

WILIUG Pre-conference

Sierra Direct SQL Access 101: An Introduction to using the Graphical Query Builder in pgAdmin to Access Your Data.

**This program is for the beginner Sierra Direct SQL Access user and will demonstrate some strategies to develop queries to get data out of your database.
Thursday, June 12th, 9:00 a.m. – Noon**

**Mark Strang, MLIS
Data Systems Manager, Jerome Library,
Bowling Green State University,
Bowling Green, Ohio
mstrang@bgsu.edu**

Sierra Direct SQL Access 101

Outline:

Sierra SQL resources

SQL Setup

- Sierra User Permissions

- pgAdmin III: Download and Install

- pgAdmin III: Connect

Tables

- bib_view

- subfield

- subfield_view

- table query

Query Screens

First Query

- bib_view table

- Columns tab: Alias

- Run Query

- Limit Query

- Criteria tab

- Limit 10;

- Save Query

Sierra Direct SQL Access 101

Second Query

Item_view table

pdadmin screen

query screen

Tech docs detailed view

Tech docs ERD view

Connecting tables

checkdigit

varchar

varfield_view

Concatenate (merging columns)

User Permission Query

Sierra Manual

Run Query

Export Data

Excel

Build Permission Query using Graphical Query Editor

Ordering Tab

Sierra Direct SQL Access 101

Routing List Maintenance Query

Checkin Records and Fund Code Query

::integer

Query Records deleted on a specific date

Query information from a specific review file

SQL editor (text only mode)

Count attached item records

Count attached items from bib review file

Add a hotlink url

Regular Expressions

License Record / Order Record Query

Extremely Useful Tables

Walk Aways

Bonus Query

Sierra SQL Resources

- Resources available to assist you using Sierra DNA/SQL

Sierra SQL Resources: Sierra Manual

sierra documentation

Search



You are here: Sierra Direct SQL Access

Sierra Direct SQL Access



Sierra Direct SQL Access users assume responsibility for the effects of custom SQL. Poorly-constructed queries can compromise system performance.

The Sierra Services Platform incorporates a PostgreSQL relational database that captures the library's material, circulation, patron, financial, and operational data. A collection of database views provides direct access to the library's bibliographic and transactional data. Each view is constructed from one or more tables and can be queried as a single table. Views are read-only.

With Sierra Direct SQL Access, you can create custom reports on any configuration of data, integrate with other systems, and create custom applications.

The [SierraDNA](#) provides documentation of all views and their constituent columns.

The following resources can help you take advantage of Sierra Direct SQL Access:

[Getting Started](#)

[SierraDNA](#)

[Query Examples](#)

[Troubleshooting](#)

http://csdirect.iii.com/sierrahelp/Default.htm#ssql_direct_access.html%3FTocPath%3DSierra%20Direct%20SQL%20Access | 0

Sierra SQL Resources: SierraDNA techdocs

The screenshot shows a web browser window with two tabs both titled "SierraDNA". The left tab is active and displays the URL "techdocs.iii.com/sierradna/". Below the URL, there are two links: "Most Visited" and "Getting Started". The main content area features the "sierraDNA" logo. On the left, a sidebar lists several entities: "Entities", "Generic Record", "Authority", "Bib", "Contact", and "Course". To the right of the sidebar, a message reads "Please pick a view group".

<http://techdocs.iii.com/sierradna/>

Sierra SQL Resources: IUG2014

- **IUG2014 Sessions:**
 - Somebody: Quick, Learn SQL! J04
 - Sierra SQL Part 1, The Prequel K04
 - Extracting Data From Sierra N06
 - Swimming Upstream to Streamlining:
 Process Improvement with the Sierra Database H05
 - Extending Sierra with REST APIs and SierraDNA D07/L09
 - SQL Users Forum F06

Sierra SQL Resources: IUG Clearinghouse

Examples of PostgreSQL statements for use within Sierra

By Heather McHenry

Roger Williams University School of Law

[http://innovativeusers.org/index.php?option=com_content&view=article&id=174&appParams\[method\]=Full+Record&appParams\[id\]=330](http://innovativeusers.org/index.php?option=com_content&view=article&id=174&appParams[method]=Full+Record&appParams[id]=330)

Connecting to your OPAC : Details of SierraDNA, Sample SQL Queries.

Presentation at IUG meeting at ALA Midwinter, Philadelphia 2014

By Len Davidson

Catholic University Law Library

[http://innovativeusers.org/index.php?option=com_content&view=article&id=174&appParams\[method\]=Full+Record&appParams\[id\]=324](http://innovativeusers.org/index.php?option=com_content&view=article&id=174&appParams[method]=Full+Record&appParams[id]=324)

Sierra SQL Resources: IUG Listproc

Speaking just about reading history, you can get a count of the current patrons who have turned on reading history by directly interrogating the Sierra SQL database.

The following SQL query will count the number of current (not expired) patrons with their reading history status.

```
SELECT is_reading_history_opt_in, COUNT(*)  
FROM sierra_view.patron_record  
WHERE expiration_date_gmt >= CURRENT_TIMESTAMP  
GROUP BY is_reading_history_opt_in
```

If the *is_reading_history_opt_in* is *(null)*, a patron has never turned on reading history at all. *True* means they do have reading history turned on. *False* means they did have reading history turned on at some point, but now have it turned off.

Regards,
Jim

JIM NICHOLLS | Development Programmer
Library IT Services | University Library
THE UNIVERSITY OF SYDNEY
T +61 2 9351 5351

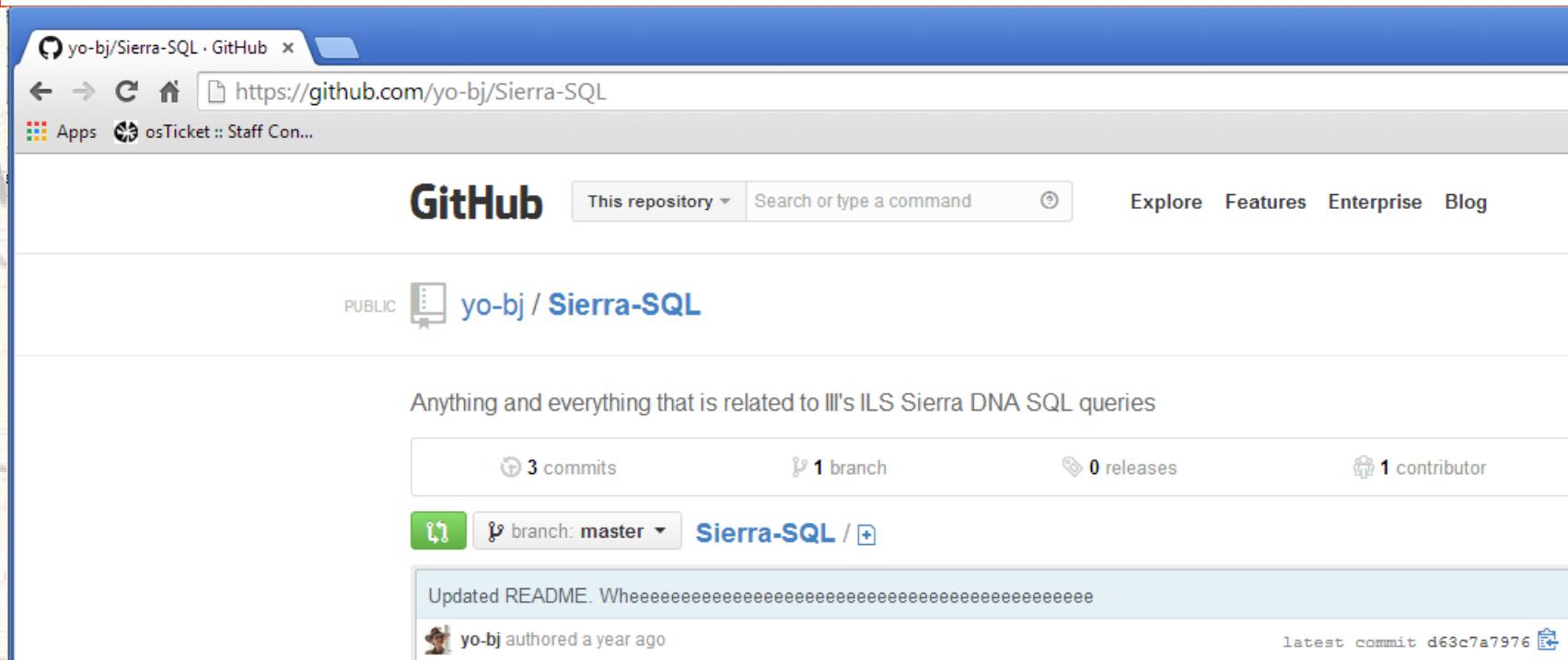
Sierra SQL Resources: IUG SQL wiki

Coming Soon per IUG user requests!

Sierra SQL Resources: GitHub

Becky Yoose

<https://github.com/yo-bj/Sierra-SQL>



Sierra SQL Resources: GitHub

Dave Walker - Shrew

<https://github.com/dswalker/shrew>

Screenshot of the GitHub repository page for [dswalker/shrew](https://github.com/dswalker/shrew).

The repository description is "Scripts for harvesting data out of Innovative Millennium & Sierra systems".

Key statistics shown:

- 24 commits
- 1 branch
- 0 releases
- 2 contributors

The current branch is master.

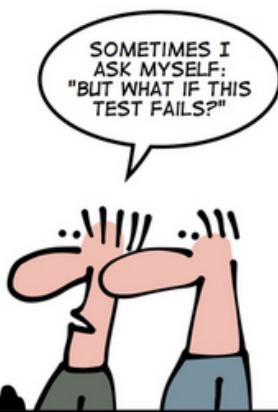
Recent commits:

Author	Message	Date
dswalker	Merge pull request #1 from atz/master	5 months ago
dswalker	authored 5 months ago	latest commit 85fffa8b85
	millennium	5 months ago
	sierra	8 months ago
	README.md	a year ago

The README.md file contains the following content:

 **SHREW**

Shrew allows you to fully automate the export of bibliographic records and other data from an Innovative Millennium or Sierra ILS system.



```
assert(true);
```

Whitefish Bay

Shorewood

Questions?

Milwaukee

Lake

Michigan

www.geek-and-poke.com

<http://static.squarespace.com/static/518f5d62e4b075248d6a3f90/t/52d5c39be4b0cca896961f9e/1389740962278/?format=750w>

St. Francis

T-6-N

Sierra SQL Setup

- Discuss permissions, firewalls, pgAdmin III installation and connecting to your Sierra database.

SQL Setup: Sierra User Permissions

https://sierra-application.iii.com:63100/sierra/admin/SignOnPage.html;jsessionid=F1A1CFB0DB3DDF83F652AAA98B203E78

Most Visited Getting Started

Welcome to the Administration Application
Please sign in.

Username:

Password:

SIGN IN

- **Sierra Documentation:**
- **Sierra Administration > Sierra Administration Application**
- **Use your favorite browser:**
- **https://[your Sierra server]/sierra/admin/**
- **https://sierra-application.iii.com/sierra/admin/**

SQL Setup: Sierra User Permissions

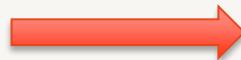
https://sierra-application.iii.com:63100/sierra/admin/app

Visited Getting Started



USER ACCOUNTS

[Authorizations and Authentication](#)



- Under User Accounts
- Choose Authorizations and Authentication

SQL Setup: Sierra User Applications

[Users](#)

[Applications](#)

[Permissions](#)

[Workflows](#)

[User Groups](#)

**Select:
Applications
Assign:
Sierra SQL Access
to give user access**

[< back to Users](#)

mulderf

[Basic Info](#)

Applications

[Permissions](#)

[Work](#)

Assigned applications (4) [remove all](#)

Admin App

Dashboard

Sierra Desktop Application

Sierra SQL Access

SQL Setup: Firewall

Sierra documentation

- Verify that the appropriate port (1032 in most cases) is open between staff and the database server.
- Ensure that there are no firewall restrictions impeding communication between client and the database server.

http://csdirect.iii.com/sierrahelp/Default.htm#ssql_getting_started.html

pgAdmin III: Download and Install

The screenshot shows the homepage of the pgAdmin III website. At the top left is a navigation bar with a back arrow, a globe icon, and the URL www.pgadmin.org/index.php. Below this is a menu bar with "Most Visited" and "Getting Started" buttons. The main header features a large elephant graphic on the left and the text "pgAdmin PostgreSQL Tools" in the center. A horizontal menu bar below the header includes "Home" (which is highlighted in blue), "Advocacy", "Development", "Documentation", and "Download".

<http://www.pgadmin.org/download/>

pgAdmin III: Download and Install

[Home](#)[Advocacy](#)[Development](#)[Documentation](#)[Download](#)[› Introduction](#)[› Mac OSX](#)[› Source code](#)[› Windows ™](#)[› Admin packs](#)[› Languages](#)[› pgAgent](#)

Windows ™

Maintainer: Dave Page

pgAdmin is available for Windows ™ 2000 and above, including:

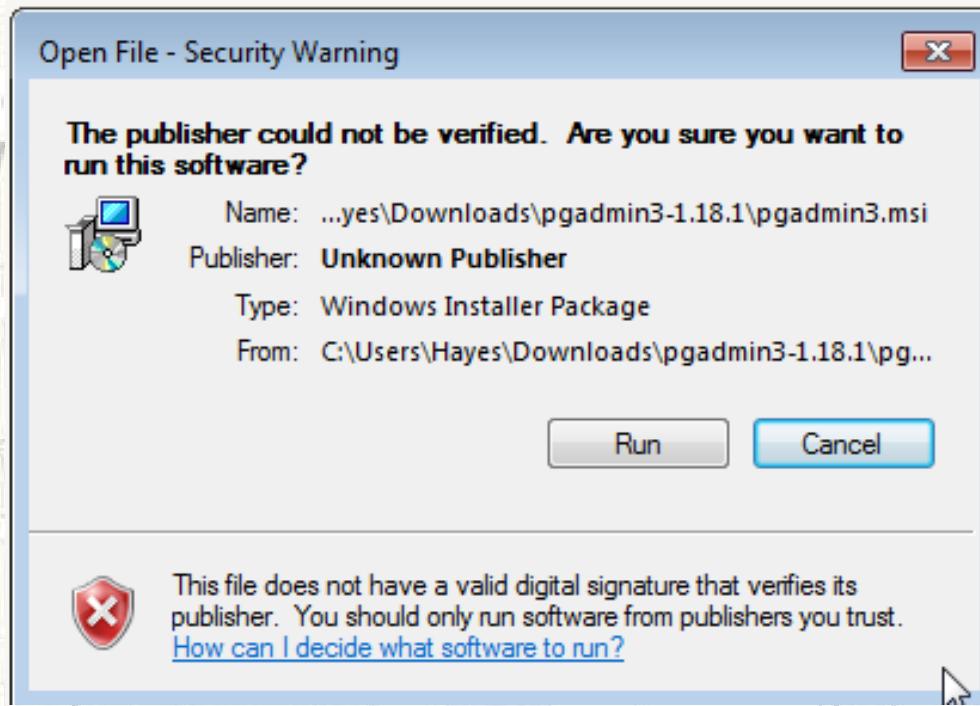
Note that the [EnterpriseDB](#) distribution of PostgreSQL includes pgAdmin:

- [pgAdmin v1.18.1](#)
- [pgAdmin v1.16.1](#)

<http://www.pgadmin.org/download/>

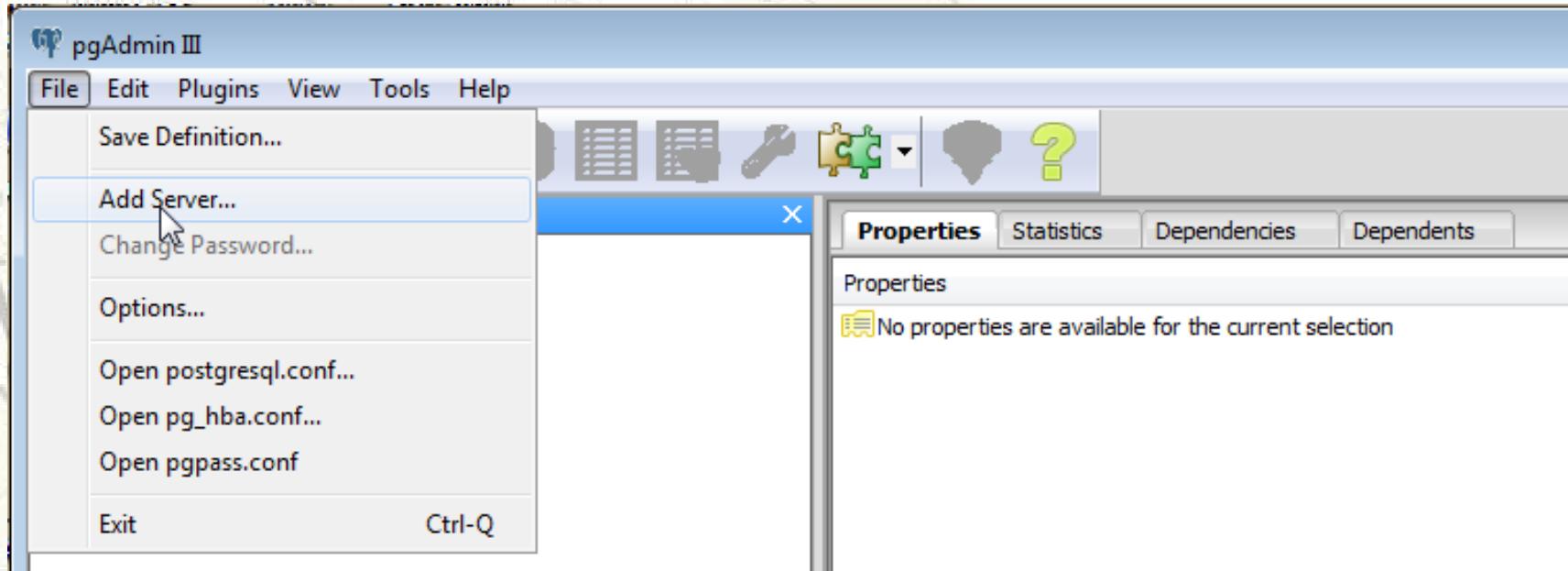
pgAdmin III: Download and Install

- Install on Windows 7



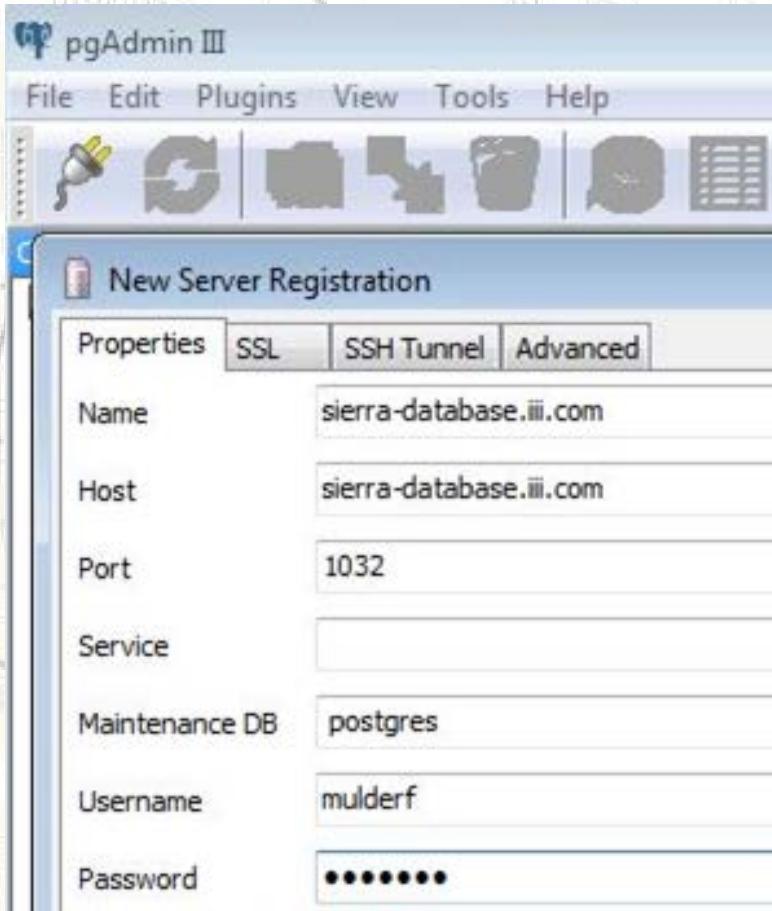
I'll skip the rest of install process!

pgAdmin III: Connect



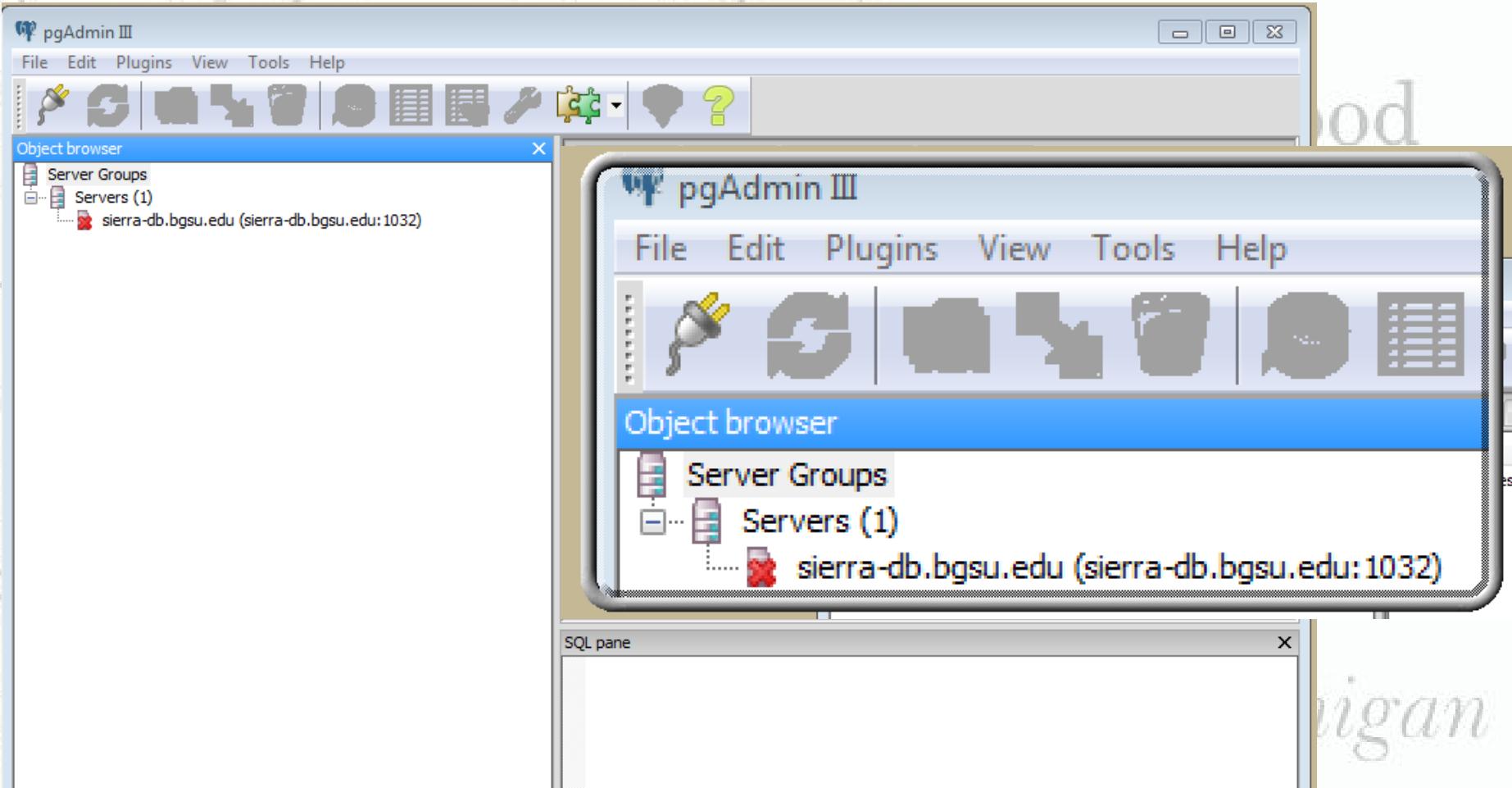
- Start pgAdmin III
- Under File
- Add Server

pgAdmin III: Connect



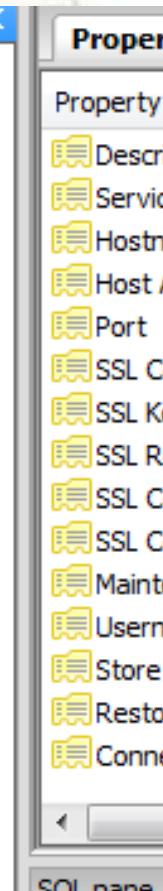
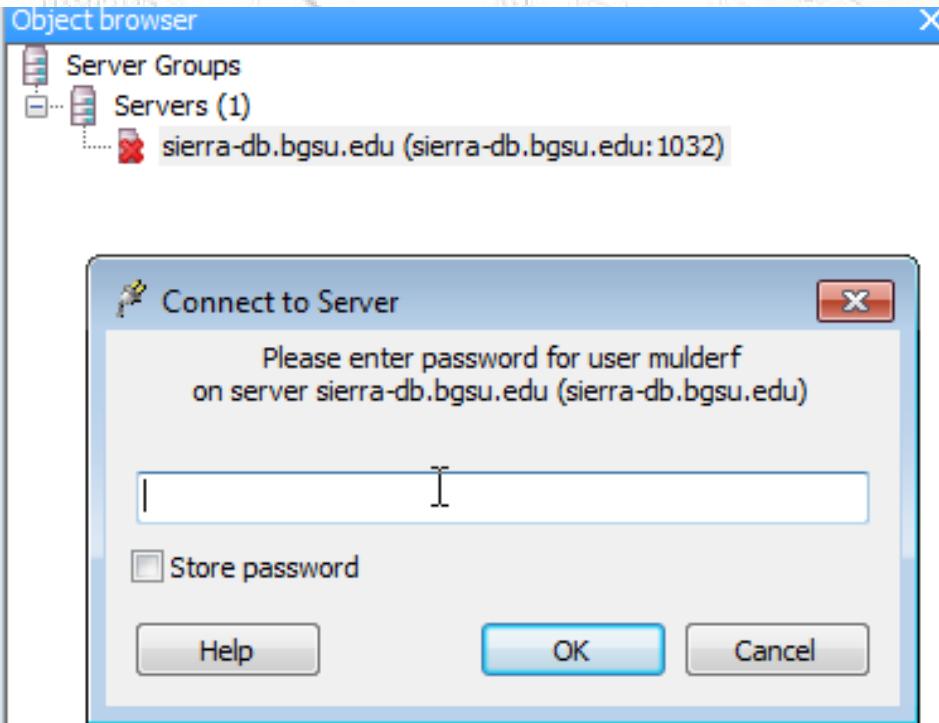
- Properties:
- Name: **sierra-database.iii.com**
- Host: **sierra-database.iii.com**
- Port: **1032**
- Service: **(blank)**
- Maintenance DB: **postres**
- Username: **mulderf**
- Password: **XXXXXX**

pgAdmin III: Connect



- double click on sierra-database.iii.com:1032

pgAdmin III: Connect



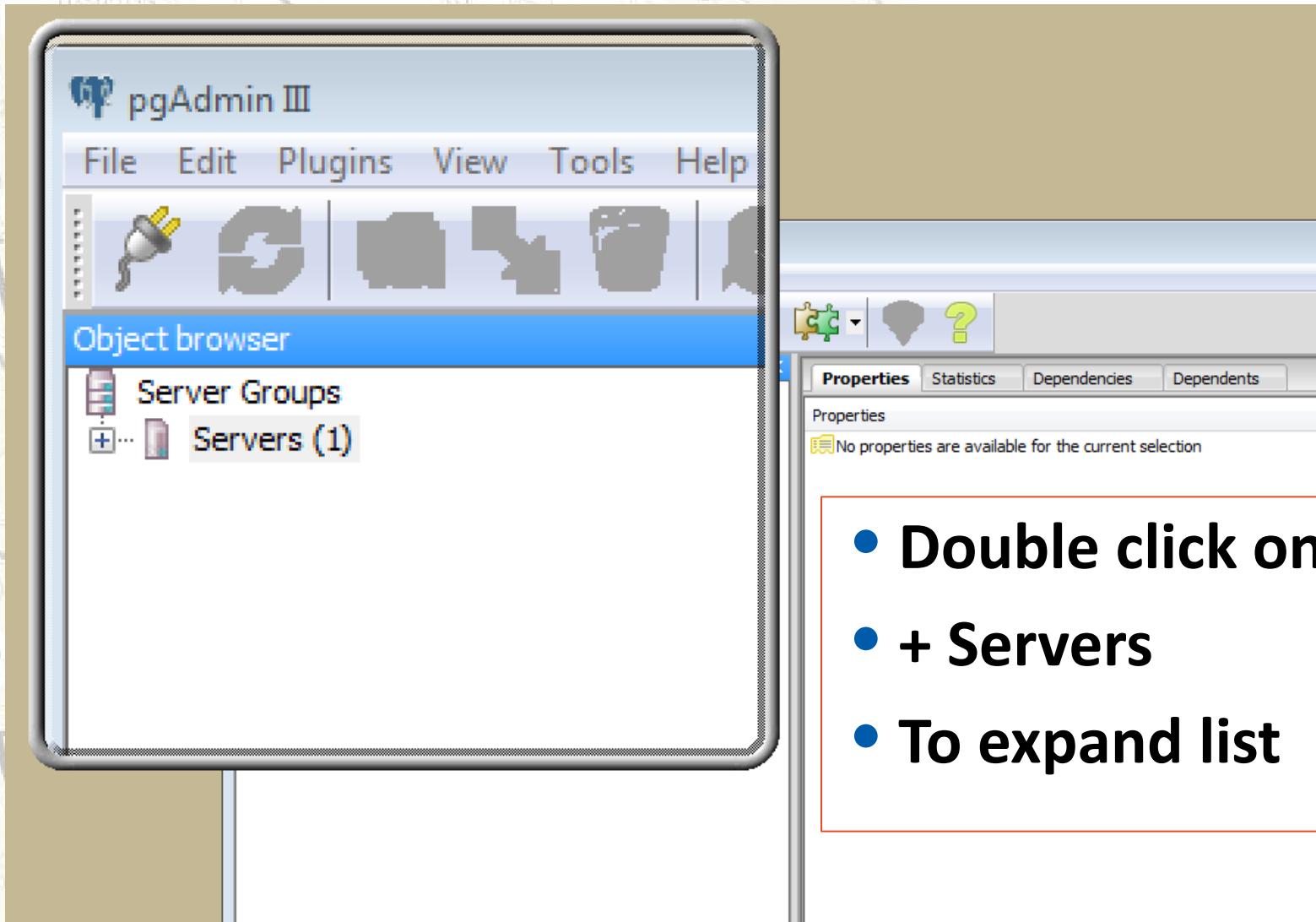
- Enter password when prompted

pgAdmin III: Tables

- Definition: Table
- In relational databases and flat file databases, a **table** is an organized set of data elements (values) using a model of vertical columns (which are identified by their name) and horizontal rows, the cell being the unit where a row and column intersect.^[1] A table has a specified number of columns, but can have any number of rows.^[2] Each row is identified by the values appearing in a particular column subset which has been identified as a unique key index.

[http://en.wikipedia.org/wiki/Table_\(database\)](http://en.wikipedia.org/wiki/Table_(database))

pgAdmin III: Tables



pgAdmin III: Tables

The screenshot shows the pgAdmin III interface. On the left, the Object Explorer tree view displays the following structure:

- Servers (1)
 - sierra-db.bgsu.edu (sierra-db.bgsu.edu:1032)
 - Databases (2)
 - iii (selected)
 - public
 - Catalogs (2)
 - Extensions (1)
 - Schemas (9)
 - articles
 - erm
 - iienv
 - iiqueue
 - iirecord
 - notices
 - public

On the right, the SQL pane shows the creation of a database named 'iii' with specific parameters:

```
-- Database: iii
-- 
-- DROP DATABASE iii;

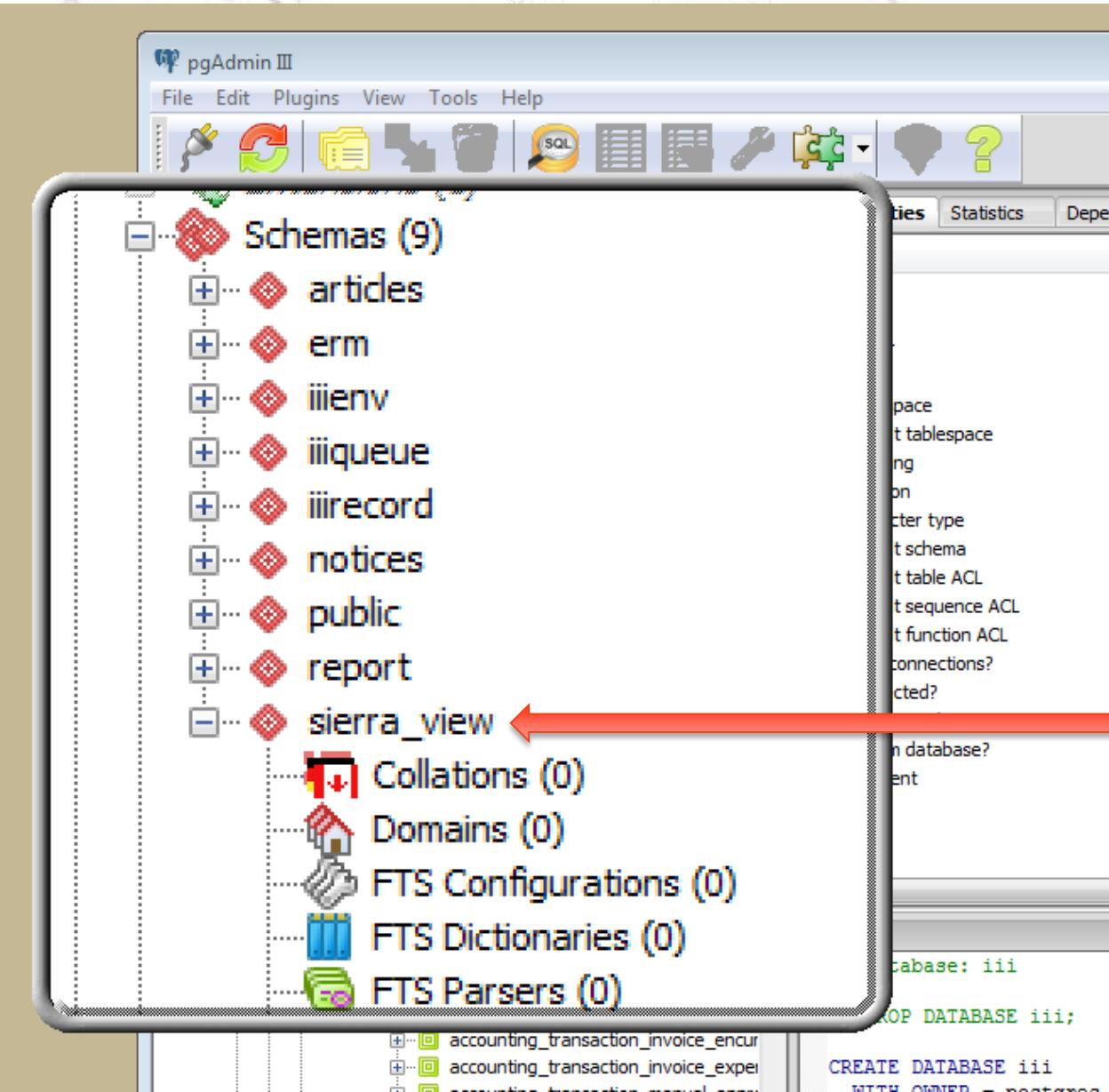
CREATE DATABASE iii
    WITH OWNER = postgres
        ENCODING = 'UTF8'
        TABLESPACE = pg_default
        LC_COLLATE = 'C'
        LC_CTYPE = 'C'
        CONNECTION LIMIT = -1;
GRANT CONNECT, TEMPORARY ON DATABASE iii TO public;
GRANT ALL ON SCHEMA iii TO postgres;
```

A context menu is open over the 'iii' schema entry in the Object Explorer. The menu items shown are:

 - + Databases (2)
 - + iii
 - + Schemas (9)

A red box highlights the 'iii' entry in the tree view, and three red arrows point from the menu items to the corresponding entries in the tree view.

pgAdmin III: Tables



The screenshot shows the pgAdmin III interface with the following details:

- Schemas (9):** A list of schemas including: articles, erm, iiienv, iiiqueue, iiirecord, notices, public, report, and sierra_view.
- sierra_view Schema Details:** A context menu is open over the 'sierra_view' schema, listing options like 'pace', 't tablespace', 'ng', 'on', 'cter type', 't schema', 't table ACL', 't sequence ACL', 't function ACL', 'connections?', and 'cted?'. A red arrow points from a callout box to the 'sierra_view' node in the tree view.
- Callout Box:** A red-bordered callout box contains the text "Double click on + sierra_view".
- Bottom Panel:** Shows recent connections: accounting_transaction_invoice_encur, accounting_transaction_invoice_expen, and a connection to St. Francis.
- Log:** Displays SQL commands: CREATE DATABASE iii; and DROP DATABASE iii;

pgAdmin III: Tables

Double click on
+ Views (344)

View Name	Owner
bib_level_property_myuser	pdroot
bib_level_property_name	pdroot
bib_record	pdroot
bib_record_call_number_prefix	pdroot
bib_record_holding_record_link	pdroot
bib_record_item_record_link	pdroot
bib_record_location	pdroot
bib_record_order_record_link	pdroot
bib_record_property	pdroot
bib_record_volume_record_link	pdroot
bill...	
billing_location_property	pdroot
billing_location_property_myuser	pdroot
billing_location_property_name	pdroot
booking	
bool_info	pdroot
bool_set	pdroot

pgAdmin III: Table: bib_view

The screenshot shows the pgAdmin III interface. The top menu bar includes View, Tools, and Help. Below the menu is a toolbar with various icons: a folder, a database, a magnifying glass, a SQL icon, a grid, a key, a puzzle piece, a user profile, and a question mark. The main window displays a tree view of database objects on the left, with 'bib_view' selected and highlighted by a red arrow. On the right, a properties panel is open with tabs for Properties, Statistics, and Dependencies. The Properties tab shows the following information:

Property	Value
Name	bib_view
OID	64200
Owner	pdroot
ACL	{pdroot:}
Definition	SELECT
System view?	No
Comment	

- You see a lot of information that I don't find useful.
- You see info to match table name: bib_record
- SierraDNA <http://techdocs.iii.com/sierradna/>

pgAdmin III: Table: bib_view

techdocs.iii.com/sierradna/Home,\$DirectLink.sdirect?sp=SBib

Most Visited Getting Started

sierraDNA

Entities

[Generic Record](#)

[Authority](#)

Bib

[Contact](#)

[Course](#)

[Holding](#)

[Invoice](#)

[Item](#)

[License](#)

[Order](#)

[Patron](#)

[Program](#)

Expand these views you will see info that matches the SierraDNA info:

<http://techdocs.iii.com/sierradna/>

Scroll down to find bib_record

bib_level_property

Each row of bib_level_property identifies a bib level code.

Column	Data Type	Not NULL?	Comment
id	int	false	System-generated sequential ID.
code	varchar	false	Bib level code.
display_order	int	false	Integer to manage the display order of a list.

pgAdmin III: Table: bib_view

bib_view

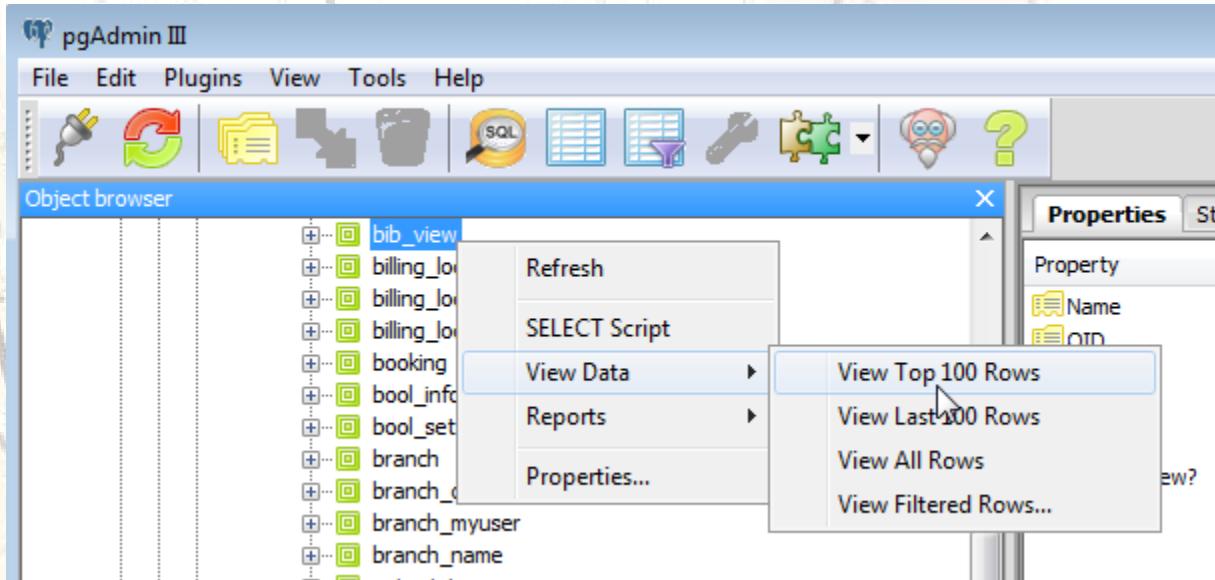
Each row of bib_view includes metadata for one bibliographic record. The metadata includes identification and status information, as well as data that determines how the system handles the record.

Column	Data Type	Not NULL?	Comment
id	bigint	false	System-generated sequential ID.
record_type_code	char	false	Record type code, i.e., 'b'.
record_num	int	false	Record number.
language_code	varchar	false	Language of the material. LANG is based on the MARC 21 Code List for Languages (also used by UNIMARC format).
bcode1	char	false	The library determines the name and purpose of this code and the code's definition.
bcode2	char	false	The library determines the name and purpose of this code and the code's definition.
bcode3	char	false	The library determines the name and purpose of this code and the code's definition. EXCEPTION The system uses bcode3 'c' to suppress the display of the associated order record in the public catalog.

<http://techdocs.iii.com/sierradna/>

You find very useful information about the table.

pgAdmin III: Tables: bib_view



Right click on
bib_view
Highlight: View Data
Click View Top 100
Rows

Glendale Whitefish Bay

Edit Data - sierra-db.bgsu.edu (sierra-db.bgsu.edu:1032) - iii - sierra_view.bib_view

File Edit View Tools Help

	id bigint	record_nur char	language character varying	bcode1 character	bcode2 character	bcode3 character	country_code character varying	is_available boolean	index integer	alloc char	is_on_cc boolean	is_right_cc boolean	skip_num integer	cataloging_date timestamp with time zone	man char	title character varying(1000)	record_create_date timestamp with time zone
1	420908517739	b	1722731	eng	m	a	-	nyu	TRUE	1		FALSE	FALSE	0		In the forest : a portfolio of paintings	1992-06-19
2	420909504539	b	2709531	eng	m	a	-	enk	FALSE	4		FALSE	FALSE	0	2005-01-21	Women, modernism, and performance	2005-01-03
3	420908517758	b	1722750	eng	m	a	-	xx	TRUE	2		FALSE	FALSE	4		The legion of the damned.	1992-06-19
4	420907795953	b	1000945	eng	m	a	s	enk	FALSE	3		FALSE	FALSE	4	1992-05-01	The economic growth of Hong Kong	1992-05-04
5	420907839619	b	1044611	eng	m	a	s	cau	FALSE	3		FALSE	FALSE	0	1992-05-01	Social psychology as social process	1992-05-05
6	420908412552	b	1617544	eng	m	a	s	cau	FALSE	3		FALSE	FALSE	0		Prolog and natural-language analysis	1992-06-13
7	420907836471	b	1041463	eng	m	a	-	ohu	FALSE	3	0	FALSE	FALSE	0		Airplane boys at Cap Rock	1992-05-05
8	420908412466	b	1617458	eng	m	a	-	nyu	FALSE	3	0	FALSE	FALSE	0		Crusaders in hell	1992-06-13
9	420907796418	b	1001410	eng	m	a	s	'"	FALSE	2		FALSE	FALSE	0		Sociology, a synopsis of principles	1992-05-04
10	420908412649	b	1617641	eng	m	j	-	cau	FALSE	2		FALSE	FALSE	0		Forever young, forever free	1992-06-13
11	420907796465	b	1001457	eng	m	a	s	'"	FALSE	2		FALSE	FALSE	4		The Perkins lectures. [Popular government]	1992-05-04
12	420908412652	b	1617644	eng	m	j	-	sp	FALSE	2		FALSE	FALSE	0			
13	420909365227	b	2570219	eng	s	-	-	min	FALSE	3		FALSE	FALSE	4			

Scratch pad

	id bigint	record_id bigint	language_code character varying	bcode1 character	bcode2 character	bcode3 character	country_code character varying
1	420910311724	420910311724	eng	m	a	d	z
2	420909068029	420909068029	eng	m	a	s	z
3	420909133617	420909133617	eng	m	c	-	z
4	30966456549264	30966456549264	eng	m	a	z	z
5	30966456549262	30966456549262	eng	m	a	z	z
6	420908119876	420908119876	eng	m	a	s	z
7	420908119078	420908119078	eng	m	a	-	z

This way you can get a taste of the data which is stored in the various rows and columns.



pgAdmin III: Tables: bib_view

	id bigint	record_id bigint	language_code character varying	bcode1 character	bcode2 character	bcode3 character	bcode4 character
1	420910311724	420910311724	eng	m	a	d	x
2	420909068029	420909068029	eng	m	a	s	n
3	420909133617	420909133617	eng	m	c	-	r
4	30966456549264	30966456549264	eng	m	a	z	'
5	30966456549262	30966456549262	eng	m	a	z	'
6	420908119876	420908119876	eng	m	a	s	x
7	420908119078	420908119078	eng	m	a	-	r

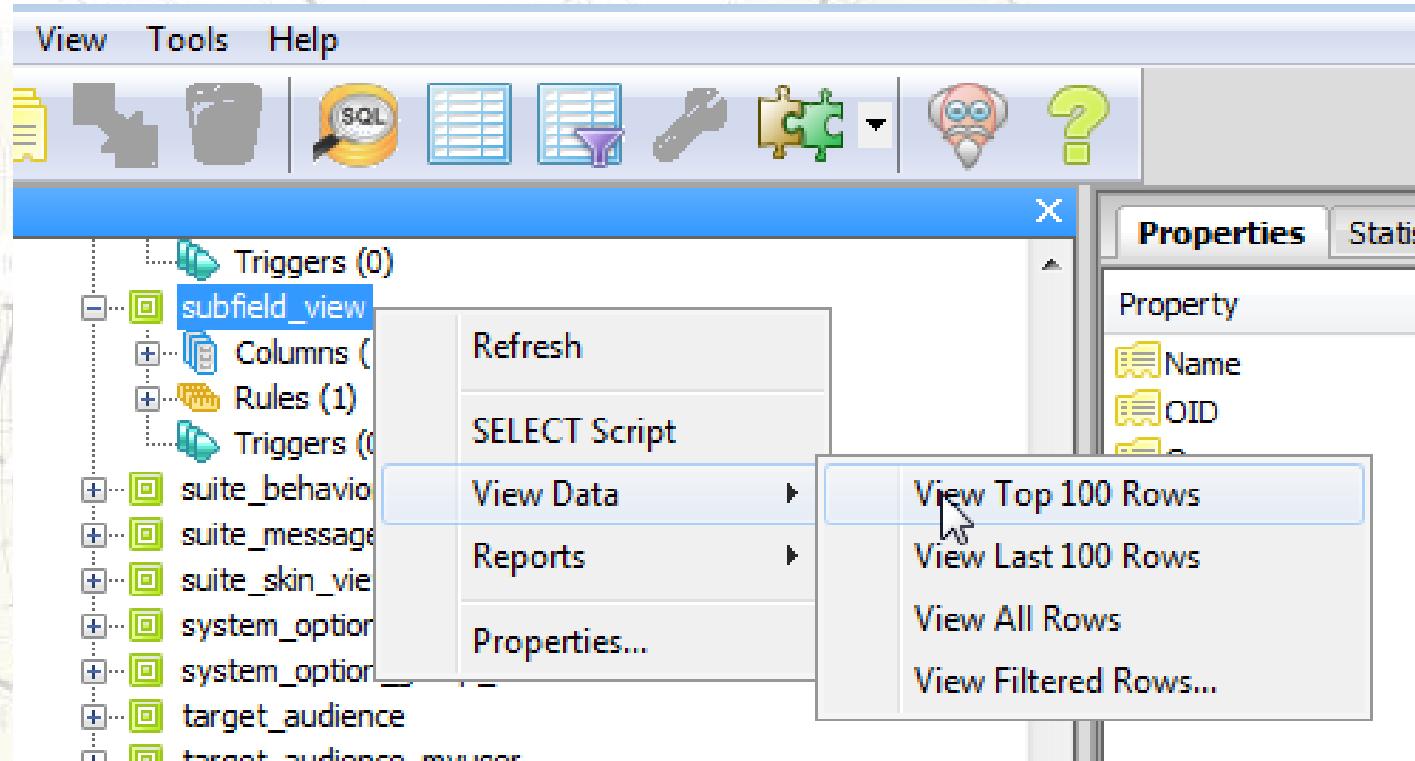
But Wait, not all my MARC record information that my catalogers will want is here.

