



The Unofficial Guide to Sierra's SQL Views

Jeremy Goldstein

Minuteman Library Network

jgoldstein@minlib.net

508-655-8008 ext.222

Overview

- Views Not Tables
- 360 tables
 - 2780 columns
- How to reference a field
 - schema.table.column
 - sierra_view.item_record.id
 - Only other schema you can access is pg_catalog



Sierra DNA

Sierra DNA (Database Navigator)

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

Uses the same username & password as Supportal / CSDirect

patron_view

Each row of patron_view includes metadata and data for one patron record. The contents include identification and descriptive 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., 'p'.
record_num	int	false	Record number.
barcode	varchar	false	The patron's barcode.
ptype_code	int2	false	The type of patron. Used to define groups of patrons that may have different borrowing privileges. The library defines ptype codes and definitions.
home_library_code	varchar	false	The code for the patron's home library.
expiration_date_gmt	timestampz	false	The expiration date of the patron's borrowing privileges.
pcode1	char	false	The library determines the name and purpose of this code and the code's definition.
pcode2	char	false	The library determines the name and purpose of this code and the code's definition.
pcode3	int2	false	The library determines the name and purpose of this code and the code's definition.
pcode4	int	false	The library determines the name and purpose of this code and the code's definition.
birth_date_gmt	date	false	Patron date of birth.
mblock_code	char	false	Manual patron block. A value in this field prevents the patron from checking out items. The values of this field represent various common reasons a patron might be

The Sierra DNA describes all the SQL tables and the columns in those tables.

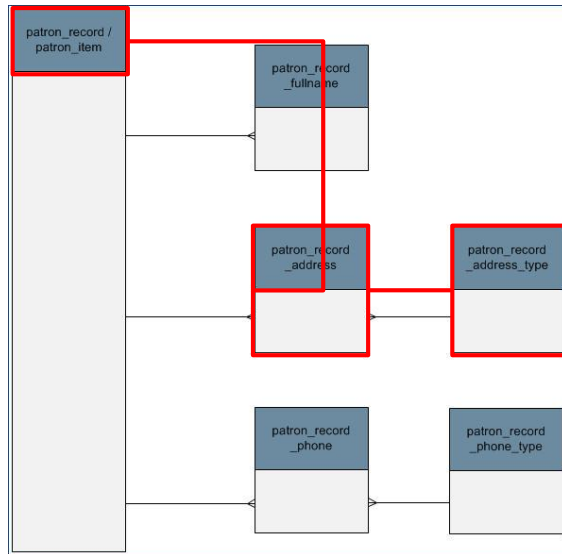


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Documentation

ERD (Entity Relationship Diagram) View



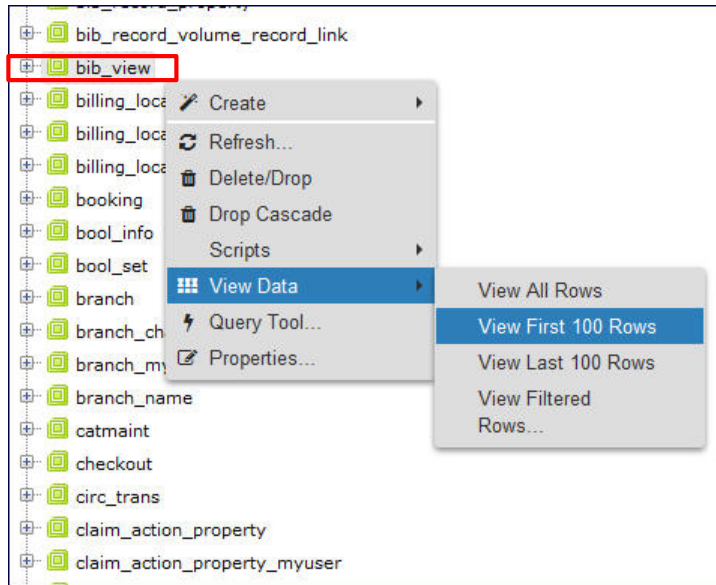
[Detailed View](#) | [ERD View](#)

This shows which tables are linkable – there is an column in one table that matches a column in another.

