

÷

Authenticate against the ...

- 1. database engine
- 2. security records within GG itself... user must be in Administrators Group

GRIN-Global Admin v 1.10.6.0 - [localhost\sqlexpress] Tools Help View localhost\sqlexpress - sqlserver > Connections localhost/sglexpress - sglserver To administer GRIN-Global, a valid database connection is required. Groups Users Database Web Application Permissions Database Connection Dataviews Table Mappings SQL Server 2014 or later Engine: V Data Triggers localhost\sglexpress Server: Maintenance File Groups gringlobal DB Name: Web Application <u>ن</u> localhost\sqlexpress - sqlserver Use Windows Authentication 40.84.186.116 - sqlserver User Name 3.1.213.237 - sqlserver Password Remember Password To test connection, a valid GRIN-Global login is required below. Test Connection **GRIN-Global Login** User Name: administrator Password: Remember Password Save

AT Initial Screen Settings

Server

server name that hosts the database engine. SQL Server expects an "instance name"

	Engine: SQL Server 2014 or later ~
localhost\sqlexpress - sqlserver >	Server: ggcommunity.southcentralus.cloudapp.azure.com,1433
	DB Name: gringlobal
To administer GRIN-Global, a valid database connection is required.	Use Windows Authentication
Database Web Application	User Name: GC D.azure.com,1433
The Application	Password:
Database Connection	Remember Password
Engine: SQL Server 2014 or later 🗸	To test connection, a valid GRIN-Global login is required below.
Server: localhost\sqlexpress	Test Connection
	GRIN-Global Login
DB Name:	User Name:
le e alla est \ e al evanação	Password:
localhost\sqlexpress	Remember Password
User Name:	Save
Deservert	

shh! GRIN-Global Login

- administrator /
- administrator



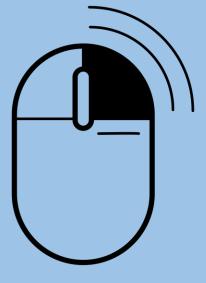
don't worry about it

	🥃 GR	IN-Global Admin v 1.10.6.0 - [localhos	t\sqlexpress]
U.S.	File	View Tools Help	
		New Connection Ctrl+N	localhost\sqlexpress - sqlserver >
		Exit	To administer GRIN-Global, a valid d
1		Permissions	Database Web Application

...except when more than one GG database

GG Admin Tool Rule #1

• When unsure, right-click!



Created by Icon Island from Noun Project

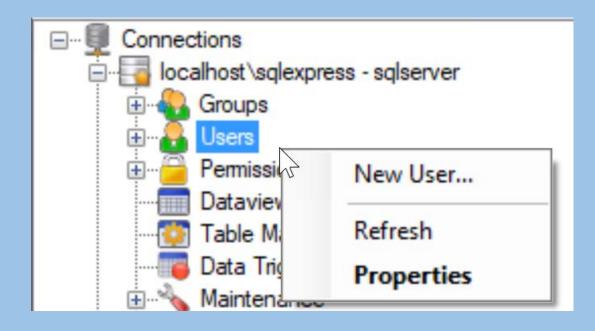
Establish/select the following:

- User Name and Password
- Geography and Site codes
- Enabled (checkbox denotes the user will be a CT user)
- Active (checkbox indicates the user will be an active cooperator)
- Groups: Add all CT Users to the CT Users Group

• Groups

File View Tools Help	Iocalhost\sqlexpress - s	glserver > <u>Groups</u>		
Iocalhost\sqlexpress - sqlserver	Name	Description	Permissions	Users
	🐁 Administrators	GRIN-Global Administrators	(1) - All Access	(3) - ac
	🖺 All Users	All users of any GRIN-Glob	(148) - CREATE_ALL, Read Only, De	(39) -
	CT Users	All GRIN-Global users who	(11) - CT Lookup Tables, CT Save Lis	(34) -
	- Feedback Own	Users who can manage th	(14) - Save Feedback Programs, Sav	(1) - fb
- Peedback Submitters	Feedback Sub	Users who can submit feed	(7) - Save Feedback Results, Save F	(1) - fb
Web Query Users	Web Query Users	Enable users in this group t	(None)	(32) -

(More on Groups & Permissions in Session 5)



Must complete...

- User Name & Password
- Geography and Site codes
- Enabled (checkbox)
- Active (checkbox) (if this user will be an active cooperator)
- Groups: CT Users

Users - lo	ocalhost\sql	express					
neral Pe	ermissions G	roups					
Fe Fe	missions a	roups					
Jser Name							
			Set Passv	vord	Password must be set before saving		1
Enable	d				-		
Cooperato	r Information						
		Contact Info	Geographic	Notes			
					1		N
Current (Cooperator is	(none)	S	earch			\square
Title:	First Name:		Last N	ame:			
							2
Full Name	e (for display)						-
Job:				Disciplin			
				Agrono		~	
Organiza	ation:			Organiza	ation Abbreviation:		
Languag	je: English		~		Active		
						Save	Cancel

• Alternative: start by searching for existing cooperator records

Jser Users - lo	ocalhost\sqlexpress		
General Pe	ermissions Groups		
User Name	e:	_	
		Set Password	Password must be set before saving
Enable			
Cooperato	r Information		
General	Web Login Contact Info	Geographic Notes	
Current (Cooperator is (none)	Search	
Title:	First Name:	Last Name:	
Full Nam	e (for display):		

PW Users

- public PW users self-register
- internal staff can / should have their CT User account tied to their Web (PW) Login account
 - adds Tools to their PW menu
 - internal PW reports will be displayed
 - add to the Web Query Group

(A web.config workaround will be explained in session 6)

Updater Program

Critical step to take before running the Updater...

Updater Program

Critical step to take before running the Updater



Updater Program

F

for installing the server components

lown	load From Server: http://npgsw	eb.ars-grin.gov/grin	global/gui.asmx		✓ Us	e Offline
Ch	neck For Server Updates	Installed Version	Latest Version	Size (MB)	Status	
~	Component GRIN-Global Admin	(not installed)	1.9.1	5ize (MD)	Outdated	
- -	GRIN-Global Database	(not installed)	1.9.1	3.05	Outdated	-
•	GRIN-Global Web Application	(not installed)	1.9.1	8.46	Outdated	
	to -					

Updater

• #1 Rule:

Updater

• #1 Rule: Follow the Installation Guide

Updater

Documentation & links available from the GG Project Site <u>https://www.grin-global.org/docs/gg_server_install.pdf</u>

😰 GR	IN-Global Updater v 1.10.0.0				-		×	
File	Tools Help							
Dowr	hload From Server: https://npgs	web.ars-grin.gov/gri	nglobal/gui.asmx		~	Use Offline		🛛 🎽 Download th
a	neck For Server Updates							
	Component	Installed Version	Latest Version	Size (MB)	Status			🚽 🔍 Taxonomy &
	GRIN-Global Admin	1.10.1.5	1.10.1.5	2.08	Current	Uninstall		
	GRIN-Global Database	(not installed)	1.10.1.2	2.49	Outdated			Geography
	GRIN-Global Web Application	1.10.1.5	1.10.1.5	4.79	Current	Uninstall		••••
			Hold Ctrl + Si clicking to dou Taxonomy & C table	vnload the Geography	Down	iload / Instal		tables
	Check	king for new versio	on of GRIN-Globa	al ServerDone			ai	

Questions?

Homework!

- Download Homework Exercise 1: <u>https://rrginc.com/documents/gg_AT_exer01.pdf</u>
- Download PowerPoint Presentation: <u>https://rrginc.com/documents/gg_AT_pres01.pdf</u>

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