No, for that you'll have to look at:

subfield

subfield_view

Glendale Whitefish Bay pgAdmin III: Tables: subfield_view



Right click on
subfield_view
Highlight: View Data
Click View Top 100
Rows

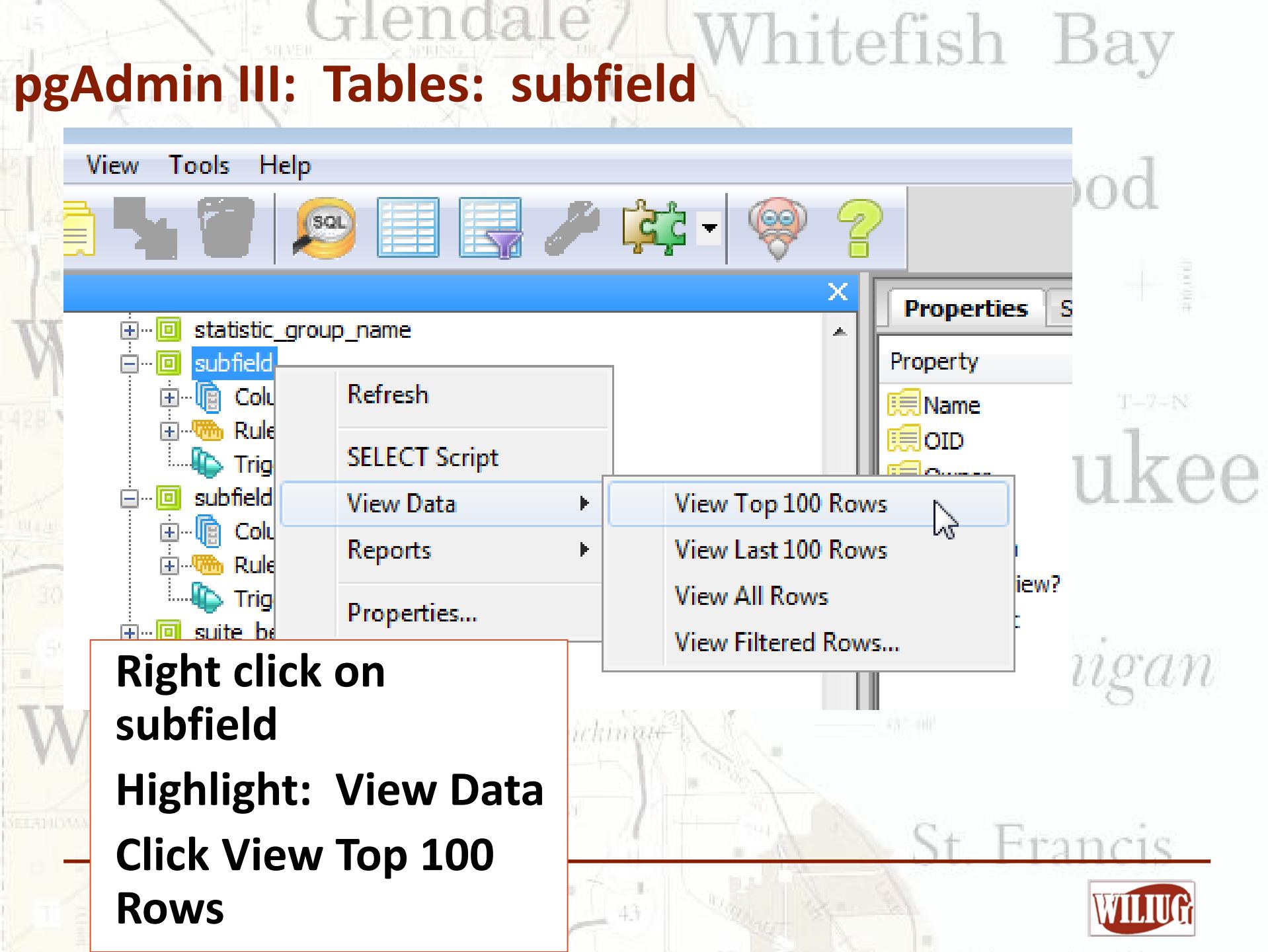
Glendale Whitefish Bay

pgAdmin III: Tables: subfield_view

record_id bigint	record_type_ character(1)	record_num integer	varfield_id bigint	field_type_cc character(1)	marc_tag character	value	m ch int	m ch int	occ dis int	tag cha	content character varying(20001)
420908517739	b	1722731	16347499	i	020				1 0	a	0688091385 (lib. bdg.)
420908517739	b	1722731	16347498	i	020				0 1	c	\$13.95
420908517739	b	1722731	16347498	i	020				0 0	a	0688081622 :
420908517739	b	1722731	16347497	y	092				3 1	b	A76i
420908517739	b	1722731	16347497	y	092				3 0	a	759.13
420908517739	b	1722731	16347496	v	049				2 0	a	BGUi
420	a	100		1 0 0 0	a	Arnosky, Jim					
420	p	260		0 0 2	c	c1989					
420	p	260		0 0 1	b	Lothrop, Lee & Shepard Books,					
420	p	260		0 0 0	a	New York :					
420	r	300		0 2	c	22 x 26 cm					
420	r	300		0 1	b	col. ill. ;					
420	r	300		0 0	a	28 p. :					
420	t	245	1 0 0 2	c	Jim Arnosky						
420	t	245	1 0 0 1	b	a portfolio of paintings /						
420	t	245	1 0 0 0	a	In the forest :						

MARC record subfields!





Right click on
subfield

Highlight: View Data
Click View Top 100
Rows

pgAdmin III: Tables: subfield

record_id bigint	varfield_id bigint	field_type_cd character(1)	marc_tag character varying	marc_ind1 character(1)	marc_ind2 character(1)	occ_num integer	display_order integer	tag character(1)	content character varying(20001)
29273878615	55427086	h				0	0		MOUNT CARMEL
13792694768	55427093	t				0	0		Angela's ashes / Frank McCourt,
13792694768	55427094	a				0	0		McCourt, Frank.
48962728051	55427117	r				0	0		EIEC 2150
48962728051	53561681	r				1	0		MUED 2460
45097617421	55181433	m				0	0		Check for flash card and battery in camera. Check in camera and bag (2 barcodes). Bag should have
45097617422	55181432	m				0	0		Check for flash card and battery in camera. Check in camera and bag (2 barcodes). Bag should have
53484755349	55427133	c				0	0		D511 .M269 2008

content
character varying(20001)

MOUNT CARMEL

Angela's ashes / Frank McCourt.

McCourt, Frank.

EIEC 2150

MUED 2460

Check for flash card and battery in camera. Check in camera and bag (2 barcodes). Bag should have

Check for flash card and battery in camera. Check in camera and bag (2 barcodes). Bag should have

D511 .M269 2008

5596047 ohiol

Here it comes again --

Learning how to hate --

0010350322

Non - MARC record
subfields?

pgAdmin III: Table Trick: SELECT Script

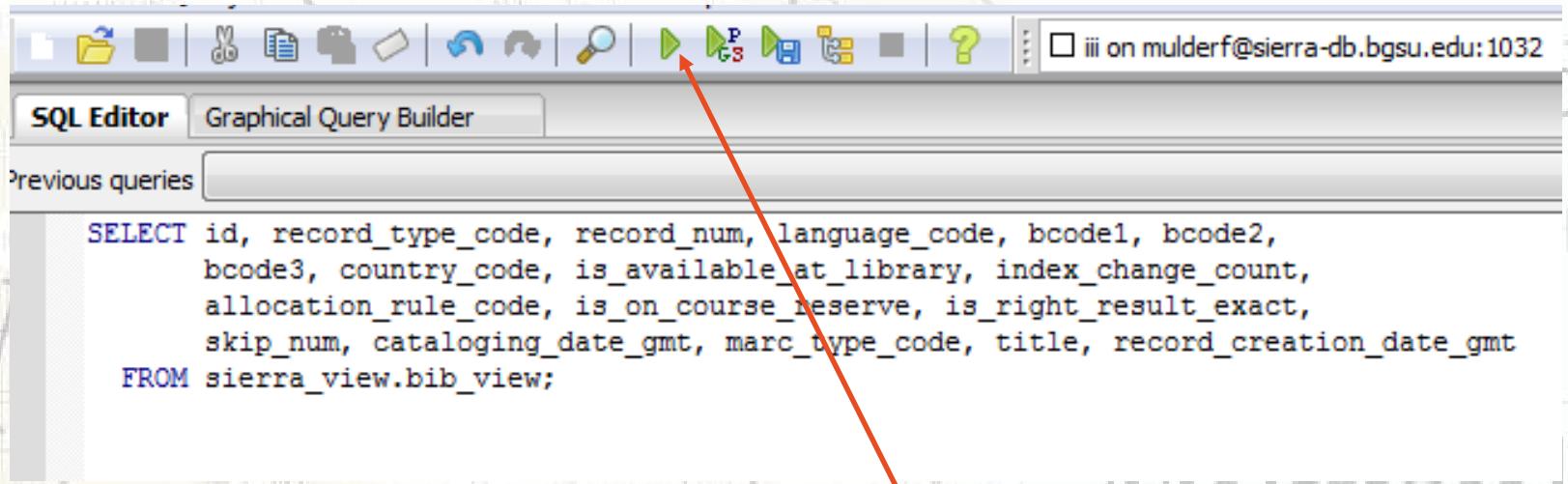
The screenshot shows the pgAdmin III interface. The Object Browser on the left lists various database objects, including tables like authority_view, b2m_category, and bib_view. A context menu is open over the bib_view entry, with the 'SELECT Script' option highlighted. To the right, the Properties panel displays details for the bib_view object, including its Name (bib_view), OID (64200), Owner (pdroot), ACL (pdroot=arwdDxt/pdroot,sierra_partner=r/pdro), Definition (SELECT br.id, md.record_type AS record_type_), and System view? (No).

Properties

Property	Value
Name	bib_view
OID	64200
Owner	pdroot
ACL	{pdroot=arwdDxt/pdroot,sierra_partner=r/pdro}
Definition	SELECT br.id, md.record_type AS record_type_
System view?	No
Comment	

Click on
SELECT Script

pgAdmin III: Table Query: SELECT Script



```
SELECT id, record_type_code, record_num, language_code, bcode1, bcode2,
       bcode3, country_code, is_available_at_library, index_change_count,
       allocation_rule_code, is_on_course_reserve, is_right_result_exact,
       skip_num, cataloguing_date_gmt, marc_type_code, title, record_creation_date_gmt
  FROM sierra_view.bib_view;
```

And you get a query you can run.

Hit run button  to view all bib records!
BUT DON'T do this till we talk about
limiting your query!



PROGRAMMING IS AN ART

www.geek-and-poke.com

<http://static.squarespace.com/static/518f5d62e4b075248d6a3f90/t/523a084fe4b0a6a0836f2878/1379534937192/aop.jpg?format=750w>

Whitefish Bay

Shorewood

Questions?

Milwaukee

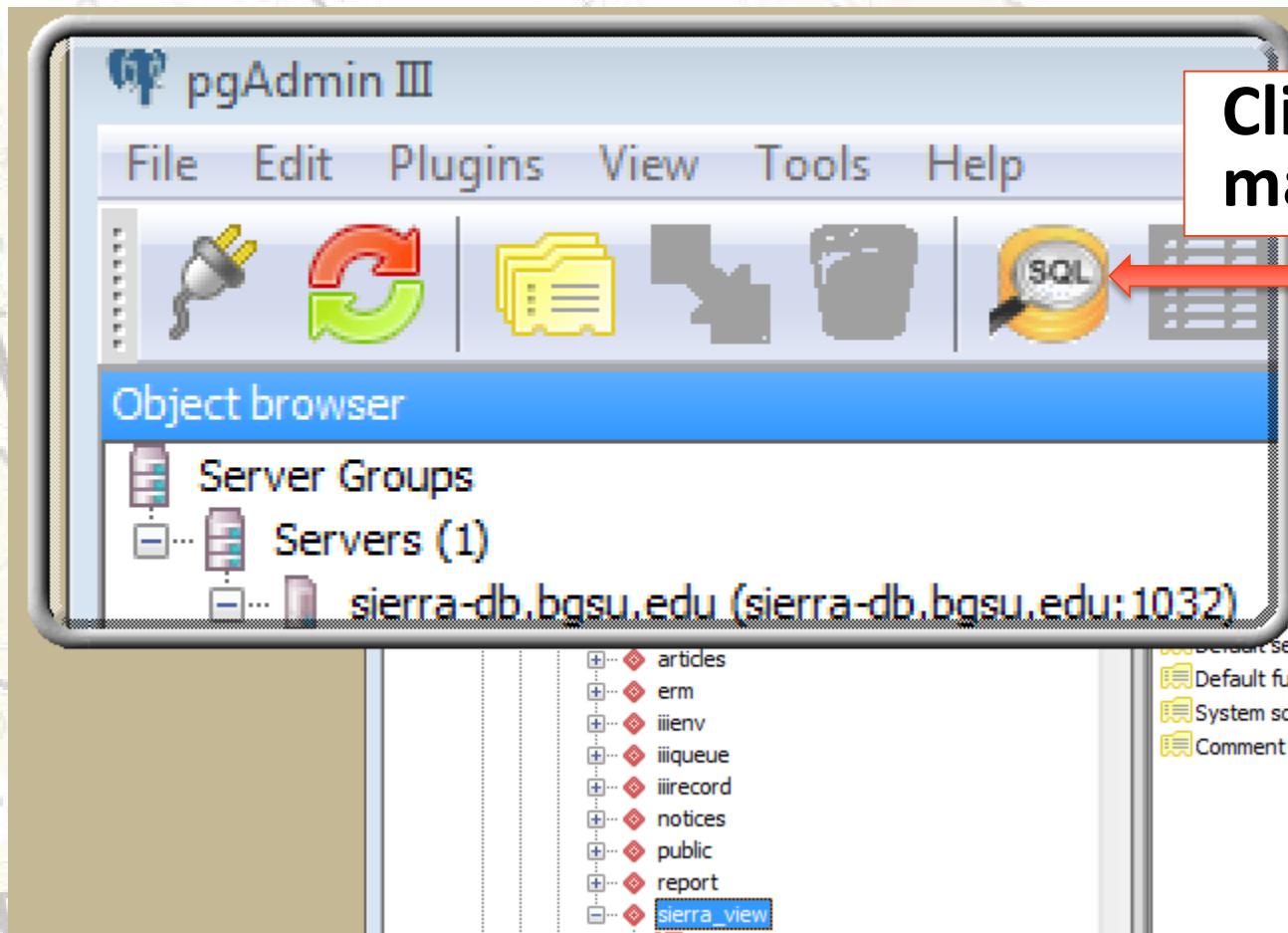
Lake

Michigan

St. Francis

T-6-N

pgAdmin III: Query Screens

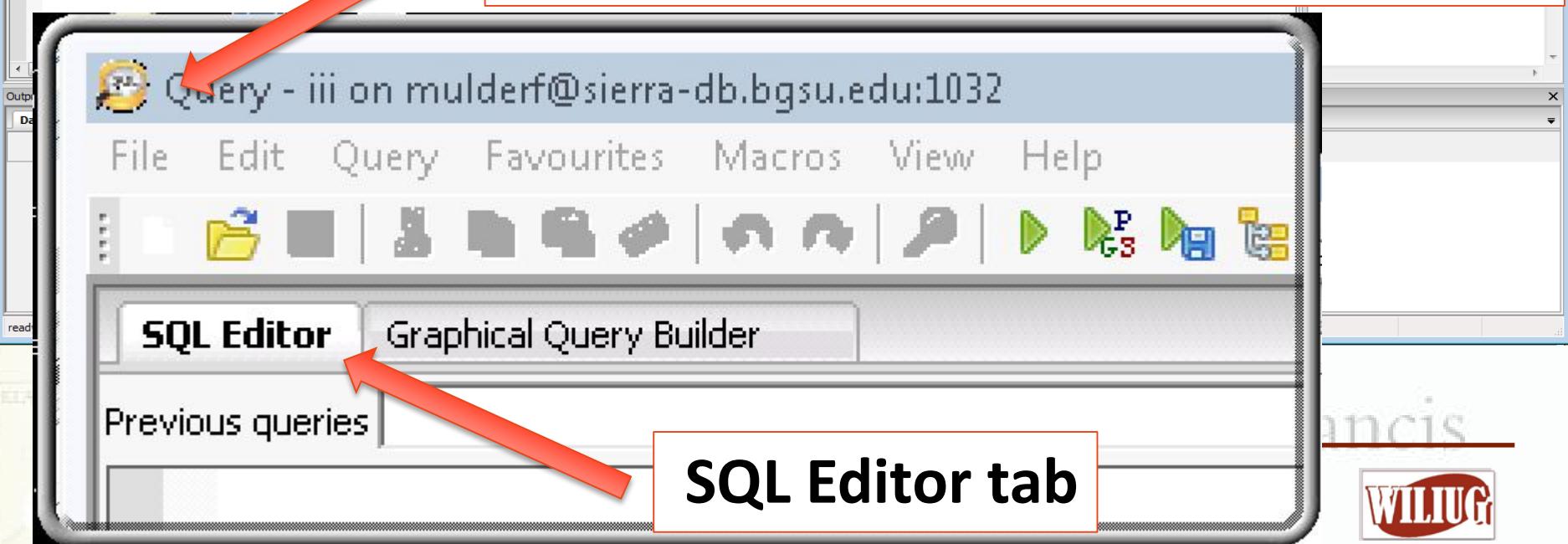


Click on the SQL magnifying glass

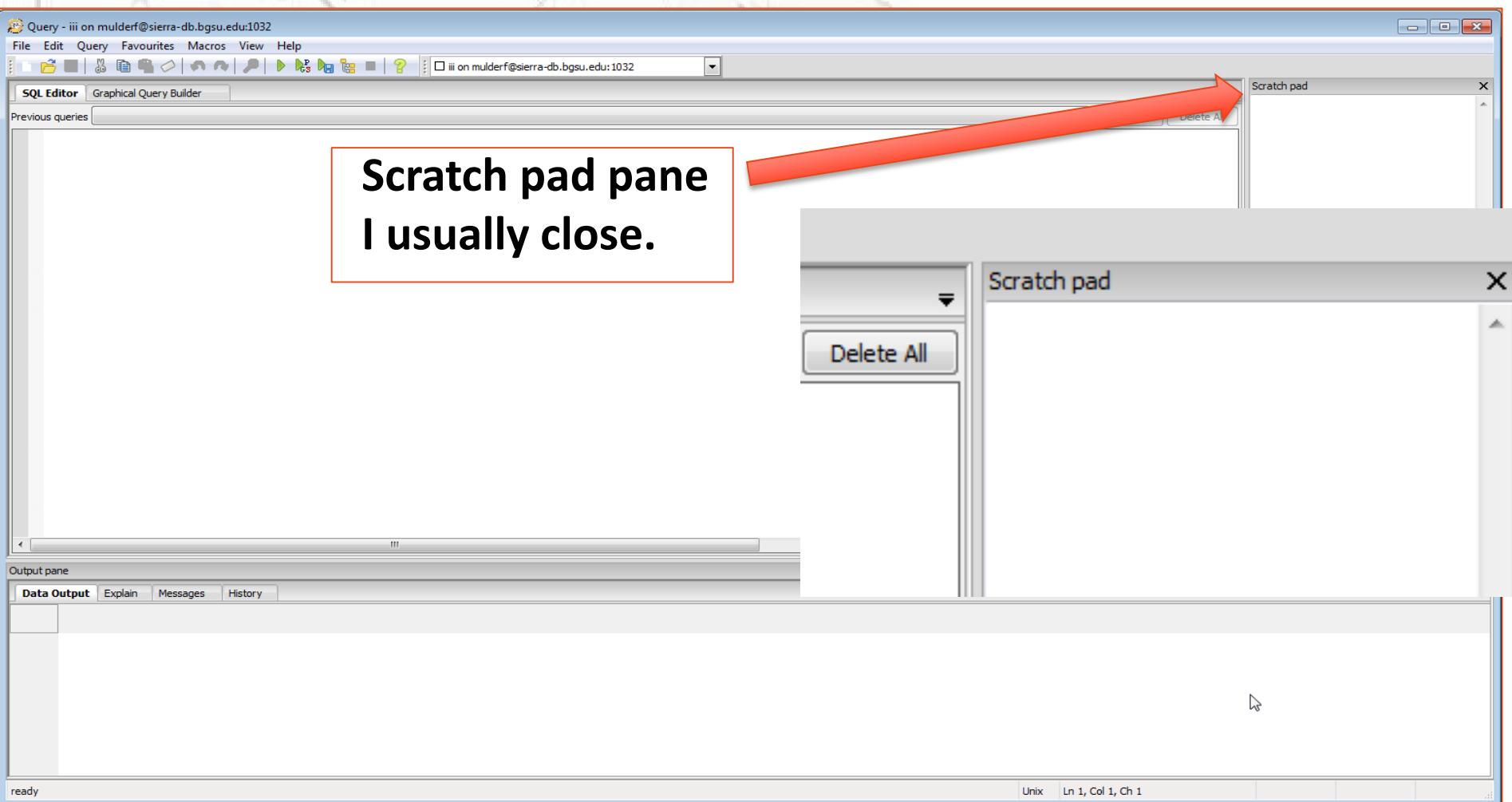
pgAdmin III: Query Screens



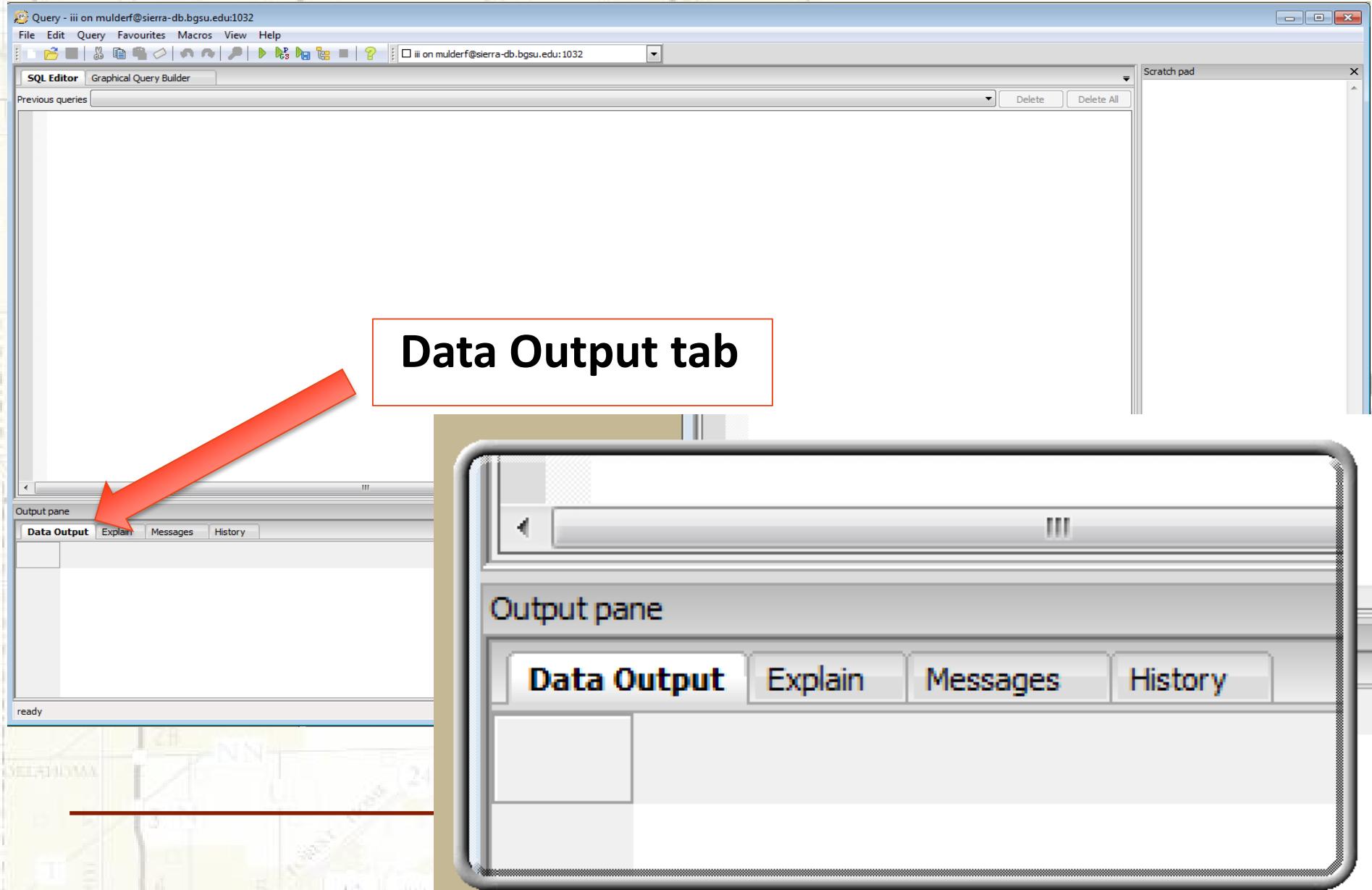
When you are in query mode you will see the magnifying glass.



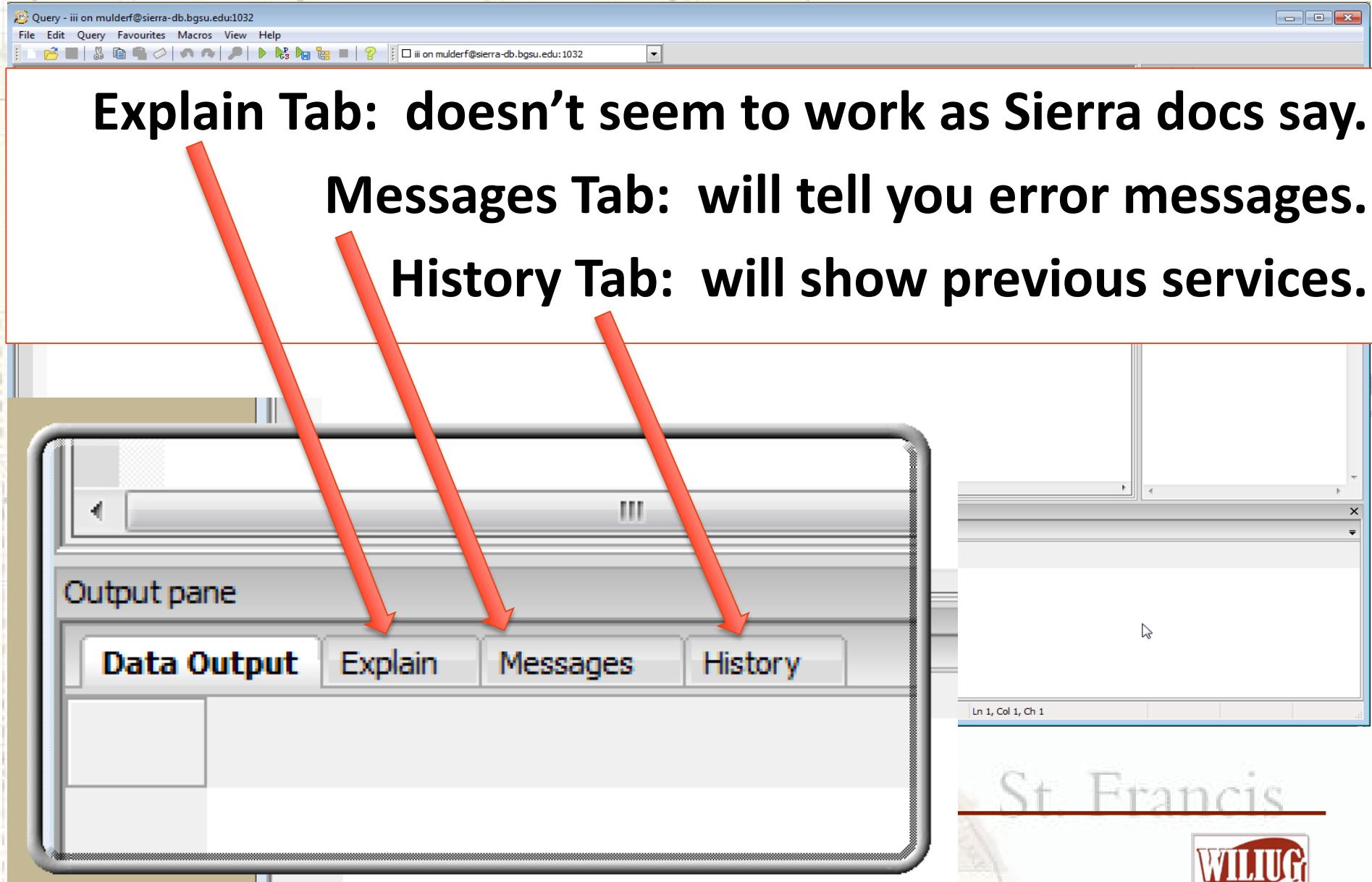
pgAdmin III: Query Screens



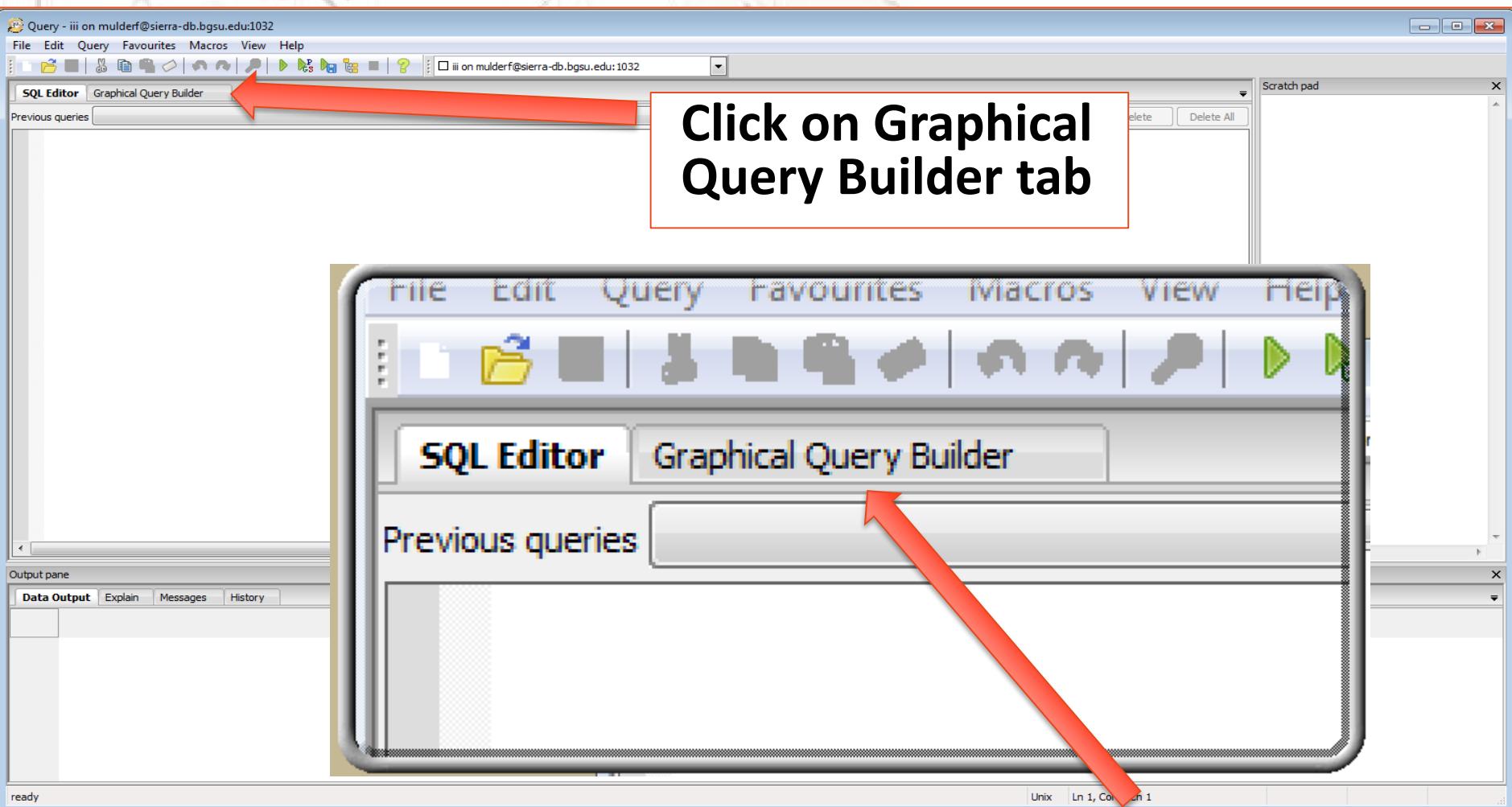
pgAdmin III: Query Screens



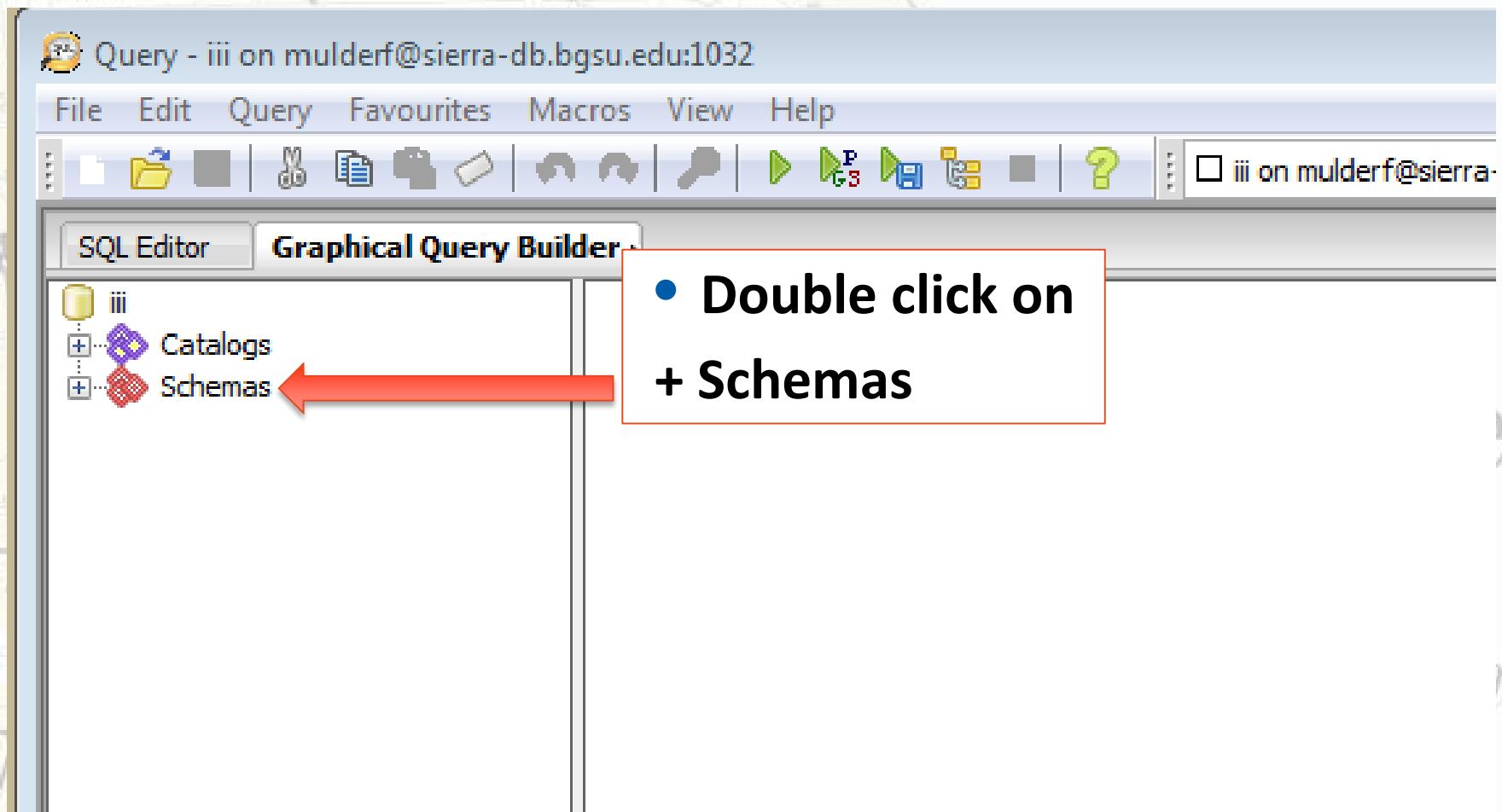
pgAdmin III: Query Screens



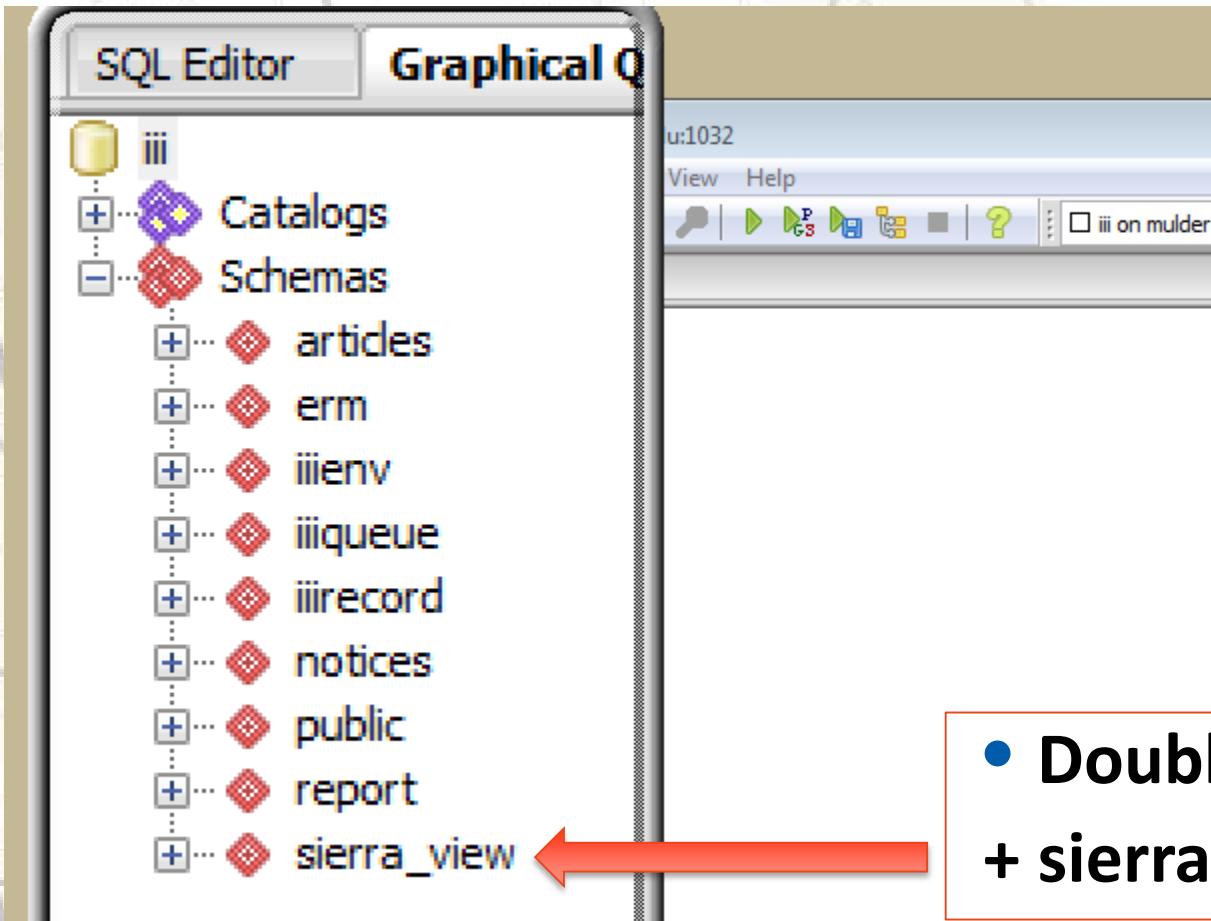
pgAdmin III: Query Screens



pgAdmin III: Graphical Query Builder

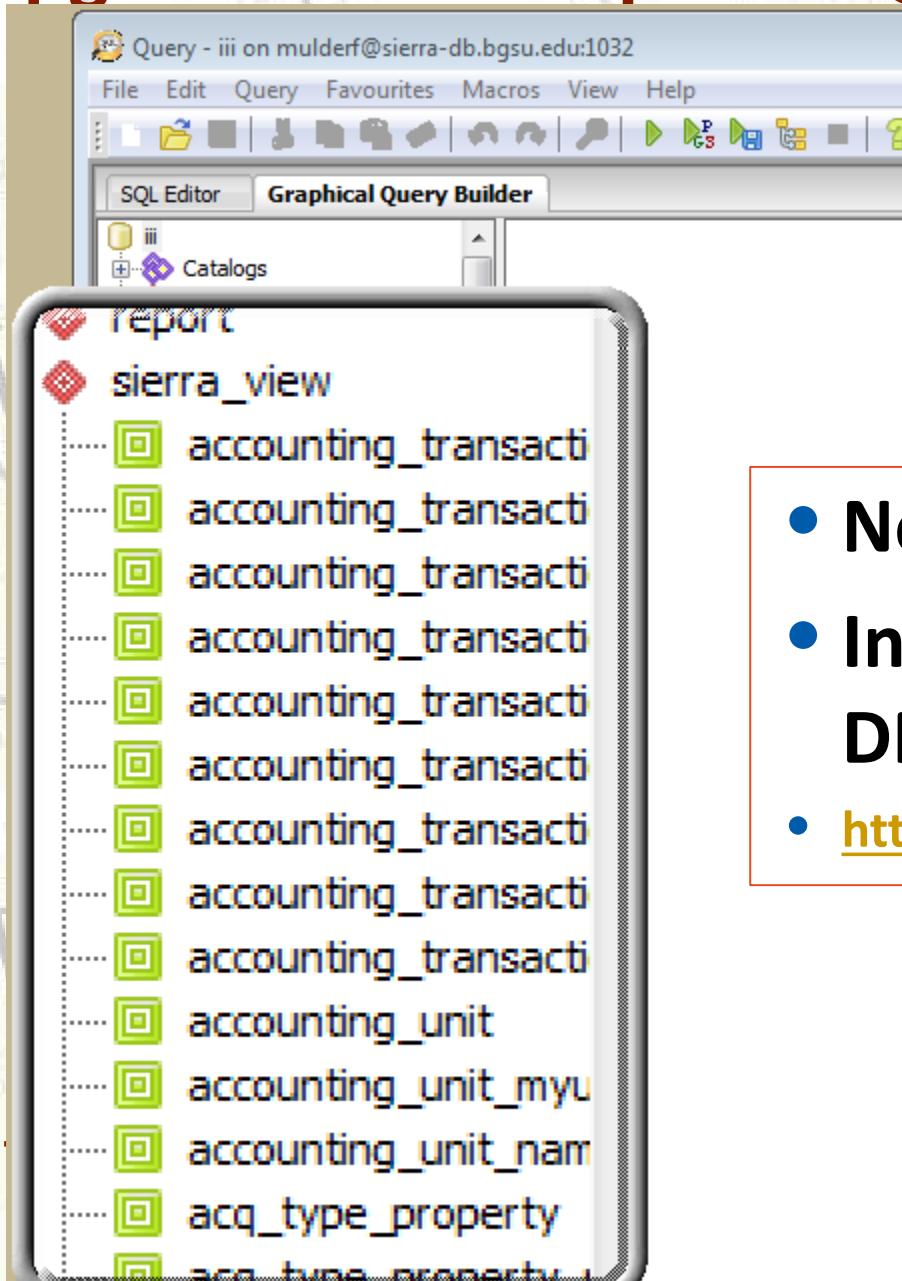


pgAdmin III: Graphical Query Builder

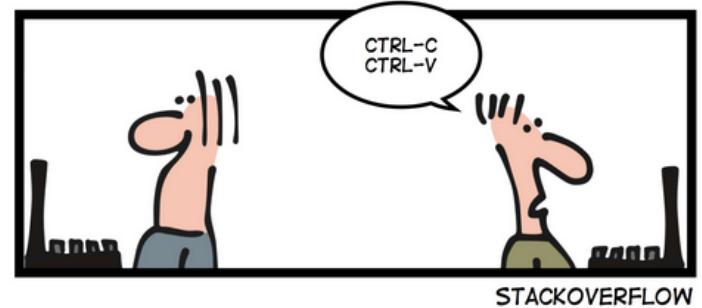
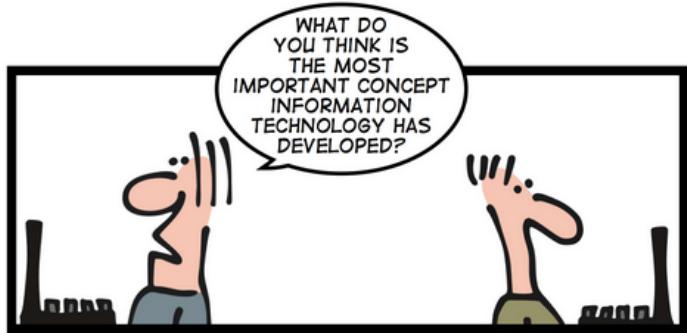


- Double click on + sierra_view

pgAdmin III: Graphical Query Builder



- Now we are at tables:
- Information at Sierra DNA tech docs
- <http://techdocs.iii.com/sierradna/>



www.geek-and-poke.com

<http://s3.media.squarespace.com/production/2129687/19317774/.a/6a00d8341d3df553ef017ee7e988b6970d-pi>

Questions?

Milwaukee

Lake

Michigan

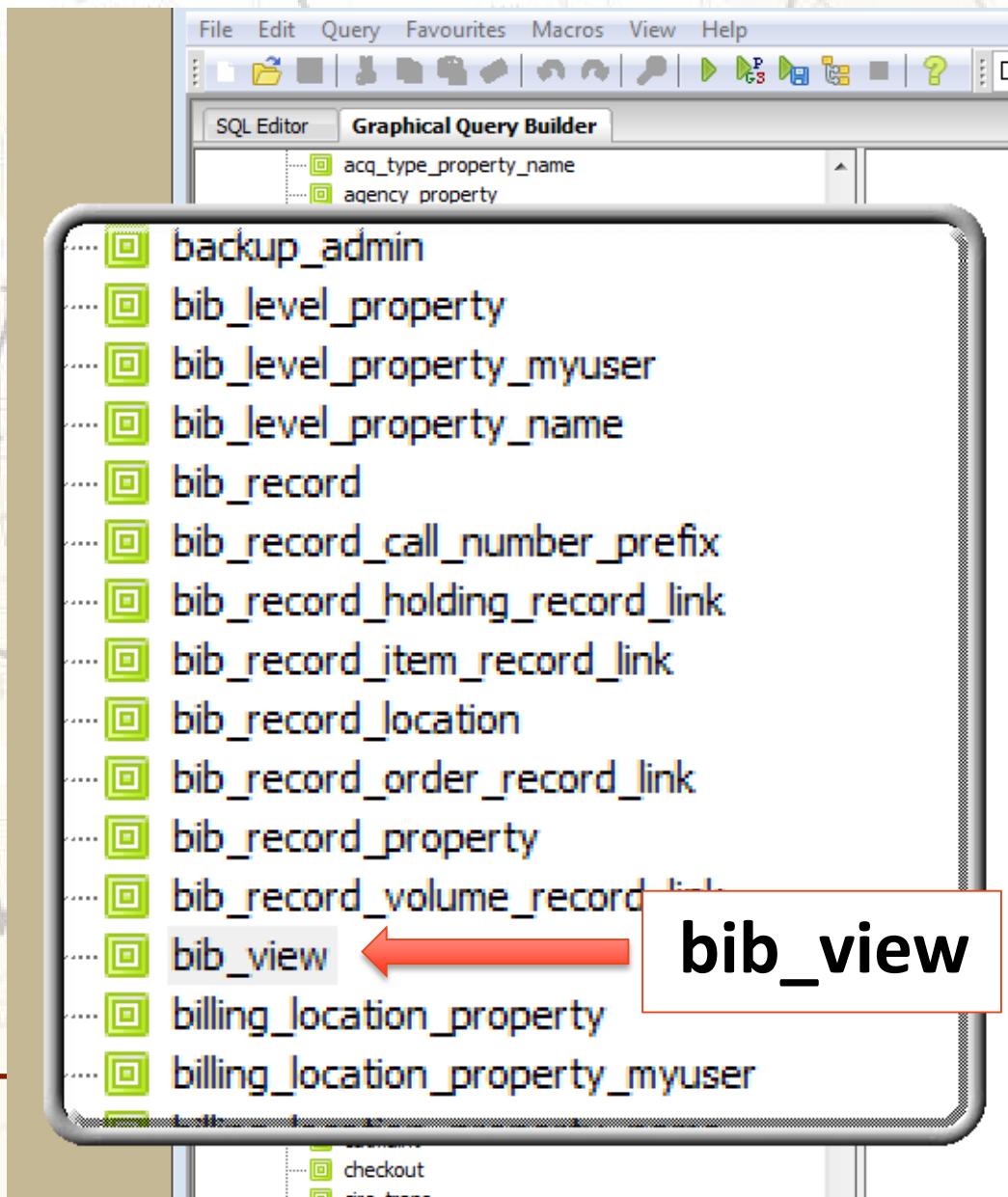
St. Francis

T-6-N

First Query

- Use pgAdmin III to run a query on Bibliographic Information.
- Assign labels to output columns.
- Limit a query.

pgAdmin III: bib_view



- **bib_record**
- III makes tables like: **bib_view** which hold many of the desired data values you want.
- click **bib_view**

pgAdmin: bib_view

Graphical Query Builder

- bib_view
- billing_location_property
- billing_location_property
- billing_location_property
- booking
- bool_info
- bool_set
- branch
- branch_change
- branch_myuser
- branch_name
- catmaint
- checkout
- circ_trans
- daim_action_property
- daim_action_property
- daim_action_property
- colagency_criteria

bib_view

- id
- record_type_code
- record_num
- language_code
- bcode1
- bcode2
- bcode3
- country_code
- is_available_at_library
- index_change_count
- allocation_rule_code
- is_on_course_reserve
- is_right_result_exact
- skip_num
- cataloging_date_gmt
- marc_type_code
- title
- record_creation_date_gmt

- See table columns available to you.
- at bottom is:
title

pgAdmin III: bib_view

bib_view

Each row of bib_view includes metadata for one bibliographic record. The metadata includes identification and status information, as well as data that determines

Column	Data Type	Not NULL?	Comment
id	bigint	false	System-generated sequential ID.
record_type_code	char	false	Record type code, i.e., 'b'.
record_num	int	false	Record number.
language_code	varchar	false	Language of the material. LANG is based on the MARC 21 Code List for Languages (a)
bcode1	char	false	The library determines the name and purpose of this code and the code's definition.
bcode2	char	false	The library determines the name and purpose of this code and the code's definition.
bcode3	char	false	The library determines the name and purpose of this code and the code's definition.