In this example, you can link [patron_record_address_type](#) to [patron_record](#) via [patron_record_address](#)



Previewing Your Data



To see sample data from a table, right click on the table (bib_view in this example) and then View Data and then View Top 100 Rows

Screen using PGAdmin <https://www.pgadmin.org/>



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Explore your data

- iii_user_worktrow_myuser
- invoice_record
- invoice_record_line
- invoice_record_vendor_summa...
- ★ invoice_view
- item_circ_history
- ★ item_record
- item_record_adjcur
- item_record_property
- item_status_property
- item_status_property_myuser
- item_status_property_name
- item_view
- item_view_adjcur

sierra_view.item_record_property

id	item_record_id	call_number	call_number_norm	barcode
377047	450973479464	f [Christmas] ajj 2 HER		30308000096876
672090	450974184113	f[Christmas] ajj 2 SCH		30308000100108
480630	450973733331	f[Christmas] ajj 2 LIN		30308000100264
1600372	450976515466	[Valentine's Day] JJ LONDON		30308000260324
1849870	450977185094	f[St. Patrick's Day] J 394.2 BER		30308000280140
1046042	450975116211	f[St. Patrick's Day] J 394.2 GIB		30308000283870
1046040	450975116209	f [St. Patrick's Day] aJ 394.2 GIB		30308000283888
1576700	450976455204	f[Hanukkah] ajj 2 WAL		30308000356726
1120883	450975312980	f[Hanukkah] ajj SPEREGEN		30308000369307
2296009	450978370176	f [Hanukkah] ajj SCHOTTER		30308000369455
1251926	450975654867	f[St. Patrick's Day] ajj BUN		30308000393919
617409	450974060002	f[Christmas] EZ 811 PRE		30308000427840
1304931	450975794199	f[Hanukkah] ajj ZIEFERT		30308000893728

Screens using HeidiSQL <https://www.heidisql.com/>



The Query Based Approach

```
1 SELECT *
2
3 FROM
4 sierra_view.item_record_property
5
6 LIMIT 100;|
```

Filter ...

- > Columns in scat_category
- > SQL functions
- > SQL keywords
- > Snippets
- > Query history
- > Query profile
- > Bind parameters

item_record_property (100r x 5c)

id	item_record_id	call_number	call_number_norm	barcode
9693301	450988340436	aFICTION Berry	fiction berry	32405005251429
9693305	450988340440	aj Picture/Norman	j picturenorman	34867007642285
9693355	450988340490	aj BB	j bb	31323020671136
4	450985166465	aDVD DON	dvd don	31712901127830
8026611	450986695326	aFICTION Hart, John	fiction hart, john	31189931060416
9264345	450987918309	aj [GRAPHIC] Minecraft	j [graphic] minecraft	31189931834018
8507207	450987170742	f[TV series]aDVD/Nas	dvdnas	34861005141259
3630248	450981407104	aj929 Thames	j929 thames	34867005612744
9264359	450987918323	aPICTURE BOOK Young	picture book young	32405005174035
6068562	450085641720	a641 5 KQH	641 5 knh	34860007150500



Keys

Matching Keys

sierra_view
record_metadata

■ primary key
■ foreign key

	id bigint	record_type_code character(1)	record_num integer	creation_date_gmt timestamp with time zone
1	420907795009	b	1000001	2012-06-19 18:48:06-04
2	420907795010	b	1000002	2012-06-19 18:48:07-04
3	420907795011	b	1000003	2012-06-19 18:48:07-04
4	420907795012	b	1000004	2012-06-19 18:48:07-04
5	420907795013	b	1000005	2012-06-19 18:48:08-04

sierra_view
bib_record_property

	id integer	bib_record_id bigint	best_title character varying(1000)	publish_year integer
1	357762	420907795009	Water monsters : opposing viewpoints	1991
2	357763	420907795010	Seeking the old paths, and other sermons;	1899
3	357764	420907795011	The Foundation grants index.	1971
4	357765	420907795012	The religion of tomorrow	1899
5	357766	420907795013	Upward steps	1899