- **bib_view**
- **Data Column**
- **Data Type**
- **Comment**

- [http://techdocs.iii.com/sierradna/Home,\\$DirectLink.sdirect?sp=SBib](http://techdocs.iii.com/sierradna/Home,$DirectLink.sdirect?sp=SBib)

pgAdmin III: Columns Tab: Alias

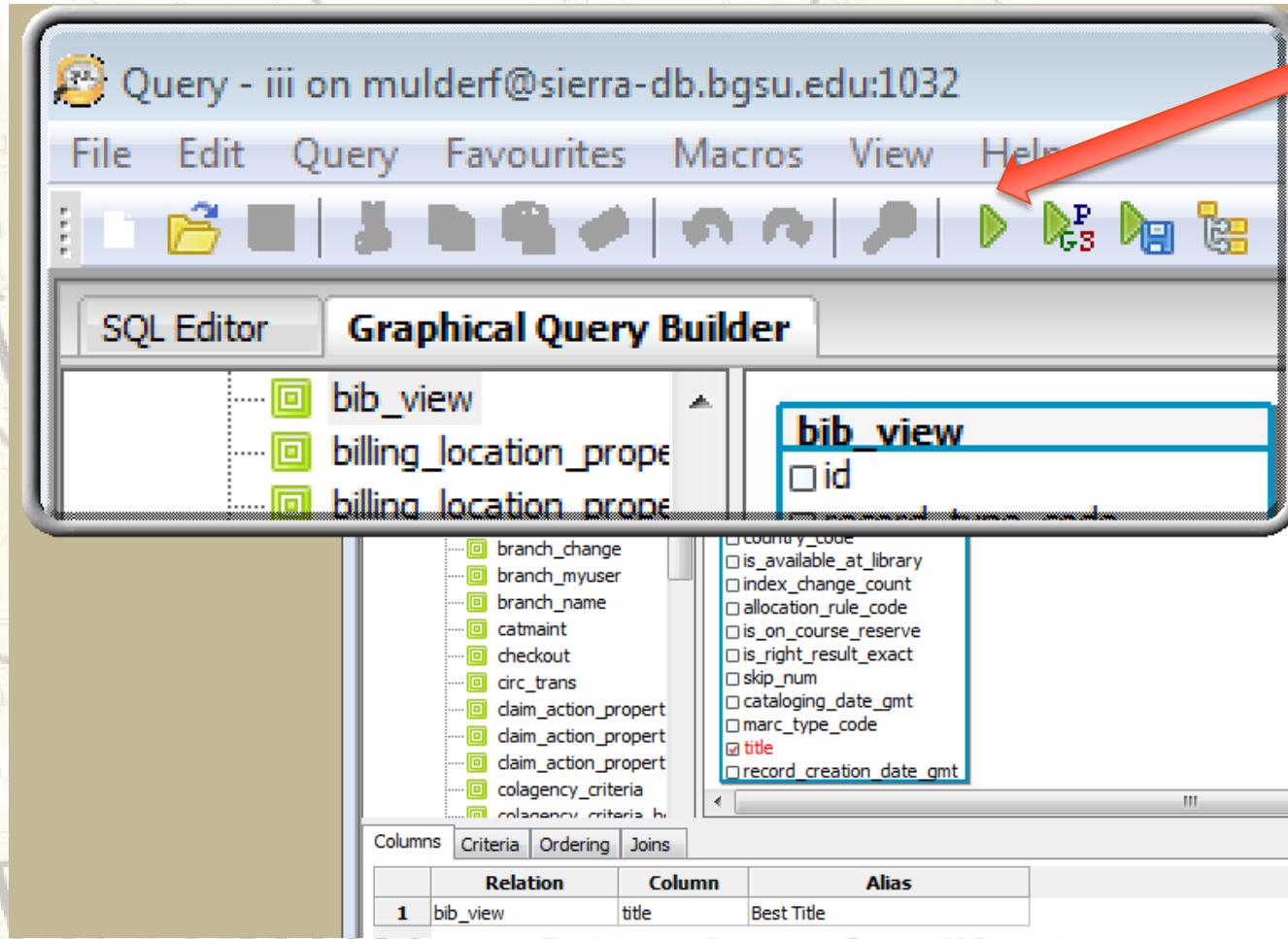
The screenshot shows the pgAdmin III interface for managing database queries. At the top, there's a list of available columns from a table named 'circ_trans'. Below this is a navigation bar with tabs: 'Columns' (which is selected), 'Criteria', 'Ordering', and 'Joins'. The main area displays a results grid with three columns: 'Relation', 'Column', and 'Alias'. A single row is shown, where 'Relation' is '1' and 'bib_view', 'Column' is 'title', and 'Alias' is 'Best Title'. Two red arrows point to specific parts of the interface: one points to the 'Columns' tab in the navigation bar, and another points to the 'Alias' column header in the results grid. A callout box with a red border and black text is positioned over the list of columns, containing the instruction: 'Click in box to put check mark the title box and it turns red.' A red arrow points to the checkbox next to 'title' in the list.

- Columns Tab
- Relation: bib_view
- Column: title

When you want to title a column in the output use:
Alias:
Double click and enter: Best Title

pgAdmin III: Run Query

See Next Page before clicking Run!



Click
to run
query and
display
results on
screen.

pgAdmin III: Limiting Query

WARNING!!

**ALWAYS LIMIT YOUR RESULT SET,
ESPECIALLY WHEN EXPERIMENTING!**

- In our example the system will draw to output all the titles for all the records. This will tax the system and reduce your patrons' web experience as well as staff response times.
- Two limit methods:
 - 1) USE Criteria at bottom window
 - 2) STOP Query and add
Limit 100;

pgAdmin III: Limiting

File Edit Query Favourites Macros View Help

iii on mulderf@sierra-db.bgsu.edu:1032

SQL Editor Graphical Query Builder

b2m_category
b2m_category_myus
b2m_category_name
backup_admin
bib_level_property
bib_level_property_n
bib_level_property_r
bib_record
bib_record_call_numt
bib_record_holding_r
bib_record_item_rec
bib_record_location
bib_record_order_re
bib_record_property
bib_record_volume_r
bib_view
billing_location_propo

bib_view
id
record_type_code
record_num
language_code
bcode1
bcode2
bcode3
country_code
is_available_at_library
index_change_count
allocation_rule_code
is_on_course_reserve
is_right_result_exact
skip_num
cataloguing_date_gmt
marc_type_code
title
record_creation_date_gmt

Columns Criteria Ordering Joins

Restricted Value	Operator	Value	Connector
------------------	----------	-------	-----------

• 1) Click on the Criteria tab next to columns on the bottom of window.

• 2) Next, To the far right click on the funnel with a +

Columns Criteria Ordering Joins

Restricted Value

St. Francis

WILLUG

pgAdmin III: Limiting

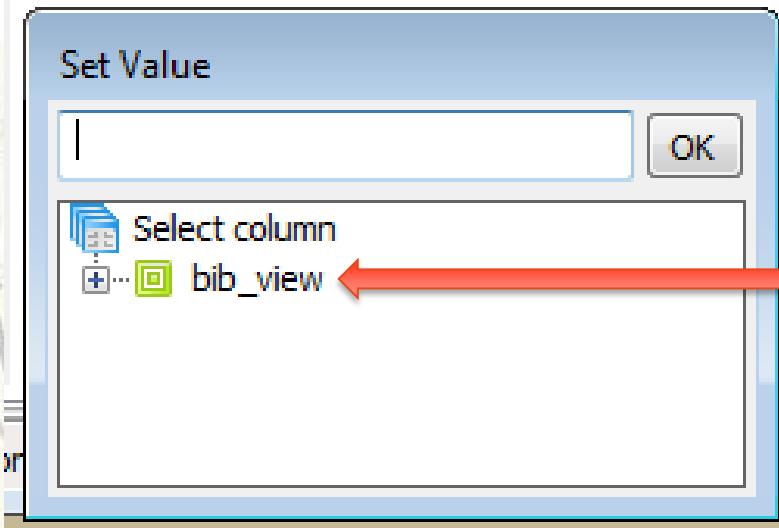
The screenshot shows the pgAdmin III interface with the 'Criteria' tab selected. A single row of filters is present, consisting of four columns: 'Restricted Value' (containing '1'), 'Operator' (containing '='), 'Value' (empty), and 'Connector' (containing 'AND'). There is also a '+' button to add more rows.

- The  will add columns under the Criteria tab:
- Restricted Value
- Operator
- Value
- Connector

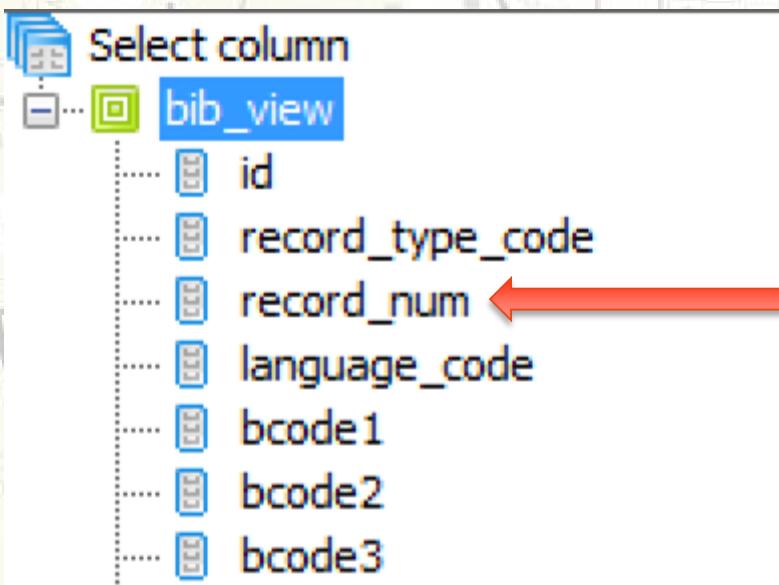
The screenshot shows the pgAdmin III interface with the 'Criteria' tab selected. A single row of filters is present, consisting of four columns: 'Restricted Value' (containing '1'), 'Operator' (containing '='), 'Value' (empty), and 'Connector' (containing 'AND'). The 'Restricted Value' column is highlighted with a red border. There is also a '+' button to add more rows.

- Click on + under Restricted Value

pgAdmin III: Limiting



- 1) Set Value menu appear
- Click + **bib_view**



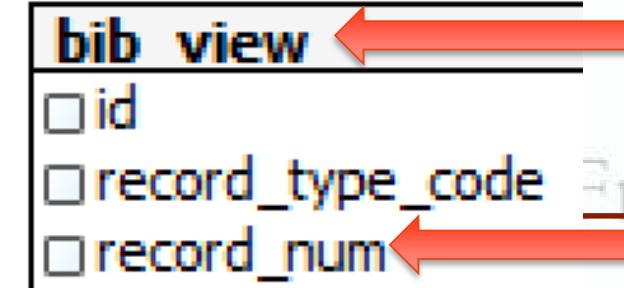
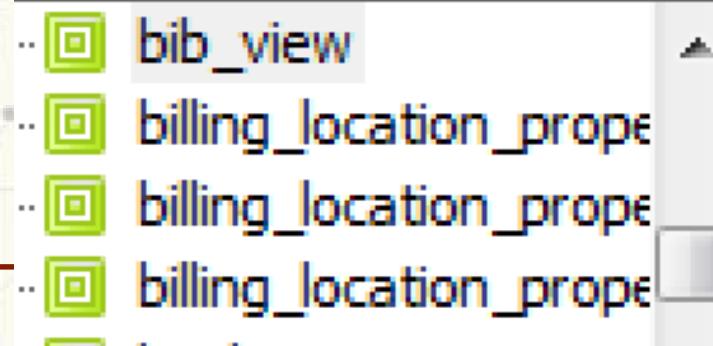
- 2) The table choices appear!
- Click on
record_num

pgAdmin III: Limiting

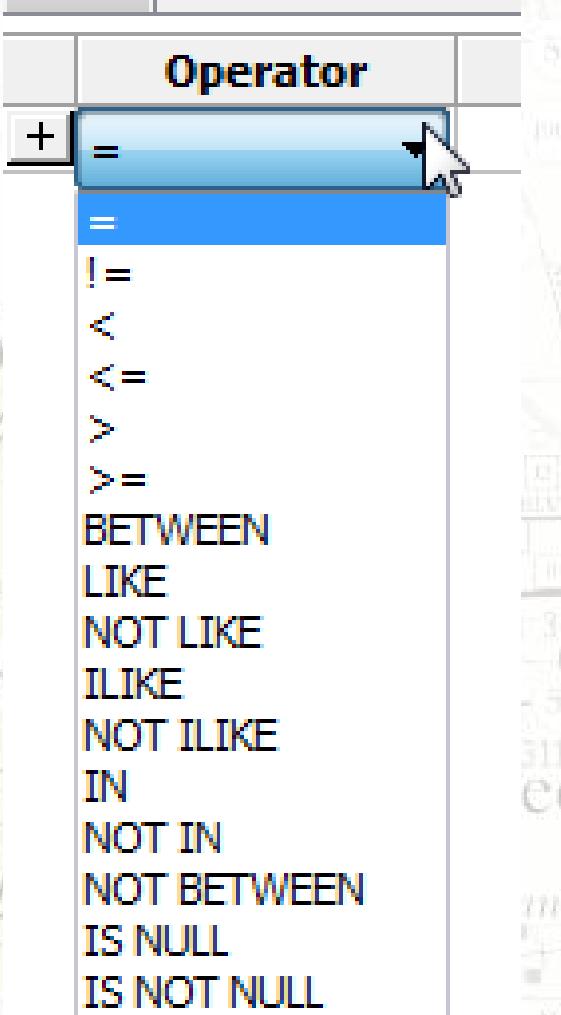
	Restricted Value	Operator	Value
1	bib_view.record_num	=	

- Restricted Value populated with table:
Bib_view.record_num
- Translates as the **record_num** field from
Bib_view table

Graphical Query Builder



pgAdmin III: Limiting



- Operator
- Options:
- =
- !=
- <
- <=
- >
- >=
- Etc.
- We will stick with equal =

pgAdmin III: Limiting

Value

'1722731'

- For Value, I picked a bib record value I looked up:
- b17227318
- **ALWAYS USE** a single quotation mark or an apostrophe ‘xxx’ around character or numbers.

Value field reads: ‘1722731’

pgAdmin III: Limiting

File Edit Query Favourites Macros View Help



SQL Editor Graphical Query Builder

bib_view

id
 record_type_code
 record_num

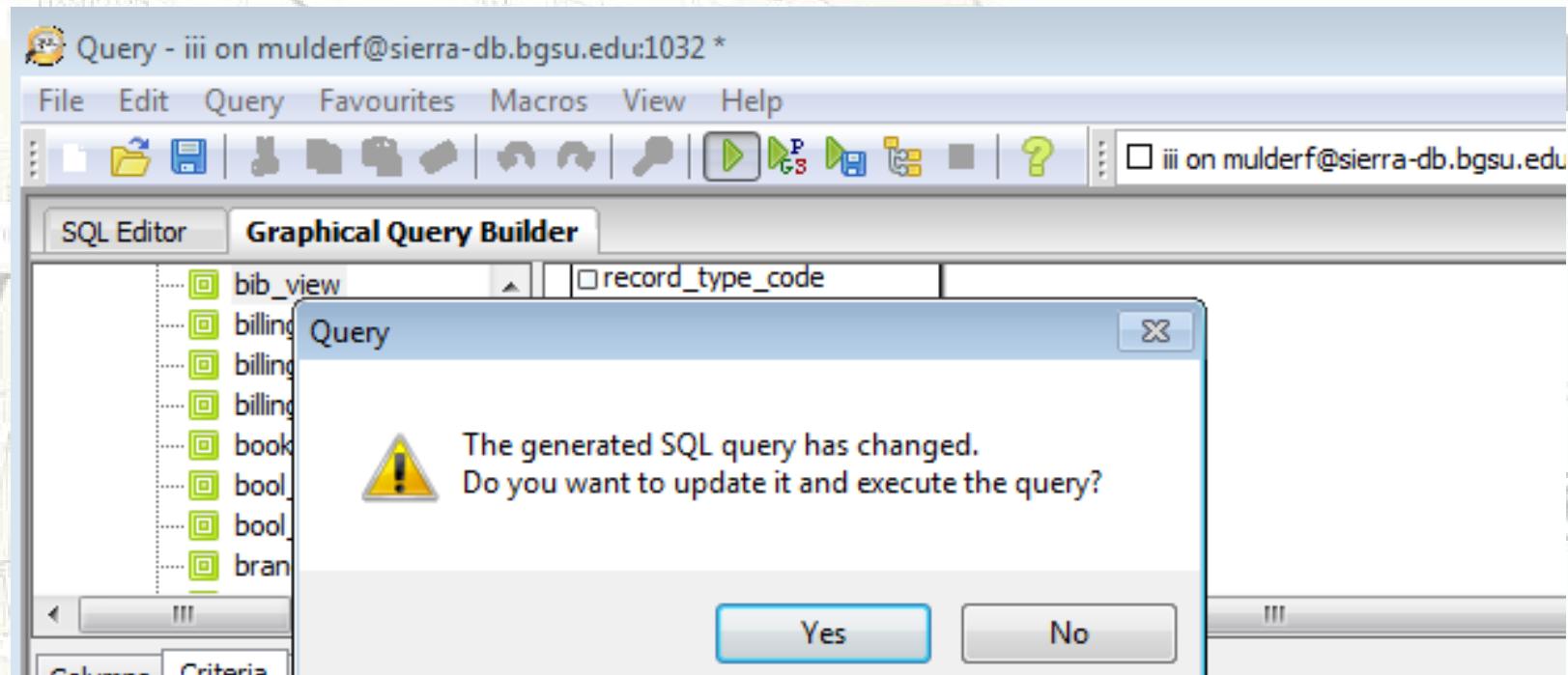
• Click on SQL
Editor tab

is_on_course_reserve
 is_right_result_exact
 skip_num

Columns Criteria Ordering Joins

	Restricted Value	Operator	
1	bib_view.record_num	+ =	'1722731'

pgAdmin III: Limiting



• click Yes.

pgAdmin III: Limiting

- Now you see text of query and you need to click on green arrow to run it.

SQL Editor

Graphical Query Builder

Previous queries

```
SELECT
    bib_view.title AS "Best Title"
FROM
    sierra_view.bib_view
WHERE
    bib_view.record_num = '1722731';
```

pgAdmin III: Limiting

The SQL Editor view of query:

```
SELECT  
    bib_view.title AS "BEST TITLE"  
FROM  
    sierra_view.bib_view  
WHERE  
    bib_view.record_num = '1722731'
```

pgAdmin III: Limiting

Data Output

Explain

Messages

History

title
character varying(1000)

1 In the forest : a portfolio of paintings

- The Data Output has label: Title Output for record 172273
- Title: In the forest: a portfolio of paintings

pgAdmin III: Limiting

SQL Editor view of query

SELECT

bib_view.title AS "Best Title"

bib_view
<input type="checkbox"/> id
<input type="checkbox"/> record_type_code
<input type="checkbox"/> record_num
<input type="checkbox"/> language_code
<input type="checkbox"/> bcode1
<input type="checkbox"/> bcode2
<input type="checkbox"/> bcode3
<input type="checkbox"/> country_code
<input type="checkbox"/> is_available_at_library
<input type="checkbox"/> index_change_count
<input type="checkbox"/> allocation_rule_code
<input type="checkbox"/> is_on_course_reserve
<input type="checkbox"/> is_right_result_exact
<input type="checkbox"/> skip_num
<input type="checkbox"/> cataloguing_date_gmt
<input type="checkbox"/> marc_type_code
<input checked="" type="checkbox"/> title
<input type="checkbox"/> record_creation_date_gmt

**SELECT
bib_view.title**
**Is combination of
table:
bib_view
And Field:
title**

pgAdmin III: Limiting

SQL Editor view of query

SELECT

```
bib_view.title AS "Best Title"
```

Columns	Criteria	Ordering	Joins
	Relation	Column	Alias
1	bib_view	title	Best Title

**SELECT
AS "Best Title"
Caused by the Alias
in the Columns tab**

pgAdmin III: Limiting

SQL Editor view of query

FROM

sierra_view.bib_view

The screenshot shows the pgAdmin III interface. At the top, there is a toolbar with various icons. Below the toolbar, the title bar has two tabs: "SQL Editor" (which is selected) and "Graphical Query Builder". In the main pane, there is a tree view on the left showing database structures. A red arrow points from the text "sierra_view.bib_view" at the bottom of the screen up towards the tree view, indicating the target for the view creation. To the right of the tree view, there is a window titled "bib_view" containing the text "id". Another red arrow points from the text "id" in this window up towards the "sierra_view.bib_view" text at the bottom, indicating the primary key being selected for the view.

pgAdmin III: Limiting

SQL Editor view of query

WHERE

bib_view.record_num = '1722731'

	Restricted Value	Operator	
1	bib_view.record_num	=	'1722731'

Bib_view.record_num = '1722731'

Caused by the Operator = Value
in the Criteria tab

Previous queries

```
SELECT
    bib_view.title AS "Best Title"
FROM
    sierra_view.bib_view
WHERE
    bib_view.record_num = '1722731';
```

Output pane

Data Output

Explain

Messages

History

	Best Title character varying(1000)
1	In the forest : a portfolio of paintings

1

SIMPLY EXPLAINED



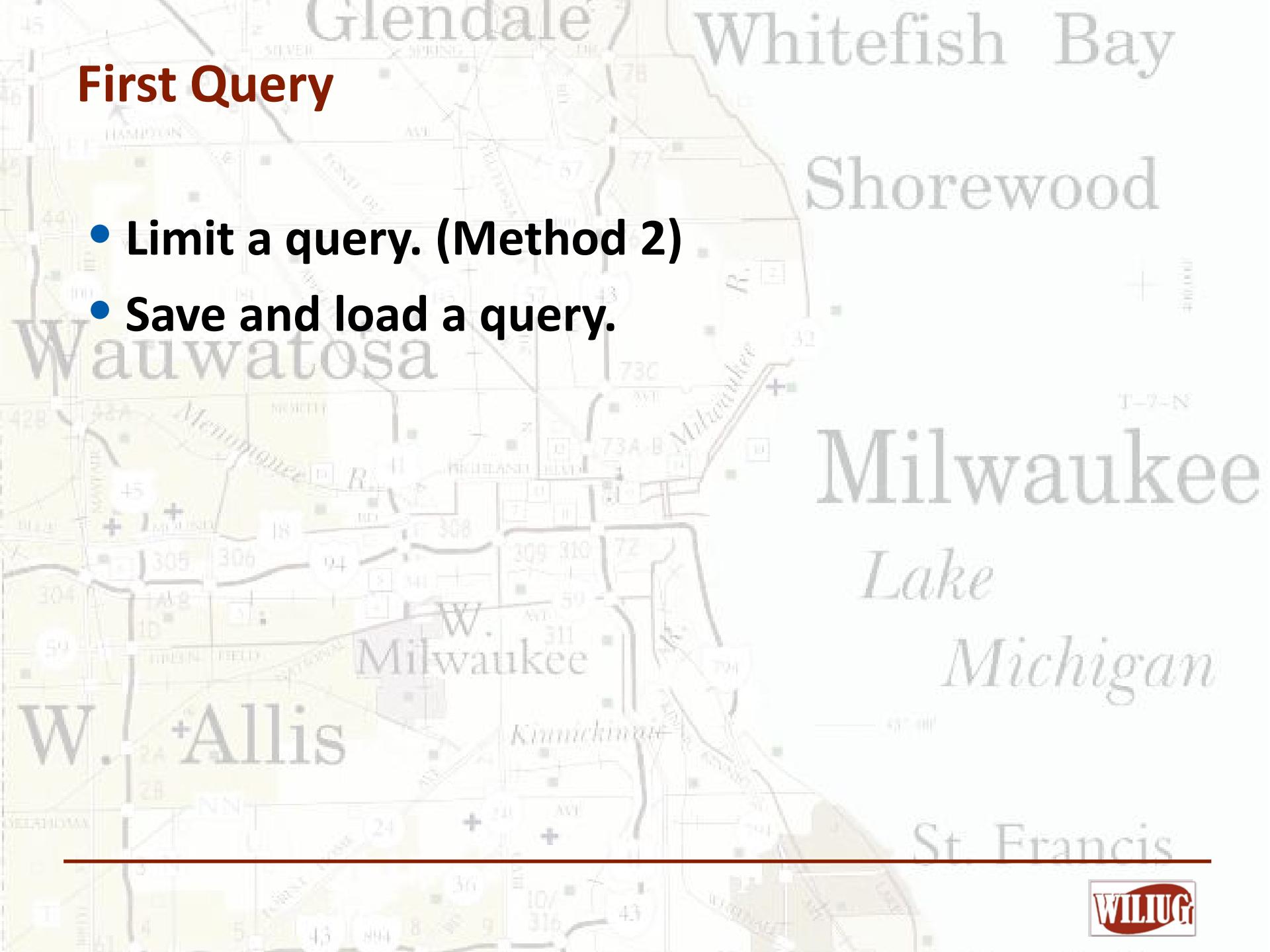
www.geek-and-poke.com

<http://s3.media.squarespace.com/production/2129687/19317774/.a/6a00d8341d3df553ef017ee884a3f6970d-pi>

Questions?

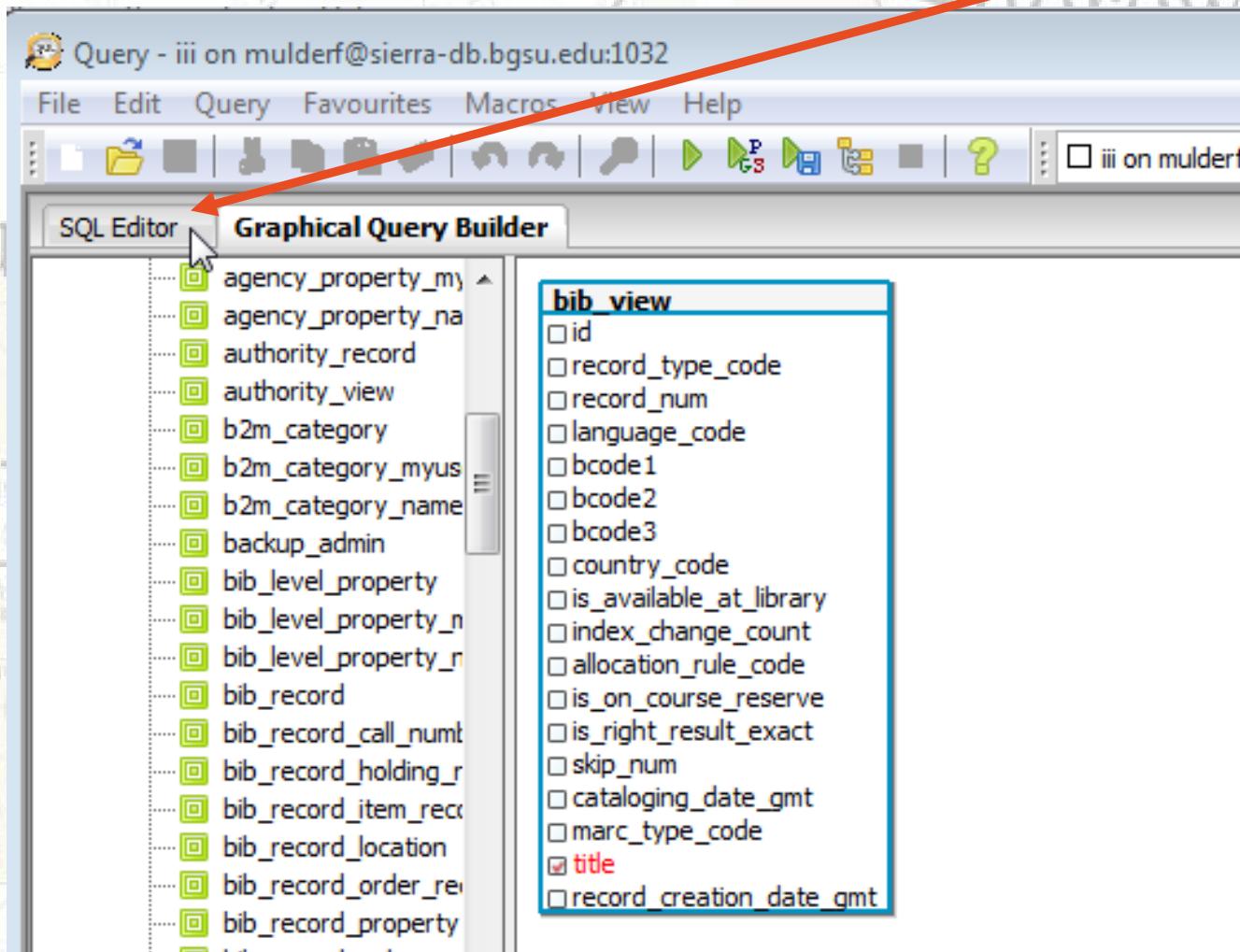
First Query

- Limit a query. (Method 2)
- Save and load a query.



pgAdmin III: Limiting

Method 2, click on the SQL Editor tab.



pgAdmin III: Limiting

The screenshot shows the pgAdmin III application interface. At the top, there's a toolbar with icons for file operations like Open, Save, and Print, along with other tools like a magnifying glass and a question mark. Below the toolbar is a menu bar with File, Edit, Query, Favourites, Macros, View, and Help. A connection status bar shows "iii on mulderf@sierra-db.bgsu.edu:1032 *". The main window has tabs for SQL Editor and Graphical Query Builder, with Graphical Query Builder selected. On the left, there's a tree view of database objects under "bib_view". In the center, there's a "Query" dialog box with a warning icon and the message: "The generated SQL query has changed. Do you want to update it and execute the query?". Two buttons are visible: "Yes" and "No". Below the dialog, the query builder interface shows a table with columns: Restricted Value, Operator, Value, and Connector. The first row contains "1", "bib_view.record_num", "+", "= 'b27478968'", and "+ AND".

	Restricted Value	Operator	Value	Connector
1	bib_view.record_num	+	= 'b27478968'	+ AND

- When Prompted click Yes.

pgAdmin III: Limiting

SQL Editor text:

SELECT

bib_view.title AS "Best Title"

FROM

sierra_view.bib_view;

Delete “;” after sierra_view.bib_view

Add line:

Limit 5;

Press run button:



pgAdmin III: Limiting

The screenshot shows the pgAdmin III interface. At the top, there's a toolbar with various icons. Below it, a navigation bar has 'SQL Editor' selected. A 'Graphical Query Builder' tab is also present. A 'Previous queries' dropdown menu is open. The main area contains a SQL query:

```
SELECT
    bib_view.title AS "Best Title"
FROM
    sierra_view.bib_view
limit 5;
```

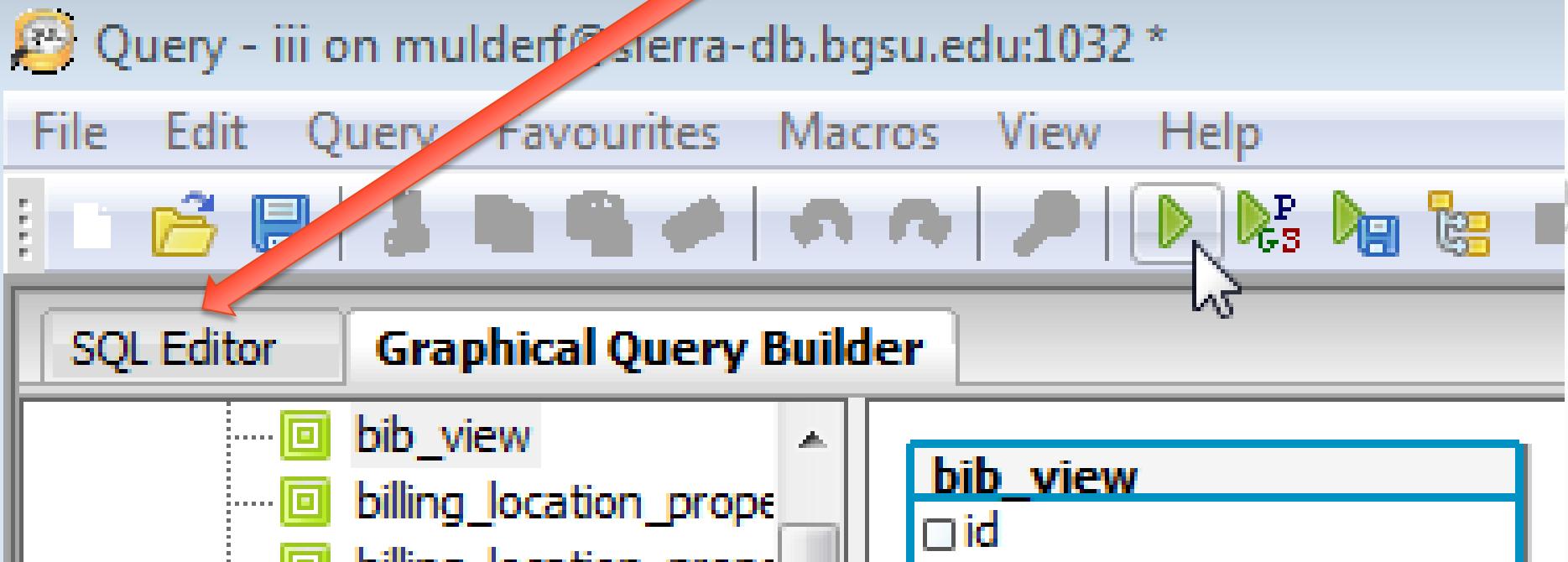
Below the query, there's a progress bar indicating the query is running. The 'Output pane' tab is selected at the bottom, showing the results:

	Best Title
1	In the forest : a portfolio of paintings
2	Women, modernism, and performance
3	The legion of the damned.
4	The economic growth of Hong Kong
5	Social psychology as social process

And you
get a list of
5 titles!

pgAdmin III: LIMIT REVIEW

Click on SQL Editor window.



pgAdmin III: LIMIT REVIEW

SQL Editor Graphical Query Builder

Previous queries

```
SELECT  
    bib_view.title AS "Best Title"  
FROM  
    sierra_view.bib_view  
LIMIT 5;
```

This is an important take away!
DO NOT execute queries without
a limit unless you are sure that is
what you want to do!

SQL Editor Window:

Add limiter

Del “;”

Add:

limit 5;

Then run Query!

pgAdmin III: Save Query

File Edit Query Favourites Macros View Help

New window Ctrl-N

Open... Ctrl-O

Save Ctrl-S

Save as >

- Query (text)
- Graphical Query (image)**
- Explain (image)

Export...

Quick report...

Recent files >

Exit Ctrl-W

- File
- Save as
- **Query (image)**

Will generate an image that you can NOT load and run again!

You will have to add table to Graphical Builder window each time.

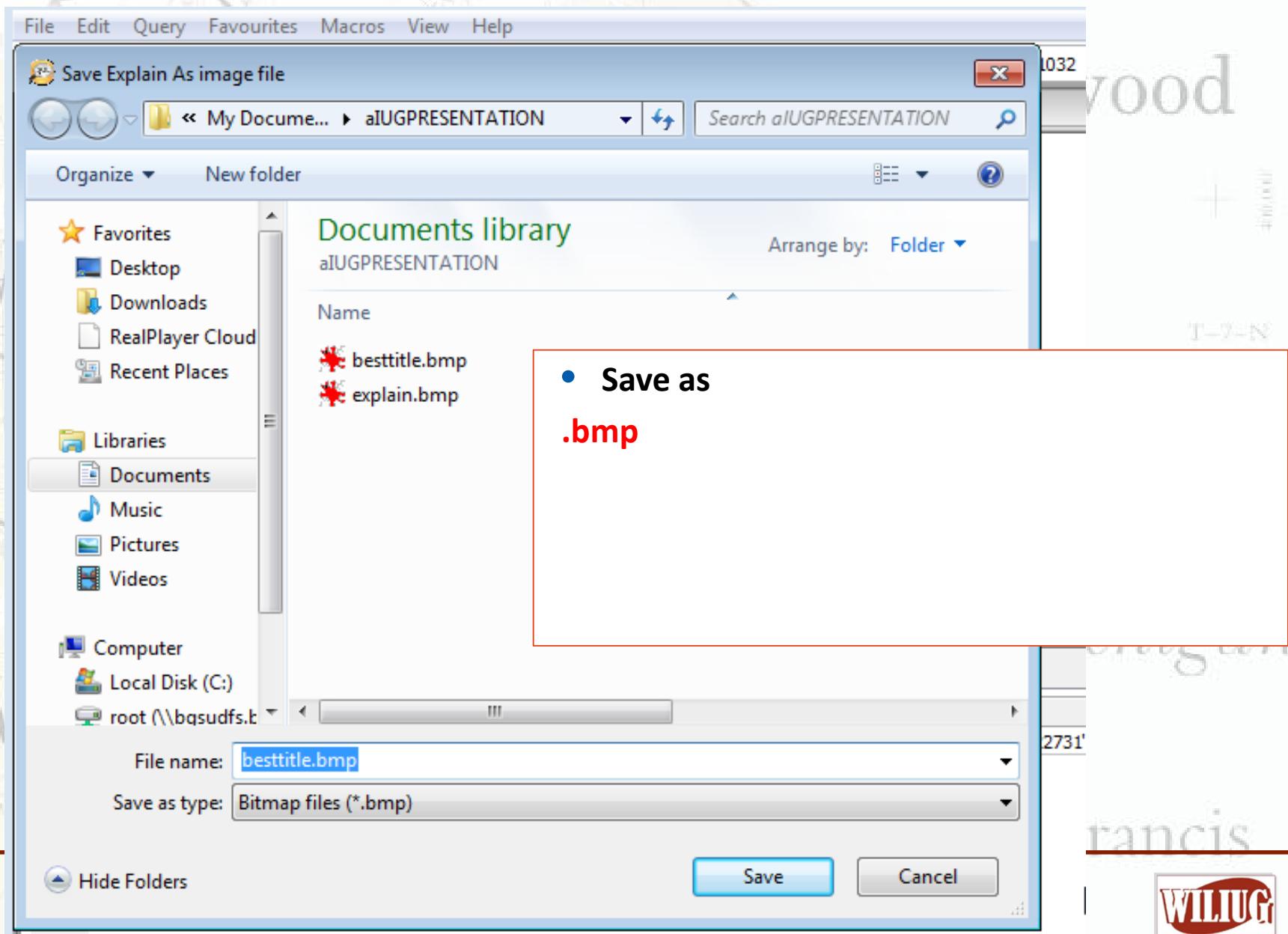
bib_view

- id
- record_type_code
- record_num
- language_code
- bcode1
- bcode2
- bcode3
- country_code
- is_available_at_library
- index_change_count
- allocation_rule_code
- is_on_course_reserve
- is_right_result_exact
- skip_num
- cataloguing_date_gmt
- marc_type_code
- title
- record_creation_date_gmt

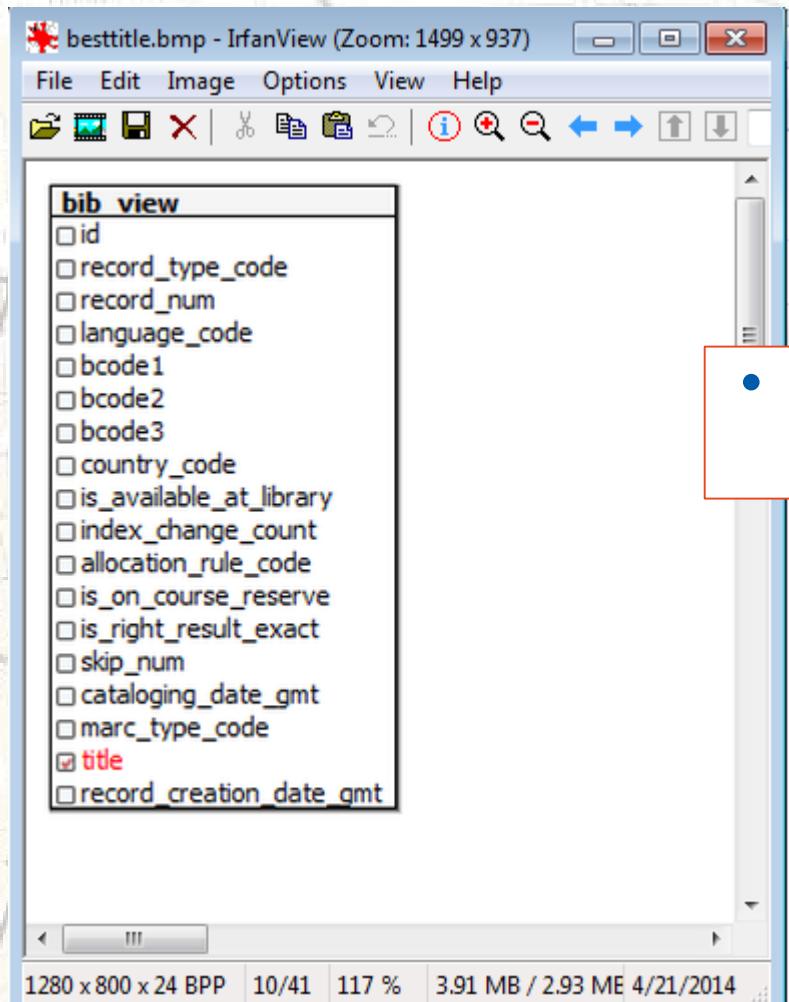
Columns Criteria Ordering Joins

	Restricted Value	Operator	
1	bib_view.record_num	=	'1722731'

pgAdmin III: Save Query

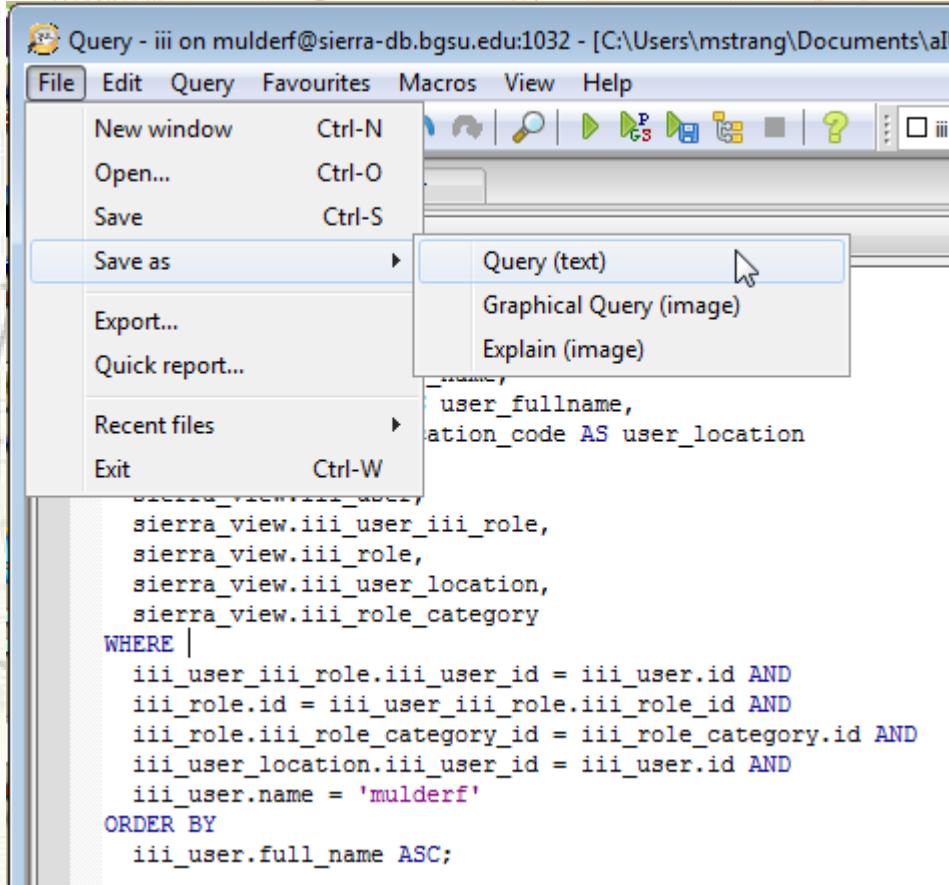


pgAdmin III: Save Query



- Just a .bmp image of Graphical Builder pane.

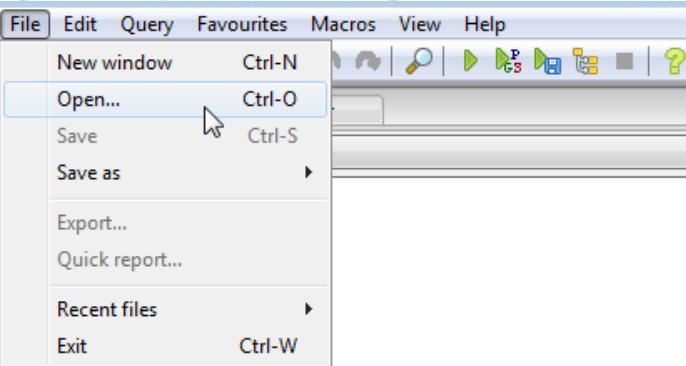
pgAdmin III: Save Query



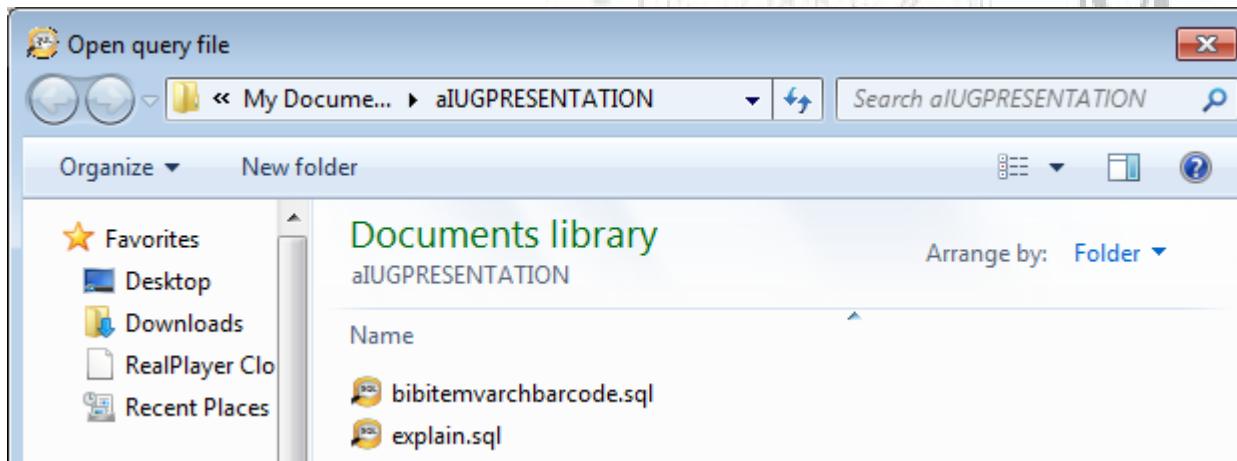
- File
- Save as
- Query (text)

Will generate a saved file you can load and run again

pgAdmin III: Open Saved Query



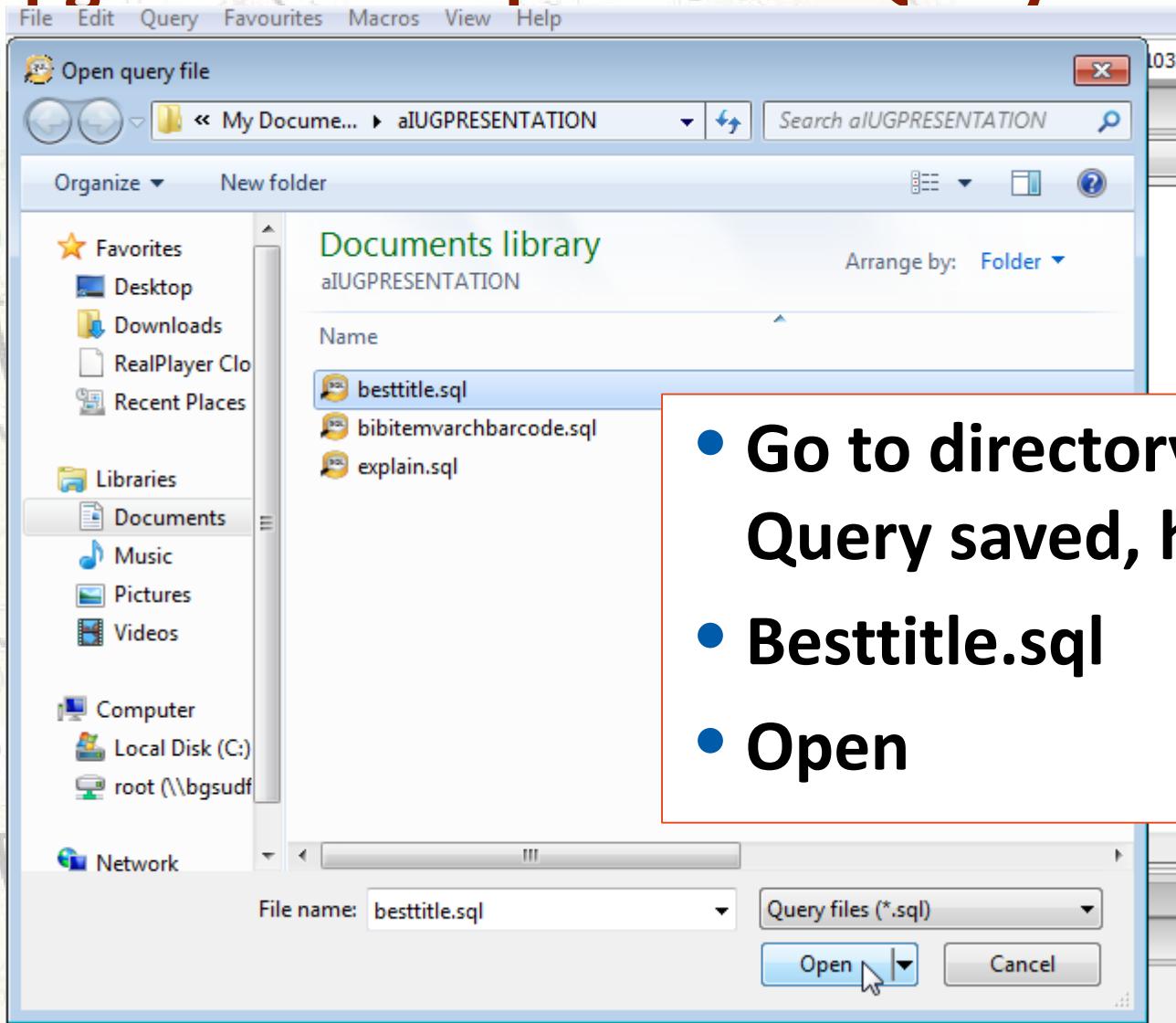
- File => Open
- Go to directory where Query saved, highlight and hit Open



Output pane

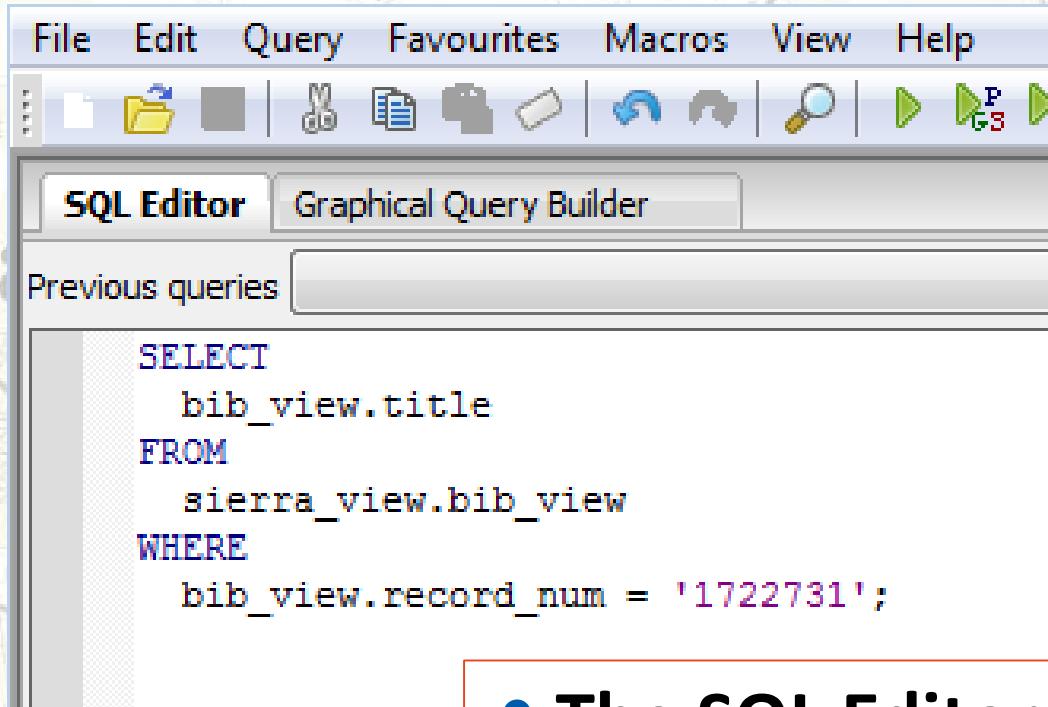
Data Output Explain Messages History

pgAdmin III: Open Saved Query

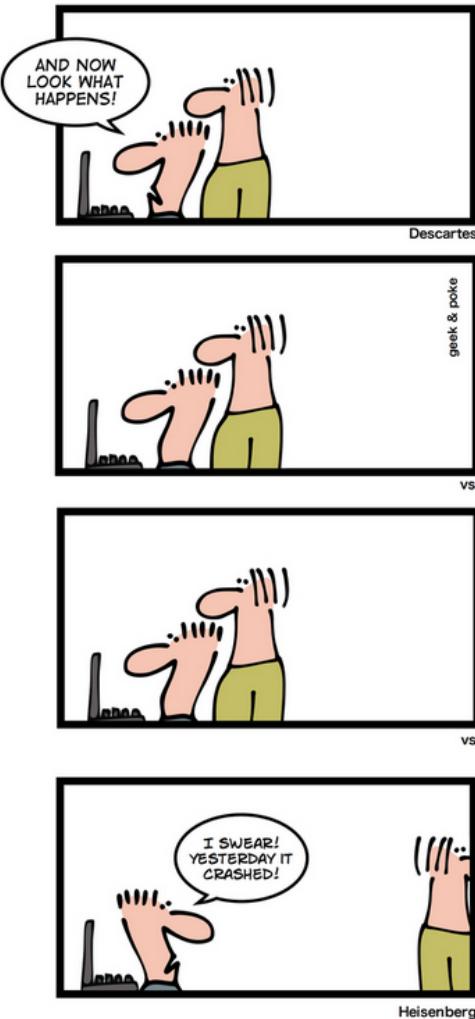


- Go to directory where Query saved, highlight
- Besttitle.sql
- Open

pgAdmin III: Open Saved Query



- The SQL Editor windows has the saved query ready to run!



Questions?

Milwaukee

Lake

Michigan

www.geek-and-poke.com

<http://static.squarespace.com/static/518f5d62e4b075248d6a3f90/t/51c22ff2e4b09c37644db13c/1371680764953/descartes-heisenberg.jpg?format=750w>

St. Francis

T-6-N

Second Query

- Use pgAdmin III to run a query on item information.
- Examine how to connect tables
- Discuss the Innovative checkdigit
- Review varfield_view table data

pgAdmin III: item_view

The screenshot shows the pgAdmin III interface. The title bar reads "pgAdmin III". The menu bar includes "File", "Edit", "Plugins", "View", "Tools", and "Help". Below the menu is a toolbar with various icons. The main area is titled "Object browser". A context menu is open over an entry labeled "item_view". The menu items are:

- Refresh
- SELECT Script
- View Data** (highlighted)
- Reports
- Properties...

Under "View Data", there are four options:

- View Top 100 Rows** (highlighted with a mouse cursor)
- View Last 100 Rows
- View All Rows
- View Filtered Rows...

Text overlay:

PG Admin pane, not
the query pane:
Right click on
item_view
Highlight: View Data
Click View Top 100
Rows

pgAdmin III: item_view

Edit Data - sierra-db.bgsu.edu (sierra-db.bgsu.edu:1032) - iii - sierra_view.item_view

File Edit View Tools Help

100 rows

	id bigint	record_type character(1)	record_num integer	barcode character varying	icode1 integer	icode2 character(1)	itype_code_n smallint	location_code character varying	agency_code smallint	item_status character(1)	is_inherit_loc boolean	price numeric(30,6)
1	45097265780	i	1091722		0	-	0	mmmo	0	-	FALSE	12.450000
2	45097419295	i	2626878		0	s	0	stop	0	k	FALSE	100.000000
3	45097265783	i	1091756		0	-	0	mmmo	0	-	FALSE	100.000000
4	45097265785	i	1091776		0	s	0	stop	0	k	FALSE	100.000000
5	45097265787	i	1091793		0	s	0	stop	0	k	FALSE	100.000000

You are shown data
in this table!

record_type character(1)	record_num integer	barcode character varying	icode1 integer	icode2 character(1)	itype_code_n smallint	location_code character varying
i	1091722		0	-	0	mmmo
i	2626878		0	s	0	stop
i	1091756		0	-	0	mmmo
i	1091776		0	s	0	stop

Note: So far the only place to find the
Sierra item record number is in table:
item_record_view
item_record
Record_metadata



pgAdmin III: item_view

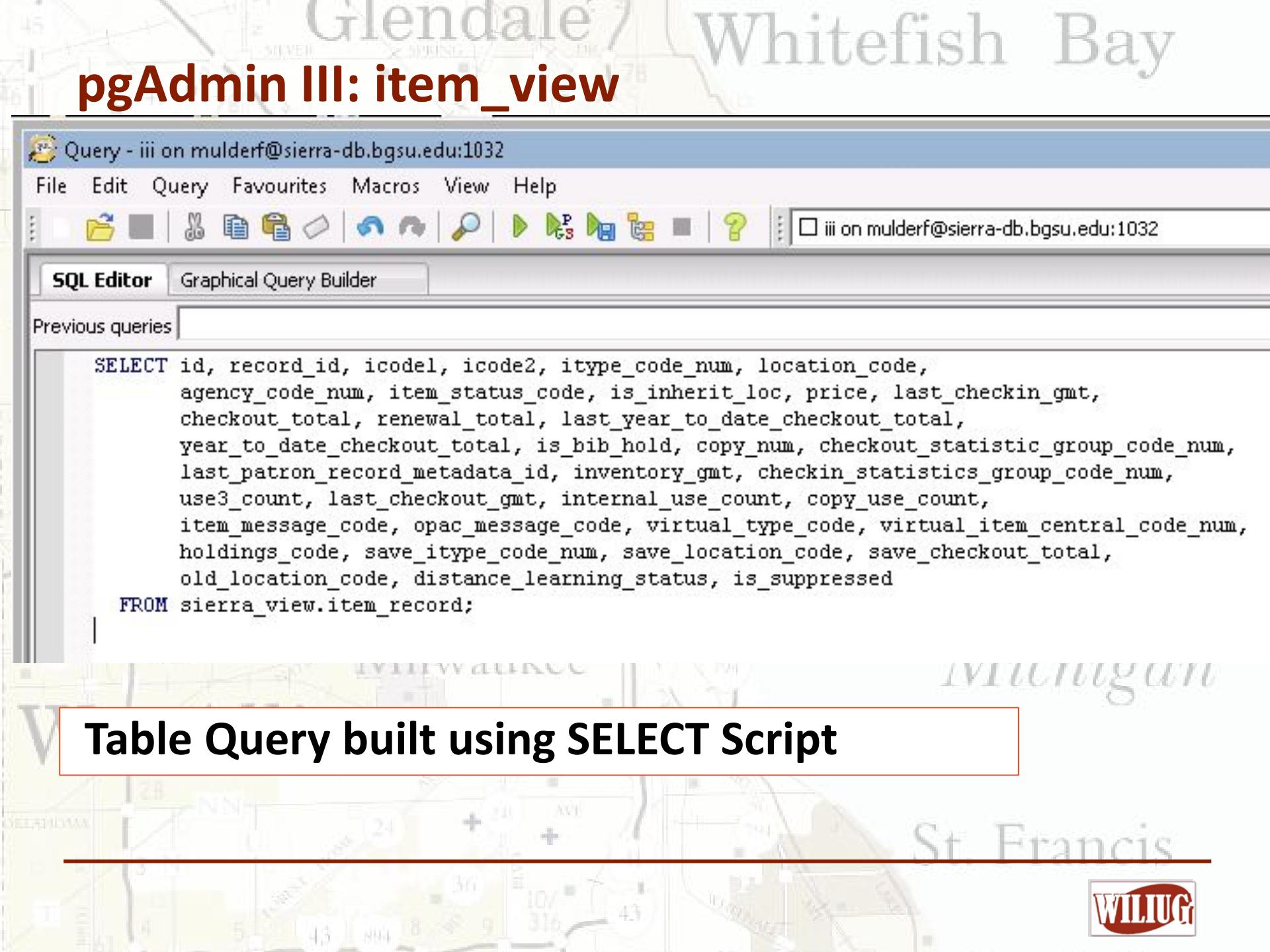
The screenshot shows the pgAdmin III interface. The title bar reads "pgAdmin III". The menu bar includes File, Edit, Plugins, View, Tools, and Help. The toolbar contains icons for connection management, schema refresh, folder, database, search, and various data viewing options. The main window is titled "Object browser". A context menu is open over the "item_view" node in the tree view, listing Refresh, SELECT Script (which is highlighted), View Data, Reports, and Properties... The text "Table Query built using SELECT Script" is overlaid in a red-bordered box. The tree view also lists other nodes like "language_property_myuser", "language_property_name", "leader_field", and "license_record".

- Refresh
- SELECT Script**
- View Data
- Reports
- Properties...

Table Query built using SELECT Script

- + ... item_view
- + ... itype_pro
- + ... language_property_myuser
- + ... language_property_name
- + ... leader_field
- + ... license_record

pgAdmin III: item_view



Query - iii on mulderf@sierra-db.bgsu.edu:1032

File Edit Query Favourites Macros View Help

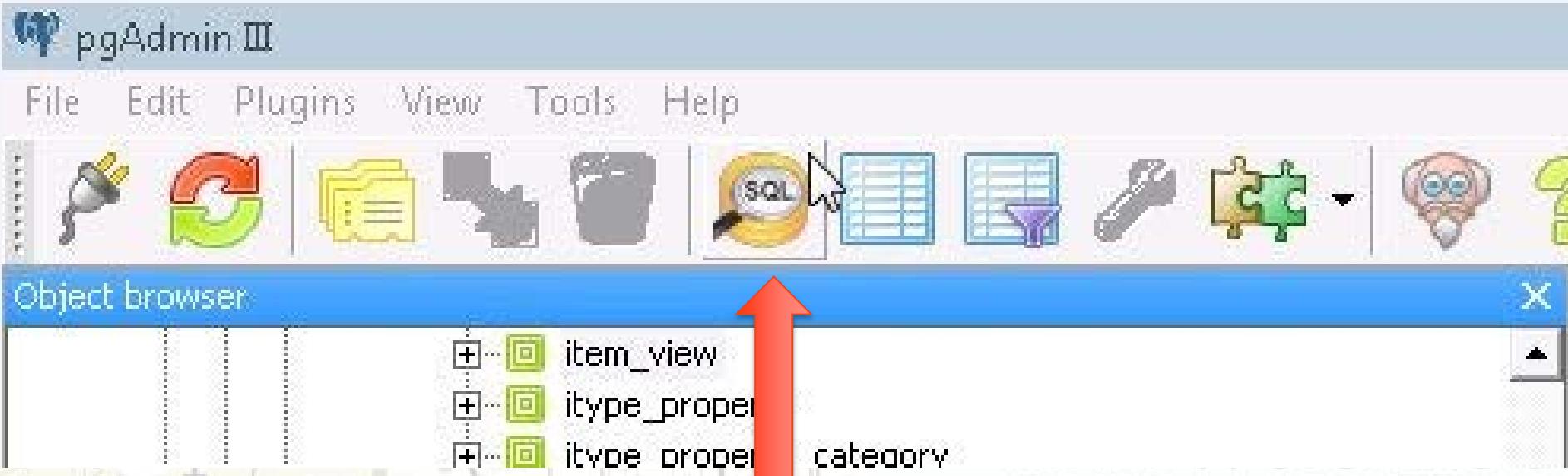
SQL Editor Graphical Query Builder

Previous queries

```
SELECT id, record_id, icode1, icode2, itype_code_num, location_code,
       agency_code_num, item_status_code, is_inherit_loc, price, last_checkin_gmt,
       checkout_total, renewal_total, last_year_to_date_checkout_total,
       year_to_date_checkout_total, is_bib_hold, copy_num, checkout_statistic_group_code_num,
       last_patron_record_metadata_id, inventory_gmt, checkin_statistics_group_code_num,
       use3_count, last_checkout_gmt, internal_use_count, copy_use_count,
       item_message_code, opac_message_code, virtual_type_code, virtual_item_central_code_num,
       holdings_code, save_itype_code_num, save_location_code, save_checkout_total,
       old_location_code, distance_learning_status, is_suppressed
  FROM sierra_view.item_record;
```

Table Query built using SELECT Script

Second Query: item_view table



Click on SQL button to get to the Query Builder

Second Query: item_view table

The screenshot shows a software interface for querying a database. At the top, there's a menu bar with File, Edit, Query, Favourites, Macros, View, Help. Below the menu is a toolbar with various icons. The main area is titled "Graphical Query Builder". On the left, there's a tree view of database objects, with "item_view" selected and highlighted by a red arrow. To the right of the tree view is a detailed list of columns for the "item_view" table, each preceded by a checkbox.

checkbox	column name
<input type="checkbox"/>	id
<input type="checkbox"/>	record_type_code
<input type="checkbox"/>	record_num
<input type="checkbox"/>	barcode
<input type="checkbox"/>	icode1
<input type="checkbox"/>	icode2
<input type="checkbox"/>	itype_code_num
<input type="checkbox"/>	location_code
<input type="checkbox"/>	agency_code_num
<input type="checkbox"/>	item_status_code
<input type="checkbox"/>	is_inherit_loc
<input type="checkbox"/>	price
<input type="checkbox"/>	last_checkin_gmt
<input type="checkbox"/>	checkout_total
<input type="checkbox"/>	renewal_total
<input type="checkbox"/>	last_year_to_date_checkout_total
<input type="checkbox"/>	year_to_date_checkout_total
<input type="checkbox"/>	is_bib_hold
<input type="checkbox"/>	copy_num
<input type="checkbox"/>	checkout_statistic_group_code_num

- click
- + item_view
- And table opens in Graphical Query Builder window

- Detailed View:
 - [http://techdocs.iii.com/sierra/Home,\\$DirectLink.sdir?sp=SIItem](http://techdocs.iii.com/sierra/Home,$DirectLink.sdir?sp=SIItem)
- ERD View:
 - <http://techdocs.iii.com/sierra/Home,switchToERDVie w.sdirect?sp=SIItem>

Second Query: item_view table

The screenshot shows the SAP ERP Object Browser interface. On the left, a tree view lists various database objects under the node 'iii'. On the right, the 'Properties' tab of the 'item_view' object is displayed, showing its type as 'View'. A red arrow points to the 'item_view' entry in the list.

- Object browser
- iii
- + iii_role
- + iii_role_category
- + iii_role_category_name
- + item_record_line
- + invoice_record_vendor_summary
- + invoice_view
- + item_circ_history
- + item_record
- + item_record_property
- + item_status_property
- + item_status_property_myuser
- + item_status_property_name
- + item_view ←
- + itype_property
- + itype_property_category
- + itype_property_category_myuser
- + itype_property_category_name
- + itype_property_myuser
- + itype_property_name
- + location_change
- + location_myuser
- + location_name
- + location_property_type

- + item_view
- Detailed View:
 - [http://techdocs.iii.com/sie_rradna/Home,\\$DirectLink.sdirect?sp=SIItem](http://techdocs.iii.com/sie_rradna/Home,$DirectLink.sdirect?sp=SIItem)
- ERD View:
 - http://techdocs.iii.com/sie_rradna/Home,switchToERDView.sdirect?sp=SIItem

Second Query: item_view table

item_view
<input type="checkbox"/> id
<input type="checkbox"/> record_type_code
<input type="checkbox"/> record_num
<input type="checkbox"/> barcode
<input type="checkbox"/> icode1
<input type="checkbox"/> icode2
<input type="checkbox"/> itype_code_num
<input type="checkbox"/> location_code
<input type="checkbox"/> agency_code_num
<input type="checkbox"/> item_status_code
<input type="checkbox"/> is_inherit_loc
<input type="checkbox"/> price
<input type="checkbox"/> last_checkin_gmt
<input type="checkbox"/> checkout_total
<input type="checkbox"/> renewal_total
<input type="checkbox"/> last_year_to_date_checkout_total

Note: The only place to find the Sierra item record number is in table:

item_record_view
item_record
Record_metadata

- Familiar fields
 - record_num
 - Barcode
 - Price
 - checkout_total
 - renewal_total
- Detailed View:
[http://techdocs.iii.com/sierradn/a/Home,\\$DirectLink.sdirect?sp=SIItem](http://techdocs.iii.com/sierradn/a/Home,$DirectLink.sdirect?sp=SIItem)
- ERD View:
<http://techdocs.iii.com/sierradn/a/Home,switchToERDView.sdirect?sp=SIItem>

Second Query: Techdocs Detailed View

item_view

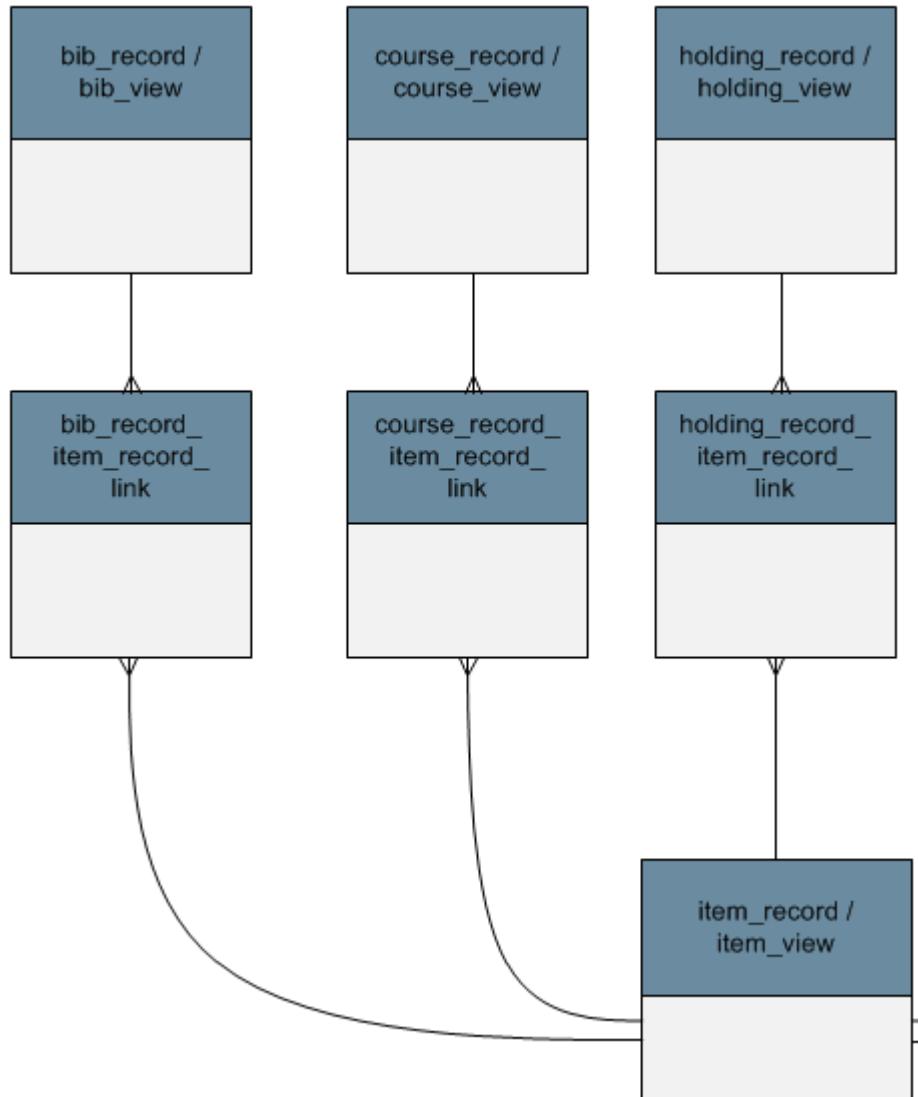
- Techdocs: Detailed View:

- [http://techdocs.iii.com/sierradna/Home,\\$DirectLink.sdirect?sp=SIItem](http://techdocs.iii.com/sierradna/Home,$DirectLink.sdirect?sp=SIItem)

Each row of item_view includes metadata and data for one item record. The contents include identification and circu

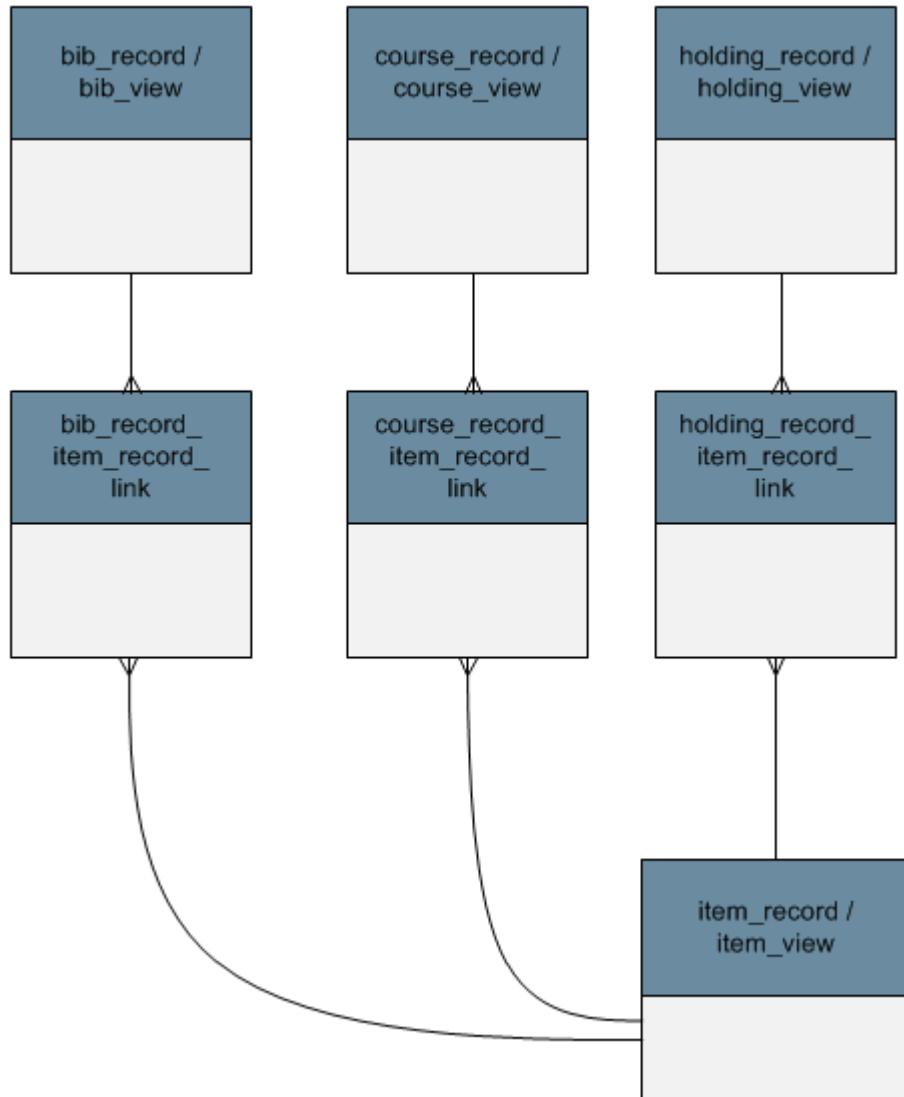
Column	Data Type	Not NULL?	Comment
id	bigint	false	System-generated sequential ID.
record_type_code	char	false	Record type code, i.e., 'I'.
record_num	int	false	Record number.
barcode	varchar	false	The item's barcode.
icode1	int	false	The library determines the name and
icode2	char	false	The library determines the name and

Second Query: Techdocs ERD



- **ERD View: (Entity Relationship Diagram)**
- <http://techdocs.iii.com/sierradna/Home,switchToERDView.sdirect?sp=SIItem>
- An entity-relationship diagram is a **data modeling** technique that creates a graphical representation of the entities, and the relationships between entities, within an information system. ([View diagram](#).)
- <http://searchcrm.techtarget.com/definition/entity-relationship-diagram>

Second Query: Techdocs ERD



A connection of interest to most librarians would be the connection between the item record barcode and the bibliographic record title that we see in Sierra all the time.

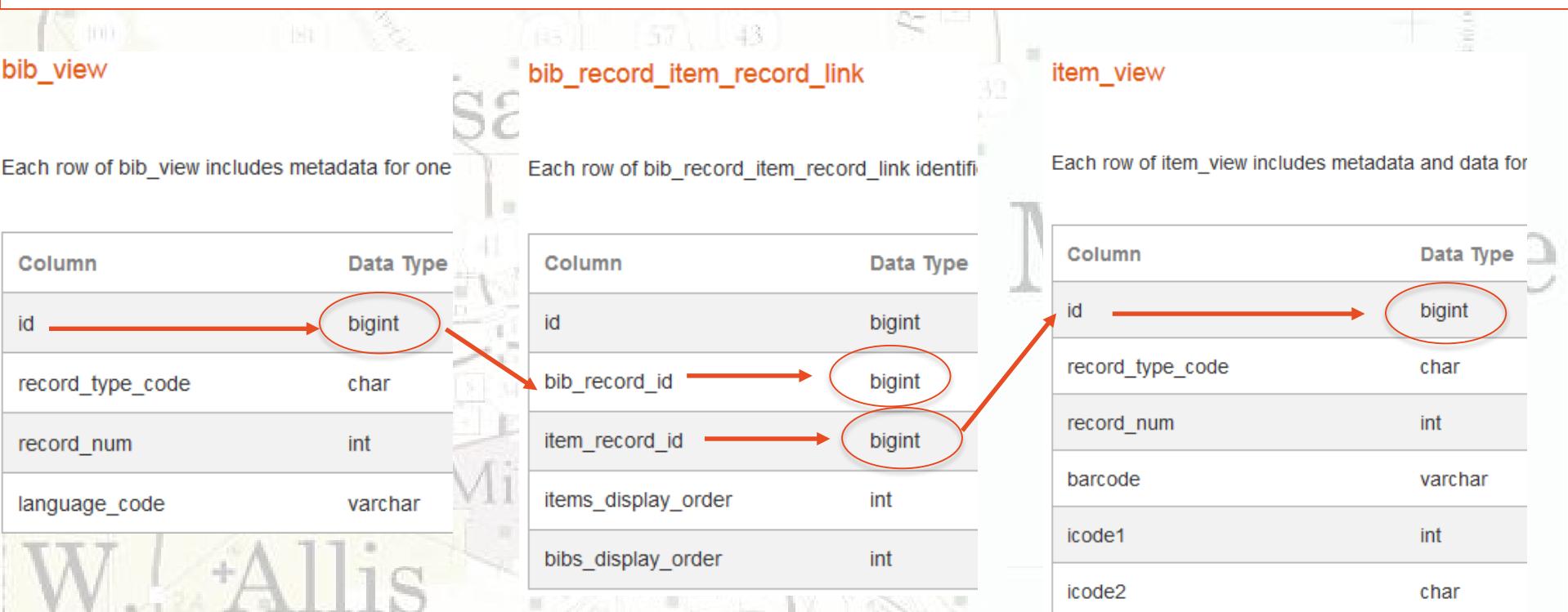
item record table
Item_view

Connects to table:
Bib_record_item_record_link

Which connects to:
bib_record

Second Query: Techdocs Detailed View

- Data Type
- In order to connect table the Primary Key Data Type must match!
- (unless you get into advanced features like casting)



pgAdmin III: Connecting tables

- ... bib_record_nothing_record_link
- ... bib_record_item_record_link ←
- ... bib_record_location
- ... bib_record_order_record_link
- ... bib_record_property
- ... bib_record_volume_record_link
- ... bib_view ←
- ... billing_location_property
- ... billing_location_property_myuser
- ... billing_location_property_name
- ... booking

bib record item record link
<input type="checkbox"/> id
<input type="checkbox"/> bib_record_id
<input type="checkbox"/> item_record_id
<input type="checkbox"/> items_display_order
<input type="checkbox"/> bibs_display_order

bib view
<input type="checkbox"/> id
<input type="checkbox"/> record_type_code
<input type="checkbox"/> record_num

item view
<input type="checkbox"/> id
<input type="checkbox"/> record_type_code
<input type="checkbox"/> record_num
<input type="checkbox"/> barcode
<input type="checkbox"/> icode1
<input type="checkbox"/> icode2
<input type="checkbox"/> itype_code_num
<input type="checkbox"/> location_code
<input type="checkbox"/> agency_code_num
<input type="checkbox"/> item_status_code
<input type="checkbox"/> is inherit loc

- Double click on all the tables you want:
- And they show up in window to right
- bib_view
- item_view
- bib_record_item_record_link

pgAdmin III: Connecting tables

bib_record_item_record_link	
<input type="checkbox"/>	id
<input type="checkbox"/>	bib_record_id
<input type="checkbox"/>	item_record_id
<input type="checkbox"/>	items_display_order
<input type="checkbox"/>	bibs_display_order

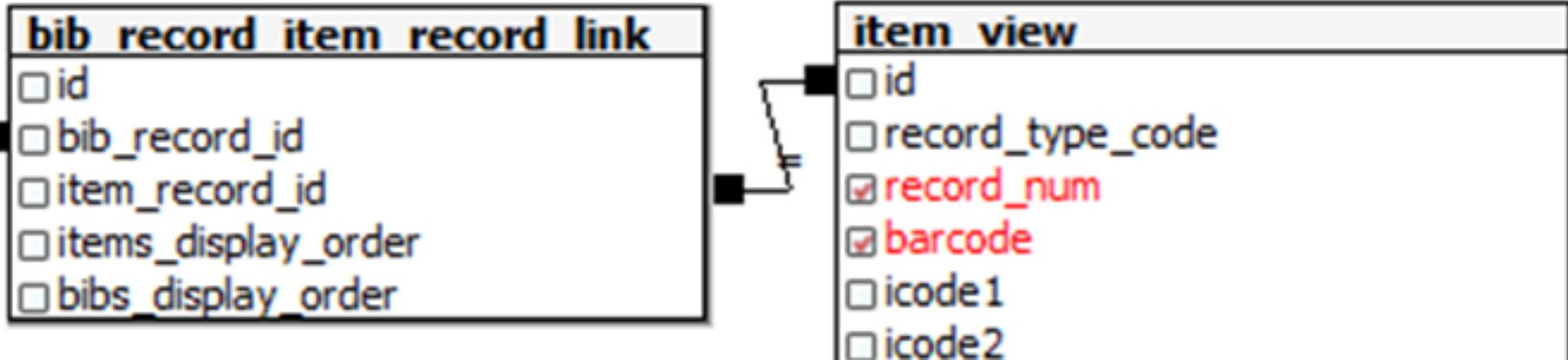
- click above the text **bib_record_id**
- And blue lines appear

bib_view	
<input type="checkbox"/>	id
<input type="checkbox"/>	record_type_code
<input type="checkbox"/>	record_num
<input type="checkbox"/>	language_code
<input type="checkbox"/>	bcode1
<input type="checkbox"/>	bcode2
<input type="checkbox"/>	bcode3

bib_record_item_record_link	
<input type="checkbox"/>	id
<input type="checkbox"/>	bib_record_id
<input type="checkbox"/>	item_record_id
<input type="checkbox"/>	items_display_order
<input type="checkbox"/>	bibs_display_order

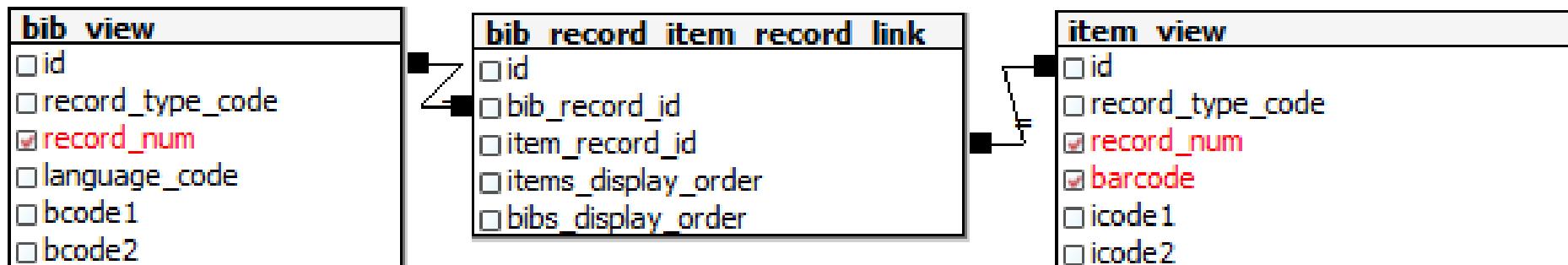
- Drag the blue lines to connect:
- Table: **bib_record_item_record_link**
- Field: **bib_record_id**
with
- Table: **bib_view**
- Field: **id**

pgAdmin III: Connecting tables



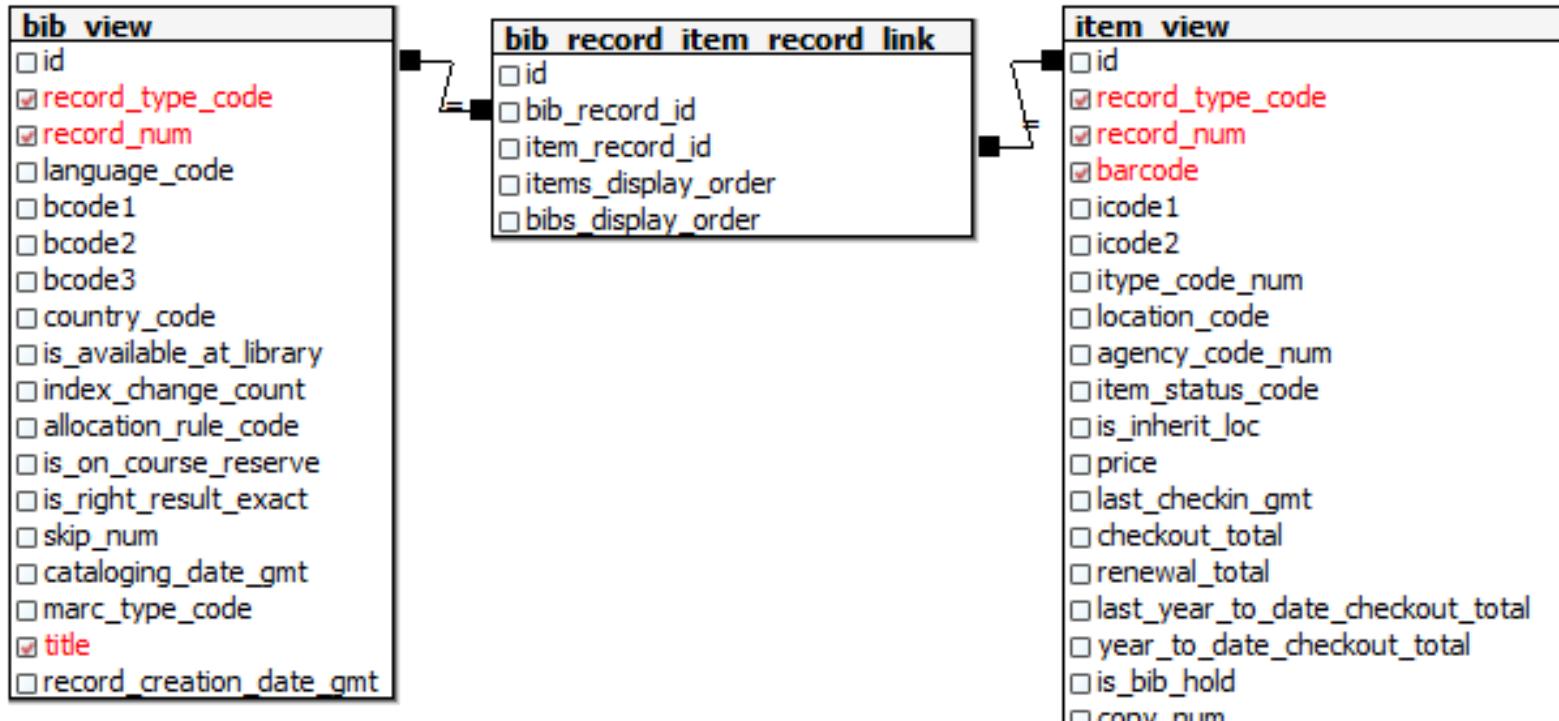
- Next click on
table: **bib_record_item_record_link**
field: **item_record_id**
- And connect blue line to
Table: **item_view**
Field: **id**

pgAdmin III: Connecting tables



- In table **bib_view** checkmark:
 - record_type_code
 - record_num
 - title
- In table **item_view**
 - record_type_code
 - record_num
 - barcode

pgAdmin III: Connecting tables



SQL Editor

Graphical Query Builder

click on SQL Editor tab: Answer Yes to changes.

pgAdmin III: Connecting tables

The background of the slide features a faint map of a geographic area with various place names visible in a light gray font, including Glendale, Whitefish Bay, Wood,aukee, chigan, and Francis.

```
SQL Editor Graphical Query Builder
Previous queries
SELECT
    bib_view.title,
    bib_view.record_type_code,
    bib_view.record_num,
    item_view.record_type_code,
    item_view.record_num,
    item_view.barcode
FROM
    sierra_view.bib_view,
    sierra_view.bib_record_item_record_link,
    sierra_view.item_view
WHERE
    bib_record_item_record_link.bib_record_id = bib_view.id AND
    bib_record_item_record_link.item_record_id = item_view.id;
```

In the SQL Editor screen

Delete the ";" after

`bib_view.id=bib_record_item_record_link.bib_record_id;`

And on the next line add

`Limit 5;`

pgAdmin III: Connecting tables

```
SELECT  
    bib_view.title,  
    bib_view.record_type_code,  
    bib_view.record_num,  
    item_view.record_type_code,  
    item_view.record_num,  
    item_view.barcode  
  
FROM  
    sierra_view.bib_view,  
    sierra_view.bib_record_item_record_link,  
    sierra_view.item_view  
  
WHERE  
    bib_record_item_record_link.bib_record_id = bib_view.id AND  
    bib_record_item_record_link.item_record_id = item_view.id  
    limit 5;
```

Click on run button.



pgAdmin III: Connecting tables

	title character varying(1000)	rec char	record_num integer	rec char	record_num integer	barcode character varying(1000)
1	The contest in Ameri	b	1065405	i	1091722	
2	Works	b	1493621	i	2626878	
3	Four days in July; t	b	1065433	i	1091756	
4	Catholics and the Am	b	1065449	i	1091776	
5	France in the Americ	b	2298147	i	1091793	

The Data Output we get is not what we expected! Why?

The first record_num integer is from the bib record

and it is the Sierra bibliographic record number without the check digit!

The second record_num integer is the Sierra item record number without the check digit!

Let's look in Sierra!

pgAdmin III: Connecting tables

`bib_record_item_record_link.item_record_id = item_view.id`

When you see a query written with an = joining two tables it is an: IMPLIED JOIN

Other Joins are:

INNER JOIN

OUTER JOIN

LEFT OUTER JOIN

RIGHT OUTER JOIN

FULL OUTER JOIN

CROSS JOIN or (Cartesian Join = Don't use b/c every possible combination of rows will be made.)

<http://www.postgresql.org/docs/9.2/static/queries-table-expressions.html>

pgAdmin III: Connecting tables

	title character varying(1000)	rec char	record_num integer	rec char	record_num integer	barcode character varying(1000)
1	The contest in Ameri	b	1065405	i	1091722	
2	Works	b	1493621	i	2626878	
3	Four days in July; t	b	1065433	i	1091756	
4	Catholics and the Am	b	1065449	i	1091776	
5	France in the Americ	b	2298147	i	1091793	

The Data Output we get is not what we expected! Why?

The first record_num integer is from the bib record

and it is the Sierra bibliographic record number without the check digit!

The second record_num integer is the Sierra item record number without the check digit!

Let's look in Sierra!

pgAdmin III: checkdigit

Sierra Documentation:

http://csdirect.iii.com/sierrahelp/Default.htm#sril_records_numbers.html?Highlight=check%20digit

Scroll to bottom of page for explanation of using the a to replace check digit in searching

Check Digits

Check digits may be any one of 11 possible digits (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, or x).

The check digit is calculated as follows:

1. Multiply the rightmost digit of the record number by 2, the next digit to the left by 3, the next by 4, etc., and total the products. For example:

$$\begin{array}{r} 1 \ 0 \ 2 \ 4 \ 3 \ 6 \ 4 \\ | \quad | \quad | \quad | \quad | \quad | \\ | \quad | \quad | \quad | \quad 4 * 2 = 8 \\ | \quad | \quad | \quad | \quad 6 * 3 = 18 \\ | \quad | \quad | \quad | \quad 3 * 4 = 12 \\ | \quad | \quad | \quad | \quad 4 * 5 = 20 \\ | \quad | \quad | \quad | \quad 2 * 6 = 12 \\ | \quad | \quad | \quad | \quad 0 * 7 = 0 \\ | \quad | \quad | \quad | \quad 1 * 8 = 8 \\ \hline & & & & & 78 \end{array}$$



2. Divide the total by 11 and retain the remainder (for example, 78 / 11 is 7, with a remainder of 1). The remainder after the division is the check digit. If the remainder is 10, the letter x is used as the check digit.

When searching for a record number, if you don't know the check digit, you can substitute the character a for the check digit. For example, you could enter the record number above as .b1024364a.

For example, you could enter the record number above as .b1024364a

pgAdmin III: checkdigit

The output number is: 1065405

Use the .RECORD # search

Add a “b” since we know it is a bib record

At the end add the “a”

“a” at the end functions as single digit wildcard in Sierra and Millennium!

sierra

Browse

. RECORD # Search Local

b10654057

AUTHOR Mitchell, John, 1711-1768

TITLE The contest in America between Great Britain and France, with its consequences and importance

pgAdmin III: checkdigit

The output number is: 1091722

Use the .RECORD # search

Add a “i” since we know it is an item record

At the end add the “a”

“a” at the end functions as single digit wildcard in Sierra and Millennium!

Browse . RECORD # ▾ i1091722a Search + Local ▾

Record

Not checked out
i10917226 Last Updated: 07-21-2011 Created: 05-06-1992 Revisions: 30

COPY #	1	IN L
ICODE1	0	# R
ICODE2	- display all	# O
I TYPE	0 monograph	ODI
PRICE	\$12.45	IUS

WILLUG

pgAdmin III: Connecting Tables

	title character varying(1000)	re- ch	record_num integer	re- ch	record_num integer	barcode character varying(1000)
1	The contest in Ameri- b	b	1065405	i	1091722	
2	Works	b	1493621	i	2626878	
3	Four days in July; t b	b	1065433	i	1091756	
4	Catholics and the Am b	b	1065449	i	1091776	
5	France in the Americ b	b	2298147	i	1091793	

What happened with the item record barcode column?

pgAdmin III: Connecting Tables

item_view

Each row of item_view includes metadata and data for one item record. The contents include identific

Column	Data Type	Not NULL?	Comment
id	bigint	false	System-generated serial number.
record_type_code	char	false	Record type code, i.e., I
record_num	int	false	Record number.
barcode	varchar	false	The item's barcode

Lets look at the SierraDNA to find the barcode

[http://techdocs.iii.com/sierradna/Home,\\$DirectLink.sdirect?sp=SIItem](http://techdocs.iii.com/sierradna/Home,$DirectLink.sdirect?sp=SIItem)

And look at the item_view

We are told this is Data Type is varchar and we will have to add this table data.

pgAdmin III: Connecting Tables

A varchar or Variable Character Field is a set of character data of indeterminate length. The term varchar refers to a data type of a field (or column) in a database management system which can hold letters and numbers. Varchar fields can be of any size up to a limit, which varies by databases:

<http://en.wikipedia.org/wiki/VARCHAR>

pgAdmin III: varfield_view

varfield_view

Each row of varfield_view includes metadata and field content for one variable-length field of one record.