Joining views

FROM

sierra_view.[table_1]

JOIN

sierra_view.[table_2]

ON [table_1].[table_2]_id = [table_2].id



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Record Views

record_metadata

Key Fields:

id
record_type_code
record_num
creation_date_gmt
deletion_date_gmt
record_last_updated_gmt
previous_last_updated_gmt
campus_code

Use For:

filter queries on creation date
filter out ILL records
obtain record numbers
count deleted records

Tips and Tricks:

id serves as foreign key to all record_id fields
data persists when a record is deleted



record_metadata

sierra_view.record_metadata

Next

Show all

Sorting

Columns (10/10) Filter

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
450982298035	i	10731955	2009-07-28 14:03:00-04	2014-12-01		0	11	2014-10-03 15:55:51-04	2013-06-30 09:53:00-04
481038404622	p	2067470	2009-07-28 14:04:00-04	(NULL)		0	5	2011-01-21 15:25:36-05	2009-08-26 16:31:37-04
420909377022	b	2582014	2008-04-30 10:35:34-04	(NULL)		0	12	2017-08-10 16:56:40-04	2016-02-27 12:20:02-05
450982298041	i	10731961	2009-07-28 14:04:33-04	2014-06-19		0	55	2014-06-19 13:29:08.929-04	2014-06-19 13:28:40-04
472453557528	n	7154968	2019-02-13 15:03:29-05	(NULL)		0	6	2019-02-13 15:08:53-05	2019-02-13 15:08:47-05
450982298048	i	10731968	2009-07-28 14:04:37-04	2014-06-19		0	52	2014-06-19 13:03:45.156-04	2014-06-19 13:03:29-04
450982298042	i	10731962	2009-07-28 14:04:37-04	2014-06-19		0	67	2014-06-19 13:15:17.779-04	2014-06-19 13:14:43-04
450982298045	i	10731965	2009-07-28 14:04:37-04	2015-06-18		0	94	2015-06-18 15:42:07.059-04	2015-06-18 15:41:49-04
450985499522	i	13933442	2014-09-08 11:59:08-04	2018-06-25		0	40	2018-04-10 09:53:02-04	2018-03-24 12:48:15-04
472449111942	n	2709382	2009-07-28 14:05:00-04	(NULL)		0	8	2010-07-18 18:37:21-04	2009-07-28 14:05:26-04
450982298036	i	10731956	2009-07-28 14:03:11-04	2018-10-22		0	58	2018-10-15 11:26:29-04	2018-06-14 12:50:00-04
481038404625	p	2067473	2009-07-28 14:07:00-04	2015-06-17		0	82	2015-06-17 12:39:43.471-04	2010-10-21 16:59:25-04
481038404624	p	2067472	2009-07-28 14:07:00-04	2017-06-02		0	81	2017-06-02 13:52:51.182-04	2013-06-05 17:01:05-04
450982298064	i	10731984	2009-07-28 14:08:24-04	2017-03-01		0	92	2017-01-11 10:47:38-05	2016-10-25 19:10:00-04
472449111943	n	2709383	2009-07-28 14:07:41-04	(NULL)		0	8	2010-07-18 18:37:21-04	2009-07-28 14:07:41-04
472447662952	n	1260392	2009-07-28 14:08:00-04	(NULL)		0	8	2010-07-18 18:20:54-04	2009-07-28 14:08:12-04
481038404626	p	2067474	2009-07-28 14:08:00-04	2014-06-12		0	21	2012-12-21 15:31:01-05	2009-09-10 09:52:56-04
481038404635	p	2067483	2009-07-28 14:15:00-04	2017-06-02		0	131	2017-06-02 13:54:04.494-04	2012-09-17 13:05:40-04
476742743320	o	1373464	2013-02-04 11:40:28-05	2015-08-03		0	4	2013-02-20 14:55:11-05	2013-02-19 11:38:20-05
481038404627	p	2067475	2009-07-28 14:09:00-04	2014-06-12		0	60	2010-06-15 10:14:02-04	2010-06-15 10:10:15-04
481039094298	p	2757146	2018-08-07 11:41:32-04	(NULL)		0	11	2018-10-22 13:29:24-04	2018-10-03 12:16:41-04
476744214369	o	2844513	2016-08-26 14:44:00-04	2019-07-30		0	3	2016-09-12 11:11:14-04	2016-08-26 16:03:09-04
472447662953	n	1260393	2009-07-28 14:11:00-04	(NULL)		0	8	2010-07-18 18:20:54-04	2009-07-28 14:11:21-04
450987091782	i	15525702	2017-01-12 15:43:12-05	(NULL)		0	103	2020-02-20 13:03:12.612-05	2020-02-08 12:11:44.75-05
450987420734	i	15854654	2017-08-11 14:39:59-04	(NULL)		0	2	2017-08-11 16:00:31-04	2017-08-11 14:39:59-04
450988759049	i	17192969	2019-11-07 11:51:00-05	(NULL)		0	3	2019-11-07 16:29:07-05	2019-11-07 11:55:54-05