Column	Data Type	Not NULL?	Comment																										
id	bigint	false	System-generated sequential ID.																										
record_id	bigint	false	Foreign key to record.																										
record_type_code	char	false	Record type code. <table border="1"><thead><tr><th>STD CODE</th><th>RECORD TYPE</th></tr></thead><tbody><tr><td>a</td><td>AUTHORITY</td></tr><tr><td>b</td><td>BIBLIOGRAPHIC</td></tr><tr><td>c</td><td>HOLDINGS (CHECKIN)</td></tr><tr><td>e</td><td>RESOURCE</td></tr><tr><td>i</td><td>ITEM</td></tr><tr><td>l</td><td>LICENSE</td></tr><tr><td>n</td><td>INVOICE</td></tr><tr><td>o</td><td>ORDER</td></tr><tr><td>p</td><td>PATRON</td></tr><tr><td>r</td><td>COURSE</td></tr><tr><td>t</td><td>CONTACT</td></tr><tr><td>v</td><td>VENDOR</td></tr></tbody></table>	STD CODE	RECORD TYPE	a	AUTHORITY	b	BIBLIOGRAPHIC	c	HOLDINGS (CHECKIN)	e	RESOURCE	i	ITEM	l	LICENSE	n	INVOICE	o	ORDER	p	PATRON	r	COURSE	t	CONTACT	v	VENDOR
STD CODE	RECORD TYPE																												
a	AUTHORITY																												
b	BIBLIOGRAPHIC																												
c	HOLDINGS (CHECKIN)																												
e	RESOURCE																												
i	ITEM																												
l	LICENSE																												
n	INVOICE																												
o	ORDER																												
p	PATRON																												
r	COURSE																												
t	CONTACT																												
v	VENDOR																												

record_num int false Record number.

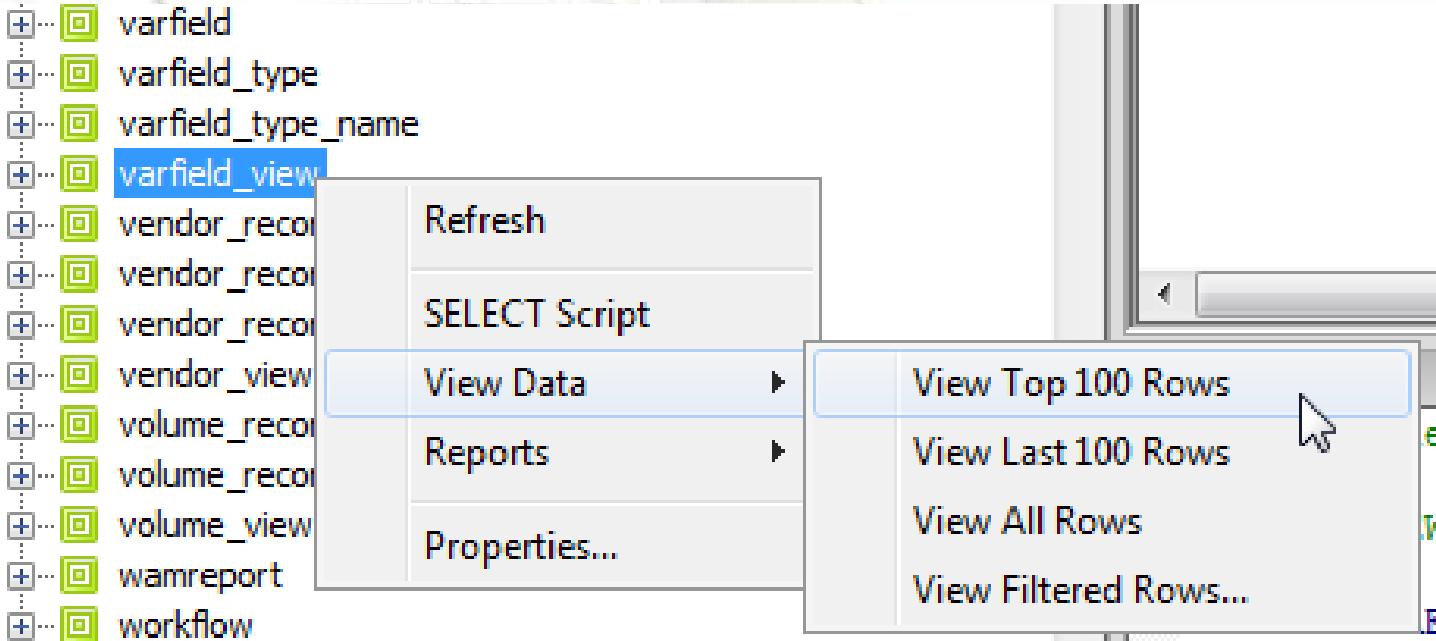
Lets look at the SierraDNA to find the barcode

[http://techdocs.iii.com/sierradna/Home,\\$DirectLink.sdirect?sp=SIItem](http://techdocs.iii.com/sierradna/Home,$DirectLink.sdirect?sp=SIItem)

And look at the varfield_view

I just know that for item record barcodes can be hidden in varfield_view as well.

pgAdmin III: varfield_view



Right click on
varfield_view
Highlight: View Data
Click View Top 100
Rows

pgAdmin III: varfield_view

The screenshot shows the pgAdmin III interface. On the left, there's a tree view with several database objects like 'varfield', 'varfield_type', etc. In the center, a table named 'varfield_view' is displayed. A context menu is open over the table, with the 'View Data' option expanded. The 'View Top 100 Rows' option is highlighted with a blue box and a cursor arrow pointing to it. Other options in the submenu include 'View Last 100 Rows', 'View All Rows', and 'View Filtered Rows...'. The background shows a faint watermark of a map.

You are shown data
in this table!

id bigint	record_id bigint	record_type character(1)	record_num integer	varfield_type character(1)	marc_tag character var	marc_ind1 character(1)	marc_ind2 character(1)	occ_num integer	field_content character varying(20001)
16347499	42090851773	b	1722731	i	020			1	a0688091385 (lib. bdg.)
16347498	42090851773	b	1722731	i	020			0	a0688081622 : c\$13.95
16347497	42090851773	b	1722731	y	092			3	a759.13 bA76i
16347496	42090851773	b	1722731	Y	049			2	aBGU
16347495	42090851773	b	1722731	Y	040			1	aDLC cDLC dBGU
16347494	42090851773	b	1722731	Y	005			0	19900828132459.0
16347493	42090851773	b	1722731	l	010			0	a89002341 /AC
16347490	42090851773	b	1722731	o	001			0	19354653
16347488	42090851773	b	1722731	n	520			1	aThe noted artist presents
16347486	42090851773	b	1722731	n	500			0	a\$13.88
16347483	42090851773	b	1722731	a	100	1	0	0	aArnosky, Jim
16347481	42090851773	b	1722731	p	260	0		0	aNew York : bLothrop, Lee
16347479	42090851773	b	1722731	r	300			0	a28 p. : bcol. ill. ; c22
16347477	42090851773	b	1722731	t	245	1	0	0	aIn the forest : ba portf
16347473	42090851773	b	1722731	d	650		0	1	aEcology xPictorial works
16347475	42090851773	b	1722731	e	250			0	alst ed
16347472	42090851773	b	1722731	d	650		0	0	aForest ecology xPictoria
33708258	42090950453	b	2709531	i	020			0	a0521837804
33708257	42090950453	b	2709531	y	082	0	0	6	a792/.082/094034 222
33708256	42090950453	b	2709531	Y	049			5	aBGU

pgAdmin III: varfield_view

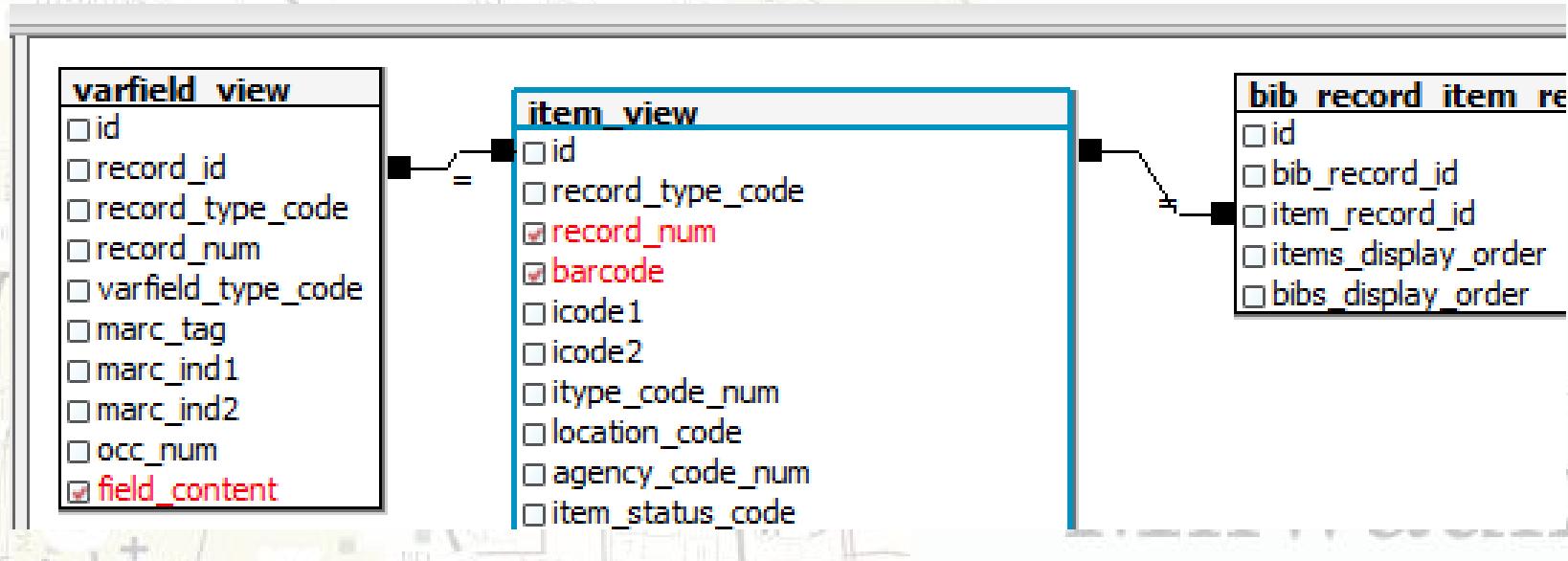
L Editor Graphical Query Builder

The screenshot shows the pgAdmin III interface with the 'Graphical Query Builder' tab active. On the left, a tree view lists various database objects, with 'varfield_view' selected and highlighted in blue. To the right, a detailed view of the 'varfield_view' table is shown, listing its columns: id, record_id, record_type_code, record_num, varfield_type_code, marc_tag, marc_ind1, marc_ind2, occ_num, and field_content.

varfield_view	
<input type="checkbox"/>	id
<input type="checkbox"/>	record_id
<input type="checkbox"/>	record_type_code
<input type="checkbox"/>	record_num
<input type="checkbox"/>	varfield_type_code
<input type="checkbox"/>	marc_tag
<input type="checkbox"/>	marc_ind1
<input type="checkbox"/>	marc_ind2
<input type="checkbox"/>	occ_num
<input type="checkbox"/>	field_content

- Double click on **varfield_view** to add table.

pgAdmin III: varfield_view



- Connect the **varfield_view record_id**
- To the **item_view id**
- And run

pgAdmin III: varfield_view

SQL Editor text:

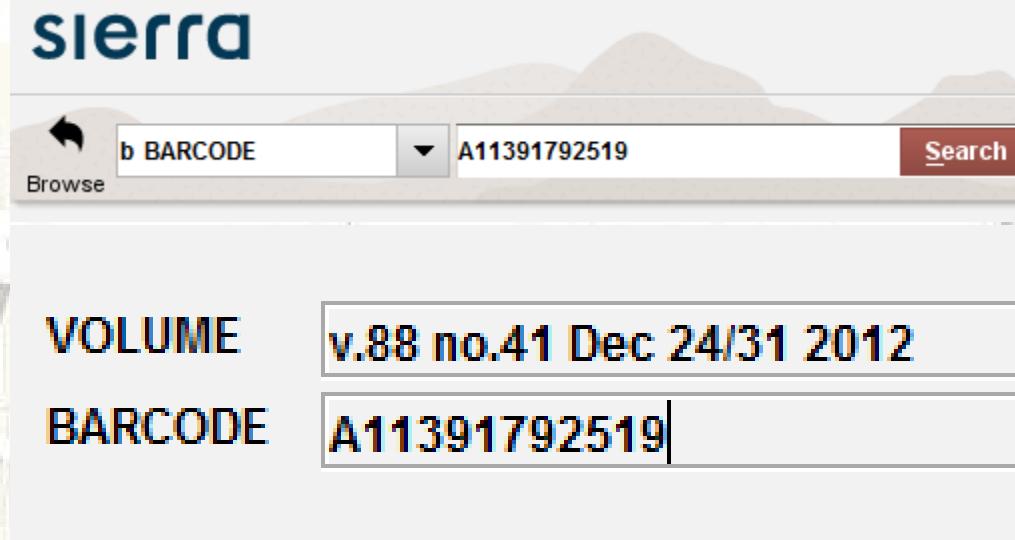
```
SELECT  
    bib_view.title,  
    bib_view.record_num,  
    item_view.barcode,  
    item_view.record_num,  
    varfield_view.field_content  
FROM  
    sierra_view.item_view,  
    sierra_view.bib_view,  
    sierra_view.bib_record_item_record_link,  
    sierra_view.varfield_view  
WHERE  
    item_view.id = bib_record_item_record_link.item_record_id AND  
    bib_view.id = bib_record_item_record_link.bib_record_id AND  
    varfield_view.record_id = item_view.id  
limit 20;  ← Notice I added the limit!
```

pgAdmin III: varfield_view

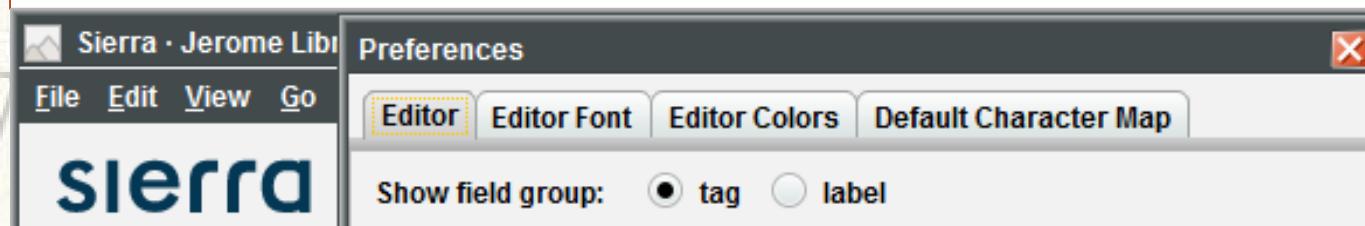
6	The Chronicle of higher education	1819320		4551270 v.59 no.17 Dec 21 201
7	The Chronicle of higher education	1819320		4551270 A11391792683
8	The New Yorker	1040169		4551253 v.88 no.41 Dec 24/31
9	The New Yorker	1040169		4551253 A11391792519
10	Dil [sound recording]	3575785	A11359111660	4706240 A11359111660
11	Dil [sound recording]	3575785	A11359111660	4706240 aCD Philadelphia Sli

- Now we get data, but we get two or more entries of varchar data per record.
 - The New Yorker
 - V.88 no.41 Dec 24/31
 - A11391792519
 - Why?

pgAdmin III: varfield_view

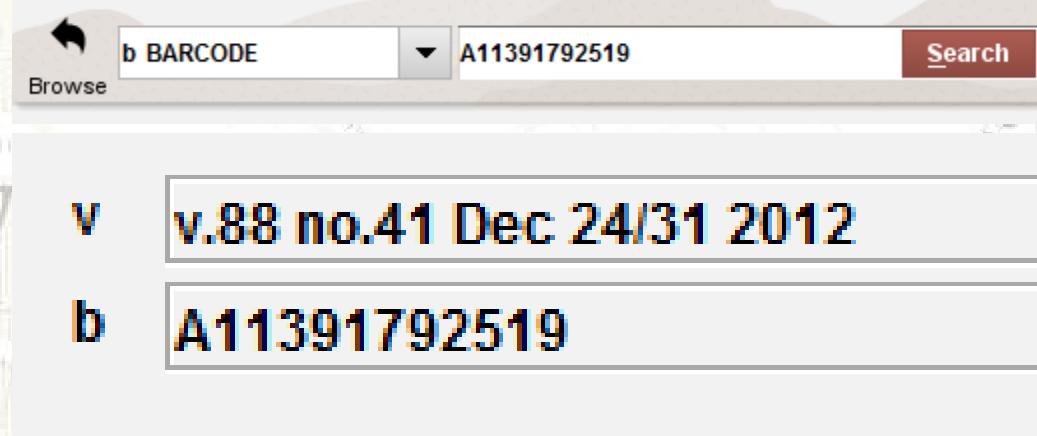


- To find out the tags of these fields
- In Sierra: Edit => Preferences => Editor tab
- Show field group: change from label to tag:



pgAdmin III: varfield_view

sierra



- Since we are only interested in the in b tagged field for the barcode, we can add that limit to our criteria

pgAdmin III: varfield_view

- For more information on Sierra tags consult manual:
- Variable-length Fields
- Each type of record has a set of valid variable-length fields, determined by your organization during the setup of your system. Variable-length fields contain data that is usually alphanumeric. Examples of data in variable-length fields are free-text notes, addresses, and barcodes.
- Some variable-length fields are indexed and may be used to retrieve records. Index tags and field group tags are easy to confuse: for example, t is used for the title field group tag and t is used for the title index tag. See Indexes and Field Groups and Field Group Tags for descriptions of these two types of tag
- Sierra Documentation.
- http://csdirect.iii.com/sierrahelp/Default.htm#sril_records_variable_fields.html?Highlight=tags

pgAdmin III: varfield_view

The screenshot shows the pgAdmin III graphical query builder. In the top navigation bar, 'Graphical Query Builder' is selected. On the left, a sidebar lists various database objects. The main area displays two tables: 'varfield_view' and 'item_view', which are joined on the 'id' column. Below the tables is a 'Criteria' window containing a single condition:

	Restricted Value	Operator	Value	Connect
1	varfield_view.varfield_type_code	=	'b'	+ AND

- In our Criteria window lets make
- Restricted Value:
- Table: **varfield_view**
- Field: **varfield_type_code**
- Where this value is equal to 'b'

pgAdmin III: varfield_view

SQL Editor text

SELECT

```
bib_view.title,  
bib_view.record_num,  
item_view.barcode,  
item_view.record_num,  
varfield_view.field_content,  
varfield_view.varfield_type_code
```

FROM

```
sierra_view.item_view,  
sierra_view.bib_view,  
sierra_view.bib_record_item_record_link,  
sierra_view.varfield_view
```

WHERE

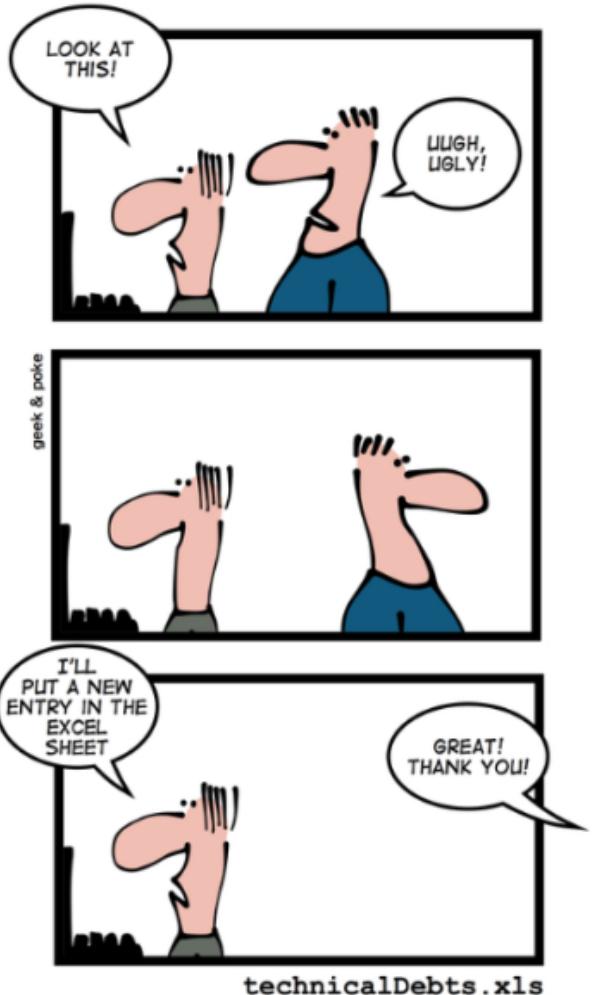
```
item_view.id = bib_record_item_record_link.item_record_id AND  
bib_view.id = bib_record_item_record_link.bib_record_id AND  
varfield_view.record_id = item_view.id AND  
varfield_view.varfield_type_code = 'b'  
limit 20;
```

We are only interested in
b tagged field

pgAdmin III: varfield_view

	title character varying(1000)	record_num integer	barcode character varying(1000)	varfield_type_code character(1)
1	Catholicism, Protest	1001391	A11300388276	b
2	Proceedings of a mee	1000931	zzz8106060809058	b

- Now that we are limiting to b tagged items. Our list contains items with barcodes for both the item record varfield_type_code and barcode field!
- Why does BGSU have zzz in front of some barcodes?
- We transferred material to our statewide shared depository catalog. To make sure that we never circulate this material from the wrong system we added zzz to the beginning of those items' barcodes. Someday we will delete these items.



Questions?

www.geek-and-poke.com
<http://geek-and-poke.com/?offset=1387617651494>

St. Francis

T-6-N

Concatenate:

```
SELECT  
    bib_view.title,  
    bib_view.record_type_code,  
    bib_view.record_num,  
    item_view.record_type_code,  
    item_view.record_num,  
    item_view.barcode  
FROM  
    sierra_view.bib_view,  
    sierra_view.bib_record_item_record_link,  
    sierra_view.item_view  
WHERE  
    bib_record_item_record_link.bib_record_id = bib_view.id AND  
    bib_record_item_record_link.item_record_id = item_view.id  
limit 5;
```

Concatenate:

Glendale Whitefish Bay

	title character varying(1000)	re ch	record_num integer	re ch	record_num integer	barcode character varying(1000)
1	The contest in Ameri	b	1065405	i	1091722	
2	Works	b	1493621	i	2626878	
3	Four days in July; t	b	1065433	i	1091756	
4	Catholics and the Am	b	1065449	i	1091776	
5	France in the Americ	b	2298147	i	1091793	

Lets say you don't want to have to type b in front of the number and a after the number from you exported data.

Concatenate:

`SELECT record_type_code||record_num||'a' AS ID, -- prefix concatenate with
record number and 'a' for check digit wildcard`

Take lines:

`bib_view.record_type_code AS "rec type",
bib_view.record_num AS "rec #",`

And replace with:

`bib_view.record_type_code||bib_view.record_num||'a' AS "BIB REC #",`

`item_view.record_type_code,
item_view.record_num,`

And replace with:

`item_view.record_type_code||item_view.record_num||'a' AS "ITEM REC #",`

Concatenate:

```
SELECT
    bib_view.title,
    bib_view.record_type_code||bib_view.record_num||'a' AS "BIB REC #",
    item_view.record_type_code||item_view.record_num||'a' AS "ITEM REC #",
    item_view.barcode
FROM
    sierra_view.bib_view,
    sierra_view.bib_record_item_record_link,
    sierra_view.item_view
WHERE
    bib_record_item_record_link.bib_record_id = bib_view.id AND
    bib_record_item_record_link.item_record_id = item_view.id
limit 5;
```

Concatenate:

	Data Output	Explain	Messages	History
	title character varying(1000)	BIB REC # text	ITEM REC # text	barcode character varying(1000)
1	The widower	b1000718	i1001008a	A11300393425
2	China	b1000713	i1001001a	A11300668958

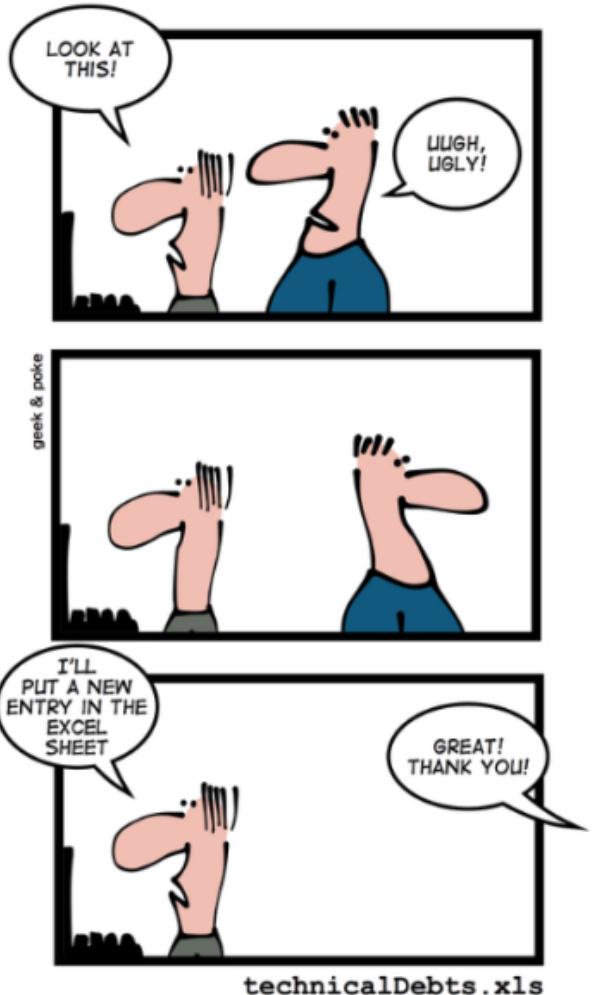
Milwaukee

Lake

Michigan

W. Allis

St. Francis



Questions?

www.geek-and-poke.com
<http://geek-and-poke.com/?offset=1387617651494>

St. Francis

T-6-N

User Permission Query

- Run this query from the Sierra manual
- Examine how to export the Data
- Use the Graphical Query Editor in pgAdmin III to build this query
- Review how to Order output data

User Permissions Query

You are here: Sierra Direct SQL Access > [Query Examples](#)

Query Examples



Sierra Direct SQL Access users assume responsibility for the effects of custom SQL.

Reporting on User Permissions

Example: User Permissions

- [Sierra Documentation:](#)
- [Query Examples](#)
- [User Permissions](#)

http://csdirect.iii.com/sierrahelp/Default.htm#ssql_query_examples.html%3FTocPath%3DSierra%20Direct%20SQL%20Access| 3

Version 1.1.2:4

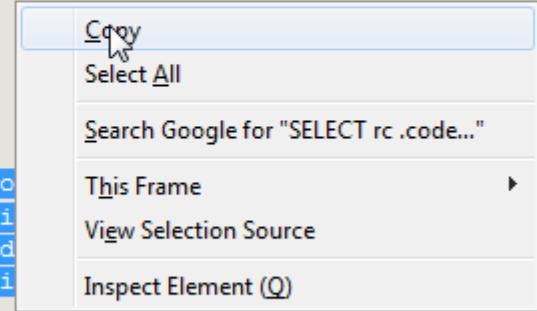
User Permissions Query

Sierra documentation: Sierra Direct SQL Access: Query Examples: Reporting on User Permissions

Reporting on User Permissions

- Example: User Permissions

```
SELECT
    rc .code          AS permission_category,
    r .code           AS permissions,
    u .name           AS user_name,
    u .full_name     AS user_full_name,
    u loc.location_code AS user_location
FROM
    sierra_view.iii_user      u
LEFT JOIN sierra_view.iii_user_location u_loc ON u_lo
JOIN    sierra_view.iii_user_iii_role ur   ON ur.i
JOIN    sierra_view.iii_role        r    ON r.id
JOIN    sierra_view.iii_role_category rc  ON rc.i
-- WHERE u.name = 'iiitest'
ORDER BY u.name
```



This code was one of the only examples in the Sierra documentation that I could cut and paste into the pgAdmin III Query SQL Editor window and successfully run without modification!

http://csdirect.iii.com/sierrahelp/Default.htm#ssql_query_examples.html%3FTocPath%3DSierra%2520Direct%2520SQL%2520Access | 3



User Permissions Query

```
SELECT
```

```
    rc .code      AS permission_category,  
    r .code       AS permissions,  
    u .name       AS user_name,  
    u .full_name  AS user_full_name,  
    u_loc.location_code AS user_location
```

```
FROM
```

```
    sierra_view.iii_user      u
```

```
LEFT JOIN sierra_view.iii_user_location u_loc ON u_loc.iii_user_id = u.id
```

```
JOIN    sierra_view.iii_user_iii_role ur   ON ur.iii_user_id  = u.id
```

```
JOIN    sierra_view.iii_role      r   ON r.id          = ur.iii_role_id
```

```
JOIN    sierra_view.iii_role_category rc  ON rc.id       =  
r.iii_role_category_id
```

```
WHERE u.name = 'mulderf'
```

```
ORDER BY u.name
```

Removed rem '--' from-- WHERE u.name = 'iiitest'
And changed 'iiitest' to 'mulderf' a user in my system

User Permissions Query

The screenshot shows a SQL editor window with the following details:

- Toolbar:** Includes File, Edit, Query, Favourites, Macros, View, Help, and various icons for file operations like Open, Save, and Print.
- Status Bar:** Shows a connection status: "iii on mulderf@sierra-db.bgsu.edu:1032".
- Tab Bar:** SQL Editor (selected) and Graphical Query Builder.
- Text Area:** Displays a SELECT query for user permissions. The query joins five tables: sierra_view.iii_user, sierra_view.iii_user_location, sierra_view.iii_user_iii_role, sierra_view.iii_role, and sierra_view.iii_role_category. It selects permission categories, specific permissions, user names, full names, and user locations. A WHERE clause filters by the user name 'mulderf', and an ORDER BY clause sorts by user name.

```
SELECT
    rc .code AS permission_category,
    r .code AS permissions,
    u .name AS user_name,
    u .full_name AS user_full_name,
    u_loc.location_code AS user_location
FROM
    sierra_view.iii_user u
LEFT JOIN sierra_view.iii_user_location u_loc ON u_loc.iii_user_id = u.id
JOIN sierra_view.iii_user_iii_role ur ON ur.iii_user_id = u.id
JOIN sierra_view.iii_role r ON r.id = ur.iii_role_id
JOIN sierra_view.iii_role_category rc ON rc.id = r.iii_role_category_id
WHERE u.name = 'mulderf'
ORDER BY u.name
```

- Paste into the SQL Editor window
- Click the run button:

User Permissions Query

Data Output

Explain

Messages

History

	permission_category character varying(255)	permissions character varying(255)	user_name character varying(255)	user_full_name character varying(255)
1	applications	sierrasql	mulderf	Fox Mulder - LITS
2	applications	webadmin	mulderf	Fox Mulder - LITS
3	applications	dashboard	mulderf	Fox Mulder - LITS
4	applications	sierradesktop	mulderf	Fox Mulder - LITS
5	generaluse	passlvl16	mulderf	Fox Mulder - LITS
6	generaluse	passlvl131	mulderf	Fox Mulder - LITS
7	generaluse	passlvl10	mulderf	Fox Mulder - LITS
8	generaluse	passlvl141	mulderf	Fox Mulder - LITS

User Permissions Query: Export

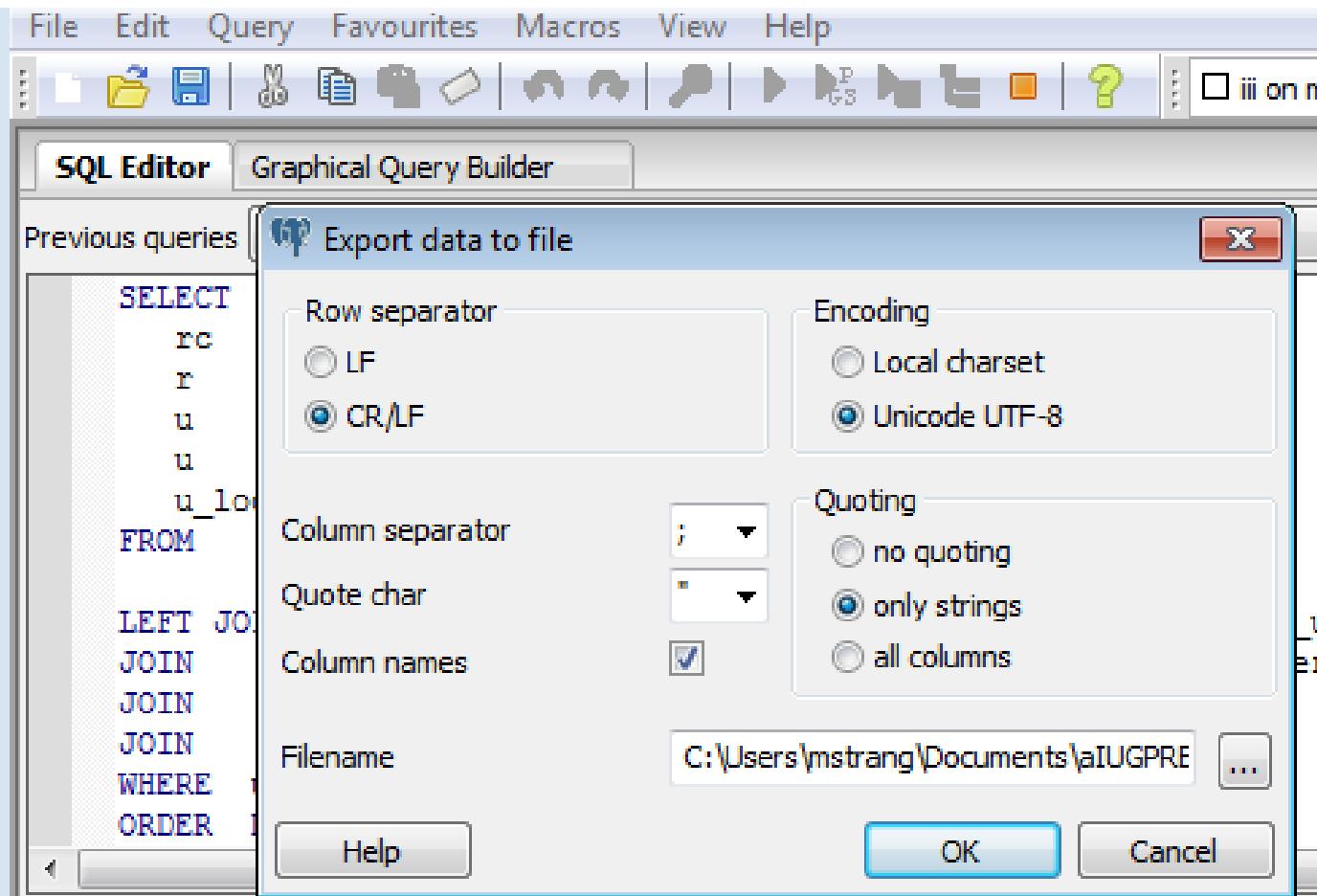
The screenshot shows the MySQL Workbench interface with a query editor tab titled "SQL Editor". The query itself is a SELECT statement that joins several tables to retrieve user permission data. It includes columns for permission category, specific permissions, user names, full names, and user locations. The query uses LEFT JOINs and ON clauses to link tables like sierra_view.iii_user, sierra_view.iii_user_location, sierra_view.iii_user_iii_role, and sierra_view.iii_role_category. A comment -- WHERE u.name = 'iiitest' is present, and the results are ordered by user name.

```
SELECT
    rc .code AS permission_category,
    r .code AS permissions,
    u .name AS user_name,
    u .full_name AS user_full_name,
    u_loc.location_code AS user_location
FROM
    sierra_view.iii_user u
LEFT JOIN sierra_view.iii_user_location u_loc ON u_loc.iii_user_id = u.id
JOIN sierra_view.iii_user_iii_role ur ON ur.iii_user_id = u.id
JOIN sierra_view.iii_role r ON r.id = ur.iii_role_id
JOIN sierra_view.iii_role_category rc ON rc.id = r.iii_role_category_id
-- WHERE u.name = 'iiitest'
ORDER BY u.name
```

- Export data by using the save to file button:



User Permissions Query: Export



- Save the data to disk, and then import into Excel

User Permissions Query: Excel

	A	B	C	D
1	permission_category	permissions	user_name	user_full_name
2	applications	sierrasql	mulderf	Fox Mulder - LITS
3	applications	webadmin	mulderf	Fox Mulder - LITS
4	applications	dashboard	mulderf	Fox Mulder - LITS
5	applications	sierradesktop	mulderf	Fox Mulder - LITS
6	generaluse	passlvl6	mulderf	Fox Mulder - LITS
7	generaluse	passlvl131	mulderf	Fox Mulder - LITS
8	generaluse	passlvl10	mulderf	Fox Mulder - LITS

Import into excel.

User Permissions Query: Excel

A	B	C	D
1	permission_category	permissions	user_name
2	applications	sierrasql	mulderf
3	applications	webadmin	mulderf
4	applications	dashboard	mulderf
5	applications	sierradesktop	mulderf
6	generaluse	passlvl6	mulderf
7	generaluse	passlvl131	mulderf
8	generaluse	passlvl10	mulderf

If you create a new column between b and c
use the Excel formula:
=RIGHT(B1,LEN(B1)-7)

User Permissions Query: Excel

User Permissions Query: Excel			
	Clipboard	Font	
C6	:	x ✓ fx	=RIGHT(B6,LEN(B6)-7)
1	permission_category	permissions	
2	applications	sierrasql	mulderf
3	applications	webadmin	mulderf
4	applications	dashboard	mulderf
5	applications	sierradesktop	mulderf
6	generaluse	passlvl6	mulderf
7	generaluse	passlvl131	mulderf
8	generaluse	passlvl10	mulderf
9	generaluse	passlvl141	mulderf

- This list is almost as good if not better then the old trick of printing to list and then downloading the list of permissions in Millennium admin mode!

User Permissions Query: Excel

- Excel is much more manageable than Admin client for comparing staff permissions.

The screenshot shows a list of assigned permissions. At the top, it says "Assigned permissions (59) [remove all](#)". Below that is a search bar labeled "Filter list by typing here" and a button "All cat (change)". The list itself contains the following items:

- Access review files (181)
- Access to web-based documentation (198)
- Administer Electronic Holdings (226)
- Bind serials (89)
- Change Password (787)
- Checkin options (146)

- An Excel file of Permission Names can be found at the IUG Clearinghouse

- [http://innovativeusers.org/index.php?option=com_content&view=article&id=174&appParams\[method\]=Full+Record&appParams\[id\]=282](http://innovativeusers.org/index.php?option=com_content&view=article&id=174&appParams[method]=Full+Record&appParams[id]=282)

User Permissions Graphical Query

- Let's build that permissions query using the Graphical Query editor.

SELECT

```
rc .code      AS permission_category,  
r .code      AS permissions,  
u .name      AS user_name,  
u .full_name AS user_full_name,  
u_loc.location_code AS user_location
```

FROM

```
    sierra_view.iii_user      u  
LEFT JOIN sierra_view.iii_user_location u_loc ON u_loc.iii_user_id = u.id  
JOIN    sierra_view.iii_user_iii_role ur   ON ur.iii_user_id  = u.id  
JOIN    sierra_view.iii_role       r    ON r.id          = ur.iii_role_id  
JOIN    sierra_view.iii_role_category rc   ON rc.id        =  
r.iii_role_category_id  
WHERE u.name = 'mulderf'  
ORDER BY u.name
```

User Permissions Graphical Query

First let's go and preview what is in these table's:

iii_user

iii.user_iii_role

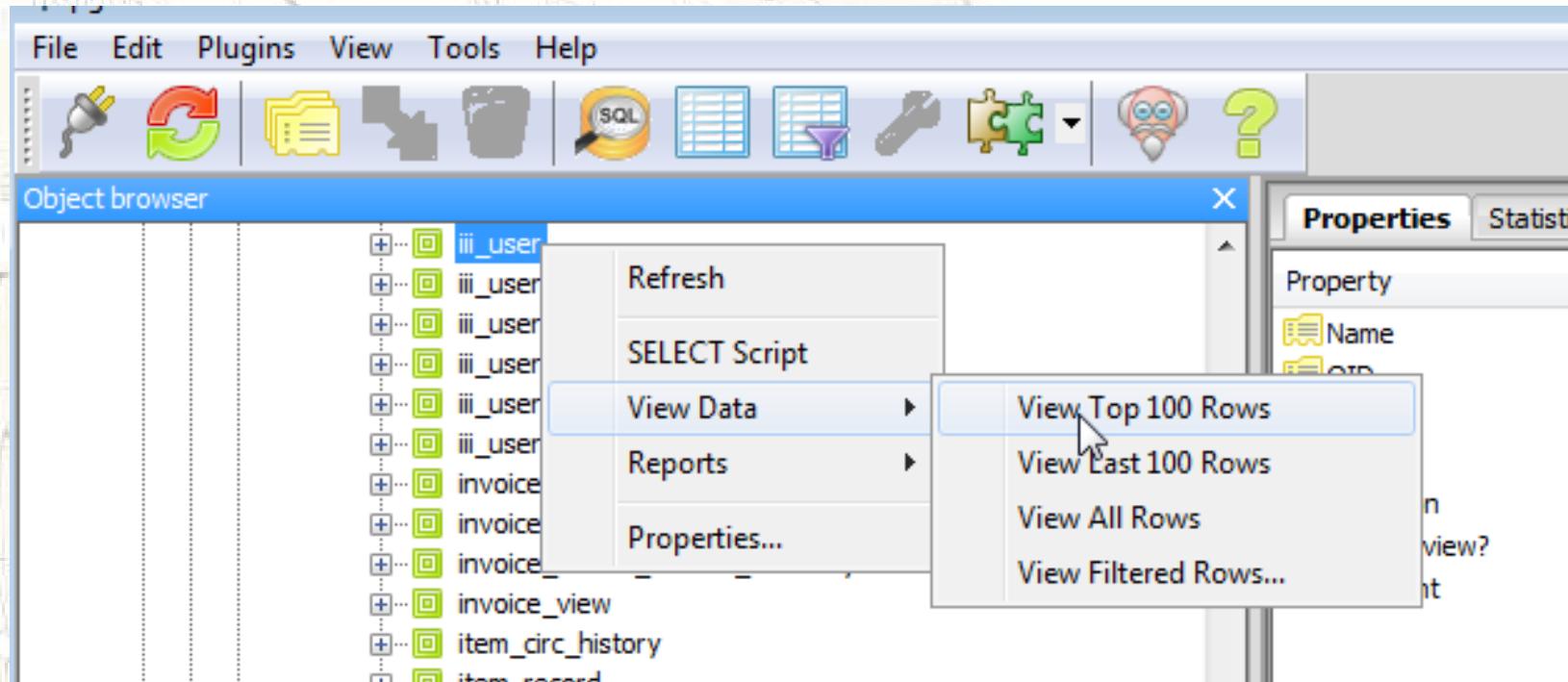
iii_role

lili_role_category

iii_user_location

Preview table iii_user contents

User Permissions Graphical Query



Right click on
iii_user
View Data
Click View Top 100 Rows
To get a look at your table data
Also info at: <http://techdocs.iii.com/sierradna/>

User Permissions Graphical Query

Preview table `iii_user` contents

<code>id</code> <code>integer</code>	<code>name</code> <code>character vari</code>	<code>locat</code> <code>integ</code>	<code>iii_user_grou</code> <code>character vari</code>	<code>full_name</code> <code>character varying(255)</code>	<code>iii_language_</code> <code>integer</code>	<code>account_unit</code> <code>integer</code>	<code>statistic_grou</code> <code>integer</code>	<code>system_optic</code> <code>integer</code>	<code>timeout_wan</code> <code>integer</code>	<code>timeout_logo</code> <code>integer</code>	<code>scope_menu_</code> <code>integer</code>	<code>scope_menu_</code> <code>character vari</code>	<code>is_new_acco</code> <code>boolean</code>	<code>last_passwor</code> <code>timestamp w</code>	<code>is_exempt</code> <code>boolean</code>	<code>is_suspended</code> <code>boolean</code>	<code>is_context_o</code> <code>boolean</code>
9 309	pcirc	1	staff	PCIRC - OhioLINK Processing	1	0	103	2	43200	21600			FALSE	2013-02-05	TRUE	FALSE	FALSE
10 373	mulderf	1	staff	Fox Mulder - LITS	1	0	103	1	120	14400			FALSE	2014-03-12	FALSE	FALSE	FALSE

	<code>id</code> <code>integer</code>	<code>name</code> <code>character vari</code>	<code>locati</code> <code>integ</code>	<code>iii_user_grou</code> <code>character vari</code>	<code>full_name</code> <code>character varying(255)</code>	
9	309	pcirc	1	staff	PCIRC - OhioLINK Processing	
10	373	mulderf	1	staff	Fox Mulder - LITS	

Preview table's:

`iii_user`

`iii.user_iii_role`

`iii_role`

`liii_role_category`

`iii_user_location`

Use raw data or techdoc to find the table matchpoints

User Permissions Graphical Query

techdocs.iii.com/sierradna/Home,\$DirectLink.sdirect?sp=SUsers

Google

sierraDNA

Search Views All fields (change)

Entities

Generic Record

Authority

Bib

Contact

Course

Holding

Invoice

Item

License

Order

Patron

Program

Resource

Section

Vendor

Volume

Users

Users

function

Each row of function identifies a Sierra Desktop Application function.

Column	Data Type	Not NULL?	Comment
id	int	false	System-generated sequential ID.
display_order	int	false	Integer to manage the display order of a list.
code	varchar	false	A code that corresponds to a Sierra Desktop Application function, such as Rapid Update, Global Update, Orders, and so forth.
function_category_id	int	false	Foreign key to function_category.

function_category

Each row of function_category identifies a Sierra Desktop Application function category.

Look at tables in SierraDNA

[http://techdocs.iii.com/sierradna/Home,\\$DirectLink.sdirect?sp=SUsers](http://techdocs.iii.com/sierradna/Home,$DirectLink.sdirect?sp=SUsers)



User Permissions Graphical Query

iii_user

Each row of iii_user defines a Sierra user login.

Column	Data Type	Not NULL?	Comment
id	int	false	System-generated sequential ID.
name	varchar	false	The user's login name.
location_group_port_number	int	false	The portoca ID (locations served) associated with this user, typically '0'.
iii_user_group_code	varchar	false	The code representing the login group to which this login is assigned.
full_name	varchar	false	The user's full name.
iii_language_id	int	false	Foreign key to iii_language.
account_unit	int	false	The accounting unit to which the login is assigned.
statistic_group_code_num	int	false	The statistics group to which the login is assigned.
system_option_group_code_num	int	false	The number of the external options group the user belongs to. An asterisk (*) means no special options group.
timeout_warning_seconds	int	false	The number of seconds that the keyboard may be idle before the system issues a "timeout" warning.
timeout_logout_seconds	int	false	The number of seconds that the keyboard may be idle before the system "times out."

Look at tables in SierraDNA

[http://techdocs.iii.com/sierradna/Home,\\$DirectLink.sdirect?sp=SUsers](http://techdocs.iii.com/sierradna/Home,$DirectLink.sdirect?sp=SUsers)

User Permissions Graphical Query

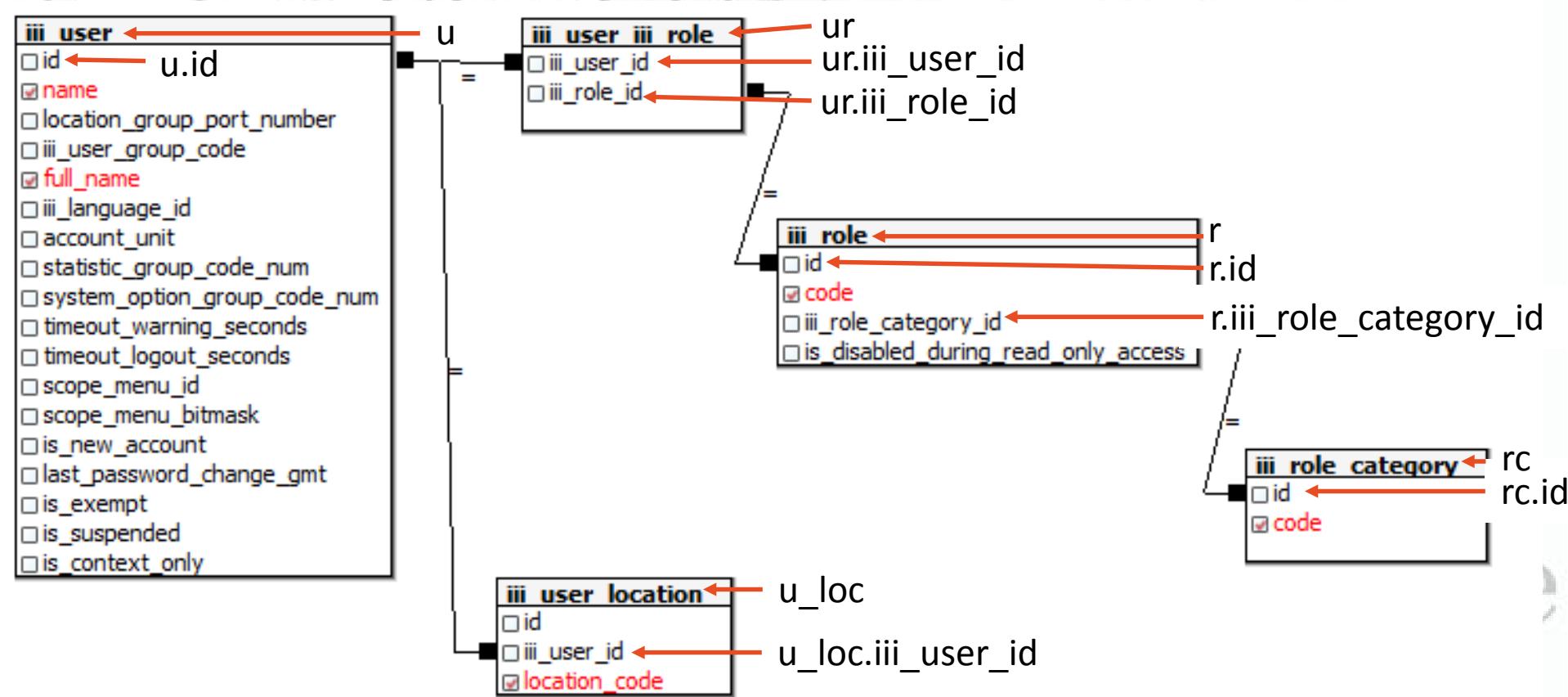
Next we will break this text down by sections: FROM, SELECT, WHERE, ORDER

SELECT

```
rc .code      AS permission_category,  
r .code      AS permissions,  
u .name      AS user_name,  
u .full_name AS user_full_name,  
u_loc.location_code AS user_location
```

FROM

```
sierra_view.iii_user      u  
LEFT JOIN sierra_view.iii_user_location u_loc ON u_loc.iii_user_id = u.id  
JOIN    sierra_view.iii_user_iii_role ur   ON ur.iii_user_id  = u.id  
JOIN    sierra_view.iii_role       r    ON r.id          = ur.iii_role_id  
JOIN    sierra_view.iii_role_category rc   ON rc.id        =  
r.iii_role_category_id  
WHERE u.name = 'mulderf'  
ORDER BY u.name
```



FROM

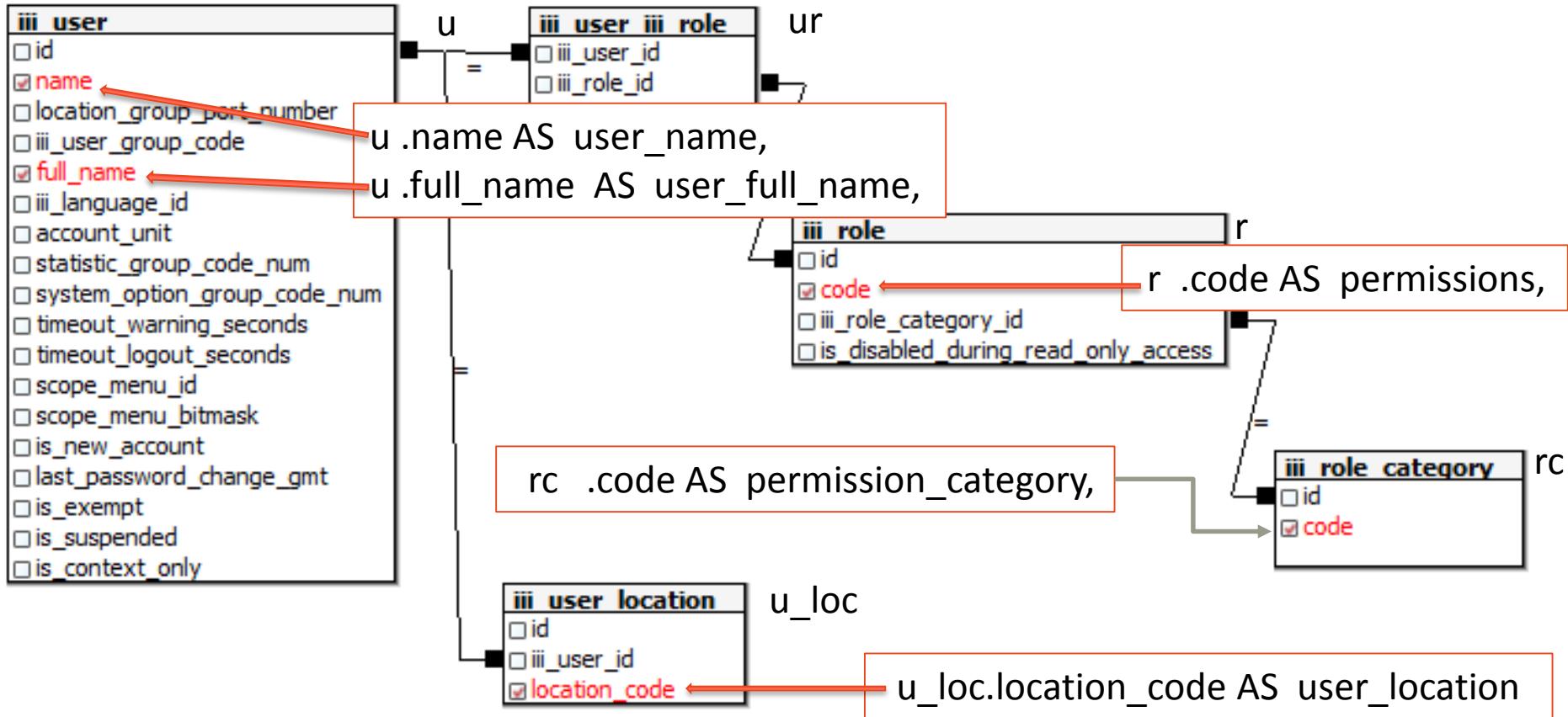
sierra_view.iii_user u

LEFT JOIN sierra_view.iii_user_location u_loc ON u_loc.iii_user_id = u.id

JOIN sierra_view.iii_user_iii_role ur ON ur.iii_user_id = u.id

JOIN sierra_view.iii_role r ON r.id = ur.iii_role_id

JOIN sierra_view.iii_role_category rc ON rc.id = r.iii_role_category_id



SELECT

```

rc .code      AS permission_category,
r .code       AS permissions,
u .name       AS user_name,
u .full_name  AS user_full_name,
u_loc.location_code AS user_location
  
```

User Permissions Graphical Query

Columns Criteria Ordering Joins

	Relation	Column	Alias
1	iii_role_category	code	permission_category
2	iii_role	code	permissions
3	iii_user	name	user_name
4	iii_user	full_name	user_fullname
5	iii_user_location	location_code	user_location

- Add our Alias info
- permission_category
- permissions
- user_name
- user_fullname
- user_location

User Permissions Graphical Query: Criteria

Columns	Criteria	Ordering	Joins				
	Restricted Value	Operator	Value	Connector			
1	iii. user.name	=	'mulderf'	+	AND		+

- Add our Criteria
of = 'mulderf'

User Permissions Graphical Query: Ordering

Columns

Criteria

Ordering

Joins

Available Columns

1 iii_user.id

2 iii_user.location_group_port_number

3 iii_user.iii_user_group_code

4 iii_user.iii_language_id

- Add the Ordering by user id

Column

Order

1 iii_user.full_name

ASC

User Permissions Graphical Query

The generated SQL query has changed.
Do you want to update it and execute the query?

SQL Editor Graphical Query Builder

iii_user

Column	Type	Value
1	iii_user.name	= 'mulderf'

• Click Yes

User Permissions Graphical Query

SQL Editor View

```
SELECT  
    iii_role_category.code AS permission_category,  
    iii_role.code AS permissions,  
    iii_user.name AS user_name,  
    iii_user.full_name AS user_fullname,  
    iii_user_location.location_code AS user_location  
  
FROM  
    sierra_view.iii_user,  
    sierra_view.iii_user_iii_role,  
    sierra_view.iii_role,  
    sierra_view.iii_user_location,  
    sierra_view.iii_role_category  
  
WHERE  
    iii_user_iii_role.iii_user_id = iii_user.id AND  
    iii_role.id = iii_user_iii_role.iii_role_id AND  
    iii_role.iii_role_category_id = iii_role_category.id AND  
    iii_user_location.iii_user_id = iii_user.id AND  
    iii_user.name = 'mulderf'  
  
ORDER BY  
    iii_user.full_name ASC;
```

Remove: iii_user.name = 'mulderf'
To make query work in your system!
Or rem comment by adding -- to line
-- iii_user.name = 'mulderf'

User Permissions Graphical Query

Data Output

Explain

Messages

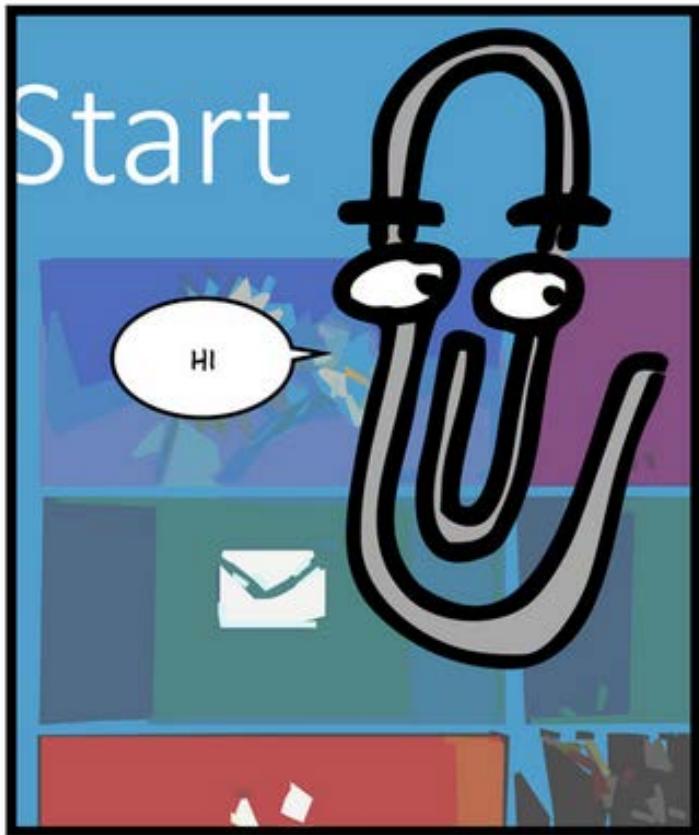
History

	permission_category character varying(25)	permissions character varying	user_name character v	user_fullname character varying(25)	user_location character vary
1	applications	sierrasql	mulderf	Fox Mulder - LITS	mm
2	applications	webadmin	mulderf	Fox Mulder - LITS	mm
3	applications	dashboard	mulderf	Fox Mulder - LITS	mm
4	applications	sierradesktop	mulderf	Fox Mulder - LITS	mm
5	generaluse	passlvl16	mulderf	Fox Mulder - LITS	mm
6	generaluse	passlvl131	mulderf	Fox Mulder - LITS	mm
7	generaluse	passlvl10	mulderf	Fox Mulder - LITS	mm
8	generaluse	passlvl141	mulderf	Fox Mulder - LITS	mm
9	generaluse	passlvl125	mulderf	Fox Mulder - LITS	mm
10	generaluse	passlvl144	mulderf	Fox Mulder - LITS	mm

- Output nearly the same as the Sierra documentation example!

Geek & Poke exclusive!!!

What happens when you press the new
Windows 8.1 Start Button



Questions?

www.geek-and-poke.com

<http://static.squarespace.com/static/518f5d62e4b075248d6a3f90/t/51a9b970e4b0c88fb20001a7/1370077560997/clippy.jpg?format=500w>

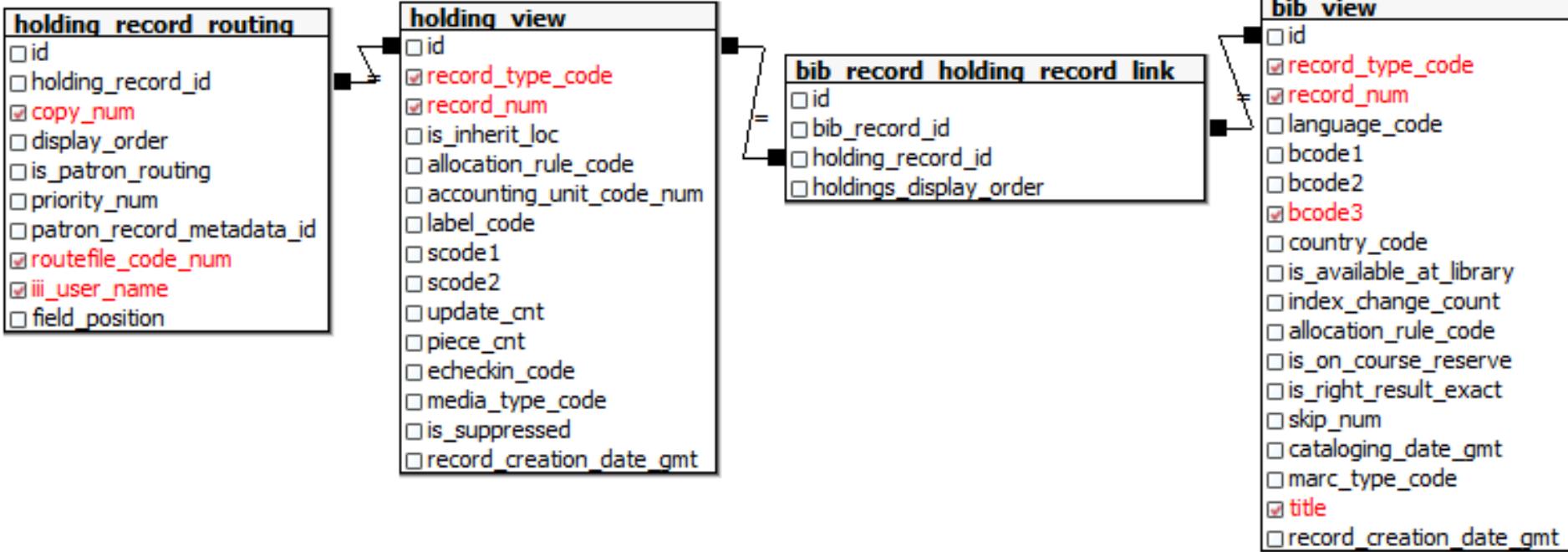
St. Francis

T-6-N

Routing List Maintenance Query

- When using the function: Serials Routing, staff has no way of knowing all the data in the table. This data is not accessible using create lists.
- This section will examine how to make a query to export that data so staff can clean up the Routing list information.

Routing List Maintenance Query



Routing List Maintenance Query

Columns

Criteria

Ordering

Joins

	Relation	Column	Alias
1	holding_view	record_type_code	rec type
2	holding_view	record_num	rec #
3	holding_record_routing	copy_num	copy #
4	holding_record_routing	routefile_code_num	route #
5	holding_record_routing	iii_user_name	user
6	bib_view	record_type_code	rec type
7	bib_view	record_num	rec #
8	bib_view	title	title
9	bib_view	bcode3	bcode3

Click in Alias under Columns table for each of the rows of data: rec type; rec #, copy #, route #, user, rec type, rec #, title, bcode3

Routing List Maintenance Query

	Restricted Value	Operator	Value	
1	holding_record_routing.iii_user_name	=	'fm'	AND

- To limit data in the output
- Use Criteria Tab
- Choose Restricted Value:
- Holding_record_routing.iii_user_name
- Operator =
- Value 'fm' for Fox Mulder routing list

Routing List Maintenance Query

The screenshot shows a database query interface with a map background. At the top, there are tabs: 'Columns', 'Criteria', 'Ordering' (which is highlighted with a red arrow), and 'Run'. Below the tabs is a table titled 'Available Columns' with five rows:

	Available Columns
1	holding_record_routing.id
2	holding_record_routing.holding_record_id
3	holding_record_routing.copy_num
4	holding_record_routing.display_order
5	holding_record_routing.is patron routing

On the right, there is a 'Column' list with one item:

	Column	Order
1	holding_record_routing.iii_user_name	ASC

A green arrow points from the 'Available Columns' list to the 'Column' list. A red box highlights the 'Available Columns' list.

- To sort data in the output
- Use Ordering Tab
- Highlight table/data name and us green arrow to move to right
- Choose order option: ASC is alphabetical.
- Run

Routing List Maintenance Query

SQL Editor window

SELECT

```
holding_view.record_type_code AS "rec type",
holding_view.record_num AS "rec #",
holding_record_routing.copy_num AS "copy #",
holding_record_routing.routefile_code_num AS "route #",
holding_record_routing.iii_user_name AS "user",
bib_view.record_type_code AS "rec type",
bib_view.record_num AS "rec #",
bib_view.title AS title,
bib_view.bcode3 AS bcode3
```

FROM

```
sierra_view.holding_record_routing,
sierra_view.holding_view,
sierra_view.bib_record_holding_record_link,
sierra_view.bib_view
```

WHERE

```
holding_view.id = holding_record_routing.holding_record_id AND
bib_record_holding_record_link.holding_record_id = holding_view.id AND
bib_view.id = bib_record_holding_record_link.bib_record_id AND
holding_record_routing.iii_user_name = 'fm'
```

ORDER BY

```
holding_record_routing.iii_user_name ASC;
```

Remove:
holding_record_routing.iii_user_name = 'fm'
To make query work in your system!

Routing List Maintenance Query

Data Output										
	rec type character(1)	rec # integer	copy # integer	route # integer	user character varying(3)	rec type character(1)	rec # integer	title character varying(1000)	bcode3 character(1)	
1	c	102468	1	12	fm	b	974131	Library journal	-	
2	c	101426	1	12	fm	b	825939	Choice	-	
3	c	101089	1	12	fm	b	005141	Consumer reports	-	

- Data output
- With no limiters you have a complete listing you can export as csv, then import into Excel.
- The staff member who handles routing is able to work through it and clean up database.

Routing List Maintenance Query

- Sierra => Serials => Routing

The screenshot shows a software interface for managing routing lists. At the top, there's a search bar with the text "INITIALS" and a dropdown arrow, followed by the input "fm". To the right of the search bar are three buttons: "Search" (red), "View", "Edit", and "Summary". Below the search bar, the text "rout12" is displayed. Underneath, a table shows routing details for "fm":

INITIALS	fm
NAME	Fox Mulder
SHORT ADDRESS	Library ITS
ADDRESS 1	\$\$
JOURNAL COUNT	3
PRIORITY	0

Below this, there are two tabs: "Routing" (selected) and "Serials". The "Routing" tab displays a list of journals:

Record Number	Title
c1014262	Choice
c101089x	Consumer reports
c1024681	Library journal

At the bottom of the "Routing" tab, there are buttons for "Add Journal" and "Delete Journal".

Glendale

Whitefish Bay

Shorewood

Questions?

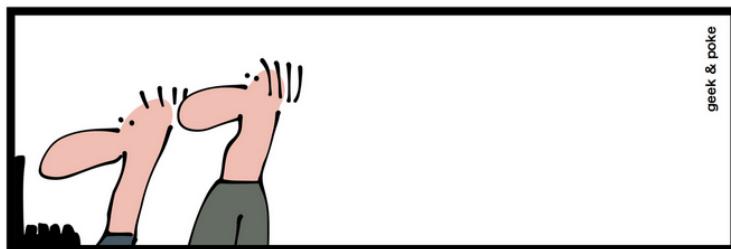
Milwaukee

Lake

Michigan



geek & poke



LONG RUNNING PROJECTS

www.geek-and-poke.com

<http://static.squarespace.com/static/518f5d62e4b075248d6a3f90/t/527abcc2e4b015108c1c37a6/1383775436595/project-history.jpg?format=750w>

St. Francis

T-6-N

Query: Checkin Records and Fund Codes

- When using Create Lists we discovered that you cannot export Checkin Record Information with the connections to the order and fund code information that staff needed.
- This section will examine how I went about making a query to get around this Sierra limitation.
- Started by getting record printout's and I had staff circle what they would have exported in a perfect world.

Query: Checkin Records and Fund Codes

Met with Serials Coordinator to identify what data they would want in an Excel dump. Bib Record

b10621817	Last Updated: 02-24-2014	Created: 05-06-1992	Revisions: 52
LANG	eng English	CAT DATE	05-01-1992
SKIP	0	BIB LVL	s SERIAL
LOCATION	multi	MAT TYPE	s PERIODICAL/SER
MARC Leader ##### c a s 2 2 ##### 4 5 0 0			
LOCATIONS	mm ,rm ,oh		
o 001	2018162		
y 008	760227 c 1872 9999 ksu b r 1 p	0 uuu a 1	eng
I 010	f 13000060		
i 022	0002-8487		
y 030	TAFSAI		
y 040	DLC cKSU dNSD dOCL dNSD dOCL dHUL dDLC dBGU		
y 049	BGU9		
y 090	x		
a 110	2 0 American Fisheries Society		
t 245	0 0 Transactions of the American Fisheries Society		
u 246	3 3 American Fisheries Society transactions		
u 247	0 0 Proceedings of the American Fish Culturists' Association\n1st-4th annual meeting f1870-75		
u 247	0 0 Transactions of the American Fish Culturists' Association\n5th-6th annual meeting f1876-77		
u 247	0 0 Transactions of the American Fish Cultural Association\n7th-13th annual meeting f1878-84		
p 260	0 0 [Lawrence, Kan., etc.,]bAmerican Fisheries Society, etc.]		

Query: Checkin Records and Fund Codes

Met with Serials Coordinator to identify what data they would want in an Excel dump. Checkin Record

Record

c1041538 Last Updated: 09-26-2013 Created: 02-26-1993 Revisions: 220

LABEL TYPE	a SP 1 LBL 1	CLAIMON	--
SCODE1	- ---	LOCATION	mmpd Main Periodicals
SCODE2	- display all	RLOC	s SERIALS
COPIES	1	VENDOR	swjp Swets (jerome)
C	SHELVED UNDER American Fisheries Society. Transactions.		
i	paper		
h	133(2004)-140(2011)		
n	Bind issues 1-3, 4-6.		
n	Comes with Amer.Fisheries Soc. library membership.		
o	p.o. 92025		
f	51597716		
w	22800 vol. nos. yr. color 860		
w	501598 vol. nos. yr. color 650 WB		

Query: Checkin Records and Fund Codes

Met with Serials Coordinator to identify what data they would want in an Excel dump. Order Record

Record

Queue P.O.

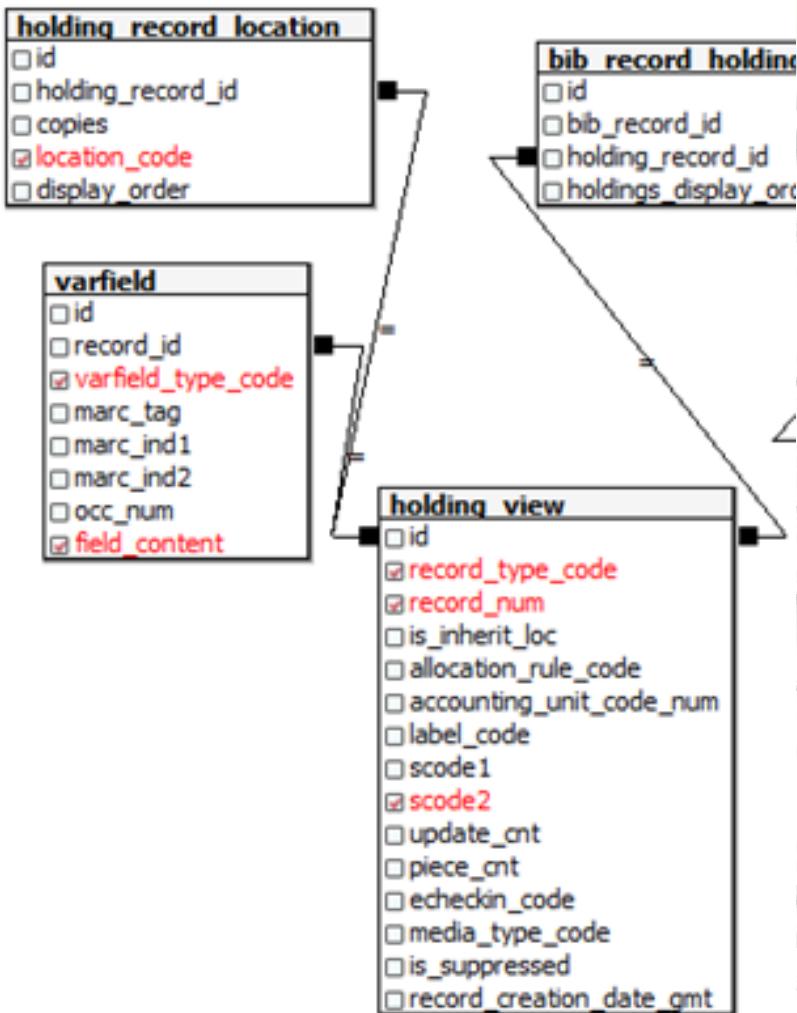
[View Finances](#)

o1110068 Last Updated: 04-14-2014 Created: 04-19-1993 Revisions: 28

ACQ TYPE	c COMES WITH	CODE4	-	RDATE	--
LOCATION	nkejo INTERNET	E PRICE	\$0.00	RLOC	s SERIALS
CDATE	--	FORMAT	e E-JOURNALS	BLOC	s SERIALS
CLAIM	--	FUND	lp204 Biology-per.	STATUS	f SERIAL NO ENC
COPIES	1	ODATE	--	TLOC	--
CODE1	--	ORD NOTE	--	VENDOR	swjp Swets (jerome)
CODE2	v VERYHI (100+)	ORD TYPE	p Per. Subscription	LANG	eng English
CODE3	2 ACTIVE-MEDIUM	RACTION	--	VOLUMES	1

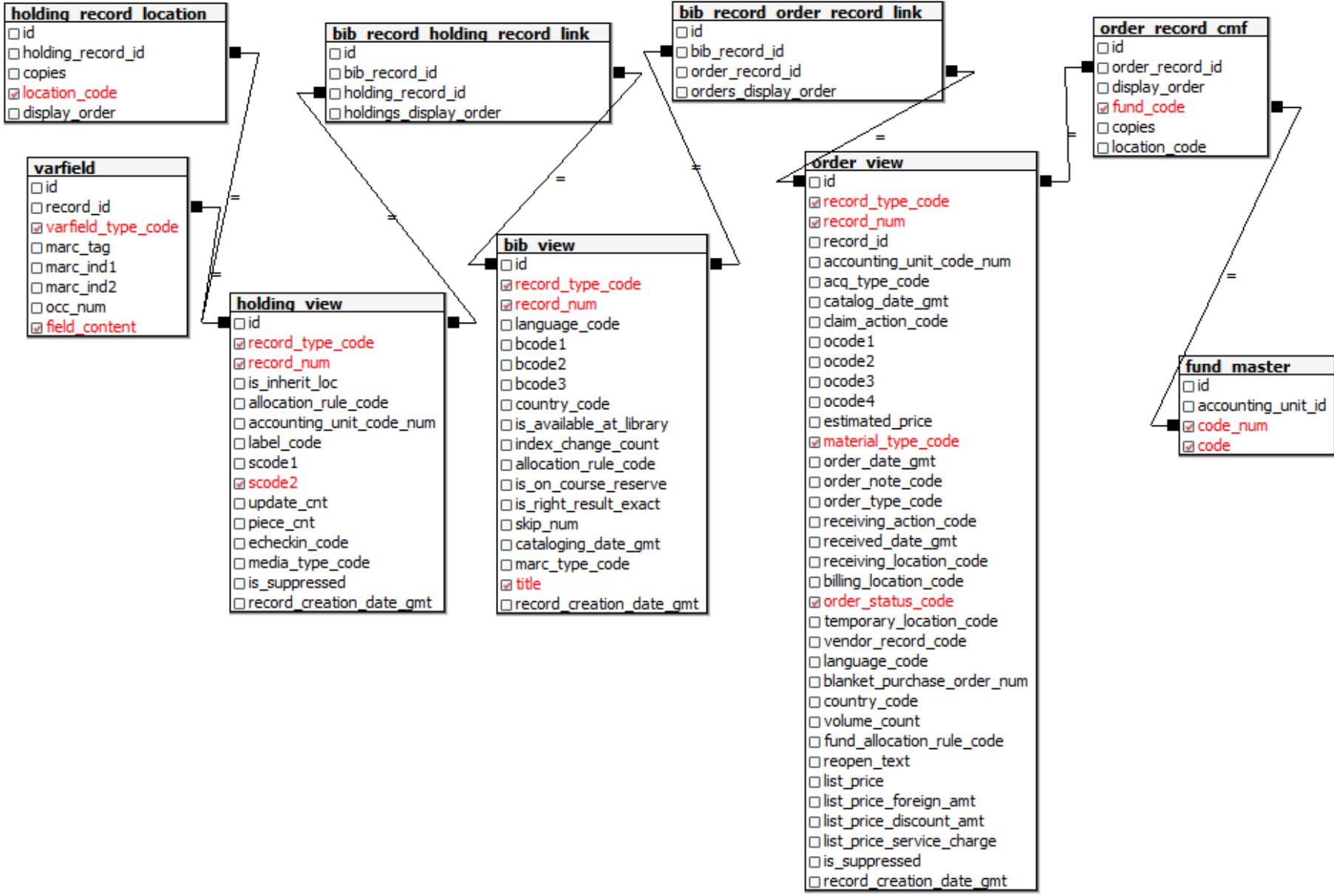
- i paper
- n sub changed to e-only for 2012
- n Comes with: American Fisheries Society Library Membership
- n Pay on .o1842948
- u Ignore
- f 51597716
- e SLKe10004567

Query: Checkin Records and Fund Codes



- Start small.
- Figure out which tables and the connections you need for the record field's staff want.

Query: Checkin Records and Fund Codes



License Record / Order Record Query

- Tables to Connect:
- holding_record_location
- holding_view
- varfield_view
- bib_record_holding_record_link
- bib_view
- bib_record_order_record_link
- order_view
- order_record_cmf
- fund_master

Query: Checkin Records and Fund Codes

Columns Criteria Ordering Joins

	Relation	Column	Alias
1	bib_view	record_type_code	rec type
2	bib_view	record_num	rec #
3	bib_view	title	Title
4	holding_view	record_type_code	rec type
5	holding_view	record_num	#
6	holding_view	scode2	scode2
7	varfield	field_content	info
8	varfield	varfield_type_code	info
9	holding_record_location	location_code	loc
10	order_view	record_type_code	rec type
11	order_view	record_num	rec #
12	order_view	material_type_code	o mat type
13	order_view	order_status_code	o status
14	order_record_cmf	fund_code	
15	fund_master	code_num	
16	fund_master	code	fund

- Alias entry

Query: Checkin Records and Fund Codes

Columns Criteria Ordering Joins

	Restricted Value	Operator	Value	Connector
1	holding_record_location.location_code	=	'mmpd'	AND
2	order_view.order_status_code	=	'f'	AND

• Criteria

Query: Checkin Records and Fund Codes

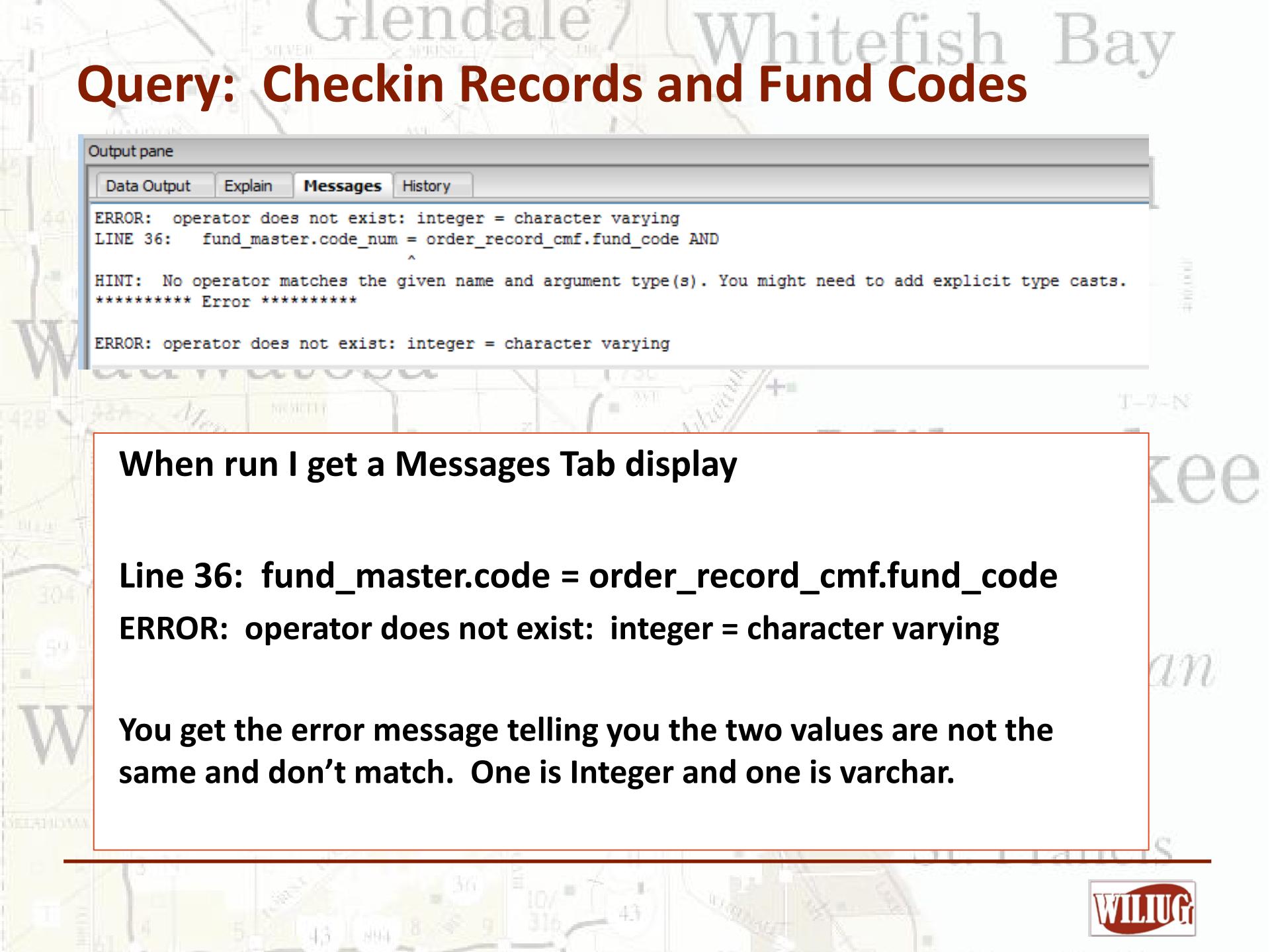
```
SELECT
bib_view.record_type_code AS "rec type",
bib_view.record_num AS "rec #",
bib_view.title AS "Title",
holding_view.record_type_code AS "rec type",
holding_view.record_num AS "#",
holding_view.scode2 AS scode2,
varfield.field_content AS info,
varfield.varfield_type_code AS info,
holding_record_location.location_code AS loc,
order_view.record_type_code AS "rec type",
order_view.record_num AS "rec #",
order_view.material_type_code AS "o mat type",
order_view.order_status_code AS "o status",
order_record_cmf.fund_code,
fund_master.code_num,
fund_master.code AS fund
FROM
sierra_view.holding_view,
sierra_view.varfield,
sierra_view.holding_record_location,
sierra_view.bib_view,
sierra_view.bib_record_holding_record_link,
sierra_view.bib_record_order_record_link,
sierra_view.order_view,
sierra_view.order_record_cmf,
sierra_view.fund_master
WHERE
varfield.record_id = holding_view.id AND
holding_record_location.holding_record_id = holding_view.id AND
bib_view.id = bib_record_holding_record_link.bib_record_id AND
bib_record_holding_record_link.holding_record_id = holding_view.id AND
bib_record_order_record_link.bib_record_id = bib_view.id AND
order_view.id = bib_record_order_record_link.order_record_id AND
order_record_cmf.order_record_id = order_view.id AND
fund_master.code_num = order_record_cmf.fund_code AND
holding_record_location.location_code = 'mmpd' AND
order_view.order_status_code = 'f';
```

Remove:

holding_record_location.location_code = 'mmpd'
order_view.order_status = 'f'

Or at least change to variables appropriate to your system!

Query: Checkin Records and Fund Codes



Output pane

Data Output Explain **Messages** History

```
ERROR: operator does not exist: integer = character varying
LINE 36: fund_master.code_num = order_record_cmf.fund_code AND
          ^
HINT: No operator matches the given name and argument type(s). You might need to add explicit type casts.
***** Error *****

ERROR: operator does not exist: integer = character varying
```

When run I get a Messages Tab display

Line 36: fund_master.code = order_record_cmf.fund_code

ERROR: operator does not exist: integer = character varying

You get the error message telling you the two values are not the same and don't match. One is Integer and one is varchar.

Query: Checkin Records and Fund Codes

SQL Editor Graphical Query Builder

Previous queries

```
SELECT
    order_record_cmf.order_record_id,
    order_record_cmf.fund_code,
    order_record_cmf.location_code
FROM
    sierra_view.order_record_cmf
LIMIT 5;
```

Output pane

Data Output Explain Messages History

	order_record_id	fund_code	location_code
1	476741469920	00127	mmrf
2	476741469919	00085	mmxx
3	476741469921	00167	
4	476741469922	00179	
5	476741469956	00197	

order_record_cmf	
<input type="checkbox"/>	id
<input checked="" type="checkbox"/>	order_record_id
<input type="checkbox"/>	display_order
<input checked="" type="checkbox"/>	fund_code
<input type="checkbox"/>	copies
<input checked="" type="checkbox"/>	location_code

Run
order_record_cmf
by itself and you see:
Fund_code
Character varying(20)
Or check techdocs

order_record_cmf

Each row of order_record_cmf contains multi-field data for an order record.

Column	Data Type	Not NULL?	Comment
id	bigint	false	System-generated sequential ID.
order_record_id	bigint	false	Foreign key to order_record.
display_order	int	false	Integer to manage the display order of a list.
fund_code	varchar	false	Fund code to be charged for the ordered items.

Query: Checkin Records and Fund Codes

SQL Editor Graphical Query Builder

Previous queries

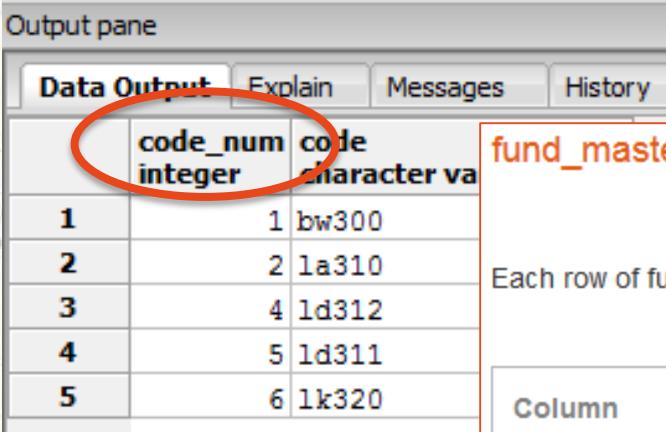
```
SELECT
    fund_master.code_num,
    fund_master.code
FROM |
    sierra_view.fund_master
limit 5;
```

fund_master	
<input type="checkbox"/>	id
<input type="checkbox"/>	accounting_unit_id
<input checked="" type="checkbox"/>	code_num
<input checked="" type="checkbox"/>	code

Run
Fund_master
by itself and you see:
Code_num
Integer
Or look at techdocs

Output pane

Data Output Explain Messages History



	code_num	code
	integer	character varying
1		bw300
2		la310
3		ld312
4		ld311
5		lk320

fund_master

Each row of fund_master uniquely identifies a fund within an accounting unit.

Column	Data Type	Not NULL?	Comment
id	int	false	System-generated sequential ID.
accounting_unit_id	int	false	Foreign key to accounting_unit.
code_num	int	false	System-assigned fund code number.
code	varchar	false	A fund code up to 15 characters long. The value for this column cannot repeat.

Query: Checkin Records and Fund Codes

Can't match an integer with a character!

To join these two tables you will need to change the format of one data type.

order_record_cmf.fund_code is number stored in a character type and it will need to be converted to an integer in order to join two tables.

**The solution is the command
::integer**

Query: Checkin Records and Fund Codes

This solution came from the Sierra Documentation examples:

http://csdirect.iii.com/sierrahelp/Default.htm#sql_query_examples.html%3FTocPath%3DSierra%2520Direct%2520SQL%2520Access|_____3

Example: PCODE4

```
JOIN (
  SELECT propertypname.name, property.code::integer
  FROM sierra_view.user_defined_property property
```

Query: Checkin Records and Fund Codes

In the SQL edit window:

Take line

`fund_master.code_num = order_record_cmf.fund_code AND`

after the `fund_code` but before the `AND` add `::integer`

line now reads:

`fund_master.code_num = order_record_cmf.fund_code::integer`
`AND`

Run query again.

Query: Checkin Records and Fund Codes

```
SELECT
bib_view.record_type_code AS "rec type",
bib_view.record_num AS "rec #",
bib_view.title AS "Title",
holding_view.record_type_code AS "rec type",
holding_view.record_num AS "#",
holding_view.scode2 AS scode2,
varfield.field_content AS info,
varfield.varfield_type_code AS info,
holding_record_location.location_code AS loc,
order_view.record_type_code AS "rec type",
order_view.record_num AS "rec #",
order_view.material_type_code AS "o mat type",
order_view.order_status_code AS "o status",
order_record_cmf.fund_code,
fund_master.code_num,
fund_master.code AS fund
FROM
sierra_view.holding_view,
sierra_view.varfield,
sierra_view.holding_record_location,
sierra_view.bib_view,
sierra_view.bib_record_holding_record_link,
sierra_view.bib_record_order_record_link,
sierra_view.order_view,
sierra_view.order_record_cmf,
sierra_view.fund_master
WHERE
varfield.record_id = holding_view.id AND
holding_record_location.holding_record_id = holding_view.id AND
bib_view.id = bib_record_holding_record_link.bib_record_id AND
bib_record_holding_record_link.holding_record_id = holding_view.id AND
bib_record_order_record_link.bib_record_id = bib_view.id AND
order_view.id = bib_record_order_record_link.order_record_id AND
order_record_cmf.order_record_id = order_view.id AND
fund_master.code_num = order_record_cmf.fund_code::integer AND
holding_record_location.location_code = 'mmpd' AND
order_view.order_status_code = 'f';
```

Remove:

holding_record_location.location_code = 'mmpd'
order_view.order_status = 'f'

Or at least change to variables appropriate to your system!

Query: Checkin Records and Fund Codes

Data Output		Explain	Messages	History												
	rec type character	rec # integer	Title character varying(1000)	rec type character	# integer	scode2 character	info character varying(20001)	info character	loc character	rec type character	rec # integer	o mat character	o status character	fund_code character v	code_num integer	fund character
1	b	503689	Clinics in sports medicine	c	106244	-	81990979	f	mmpd	o	185566	u	f	00117	117	lp216
2	b	503689	Clinics in sports medicine	c	106244	-	ISSUES ARRIVE BOUND, ADD ITEM RECORD, TARGET, AND BARCODE.	n	mmpd	o	185566	u	f	00117	117	lp216
3	b	503689	Clinics in sports medicine	c	106244	-	P.O. A31677	o	mmpd	o	185566	u	f	00117	117	lp216
4	b	503689	Clinics in sports medicine	c	106244	-	a23(2004)-	h	mmpd	o	185566	u	f	00117	117	lp216
5	b	503689	Clinics in sports medicine	c	106244	-	paper	i	mmpd	o	185566	u	f	00117	117	lp216

Data is output in the way our Serials staff can work with.

Serials staff only needed:

h tagged |a11(2009)-

c tagged |a SHELVED UNDER: Manufacturing & service operations management

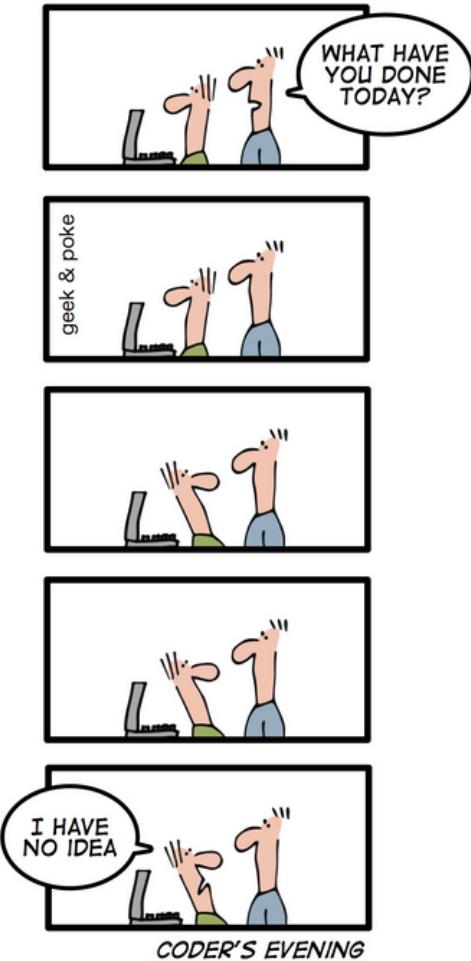
Using Excel they can filter out the data they don't need and remove fields.

b	932289	Manufacturing & service operations management : MaSOM	c	125036	-	503488 vol. yr. color 460 WB	w
b	932289	Manufacturing & service operations management : MaSOM	c	125036	-	42778461	f
b	932289	Manufacturing & service operations management : MaSOM	c	125036	-	aSHELVED UNDER: Manufacturing & service operations management	c
b	932289	Manufacturing & service operations management : MaSOM	c	125036	-	Bind 1 volume (4 issues).	n
b	932289	Manufacturing & service operations management : MaSOM	c	125036	-	a11(2009)-	h
b	932289	Manufacturing & service operations management : MaSOM	c	125036	-	paper/electronic	i

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
1	rec record_nu	title	rec#	sco	field_content		varfield_type	location_code	rec record_	mate	orde	fund_c	code_n	code		
2	b	1503689	Clinics in sports medicine	c	106244	-	81990979	f	mmpd	o	185566	u	f	117	117	lp216
3	b	1503689	Clinics in sports medicine	c	106244	-	ISSUES ARRIVE BOUND, ADD ITEM RECORD, TARGET, AND BARCODE.	n	mmpd	o	185566	u	f	117	117	lp216
4	b	1503689	Clinics in sports medicine	c	106244	-	P.O. A31677	o	mmpd	o	185566	u	f	117	117	lp216
5	b	1503689	Clinics in sports medicine	c	106244	-	a23(2004)-	h	mmpd	o	185566	u	f	117	117	lp216
6	b	1503689	Clinics in sports medicine	c	106244	-	paper	i	mmpd	o	185566	u	f	117	117	lp216



Questions?



www.geek-and-poke.com

<http://geekandpoke.typepad.com/.a/6a00d8341d3df553ef0147e22b2371970b-pi>

SQL Query: Records deleted on a specific date

table: record_metadata

The screenshot shows the 'Properties' tab selected in the SSMS ribbon. In the object browser on the left, 'record_metadata' is selected. A context menu is open over the table, with 'View Data' highlighted. A sub-menu for 'View Data' is displayed, containing 'View Top 100 Rows', which is also highlighted with a mouse cursor.

Right click on
Record_metadata
Highlight: View Data
Click View Top 100
Rows

SQL Query: Records deleted on a specific date table: record_metadata

	id bigint	record_type character(1)	record_num integer	creation_date timestamp with	deletion_date_gmt date	campus_code character varying	agency_code smallint	num_revision integer	record_last_updated_gmt timestamp with time zone	previous_last_updated_gmt timestamp with time zone
1	45097268008	i	1114007		2012-03-06	''	0	0		
2	42090851773	b	1722728		2012-09-27	''	0	0		
3	42090851773	b	1722731	1992-06-19 04		''	0	4	2008-09-11 18:16:14-04	2004-08-23 19:38:40-04
4	42090950453	b	2709531	2005-01-03 14		''	0	5	2010-08-18 01:00:51-04	2010-08-17 14:22:56-04

Useful information:

Sierra Bib Record Number

Sierra Item Record Number

Record Deletion date

Excellent lightweight table to use if you experience connection timeout issues.

	record_type character(1)	record_num integer	creation_date timestamp with	deletion_date_gmt date
18	i	1114007		2012-03-06
13	b	1722728		2012-09-27
13	b	1722731	1992-06-19 04	
13	b	2709531	2005-01-03 14	

SQL Query: Records deleted on a specific date

Table: record_metadata

Table: record_metadata

```
SELECT id, record_type_code, record_num, creation_date_gmt,  
deletion_date_gmt, campus_code, agency_code_num,  
num_revisions, record_last_updated_gmt,  
previous_last_updated_gmt  
FROM sierra_view.record_metadata  
WHERE record_metadata.deletion_date_gmt = '2009-02-24';
```

	Data	Output	Explain	Messages	History	
	id <small>bigint</small>	record_type_code <small>character(1)</small>	record_num <small>integer</small>	creation_date_gmt <small>timestamp with time zone</small>	deletion_date_gmt <small>date</small>	
1	18026	b	1723018		2009-02-24	
2	11157	i	1045077		2009-02-24	
3	22535	b	1727527		2009-02-24	
4	21596	i	1055516		2009-02-24	
5	32503	i	1066423		2009-02-24	

SQL Query: Records deleted on a specific date

Table: record_metadata

Concatenate review:

Combine record_type_code with record_num, put an 'a' and end, and label with "Record Num"

```
SELECT
id,
record_type_code||'a'AS "Record Num",
record_num,
creation_date_gmt,
deletion_date_gmt,
campus_code,
agency_code_num,
num_revisions,
record_last_updated_gmt,
previous_last_updated_gmt
FROM sierra_view.record_metadata
WHERE record_metadata.deletion_date_gmt = '2009-02-24';
```

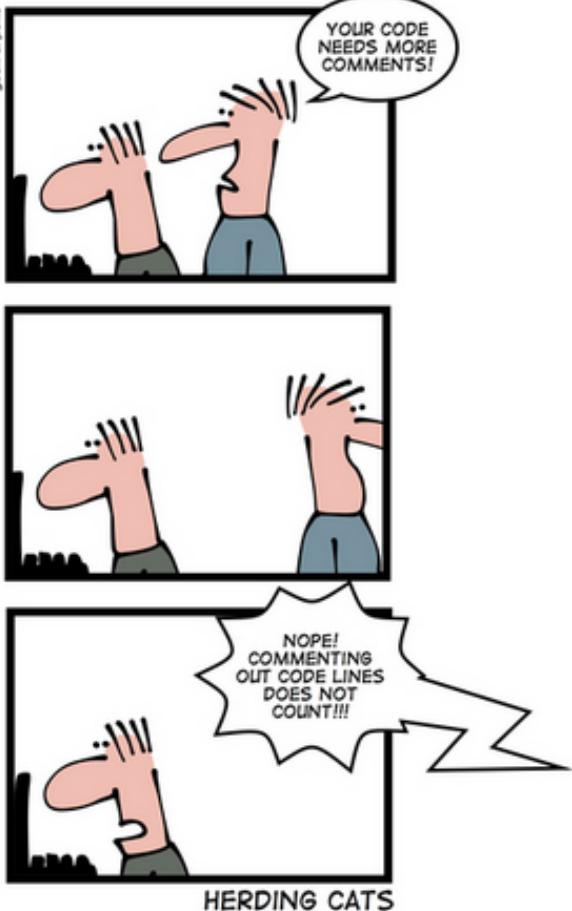
SQL Query: Records deleted on a specific date

Table: record_metadata

Data Output		Explain	Messages	History		
	id bigint	Record Num text	creation_date_gmt timestamp with time zone	deletion_date_gmt date		
1	18026	b1723018a		2009-02-24		
2	11157	i1045077a		2009-02-24		
3	22535	b1727527a		2009-02-24		
4	21596	i1055516a		2009-02-24		
5	32503	i1066423a		2009-02-24		
6	60862	i1094782a		2009-02-24		

Much Nicer.

Now you can cut and paste rec number strait into Sierra without having to enter record type or adding the checkdigit!



Questions?

<http://static.squarespace.com/static/518f5d62e4b075248d6a3f90/t/53879919e4b07a163543ecd2/1401395512301/?format=500w>

St. Francis

T-6-N

Query information from a Sierra Review File

Two Tables:

bool_info
bool_set

Milwaukee
Lake

Michigan

W. Allis

St. Francis

Query information from a Sierra Review File

bool_info

techdocs.iii.com/sierradna/Home,\$DirectLink.sdirect?sp=SOther

Google

Sierra SQL Help ↗

Search Views

All fields (change)

Entities

Generic Record

Authority

Bib

Contact

Course

Holding

Invoice

Item

License

Order

Patron

Program

Resource

Section

Vendor

Volume

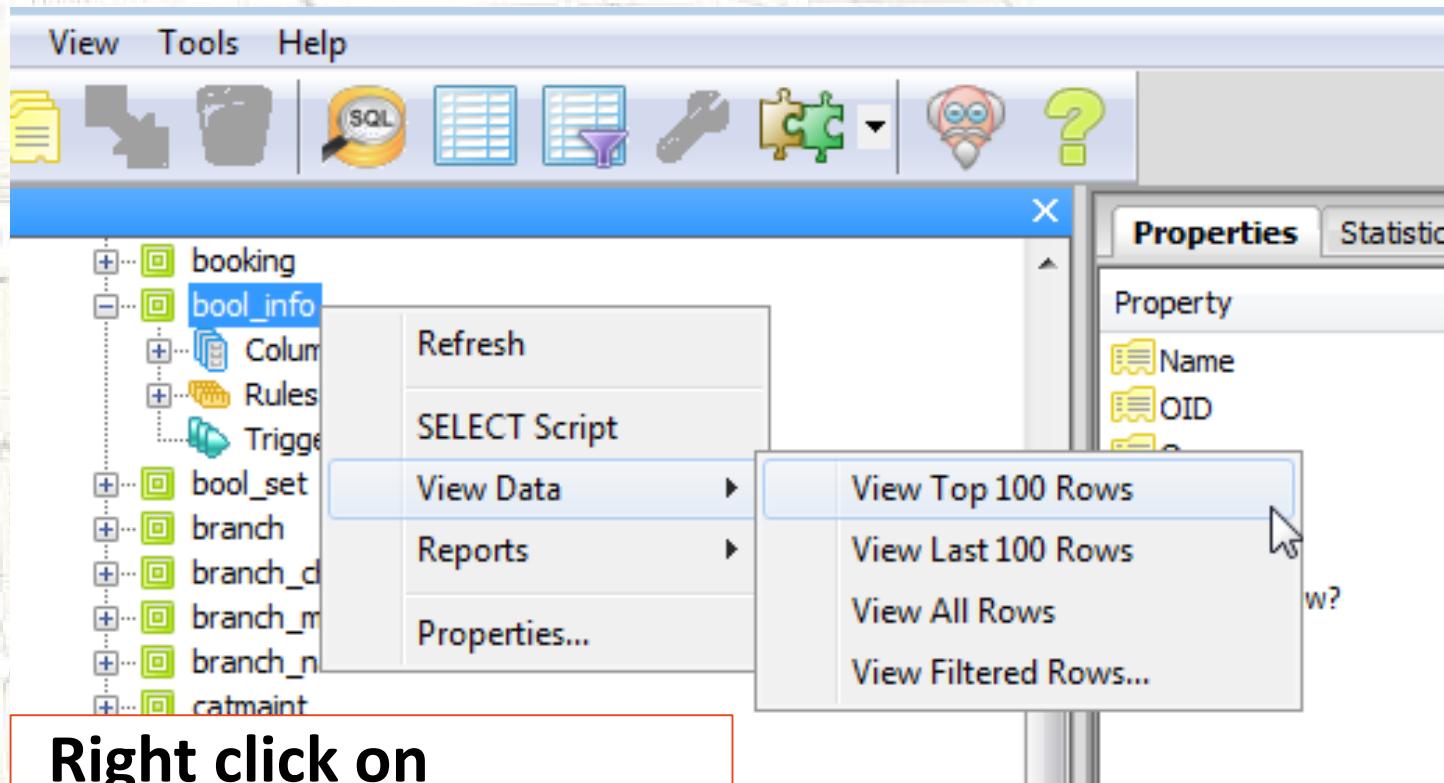
Other

bool_info

Each row of bool_info contains state information about a Boolean review file. Each time a user searches, sorts, lists, or exports a Boolean review file search on a Sierra client, the server saves this state information.

Column	Data Type	Not NULL?	Comment
id	bigint	false	System-generated sequential ID.
name	varchar	false	Review file name.
max	int	false	The maximum number of records the review file holds.
count	int	false	The number of records in the review file result set.
record_type_code	char	false	The type of records to which the range specification applies.
record_range	varchar	false	The range of records specified for the search.
bool_gmt	timestampz	false	Timestamp indicating the Boolean query's most recent run.

Query information from a Sierra Review File



Right click on
Bool_info
Highlight: View Data
Click View Top 100
Rows

Query information from a Sierra Review File

Edit View Tools Help

100 rows

id bigint	name character varying(512)	max integer	count integer	record_type_ character(1)	record_range character var	bool_gmt timestamp w	bool_query text	sql_query text
37	MFiche List #37 4-29-2014 jf	500	500	i	i1000000-47	2014-05-01	q:i:b:0::=:a11343783418:	((SELECT DISTINCT(iiirec
83	JL mmpd .i rec STAT=m	2500	158	i	i1000000-47	2014-03-31	^:i: :79::=:mmpd :	((SELECT DISTINCT(iiirec
142	level 1 mark	15000	79	i	i1000000-47	2014-04-25	^:i: :72::=1:	((SELECT DISTINCT(iiirec

Review File Information

Edit View Tools Help

100 rows

id bigint	name character varying(512)	max integer	count integer
37	MFiche List #37 4-29-2014 jf	500	500
83	JL mmpd .i rec STAT=m	2500	158
142	level 1 mark	15000	79

Review File: sql_query text

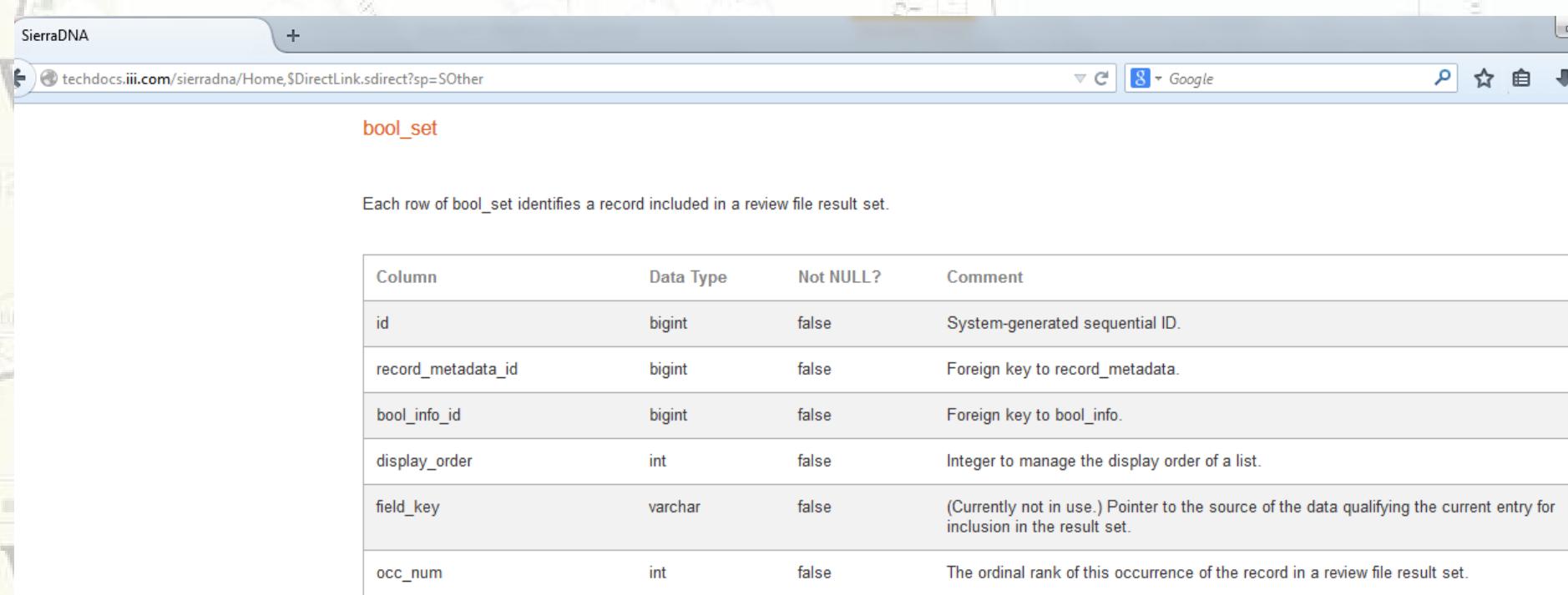
sql_query
text

```
((SELECT DISTINCT(iiirecord.varfield.record_id) AS recid , 37 FROM iiirecord.va
```

Query information from a Sierra Review File

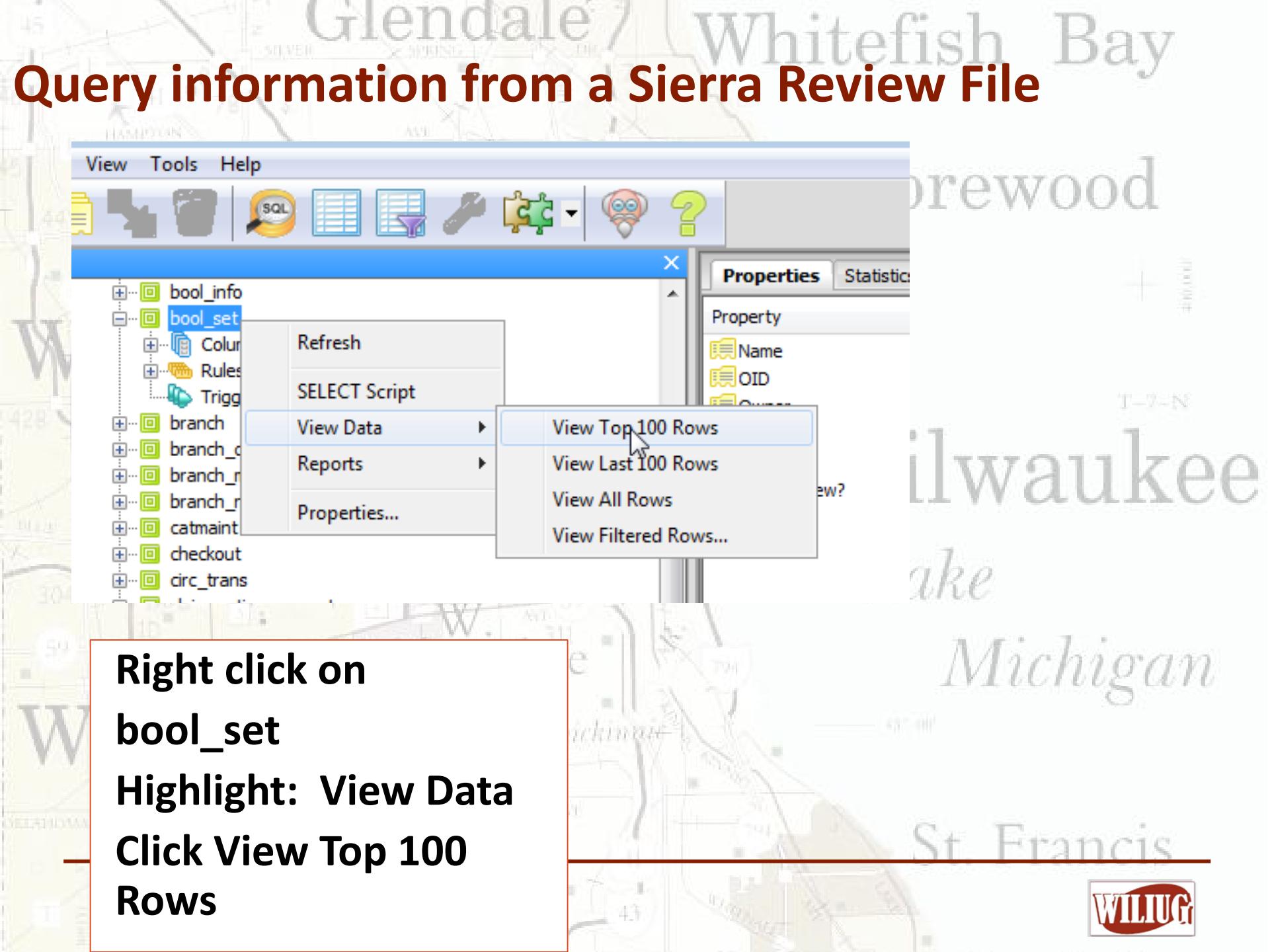
Two Tables: `bool_set`

[http://techdocs.iii.com/sierradna/Home,\\$DirectLink.sdirect?sp=SOther](http://techdocs.iii.com/sierradna/Home,$DirectLink.sdirect?sp=SOther)



The screenshot shows a web browser window with the title "SierraDNA". The address bar contains the URL "techdocs.iii.com/sierradna/Home,\$DirectLink.sdirect?sp=SOther". The page content is titled "bool_set" and includes a descriptive text: "Each row of bool_set identifies a record included in a review file result set." Below this is a table with the following columns:

Column	Data Type	Not NULL?	Comment
id	bigint	false	System-generated sequential ID.
record_metadata_id	bigint	false	Foreign key to record_metadata.
bool_info_id	bigint	false	Foreign key to bool_info.
display_order	int	false	Integer to manage the display order of a list.
field_key	varchar	false	(Currently not in use.) Pointer to the source of the data qualifying the current entry for inclusion in the result set.
occ_num	int	false	The ordinal rank of this occurrence of the record in a review file result set.



Right click on
bool_set
Highlight: **View Data**
**Click View Top 100
Rows**

Query information from a Sierra Review File

Edit View Tools Help								
					100 rows			
id bigint	name character varying(512)	max integer	count integer	record_type_ character(1)	record_range character var	bool_gmt timestamp w	bool_query text	sql_query text
37	MFiche List #37 4-29-2014 jf	500	500	i	i1000000-47	2014-05-01	q:i:b:0::=a11343783418:	((SELECT DISTINCT(iiirec
83	JL mmpd .i rec STAT=m	2500	158	i	i1000000-47	2014-03-31	^:i: :79::=mmpd :	((SELECT DISTINCT(iiirec
142	level 1 mark	15000	79	i	i1000000-47	2014-04-25	^:i: :72::=1:	((SELECT DISTINCT(iiirec

Review File contents

Edit Data - sierra-db.bgsu.edu (sierra-db.bgsu.edu:1032) - iii - sierra_view.bool_set						
File Edit View Tools Help						
	id bigint	record_metadata_ bigint	bool_info_id bigint	display_order integer	field_key character var	occ_num integer
1	102881522	450974255082	19			
2	97495435	450974103098	168	5407		1
3	97495436	450975016968	168	5408		1
4	97495437	450974104130	168	5409		1
5	97495438	450975016973	168	5410		1
6	97495439	450974104131	168	5411		1
7	96734264	450974424201	25			
8	96734265	450974550555	25			
9	96734266	450974424202	25			
10	96734270	450974028759	25			
11	96734271	450974028763	25			
12	96922566	450972566084	159			
13	96751738	450973910848	25			

You would have to join this table with others and probably limit by bool_info_id To get only contents of a single review file.

Query information from a Sierra Review File

Table Structure									
	id bigint	name character varying(512)	max integer	count integer	record_type character(1)	record_range character var	bool_gmt timestamp w	bool_query text	sql_query text
37	MFiche List #37 4-29-2014 jf		500	500	i	i1000000-47	2014-05-01	q:i:b:0::=a11343783418:	((SELECT DISTINCT (iiire
83	JL mmpd .i rec STAT=m		2500	158	i	i1000000-47	2014-03-31	^:i: :79::=mmpd :	((SELECT DISTINCT (iiirec
142	level 1 mark		15000	79	i	i1000000-47	2014-04-25	^:i: :72::=1:	((SELECT DISTINCT (iiirec

bool_query text	sql_query text
q:i:b:0::a11343783418:	((SELECT DISTINCT(iiirecord.varfield.record_id) AS recid , 37 FROM iiirecord.varfield WHERE (iiirecord.varfie

Copy and Past the sql_query into notepad to view the sql statement that your review file uses!

```
_replace(varfield.field_content, E'^\\\\\\a', '')') = E'a11343783418' AND (iiirecord.varfield.record_id) BETWEEN 450!
```

Query information from a Sierra Review File

Editor Graphical Query Builder

```
graph LR; bool_info[bool_info] -->|many-to-many| bool_set[bool_set]; bool_info -->|many-to-many| bib_view[bib_view]; bool_set -->|many-to-one| bib_view
```

Criteria | Ordering | Joins |

Restricted Value	Operator	Value
bool_info.id	+ -	'148'

Connect and limit to review file 148



Query information from a Sierra Review File

SQL Editor

Graphical Query Builder

Previous queries

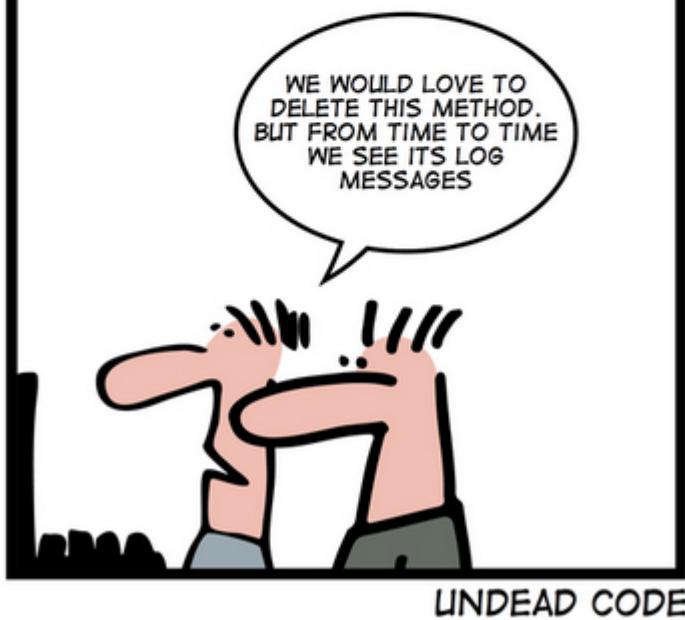
```
SELECT
    bib_view.record_type_code,
    bib_view.record_num,
    bib_view.title|
FROM
    sierra_view.bool_set,
    sierra_view.bib_view,
    sierra_view.bool_info
WHERE
    bool_set.bool_info_id = bool_info.id AND
    bib_view.id = bool_set.record_metadata_id AND
    bool_info.id = '148';
```

Query information from a Sierra Review File

- **SELECT**
- **bib_view.record_type_code,**
- **bib_view.record_num,**
- **bib_view.title**
- **FROM**
- **sierra_view.bool_set,**
- **sierra_view.bib_view,**
- **sierra_view.bool_info**
- **WHERE**
- **bool_set.bool_info_id = bool_info.id**
- **AND**
- **bib_view.id =**
- **bool_set.record_metadata_id AND**
- **bool_info.id = '148';**

Query information from a Sierra Review File

Data Output			
	record_type_code character(1)	record_num integer	title character varying(1000)
1	b	1000296	Short-title catalogue of books printed in England, Scotland, Ireland, Wales, and British America.
2	b	1000297	Early Englishbooks, 1641-1700 : selected from Donald Wing's Short Title catalogue ; a guide to
3	b	1014101	The history of Bowling Green State University
4	b	1027043	World radio TV handbook
5	b	1030940	The Book of the States
6	b	1036711	Table of integrals, series, and products
7	b	1041091	Government finance statistics yearbook
8	b	1048967	Chemical Abstracts Service source index.
9	b	1049709	Annual book of ASTM standards
10	b	1055872	Guide to American Indian documents in the Congressional Serial Set, 1817-1899 : a project of the Library of Congress
11	b	1055901	Commemorative, historical and biographical record of Wood County, Ohio; its past and present, etc.
12	b	1066106	Roget's II : the new thesaurus



<http://static.squarespace.com/static/518f5d62e4b075248d6a3f90/t/537292cce4b09a4c092035a6/1400017638527/?format=750w>

Questions?

SQL editor: text only queries

Count attached item records

Count attached item records from a bib review file

Regular Expressions

SQL Query: Count attached item records

One thing a Query can do that Sierra can't is count attached records!

Sierra Documentation and “Examples of PostgreSQL statements for use within Sierra” by Heather McHenry in IUG Clearinghouse show this.
Heather’s actually worked on my system!

The screenshot shows a web browser displaying the "Sierra documentation" website. The left sidebar contains a navigation menu with items like "Sierra Guide", "Sierra Reference", "Sierra Administration", "Sierra Dashboard", "Sierra Direct SQL Access" (which is expanded), and "Query Examples". The "Query Examples" item is highlighted with a light gray background. The main content area has a title "Cataloging Information" and two expandable examples:

- Example: Bibs with creation date <x> with at least one attached item with creation date <y>
- Example: Bibs with more than <x> items

The second example is expanded, showing the following PostgreSQL query:

```
EXPLAIN ANALYZE SELECT
    b.record_num AS "bib_record",
    date(b.cataloguing_date_gmt) AS "bib_catalogued_dt",
    b.title AS "bib_title",
    a.item_count AS "item_count"
FROM
    (SELECT
        l.bib_record_id AS "bib_record_id",
        count(l.id) AS "item_count"
    FROM
        sierra_view.bib_record_item_record_link l
    GROUP BY l.bib_record_id
    HAVING count(l.id) > 100) AS a
    JOIN sierra_view.bib_view b ON a.bib_record_id = b.id
```

SQL Query: Count attached item records

Heather McHenry version

```
SELECT
    b.record_num      AS "bib_record",
    date(b.cataloging_date_gmt) AS "bib_cataloged_dt",
    b.title          AS "bib_title",
    a.item_count     AS "item_count"
FROM
(SELECT
    l.bib_record_id AS "bib_record_id",
    count(l.id) AS "item_count"
FROM
    sierra_view.bib_record_item_record_link l
GROUP BY l.bib_record_id
HAVING count(l.id) > 1) AS a
JOIN sierra_view.bib_view b ON a.bib_record_id = b.id
LIMIT 100
```

Change HAVING count(l.id)>1 AS a depending on how many copies you want to search for

SQL Query: Count attached item records

SQL Editor Graphical Query Builder

Previous queries

```
SELECT
    b.record_num AS "bib_record",
    date(b.cataloging_date_gmt) AS "bib_cataloged_dt",
    b.title AS "bib_title",
    a.item_count AS "item_count"
FROM
    (SELECT
        l.bib_record_id AS "bib_record_id",
        count(l.id) AS "item_count"
    FROM
        sierra_view.bib_record_item_record_link l
    GROUP BY l.bib_record_id
    HAVING count(l.id) > 1) AS a
    JOIN sierra_view.bib_view b ON a.bib_record_id = b.id
LIMIT 100
```

Output pane

Data Output Explain Messages History

	bib_record integer	bib_cataloged_dt date	bib_title character varying(1000)	item_count bigint
1	1000003	1992-05-01	Causal inferences in nonexperimental research	3
2	1000004		Methodology in social research, qualitative and quantitative approaches	4
3	1000005		Theory construction; from verbal to mathematical	2
4	1000008	1992-05-01	Explanation in social science, theory and method	3
5	1000009	1992-05-01	Modern systems research for the behavioral sciences	2
6	1000014		Theory building	2
7	1000016	2008-07-15	Evaluation studies review annual	13

WILLUG

SQL Query: Count attached item records from bib record review file

SELECT

```
'b'||b.record_num||'a' AS "bib_record",
b.title          AS "bib_title",
a.item_count     AS "item_count",
'i'||rm.record_num||'a' AS "item_record",
ir.location_code AS "location_code"
```

FROM

(SELECT

```
l.bib_record_id AS "bib_record_id",
count(l.id) AS "item_count"
```

FROM

```
sierra_view.bib_record_item_record_link l
```

GROUP BY l.bib_record_id

HAVING count(l.id) > 1) AS a

```
INNER JOIN sierra_view.bib_view b ON a.bib_record_id = b.id
```

```
INNER JOIN sierra_view.bool_set sb ON a.bib_record_id = sb.record_metadata_id
```

```
INNER JOIN sierra_view.bool_info bo ON bo.id = sb.bool_info_id AND sb.bool_info_id ='148'
```

```
INNER JOIN sierra_view.bib_record_item_record_link bi ON b.id = bi.bib_record_id
```

```
INNER JOIN sierra_view.record_metadata rm ON bi.item_record_id = rm.id
```

```
INNER JOIN sierra_view.item_record ir ON bi.item_record_id = ir.id
```

SQL Query: Count attached item records from bib record review file

Data Output Explain Messages History

	bib_record text	bib_title character varying(1000)	item_count bigint	item_record text	location_code character varying
72	b1014101a	The history of Bowling Green State University	12	i1020405a	mmrf
73	b1014101a	The history of Bowling Green State University	12	i1020406a	mamo
74	b1014101a	The history of Bowling Green State University	12	i1020408a	mmrf
75	b1014101a	The history of Bowling Green State University	12	i2864861a	ffmo
76	b1014101a	The history of Bowling Green State University	12	i2864863a	ffmo
77	b1014101a	The history of Bowling Green State University	12	i3065717a	mmmo
78	b1014101a	The history of Bowling Green State University	12	i3065718a	mmmo
79	b1014101a	The history of Bowling Green State University	12	i3065719a	mmmo
80	b1014101a	The history of Bowling Green State University	12	i3833029a	mmmo
81	b1014101a	The history of Bowling Green State University	12	i3833030a	mmmo
82	b1014101a	The history of Bowling Green State University	12	i4081966a	mamor

SQL Query: Count attached item records from bib record review file – add a hotlink to opac

SELECT

```
'b'||b.record_num||'a' AS "bib_record",
b.title          AS "bib_title",
a.item_count     AS "item_count",
'i'||rm.record_num||'a' AS "item_record",
ir.location_code AS "location_code",
'http://maurice.bgsu.edu/record=b'||b.record_num||'a' AS "URL"
```



FROM

(SELECT

```
l.bib_record_id AS "bib_record_id",
count(l.id) AS "item_count"
```

FROM

```
sierra_view.bib_record_item_record_link l
```

GROUP BY l.bib_record_id

HAVING count(l.id) > 1) AS a

```
INNER JOIN sierra_view.bib_view b ON a.bib_record_id = b.id
```

```
INNER JOIN sierra_view.bool_set sb ON a.bib_record_id = sb.record_metadata_id
```

```
INNER JOIN sierra_view.bool_info bo ON bo.id = sb.bool_info_id AND sb.bool_info_id ='148'
```

```
INNER JOIN Sierra_view.bib_record_item_record_link bi ON b.id = bi.bib_record_id
```

```
INNER JOIN sierra_view.record_metadata rm ON bi.item_record_id = rm.id
```

```
INNER JOIN sierra_view.item_record ir ON bi.item_record_id = ir.id
```

SQL Query: Count attached item records from bib record review file – add a hotlink to opac

	Data Output	Explain	Messages	History		
	bib_record text	bib_title character varying(1000)	item_count bigint	item_record text	location_code character varying(5)	URL text
1	b1000296a	Short-title catalogu	4	i1000414a	mmrf	http://maurice.bgsu.edu/record=b1000296a
2	b1000296a	Short-title catalogu	4	i1000415a	mmrf	http://maurice.bgsu.edu/record=b1000296a
3	b1000296a	Short-title catalogu	4	i1000416a	mmrf	http://maurice.bgsu.edu/record=b1000296a
4	b1000296a	Short-title catalogu	4	i1000417a	mmrf	http://maurice.bgsu.edu/record=b1000296a
5	b1000297a	Early Englishbooks,	66	i1000418a	mmrf	http://maurice.bgsu.edu/record=b1000297a
6	b1000297a	Early Englishbooks,	66	i1000419a	mmrf	http://maurice.bgsu.edu/record=b1000297a
7	b1000297a	Early Englishbooks,	66	i1000420a	mmrf	http://maurice.bgsu.edu/record=b1000297a
8	b1000297a	Early Englishbooks,	66	i1000421a	mmrf	http://maurice.bgsu.edu/record=b1000297a

SQL Query: Count attached item records from bib record review file – add a hotlink to opac

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW ASAP Utilities ACROBAT

HYPERLINK : =HYPERLINK(F1) I

	A	B	C	D	E	F	G
1	bib_record	bib_title	item_count	item_record	location_code	URL	=HYPERLINK(F1)
2	b1000296a	Short-title catalogue of books printed in England, Scotland, Ireland, Wales, and British Amer	4	i1000414a	mmrf	http://maurice.bgsu.edu/record=b1000296a	http://maurice.bgsu.edu/record=b1000296a
3	b1000296a	Short-title catalogue of books printed in England, Scotland, Ireland, Wales, and British Amer	4	i1000415a	mmrf	http://maurice.bgsu.edu/record=b1000296a	http://maurice.bgsu.edu/record=b1000296a
4	b1000296a	Short-title catalogue of books printed in England, Scotland, Ireland, Wales, and British Amer	4	i1000416a	mmrf	http://maurice.bgsu.edu/record=b1000296a	http://maurice.bgsu.edu/record=b1000296a
5	b1000296a	Short-title catalogue of books printed in England, Scotland, Ireland, Wales, and British Amer	4	i1000417a	mmrf	http://maurice.bgsu.edu/record=b1000296a	http://maurice.bgsu.edu/record=b1000296a
6	b1000297a	Early Englishbooks, 1641-1700 : selected from Donald Wing's Short Title catalogue ; a guide to t	66	i1000418a	mmrf	http://maurice.bgsu.edu/record=b1000297a	http://maurice.bgsu.edu/record=b1000297a
7	b1000297a	Early Englishbooks, 1641-1700 : selected from Donald Wing's Short Title catalogue ; a guide to t	66	i1000419a	mmrf	http://maurice.bgsu.edu/record=b1000297a	http://maurice.bgsu.edu/record=b1000297a
8	b1000297a	Early Englishbooks, 1641-1700 : selected from Donald Wing's Short Title catalogue ; a guide to t	66	i1000420a	mmrf	http://maurice.bgsu.edu/record=b1000297a	http://maurice.bgsu.edu/record=b1000297a
9	b1000297a	Early Englishbooks, 1641-1700 : selected from Donald Wing's Short Title catalogue ; a guide to t	66	i1000421a	mmrf	http://maurice.bgsu.edu/record=b1000297a	http://maurice.bgsu.edu/record=b1000297a
10	b1000297a	Early Englishbooks, 1641-1700 : selected from Donald Wing's Short Title catalogue ; a guide to t	66	i1000422a	mmrf	http://maurice.bgsu.edu/record=b1000297a	http://maurice.bgsu.edu/record=b1000297a
11	b1000297a	Early Englishbooks, 1641-1700 : selected from Donald Wing's Short Title catalogue ; a guide to t	66	i1000423a	mmrf	http://maurice.bgsu.edu/record=b1000297a	http://maurice.bgsu.edu/record=b1000297a
12	b1000297a	Early Englishbooks, 1641-1700 : selected from Donald Wing's Short Title catalogue ; a guide to t	66	i1000424a	mmrf	http://maurice.bgsu.edu/record=b1000297a	http://maurice.bgsu.edu/record=b1000297a
13	b1000297a	Early Englishbooks, 1641-1700 : selected from Donald Wing's Short Title catalogue ; a guide to t	66	i1000425a	mmrf	http://maurice.bgsu.edu/record=b1000297a	http://maurice.bgsu.edu/record=b1000297a
14	b1000297a	Early Englishbooks, 1641-1700 : selected from Donald Wing's Short Title catalogue ; a guide to t	66	i1000426a	mmrf	http://maurice.bgsu.edu/record=b1000297a	http://maurice.bgsu.edu/record=b1000297a
15	b1000297a	Early Englishbooks, 1641-1700 : selected from Donald Wing's Short Title catalogue ; a guide to t	66	i1000427a	mmrf	http://maurice.bgsu.edu/record=b1000297a	http://maurice.bgsu.edu/record=b1000297a
16	b1000297a	Early Englishbooks, 1641-1700 : selected from Donald Wing's Short Title catalogue ; a guide to t	66	i1000428a	mmrf	http://maurice.bgsu.edu/record=b1000297a	http://maurice.bgsu.edu/record=b1000297a
17	b1000297a	Early Englishbooks, 1641-1700 : selected from Donald Wing's Short Title catalogue ; a guide to t	66	i1000429a	mmrf	http://maurice.bgsu.edu/record=b1000297a	http://maurice.bgsu.edu/record=b1000297a

Save As .csv

Import into Excel

Add a new column

Use formula:

=HYPERLINK(F1)

And the text is turned into a hyperlink!

SQL Query: Regular expressions

Don you dislike the subfield information?

	bib_record	bib_title	item_count	call number
	text	character varying(1000)	bigint	character varying(1000)
1	b1000296a	Short-title catalogu	4	pref aZ2002.W5
2	b1000296a	Short-title catalogu	4	pref aZ2002.W5
3	b1000296a	Short-title catalogu	4	pref aZ2002.W5
4	b1000296a	Short-title catalogu	4	pref aZ2002.W5
5	b1000297a	Early Englishbooks,	66	pref aZ2002.W523x
6	b1000297a	Early Englishbooks,	66	pref aZ2002.W523x
7	b1000297a	Early Englishbooks,	66	pref aZ2002.W523x
8	b1000297a	Early Englishbooks,	66	pref aZ2002.W523x

SQL Query: Regular Expressions

Don't you dislike the subfield information?

Take the line in SELECT and use regular expressions to remove.

`ip.call_number AS "call number"`

`TRIM(REGEXP_REPLACE(ip.call_number,'\\|.'','','g'))
AS "call_number no subfield"`

SQL Query: Regular expressions

```
SELECT
    sb.bool_info_id      AS "Review File",
    'b'||b.record_num||'a' AS "bib_record",
    b.title               AS "bib_title",
    a.item_count          AS "item_count",
    ip.call_number         AS "call number",
    TRIM(REGEXP_REPLACE(ip.field_content,'\\|','\n'))  
AS "call_number no subfield",

FROM
(SELECT
    l.bib_record_id AS "bib_record_id",
    count(l.id) AS "item_count"
FROM
    sierra_view.bib_record_item_record_link l
GROUP BY l.bib_record_id
HAVING count(l.id) > 1) AS a

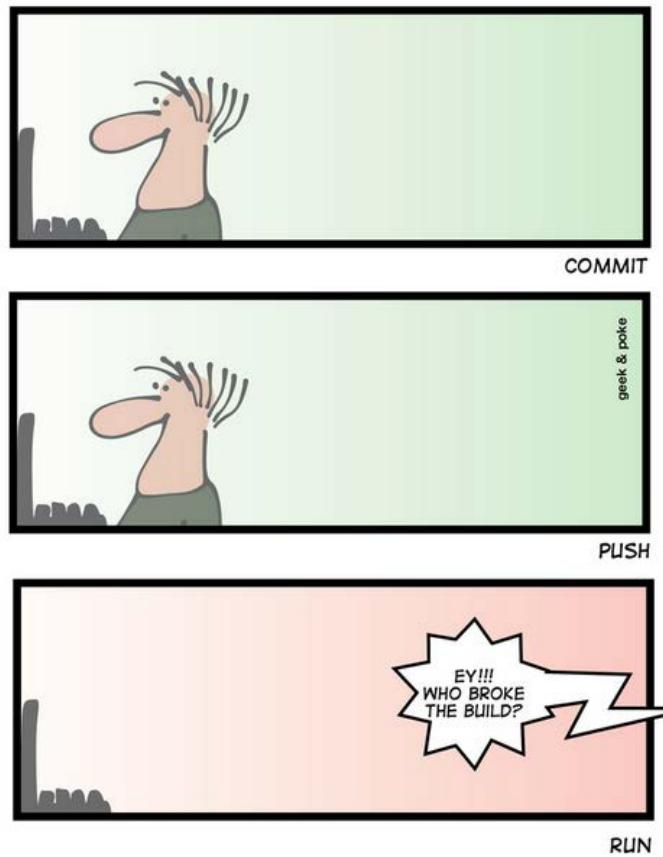
INNER JOIN sierra_view.bib_view b ON a.bib_record_id = b.id
INNER JOIN sierra_view.bool_set sb ON a.bib_record_id = sb.record_metadata_id
INNER JOIN sierra_view.bool_info bo ON sb.bool_info_id = bo.id
INNER JOIN Sierra_view.bib_record_item_record_link bi ON b.id = bi.bib_record_id
INNER JOIN sierra_view.item_record_property ip ON bi.item_record_id = ip.item_record_id
INNER JOIN sierra_view.varfield va ON bi.item_record_id = va.record_id
WHERE sb.bool_info_id = '148'
```

SQL Query: Regular expressions

Data Output Explain Messages History					
	bib_record text	bib_title character varying(1000)	item_count bigint	call number character varying(1000)	call_number no subfield text
1	b1000296a	Short-title catalogu	4	pref a22002.W5	ref Z2002.W5
2	b1000296a	Short-title catalogu	4	pref a22002.W5	ref Z2002.W5
3	b1000296a	Short-title catalogu	4	pref a22002.W5	ref Z2002.W5
4	b1000296a	Short-title catalogu	4	pref a22002.W5	ref Z2002.W5
5	b1000297a	Early Englishbooks,	66	pref a22002.W523x	ref Z2002.W523x
6	b1000297a	Early Englishbooks,	66	pref a22002.W523x	ref Z2002.W523x
7	b1000297a	Early Englishbooks,	66	pref a22002.W523x	ref Z2002.W523x
8	b1000297a	Early Englishbooks,	66	pref a22002.W523x	ref Z2002.W523x

DEVELOPMENT CYCLE

FRIDAY EVENING EDITION



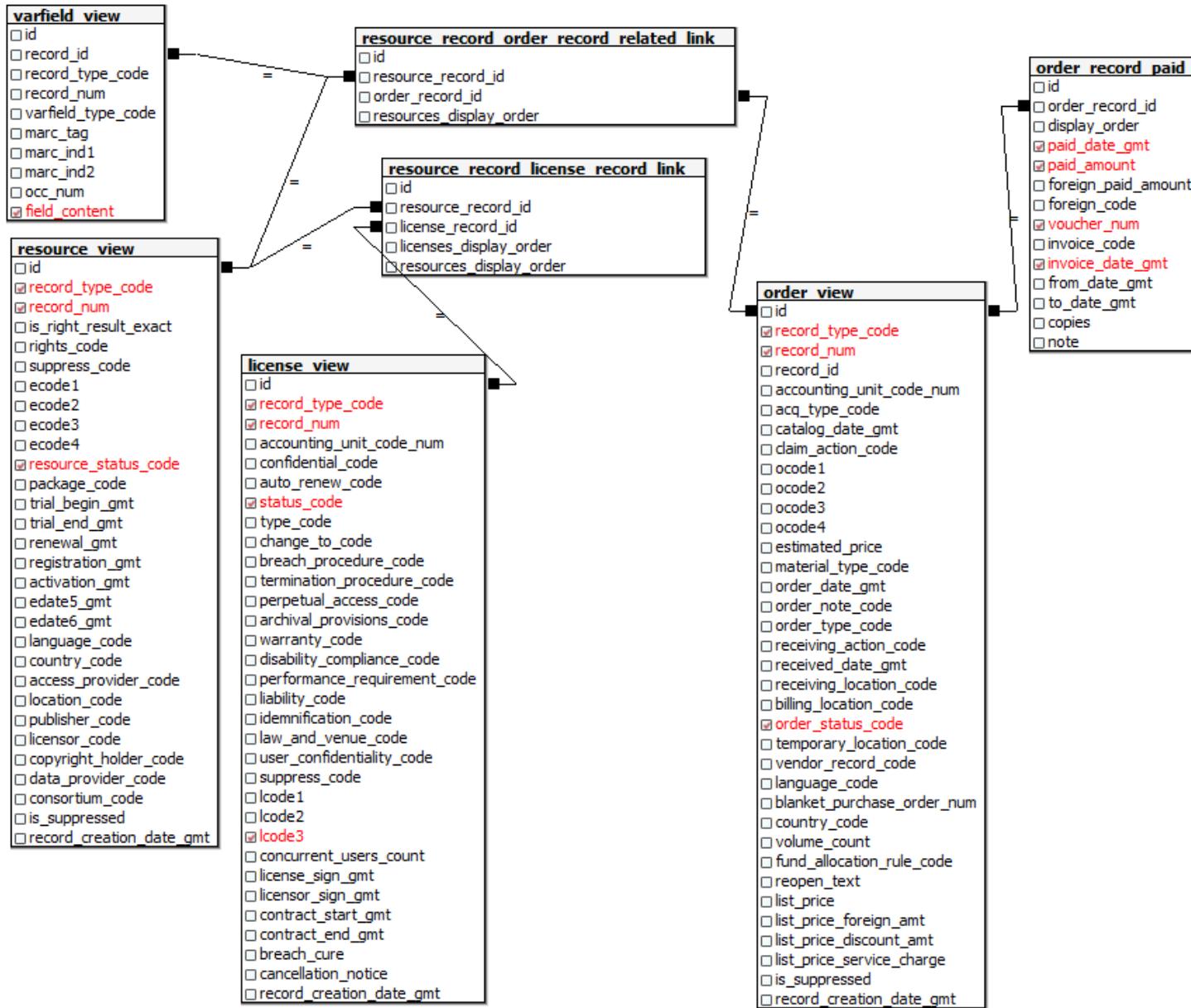
Questions?

<http://static.squarespace.com/static/518f5d62e4b075248d6a3f90/t/530a43dae4b064ec81ac1d89/1393181664444/?format=750w>

License Record/Order Record Query

- If you use ERM, create lists does not allow you to export Resource record, License record, and Order record information with the data connections that my staff needed.
- This section will examine how to make a query to get around this create list limitation.

License Record / Order Record Query



License Record / Order Record Query

- Tables to Connect:
- varfield_view
- resource_record_order_record_related_link
- order_view
- order_record_paid
- resource_view
- resource_record_license_record_link
- license_view

License Record / Order Record Query

Columns

Criteria

Ordering

Joins

	Relation	Column	Alias
1	varfield_view	field_content	Title
2	resource_view	record_type_code	Rec Type
3	resource_view	record_num	Resource Rec #
4	resource_view	resource_status_code	Res Status
5	order_view	record_type_code	Rec Type
6	order_view	record_num	Ord Rec #
7	order_view	order_status_code	O Status
8	order_record_paid	paid_date_gmt	Paid Date
9	order_record_paid	paid_amount	Paid Amount
10	order_record_paid	invoice_date_gmt	Invoice Date
11	order_record_paid	voucher_num	Invoice #
12	license_view	record_type_code	Rec Type
13	license_view	record_num	License Rec #
14	license_view	status_code	Lic Status
15	license_view	lcode3	Campus

- Alias entry



Glendale Whitefish Bay License Record / Order Record Query

Resource Record and the fields

I am trying to limit.

`varfield_view.record_type_code = 'e' AND`

e10000021 Last Updated: 09-09-2013

Rights Type

LICENSED

Suppress

- DISPLAY NORMAL

Funding Model

2 OL PAY TO PLAY

Ext Fund Source

1 ---

Resource Type

b DB: Not SerSOL

Usage Stats

e COUNTER-SUSHI

Resource Status

- ACTIVE

`resource_record.resource_status_code = '-'`

t

EconLit

p

EconLit

d

Economics

b

Index to Journal Articles



License Record / Order Record Query

Columns Criteria Ordering Joins

	Restricted Value	Operator	Value	Connector	
1	varfield_view.record_type_code	[+] =	'e'	[+]	AND
2	varfield_view.varfield_type_code	[+] =	't'	[+]	AND
3	resource_view.resource_status_code	[+] =	'-	[+]	AND
4	order_record_paid.paid_date_gmt	[+] >=	'07/01/2012'	[+]	AND

- varfield_view.record_type_code = 'e' AND
- varfield_view.varfield_type_code = 't' AND
- resource_record.resource_status_code = '-'
- order_record_paid.paid_date_gmt >= '07012012'

- Criteria entry

```
SELECT
varfield_view.field_content,
resource_view.record_type_code,
resource_view.record_num,
resource_view.resource_status_code,
order_view.record_type_code,
order_view.record_num,
order_view.order_status_code,
order_record_paid.paid_date_gmt,
order_record_paid.paid_amount,
order_record_paid.invoice_date_gmt,
order_record_paid.voucher_num,
license_view.record_type_code,
license_view.record_num,
license_view.status_code,
license_view.lcode3

FROM
sierra_view.varfield_view,
sierra_view.resource_record_order_record_related_link,
sierra_view.resource_view,
sierra_view.order_record_paid,
sierra_view.order_view,
sierra_view.license_view,
sierra_view.resource_record_license_record_link

WHERE
resource_record_order_record_related_link.resource_record_id =
resource_view.id AND
resource_record_order_record_related_link.order_record_id = order_view.id
AND
resource_record_order_record_related_link.resource_record_id =
varfield_view.record_id AND
order_record_paid.order_record_id = order_view.id AND
resource_record_license_record_link.resource_record_id = resource_view.id AND
resource_record_license_record_link.license_record_id = license_view.id AND
varfield_view.record_type_code = 'e' AND
varfield_view.varfield_type_code = 't' AND
resource_view.resource_status_code = '-' AND
order_record_paid.paid_date_gmt >= '07/01/2013';
```

License Record / Order Record Query

Shorewood

T-7-N

Milwaukee

Lake

Michigan

St. Francis

License Record / Order Record Query

Data Output Explain Messages History

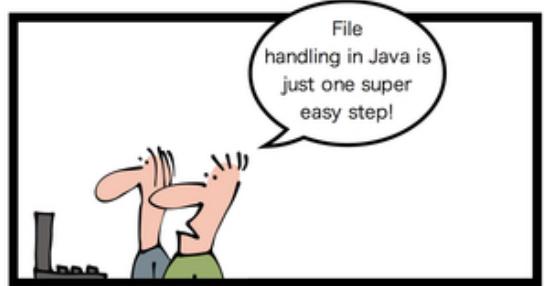
	field_content character varying(20001)	rec char integer	record_num integer	res cha char	rec cha char	record_num integer	or ch	paid_date_gm timestamp wit h	pa ch	invoice_date_gm timestamp wit h	voucher_ num integer	reco char	record_num integer	sta char char	lcode3 char char
1	EconLit	e	1000002	-	o	204429	g	2013-09-17 0000	0000	2013-06-01 0000	39171	1	1000239	v	a
2	EBSCO Databases (parent record)	e	1000004	-	o	344208	g	2014-01-16 0000	0000	2013-12-17 0000	39556	1	1000239	v	a
3	Linguistics and Language Behavior Abstracts	e	1000005	-	o	157215	g	2014-01-16 0000	0000	2014-01-06 0000	39555	1	1000351	e	b
4	Linguistics and Language Behavior Abstracts	e	1000005	-	o	157215	g	2014-01-16 0000	0000	2014-01-06 0000	39555	1	1000094	v	a
5	Library Literature & Information Science	e	1000010	-	o	102262	g	2013-09-17 0000	0000	2013-06-01 0000	39171	1	1000239	v	a
6	Education Full Text (former Wilson database)	e	1000014	-	o	102252	g	2013-11-14 0000	0000	2013-11-11 0000	39399	1	1000239	v	a
7	ARTstor	e	1000017	-	o	305015	f	2013-12-12 0000	0000	2013-10-31 0000	39516	1	1000046	v	b
8	JSTOR	e	1000029	-	o	221905	f	2014-01-24 0000	0000	2014-01-08 0000	39651	1	1000023	v	b
9	JSTOR	e	1000029	-	o	439058	a	2014-01-16 0000	0000	2013-12-16 0000	39554	1	1000023	v	b
10	Lexis-Nexis Academic	e	1000034	-	o	230640	g	2014-01-16 0000	0000	2013-11-18 0000	39557	1	1000093	v	a

- Output text!

Query Examples: License Record/Order Record

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Title	Rec Type	Resource Rec #	Res Status	Rec Type	Ord Rec #	O Status	Paid Date	Paid	Invoice Date	Invoice #	Rec Type	License Rec #	Lic Status	Campus
2	EconLit	e	1000002	-	o	204429	g	9/17/2013 0:00	###	6/1/2013 0:00	39171	I	1000239	v	a
3	EconLit	e	1000002	-	o	204429	g	8/27/2012 0:00	###	6/1/2012 0:00	37417	I	1000239	v	a
4	EBSCO Databases (parent record)	e	1000004	-	o	344208	g	1/16/2014 0:00	###	12/17/2013 0:00	39556	I	1000239	v	a
5	EBSCO Databases (parent record)	e	1000004	-	o	344208	g	8/27/2012 0:00	###	5/25/2012 0:00	37413	I	1000239	v	a
6	Linguistics and Language Behavior Abstracts	e	1000005	-	o	157215	g	1/16/2014 0:00	###	1/6/2014 0:00	39555	I	1000351	e	b
7	Linguistics and Language Behavior Abstracts	e	1000005	-	o	157215	g	1/25/2013 0:00	###	1/8/2013 0:00	38327	I	1000351	e	b
8	Linguistics and Language Behavior Abstracts	e	1000005	-	o	157215	g	1/16/2014 0:00	###	1/6/2014 0:00	39555	I	1000094	v	a
9	Linguistics and Language Behavior Abstracts	e	1000005	-	o	157215	g	1/25/2013 0:00	###	1/8/2013 0:00	38327	I	1000094	v	a
10	Library Literature & Information Science Full Text	e	1000010	-	o	102262	g	9/17/2013 0:00	###	6/1/2013 0:00	39171	I	1000239	v	a
11	Library Literature & Information Science Full Text	e	1000010	-	o	102262	g	8/27/2012 0:00	###	6/1/2012 0:00	37417	I	1000239	v	a
12	Education Full Text (former Wilson database)	e	1000014	-	o	102252	g	11/14/2013 0:00	###	11/11/2013 0:00	39399	I	1000239	v	a
13	Education Full Text (former Wilson database)	e	1000014	-	o	102252	g	8/27/2012 0:00	###	6/1/2012 0:00	37417	I	1000239	v	a
14	America: History and Life	e	1000016	-	o	377975	f	8/27/2012 0:00	###	5/25/2012 0:00	37413	I	1000239	v	a
15	ARTstor	e	1000017	-	o	305015	f	12/12/2013 0:00	###	10/31/2013 0:00	39516	I	1000046	v	b
16	ARTstor	e	1000017	-	o	305015	f	2/11/2013 0:00	###	11/30/2012 0:00	38377	I	1000046	v	b
17	JSTOR	e	1000029	-	o	221905	f	1/24/2014 0:00	###	1/8/2014 0:00	39651	I	1000023	v	b
18	JSTOR	e	1000029	-	o	221905	f	1/9/2013 0:00	###	1/3/2013 0:00	38196	I	1000023	v	b
19	JSTOR	e	1000029	-	o	439058	a	1/16/2014 0:00	###	12/16/2013 0:00	39554	I	1000023	v	b
20	Lexis-Nexis Academic	e	1000034	-	o	230640	g	1/16/2014 0:00	###	11/18/2013 0:00	39557	I	1000093	v	a
21	Lexis-Nexis Academic	e	1000034	-	o	230640	g	8/27/2012 0:00	###	5/25/2012 0:00	37413	I	1000093	v	a

- Output exported and open in Excel!



Java 101

Questions?

www.geek-and-poke.com

<http://static.squarespace.com/static/518f5d62e4b075248d6a3f90/t/51a1d7cbe4b029928eb994cb/1369561045761/fileio.jpg?format=500w>

Queries: Extremely Useful tables

Extremely Useful Tables:

record_metadata

bib_record_property

subfield_view

subfield

varfield_view

bool_info

bool_set

SQL Query: record_metadata

The screenshot shows a database interface with a sidebar on the left listing tables: record_metadata, record_range, record_type, record_type_myu, record_type_nam, request, request_rule, request_rule_comment, and resource_record. The 'record_metadata' table is selected, indicated by a blue border around its row in the sidebar and a blue selection bar at the top of the main pane. A context menu is open over the 'record_metadata' entry, with 'View Data' highlighted. A sub-menu for 'View Data' is displayed, containing 'View Top 100 Rows', 'View Last 100 Rows', 'View All Rows', and 'View Filtered Rows...'. The 'Properties' tab is selected in the top right corner of the interface.

Right click on
Record_metadata
Highlight: View Data
Click View Top 100
Rows

SQL Query: Records deleted on a certain date table: record_metadata

	id bigint	record_type_ character(1)	record_num integer	creation_date_ timestamp with	deletion_date_gmt date	campus_code character varying	agency_code smallint	num_revision integer	record_last_updated_gmt timestamp with time zone	previous_last_updated_gmt timestamp with time zone
1	45097268008	i	1114007		2012-03-06	''	0	0		
2	42090851773	b	1722728		2012-09-27	''	0	0		
3	42090851773	b	1722731	1992-06-19 04		''	0	4	2008-09-11 18:16:14-04	2004-08-23 19:38:40-04
4	42090950453	b	2709531	2005-01-03 14		''	0	5	2010-08-18 01:00:51-04	2010-08-17 14:22:56-04

Useful information:

Sierra Bib Record Number

Sierra Item Record Number

Record Deletion date

Excellent lightweight table to use if you experience connection timeout issues.

	record_type_ character(1)	record_num integer	creation_date_ timestamp with	deletion_date_gmt date
18	i	1114007		2012-03-06
13	b	1722728		2012-09-27
13	b	1722731	1992-06-19 04	
13	b	2709531	2005-01-03 14	

pgAdmin III: Tables: bib_record_property

The screenshot shows the pgAdmin III interface. In the Object browser, the 'bib_record_property' table is selected. A context menu is open over the table, with 'View Data' selected. A sub-menu for 'View Data' is displayed, containing 'View Top 100 Rows', 'View Last 100 Rows', 'View All Rows', and 'View Filtered Rows...'. The 'Properties' tab is selected in the Properties panel, showing properties like Name (bib_record_property), OID (63784), and pdroot ({pdroot=arwdDxt/pdro}).

Right click on
bib_record_property
Highlight: View Data
Click View Top 100
Rows

pgAdmin III: Tables: bib_record_property

Edit Data - sierra-db.bgsu.edu (sierra-db.bgsu.edu:1032) - iii - sierra_view.bib_record_property							
	id integer bigint	bib_record_i character varying(1000)	bib_m char char	mat integer	publish_year character varying(1000)	best_title_norm character varying(1000)	best_author character varying(1000)
1	1	28189598679	All about my brother : an eight-year-old sist	m	a	all about my brother an eight year old s	Peralta, Sarah.
2	2	56337086158	Who took my shoe? / written by Karen Emigh ; ill	m	a	who took my shoe	Emigh, Karen
3	3	84484584725	Martian in the playground : understanding the	m	a	martian in the playground understanding	Sainsbury, Clare
4	4	84484584633	The speed of dark / Elizabeth Moon	m	a	speed of dark	Moon, Elizabeth
5	5	11263208171	Good luck glasses / by Sara London ; illustrated	m	a	good luck glasses	London, Sara
6	6	14077957915	The black book of colors / by Menena Cottin and	m	a	black book of colors	Cottin, Menena
7	7	16892707684	It's hard to be a verb! / written by Julia Cook	m	a	its hard to be a verb	Cook, Julia, 1964-
8	8	19707457498	80HD : a child's perspective on ADHD / Trish Wm	m	a	80hd a childs perspective on adhd	Wood, Trish (Trish A. Miller)
9	9	2252207238	Putting on the brakes : understanding and takin	m	a	putting on the brakes understanding and	Quinn, Patricia O.
10	10	25336957000	Miss Little's gift / Douglas Wood ; illustrated	m	a	miss littles gift	Wood, Douglas, 1951-
11	11	2815170676	Special people, special ways / Arlene Maguire	m	a	special people special ways	Maguire, Arlene H., 1940-
12	12	3096645652	Howie helps himself. Illustrated by Joe Lasker	m	a	howie helps himself illustrated by joe l	Fassler, Joan
13	13	3378120628	Taking cerebral naps to school / written by M	m	a	taking cerebral naps to school	Anderson, Mary Elizabeth

Scratch pad

best_title_norm
character varying(1000)

all about my brother an eight year old s Peralta, Sarah.

who took my shoe Emigh, Karen

martian in the playground understanding Sainsbury, Clare

speed of dark Moon, Elizabeth

good luck glasses London, Sara

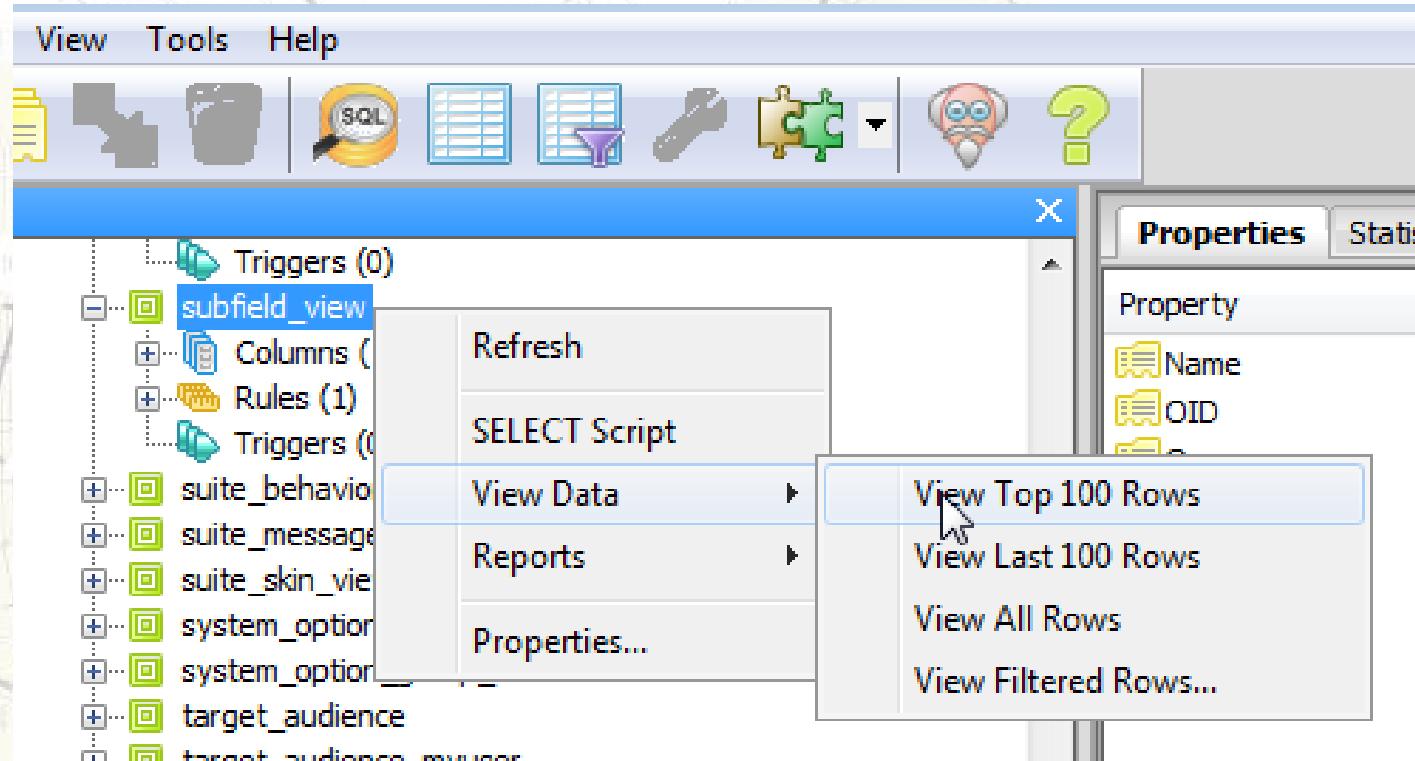
black book of colors Cottin, Menena

**Title's and
Author's**

If you only need author title info and not the bib record number this is a nice small table.



Glendale Whitefish Bay pgAdmin III: Tables: subfield_view



Right click on
subfield_view
Highlight: View Data
Click View Top 100
Rows

Glendale Whitefish Bay

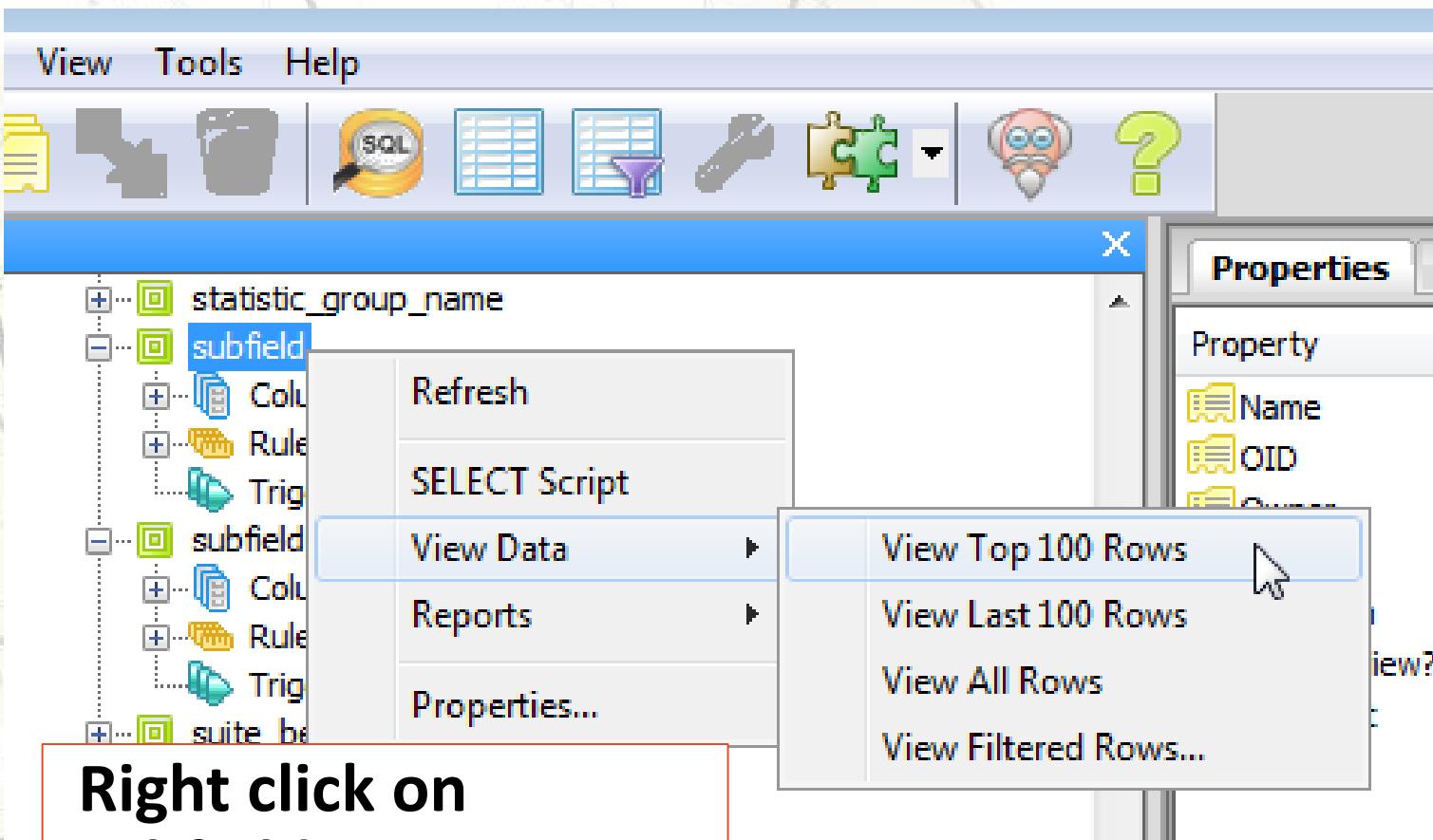
pgAdmin III: Tables: subfield_view

record_id bigint	record_type_ character(1)	record_num integer	varfield_id bigint	field_type_cc character(1)	marc_tag character	value	m ch int	m ch int	occ dis	tag int	content cha	character varying(20001)
420908517739	b	1722731	16347499	i	020				1 0	a	0688091385 (lib. bdg.)	
420908517739	b	1722731	16347498	i	020				0 1	c	\$13.95	
420908517739	b	1722731	16347498	i	020				0 0	a	0688081622 :	
420908517739	b	1722731	16347497	y	092				3 1	b	A76i	
420908517739	b	1722731	16347497	y	092				3 0	a	759.13	
420908517739	b	1722731	16347496	v	049				2 0	a	BGUi	
420	a	100		1 0 0 0	a	Arnovsky, Jim						
420	p	260		0 0 2	c	c1989						
420	p	260		0 0 1	b	Lothrop, Lee & Shepard Books,						
420	p	260		0 0 0	a	New York :						
420	r	300		0 2	c	22 x 26 cm						
420	r	300		0 1	b	col. ill. :						
420	r	300		0 0	a	28 p. :						
420	t	245	1 0 0 2	c	Jim Arnosky							
420	t	245	1 0 0 1	b	a portfolio of paintings /							
420	t	245	1 0 0 0	a	In the forest :							

MARC record subfields!



pgAdmin III: Tables: subfield



Right click on
subfield

Highlight: View Data
Click View Top 100
Rows

pgAdmin III: Tables: subfield

record_id bigint	varfield_id bigint	field_type_cd character(1)	marc_tag character varying	marc_ind1 character(1)	marc_ind2 character(1)	occ_num integer	display_order integer	tag character(1)	content character varying(20001)
29273878615	55427086	h				0	0		MOUNT CARMEL
13792694768	55427093	t				0	0		Angela's ashes / Frank McCourt,
13792694768	55427094	a				0	0		McCourt, Frank.
48962728051	55427117	r				0	0		EIEC 2150
48962728051	53561681	r				1	0		MUED 2460
45097617421	55181433	m				0	0		Check for flash card and battery in camera. Check in camera and bag (2 barcodes). Bag should have 1 barcode.
45097617422	55181432	m				0	0		Check for flash card and battery in camera. Check in camera and bag (2 barcodes). Bag should have 1 barcode.
53484755349	55427133	c				0	0		D511 .M269 2008

content character varying(20001)

MOUNT CARMEL

Angela's ashes / Frank McCourt.

McCourt, Frank.

EIEC 2150

MUED 2460

Check for flash card and battery in camera. Check in camera and bag (2 barcodes). Bag should have 1 barcode.

Check for flash card and battery in camera. Check in camera and bag (2 barcodes). Bag should have 1 barcode.

D511 .M269 2008

5596047 ohiol

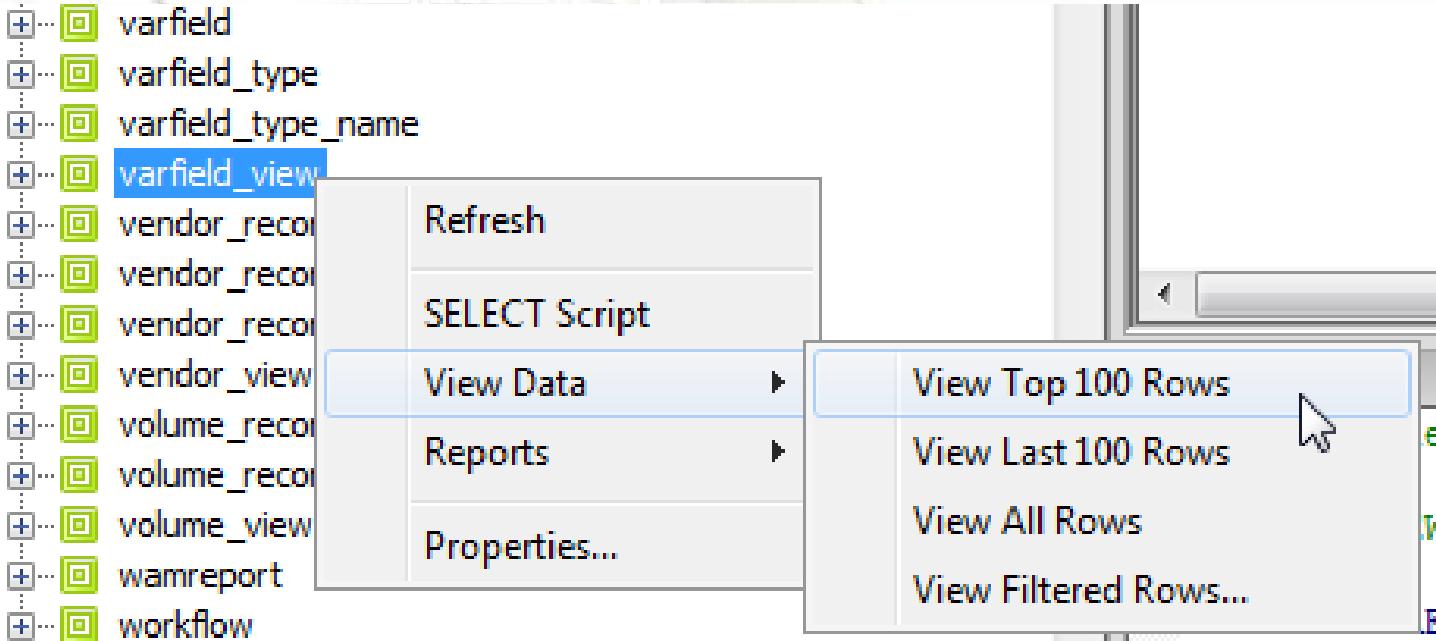
Here it comes again --

Learning how to hate --

0010350322

MARC record subfields!

pgAdmin III: varfield_view



Right click on
varfield_view
Highlight: View Data
Click View Top 100
Rows

pgAdmin III: varfield_view

The screenshot shows the pgAdmin III interface. On the left, there's a tree view of database objects under the 'varfield' schema. A context menu is open over the 'varfield_view' entry, with the 'View Data' option expanded. The 'View Top 100 Rows' option is highlighted with a blue selection bar and has a cursor arrow pointing at it. Other options in the submenu include 'View Last 100 Rows', 'View All Rows', and 'View Filtered Rows...'. The main pane below the tree view is currently empty.

You are shown data
in this table!

id bigint	record_id bigint	record_type character(1)	record_num integer	varfield_type character(1)	marc_tag character var	marc_ind1 character(1)	marc_ind2 character(1)	occ_num integer	field_content character varying(20001)
16347499	42090851773	b	1722731	i	020			1	a0688091385 (lib. bdg.)
16347498	42090851773	b	1722731	i	020			0	a0688081622 : c\$13.95
16347497	42090851773	b	1722731	y	092			3	a759.13 bA76i
16347496	42090851773	b	1722731	Y	049			2	aBGU
16347495	42090851773	b	1722731	Y	040			1	aDLC cDLC dBGU
16347494	42090851773	b	1722731	Y	005			0	19900828132459.0
16347493	42090851773	b	1722731	l	010			0	a89002341 /AC
16347490	42090851773	b	1722731	o	001			0	19354653
16347488	42090851773	b	1722731	n	520			1	aThe noted artist presents
16347486	42090851773	b	1722731	n	500			0	a\$13.88
16347483	42090851773	b	1722731	a	100	1	0	0	aArnosky, Jim
16347481	42090851773	b	1722731	p	260	0		0	aNew York : bLothrop, Lee
16347479	42090851773	b	1722731	r	300			0	a28 p. : bcol. ill. ; c22
16347477	42090851773	b	1722731	t	245	1	0	0	aIn the forest : ba portf
16347473	42090851773	b	1722731	d	650		0	1	aEcology xPictorial works
16347475	42090851773	b	1722731	e	250			0	alst ed
16347472	42090851773	b	1722731	d	650		0	0	aForest ecology xPictoria
33708258	42090950453	b	2709531	i	020			0	a0521837804
33708257	42090950453	b	2709531	y	082	0	0	6	a792/.082/094034 222
33708256	42090950453	b	2709531	Y	049			5	aBGU

pgAdmin III: Tables: Review File table: bool_info

Edit View Tools Help

100 rows

id bigint	name character varying(512)	max integer	count integer	record_type_ character(1)	record_range character var	bool_gmt timestamp w	bool_query text	sql_query text
37	MFiche List #37 4-29-2014 jf	500	500	i	i1000000-47	2014-05-01	q:i:b:0::=:a11343783418:	((SELECT DISTINCT(iiirec.varfield.record_id) AS recid , 37 FROM iiirecord.varfield WHERE record_type = 'i' AND record_range = 'i1000000-47' AND bool_gmt = '2014-05-01') AS t1 GROUP BY t1.recid HAVING COUNT(t1.recid) > 1))
83	JL mmpd .i rec STAT=m	2500	158	i	i1000000-47	2014-03-31	^:i: :79::=:mmpd :	((SELECT DISTINCT(iiirec.varfield.record_id) AS recid , 83 FROM iiirecord.varfield WHERE record_type = 'i' AND record_range = 'i1000000-47' AND bool_gmt = '2014-03-31') AS t1 GROUP BY t1.recid HAVING COUNT(t1.recid) > 1))
142	level 1 mark	15000	79	i	i1000000-47	2014-04-25	^:i: :72::=:1:	((SELECT DISTINCT(iiirec.varfield.record_id) AS recid , 142 FROM iiirecord.varfield WHERE record_type = 'i' AND record_range = 'i1000000-47' AND bool_gmt = '2014-04-25') AS t1 GROUP BY t1.recid HAVING COUNT(t1.recid) > 1))

Review File Information

Edit View Tools Help

100 rows

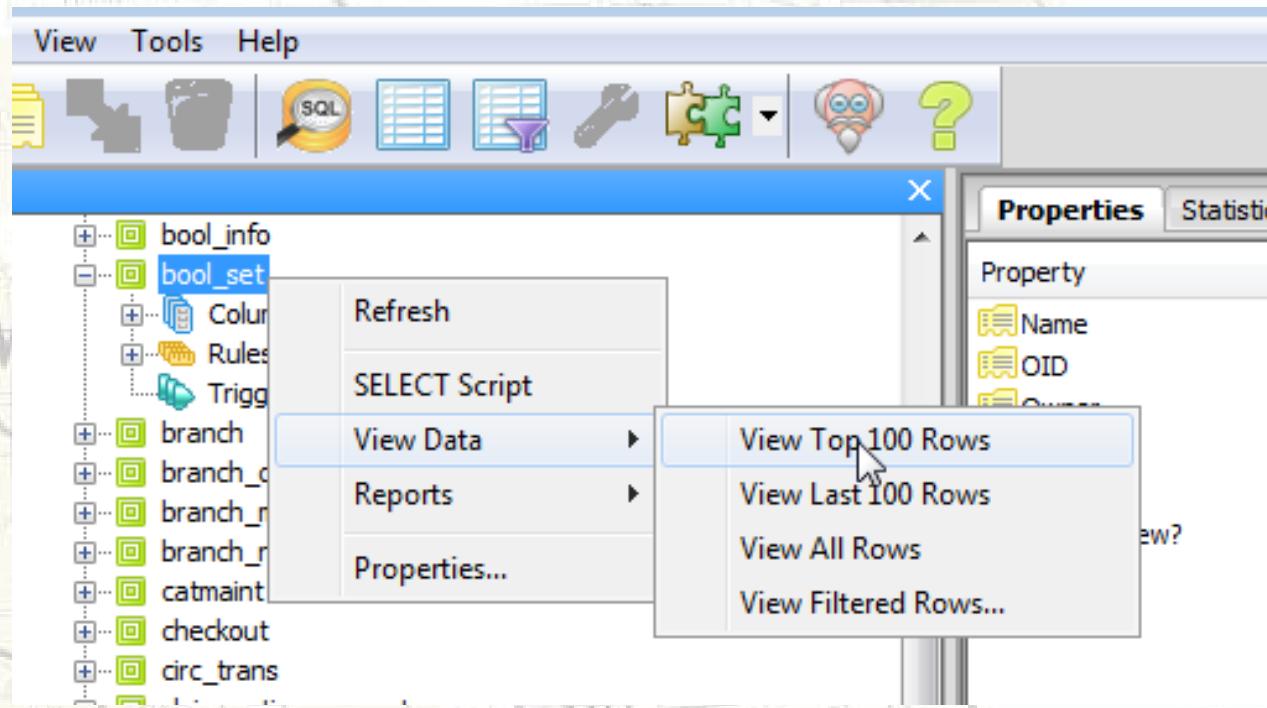
id bigint	name character varying(512)	max integer	count integer
37	MFiche List #37 4-29-2014 jf	500	500
83	JL mmpd .i rec STAT=m	2500	158
142	level 1 mark	15000	79

Review File: sql_query text

sql_query
text

```
((SELECT DISTINCT(iiirecord.varfield.record_id) AS recid , 37 FROM iiirecord.varfield WHERE record_type = 'i' AND record_range = 'i1000000-47' AND bool_gmt = '2014-05-01') AS t1 GROUP BY t1.recid HAVING COUNT(t1.recid) > 1))
```

pgAdmin III: Tables: Review File table: bool_set



Right click on
bool_set
Highlight: View Data
Click View Top 100
Rows

pgAdmin III: Tables: Review File: bool_set

Edit View Tools Help

100 rows

id bigint	name character varying(512)	max integer	count integer	record_type_ character(1)	record_range character var	bool_gmt timestamp w	bool_query text	sql_query text
37	MFiche List #37 4-29-2014 jf	500	500	i	i1000000-47	2014-05-01	q:i:b:0::=:a11343783418:	((SELECT DISTINCT(iiirec
83	JL mmpd .i rec STAT=m	2500	158	i	i1000000-47	2014-03-31	^:i: :79::=:mmpd :	((SELECT DISTINCT(iiirec
142	level 1 mark	15000	79	i	i1000000-47	2014-04-25	^:i: :72::=1:	((SELECT DISTINCT(iiirec

Review File contents

Edit Data - sierra-db.bgsu.edu (sierra-db.bgsu.edu:1032) - iii - sierra_view.bool_set

File Edit View Tools Help

100 rows

	id bigint	record_metadata_ bigint	bool_info_id bigint	display_order integer	field_key character var	occ_num integer
1	102881522	450974255082	19			
2	97495435	450974103098	168	5407		1
3	97495436	450975016968	168	5408		1
4	97495437	450974104130	168	5409		1
5	97495438	450975016973	168	5410		1
6	97495439	450974104131	168	5411		1
7	96734264	450974424201	25			
8	96734265	450974550555	25			
9	96734266	450974424202	25			
10	96734270	450974028759	25			
11	96734271	450974028763	25			
12	96922566	450972566084	159			
13	96751738	450973910848	25			

You would have to join this table with others and probably limit by bool_info_id To get only contents of a single review file.

pgAdmin III: Tables: Review File table: bool_set

Edit View Tools Help

100 rows

id bigint	name character varying(512)	max integer	count integer	record_type character(1)	record_range character var	bool_gmt timestamp w	bool_query text	sql_query text
37	MFiche List #37 4-29-2014 jf	500	500	i	i1000000-47	2014-05-01	q:i:b:0::=a11343783418:	((SELECT DISTINCT(iiirec
83	JL mmpd .i rec STAT=m	2500	158	i	i1000000-47	2014-03-31	^:i: :79::=mmpd :	((SELECT DISTINCT(iiirec
142	level 1 mark	15000	79	i	i1000000-47	2014-04-25	^:i: :72::=1:	((SELECT DISTINCT(iiirec

bool_query text	sql_query text
q:i:b:0::=a11343783418:	((SELECT DISTINCT(iiirecord.varfield.record_id) AS recid , 37 FROM iiirecord.varfield WHERE (iiirecord.varfie

Copy and Paste the sql_query into notepad to view the sql statement that your review file uses!

Untitled - Notepad

File Edit Format View Help

```
_replace(varfield.field_content, E'^\\\\\\a', '') = E'a11343783418' AND (iiirecord.varfield.record_id) BETWEEN 450!
```

Walk Aways

DO NOT execute queries without a limit unless you are sure that is what you want to do!

**Run, Stop delete the “;” from last line of query, then add
Limit 5;
And run again.**

Whenever using a Criteria to limit:

**ALWAYS USE single quotation mark ‘ ’ around characters or numbers. Value field reads:
‘b27478968’**

Walk Aways

Checkdigit: The Query output number is: 1065405

To use Sierra or Millennium client to search the .RECORD #

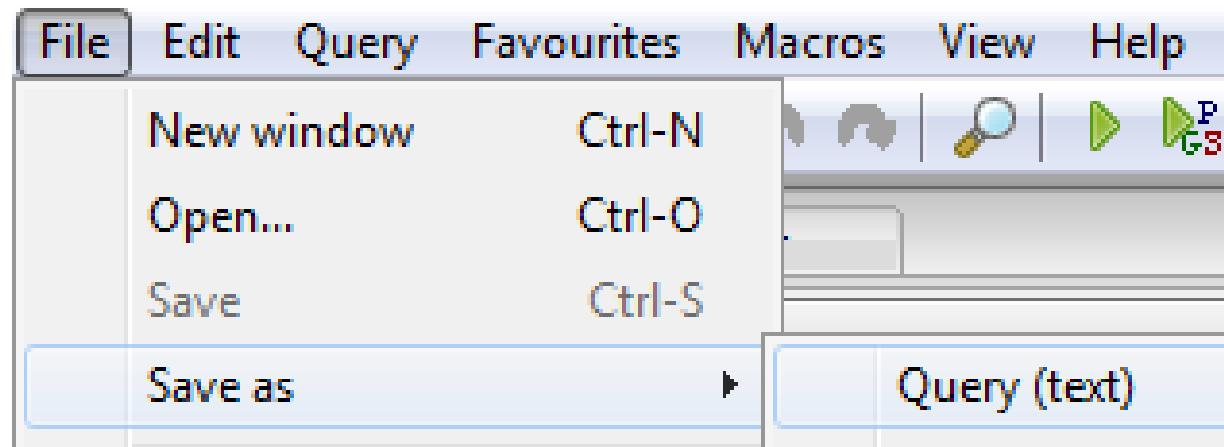
Add a “b” since we know it is a bib record

At the end add the “a”

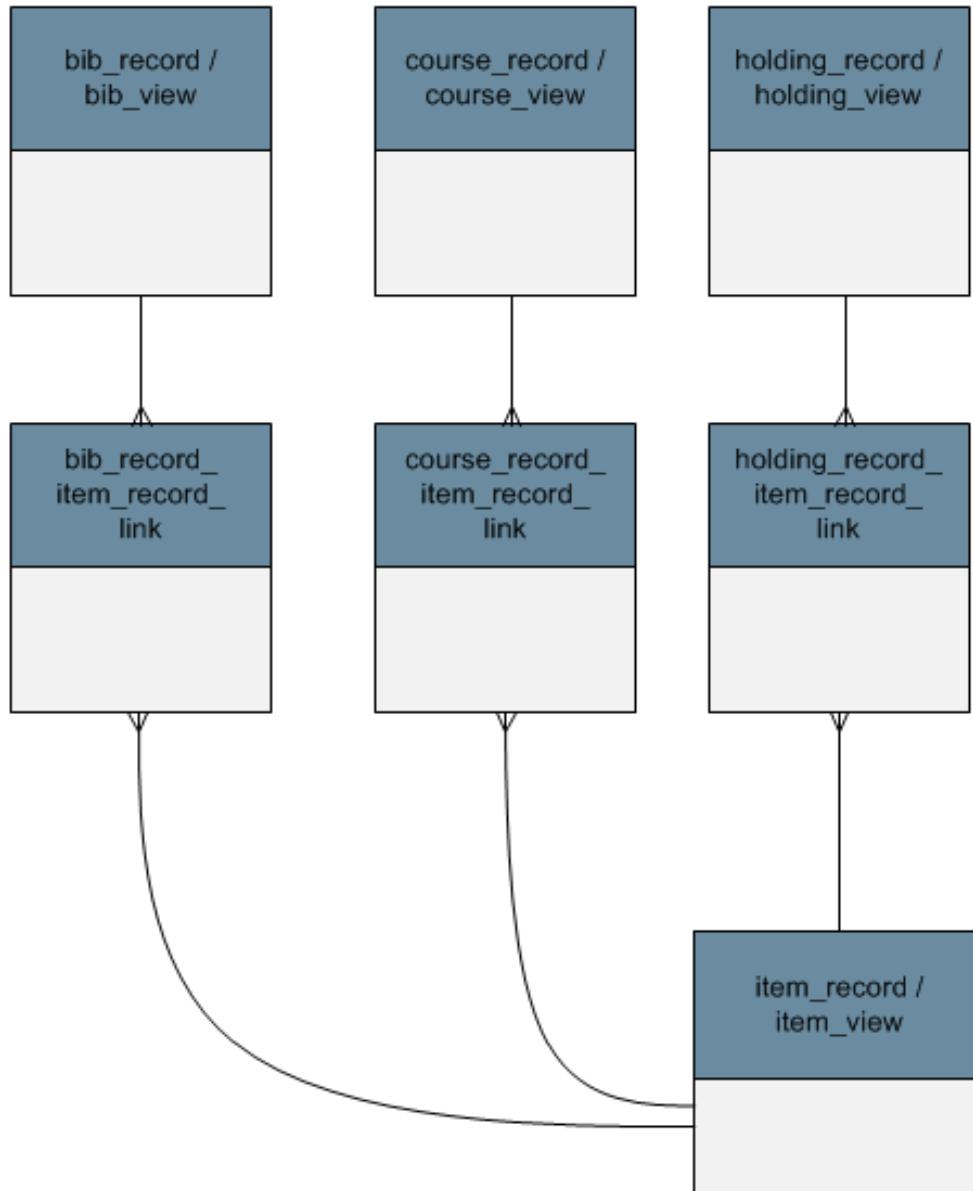
“a” at the end functions as single digit wildcard!

To Save: Use File Save As Query (text)

To generate a file you can run again!



Walk Aways



Techdoc ERD's can give you a clue as to what is the match point between tables.

**item record table
Item_view**

**Connects to table:
Bib_record_item_record_link**

**Which connects to:
bib_record**



Questions?

Thank You!

Mark Strang
Data Systems Manager
University Libraries
Bowling Green State University
mstrang@bgsu.edu

www.geek-and-poke.com

<http://geekandpoke.typepad.com/.a/6a00d8341d3df553ef0147e22b2371970b-pi>

St. Francis

T-6-N

Code to digest at your leisure!

This one export's bib and item info for a deduplication project

```
-- notes
-- (a) joins to varfield are 'outer' joins; in case the varfield is not
--     in the record, you still get the record
-- (b) subfields can be parsed from varfield.field_content with regular
--     expressions as done below, or one could join to the 'subfield'
--     view instead-
SELECT
    -item count
    a.item_count AS "item count",
    -bib fields
    'b'||b.record_num||'a' AS "bib record",
    b.title AS "title",
    bip.field_content AS "imprint",
    TRIM(REGEXP_REPLACE(bip.field_content,'\\.|:','g')) AS "imprint no subfield",
    -- item fields
    'i'||i.record_num||'a' AS "item record",
    i.item_status_code AS "i status",
    i.location_code AS "item loc",
    -ba.field_content AS "barcode item varfield_view",
    ic.marc_tag AS "marc_tag",
    ic.field_content AS "item_record_call_number",
    TRIM(REGEXP_REPLACE(ic.field_content,'\\.|:','g')) AS "call_number no subfield",
    iv.field_content AS "item_record_volume",
    i.last_checkin_gmt AS "last checkin",
    -iv.marc_tag AS "item_record_varfield_v_marc_tag"
    'http://maurice.bgsu.edu/record=b'||b.record_num||'a' AS "url"

FROM
    (SELECT
        l.bib_record_id AS "bib_record_id",
        count(l.id) AS "item_count"
    FROM
        sierra_view.bib_record_item_record_link l
    GROUP BY l.bib_record_id
    HAVING count(l.id) > 0) AS a

JOIN sierra_view.bib_view b
ON a.bib_record_id = b.id
JOIN sierra_view.bib_record_item_record_link birl
ON b.id = birl.bib_record_id
JOIN sierra_view.item_view i
ON birl.item_record_id = i.id

JOIN sierra_view.bool_set bs
ON b.id = bs.record_metadata_id
JOIN sierra_view.bool_info bi
ON bs.bool_info_id = bi.id AND bi.id = '148'

-- Join for item record varfield type code 'c'
LEFT OUTER JOIN sierra_view.varfield ic
ON i.id = ic.record_id AND ic.varfield_type_code = 'c'
-- Join for item record varfield type code 'v'
LEFT OUTER JOIN sierra_view.varfield iv
ON i.id = iv.record_id AND iv.varfield_type_code = 'v'
-- Join for bib record varfield type code 'c'
LEFT OUTER JOIN sierra_view.varfield bc
ON b.id = bc.record_id AND bc.varfield_type_code = 'c'
-- Join for item record varfield barcode 'b'
-- LEFT OUTER JOIN sierra_view.varfield ba  depo has multiple barcodes so lines will repeat
-- ON i.id = ba.record_id AND ba.varfield_type_code = 'b'
-- LEFT OUTER JOIN sierra_view.varfield bip
ON b.id = bip.record_id AND bip.varfield_type_code = 'p'
```

Code to digest at your leisure!

This one exports bib and item info for a deduplication project

70	b1049709a	Annual book of ASTM standards	aPhiladelphia, bAmerican Society for Testir Philadelphia, American Society for Tes	i2366377a	k	stop	50	pref aTA401.A653	ref TA401.A653	1994 Sec.4 pt.	12/9/1994 14:54	http://maurice.bgsu.edu/record=b1049709a
70	b1049709a	Annual book of ASTM standards	aPhiladelphia, bAmerican Society for Testir Philadelphia, American Society for Tes	i2367987a	k	stop	50	pref aTA401.A653	ref TA401.A653	1994 Sec.7 pt.2	11/5/2012 15:51	http://maurice.bgsu.edu/record=b1049709a
70	b1049709a	Annual book of ASTM standards	aPhiladelphia, bAmerican Society for Testir Philadelphia, American Society for Tes	i2369043a	c	mmrf	50	pref aTA401.A653	ref TA401.A653	1994 Sec.00 pt.1 (Index)	11/5/2012 15:51	http://maurice.bgsu.edu/record=b1049709a
1	b1055872a	Guide to American Indian docume	aNew York : bClearwater Pub. Co., cc1977	New York : Clearwater Pub. Co., c1977	c	mmrf	50	pref aKF8201.A163	ref KF8201.A163			http://maurice.bgsu.edu/record=b1055872a
4	b1055901a	Commemorative, historical and bi	aChicago, bJ. H. Beers & co., c1897	Chicago, J. H. Beers & co., 1897	i1078803a	c	mmrf	90	prefovsz aF497.W8C7 refovsz F497.W8C7 : v. 1		11/5/2012 15:51	http://maurice.bgsu.edu/record=b1055901a
4	b1055901a	Commemorative, historical and bi	aChicago, bJ. H. Beers & co., c1897	Chicago, J. H. Beers & co., 1897	i1078804a	c	mmrf	90	prefovsz aF497.W8C7 refovsz F497.W8C7 : v. 2		11/5/2012 15:51	http://maurice.bgsu.edu/record=b1055901a
4	b1055901a	Commemorative, historical and bi	aChicago, bJ. H. Beers & co., c1897	Chicago, J. H. Beers & co., 1897	i1078805a	c	mmrf	90	prefovsz aF497.W8C7 refovsz F497.W8C7 : v. 3Index			http://maurice.bgsu.edu/record=b1055901a
4	b1055901a	Commemorative, historical and bi	aChicago, bJ. H. Beers & co., c1897	Chicago, J. H. Beers & co., 1897	i3014319a	o	mamo	90	pcac[OG] aF497.W8C cac[OG] F497.W8C7 v.1 cop.2			http://maurice.bgsu.edu/record=b1055901a
2	b1066106a	Roget's II : the new thesaurus	aBoston : bHoughton Mifflin, c[1980]	Boston : Houghton Mifflin, [1980]	i1092600a	-	mmmc	50	aPE1591.R737	PE1591.R737	8/31/1997 14:17	http://maurice.bgsu.edu/record=b1066106a
2	b1066106a	Roget's II : the new thesaurus	aBoston : bHoughton Mifflin, c[1980]	Boston : Houghton Mifflin, [1980]	i1092601a	c	mmrf	50	pref aPE1591.R737	ref PE1591.R737		http://maurice.bgsu.edu/record=b1066106a
1	b1070671a	American periodicals, 1741-1900 : t	aAnn Arbor : bUniversity Microfilms Internat	Ann Arbor : University Microfilms Inte	i1098417a	c	mmrf	50	pref aZ6951.H65	ref Z6951.H65		http://maurice.bgsu.edu/record=b1070671a
1	b1079355a	The United States energy atlas	aNew York : bFree Press ; aLondon : bColli New York : Free Press ; London : Collie	i1110791a	c	mmrf	50	pref aTJ163.25.U6C83	ref TJ163.25.U6C83		http://maurice.bgsu.edu/record=b1079355a	
6	b1097909a	Baseball blue book	aSt. Petersburg, Fla., bBaseball Blue Book, St. Petersburg, Fla., Baseball Blue Boo	i1139438a	o	mpmo	90	ppop aGV862.B27	pop GV862.B27	1991		http://maurice.bgsu.edu/record=b1097909a
6	b1097909a	Baseball blue book	aSt. Petersburg, Fla., bBaseball Blue Book, St. Petersburg, Fla., Baseball Blue Boo	i1139439a	o	mpmo	90	ppop aGV862.B27	pop GV862.B27	1990		http://maurice.bgsu.edu/record=b1097909a

Code to digest at your leisure!

This one exports checkin and order record info for a deduplication project

SELECT

```
    bv.record_type_code||bv.record_num||'a' AS "Bib Record #",
    bv.title AS "Title",
    hv.record_type_code||hv.record_num||'a' AS "Holdings Record #",
    hv.scode2 AS "scode2",
```

```
    hh.varfield_type_code,
    hh.field_content AS "lib has",

    hn.varfield_type_code,
    hn.field_content AS "note field",
```

```
    hrl.location_code,
    ov.record_type_code||ov.record_num||'a' AS "Order Record #",
    ov.material_type_code,
    ov.order_status_code,
```

```
fm.code
```

```
FROM
sierra_view.order_record_cmf cmf
```

```
JOIN sierra_view.fund_master fm
ON cmf.fund_code::integer = fm.code_num
```

```
JOIN sierra_view.order_view ov
ON cmf.order_record_id = ov.id
```

```
JOIN sierra_view.bib_record_order_record_link brorl
ON ov.id = brorl.order_record_id
```

```
JOIN sierra_view.bib_view bv
ON brorl.bib_record_id = bv.id
```

```
JOIN sierra_view.bib_record_holding_record_link brhrl
ON bv.id = brhrl.bib_record_id
```

```
JOIN sierra_view.holding_view hv
ON brhrl.holding_record_id = hv.id
```

```
JOIN sierra_view.holding_record_location hrl
ON hv.id = hrl.holding_record_id
```

```
LEFT OUTER JOIN sierra_view.varfield hh
ON hv.id = hh.record_id AND hh.varfield_type_code = 'h'
```

```
LEFT OUTER JOIN sierra_view.varfield hn
ON hv.id = hn.record_id AND hn.varfield_type_code = 'n'
-- Join for bib record varfield type code 'n'
```

Code to digest at your leisure!

This one exports checkin and order record info for a deduplication project.

Data Output														
Bib Record #	Title character varying(1000)	Holdings Record #	scode2 character(1)	varfield_type_code character(1)	lib has character varying(2000)	varfield_type_code character(1)	note field character varying(2000)	location_code character varying(5)	Order Record #	material_type_code character(1)	order_status_code character(1)	code character varying(255)		
1	b3089768a Children's core coll	c105940a	-		n		SEND DIRECTLY TO CURR	mjrfo	o406863a	u	f	lp238		
2	b1105758a Food technology	c125930a	s	h	18(1964)-50(1996)			rmpd	o186775a	u	f	lp218		
3	b1105758a Food technology	c106351a	-	h	58(2004)-	n	TG-Bind issues 1-6, 7	mmpd	o186775a	u	f	lp218		
4	b2169804a Marketing science :	c124161a	s	h	16(1997)-20(2001)			rmpd	o188025a	x	f	lp222		
5	b2169804a Marketing science :	c117908a	-	h	23(2004)-	n	Bind 1 volume (6 issu	mmpd	o188025a	x	f	lp222		
6	b2169804a Marketing science :	c117908a	-	h	23(2004)-	n	JSTOR	mmpd	o188025a	x	f	lp222		
7	b1106155a Illinois journal of	c126504a	s	h	37(1993)-40(1996)			rmpd	o189514a	u	z	lp223		
8	b1106155a Illinois journal of	c104227a	-	h	48(2004)-	n	Bind issues 1-2, 3-4,	mmpd	o189514a	u	z	lp223		
9	b1106155a Illinois journal of	c104227a	-	h	48(2004)-	n	e-only in 2013	mmpd	o189514a	u	z	lp223		
10	b1332953a Review - Fernand Braudel	c127047a	s	h	2(1978)-19(1996)			rmpd	o188819a	u	f	lp217		
11	b1332953a Review - Fernand Braudel	c104403a	-	h	27(2004)-	n	Bind 1 volume (4 issu	mmpd	o188819a	u	f	lp217		
12	b1737202a Dollars & sense	c126215a	s	h	(1991)-(1995)			rmpd	o186719a	u	f	lp210		
13														