Record Totals

```
SELECT
    record_type_code,
    COUNT(id)

FROM sierra_view.record_metadata
WHERE deletion_date_gmt IS NULL
    AND campus_code = "

GROUP BY 1
ORDER BY 1;
```

record_type_code	count
a	1018762
b	1520165
c	5760
i	5757647
n	594742
o	630403
p	760641
r	960
v	3789



`record_metadata.id`

`patron_record, item_record, bib_record, etc...`

`JOIN sierra_view.[table name]`

`ON record_metadata.id = [table name].id`



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bib_record

Key Fields:

language_code
bcode1, bcode2, bcode3
cataloging_date_gmt
country_code
is_on_course_reserve
is_suppressed

Use For:

bib fixed field data

Tips and Tricks:

bib_record_location exists as its own table
Join to myuser tables to translate field codes to their labels



bib_record

sierra_view.bib_record

» Next

◆ Show all

▼ Sorting (3)

▼ Columns (15/15) ▼ Filter

A↕ id	record_id	language_code	bcode1	A↕ bcode2	A↕ bcode3	country_code	index_change_count	is_on_course_reserve	is_right_result_exact	allocation_rule_code	skip_num	cataloging_date_gmt	marc_type_code	is_suppressed
420907923967	420907923967	eng	m	2	-	mau	25	false	false	(NULL)	0	2018-01-09 00:00:00...		false
420907924743	420907924743	eng	m	2	-	mau	15	false	false	a	0	2018-01-09 00:00:00...		false
420907924745	420907924745	eng	m	2	-	meu	22	false	false	a	2	2018-01-09 00:00:00...		false
420907924810	420907924810	eng	m	2	-	mau	9	false	false	(NULL)	0	2018-01-09 00:00:00...		false
420907925105	420907925105	eng	m	2	-	mau	120	false	false	a	4	2018-01-10 00:00:00...		false
420907925195	420907925195	eng	m	2	-	mau	15	false	false	a	4	2018-01-10 00:00:00...		false
420907925277	420907925277	eng	m	2	-	enk	10	false	false	a	4	2003-04-01 00:00:00...		false
420907925325	420907925325	eng	m	2	-	mau	3	false	false	(NULL)	4	2018-01-10 00:00:00...		false
420907925590	420907925590	eng	m	2	-	enk	15	false	false	(NULL)	4	2014-10-21 00:00:00...		false
420907925598	420907925598	eng	m	2	-	enk	7	false	false	(NULL)	2	2003-04-01 00:00:00...		false
420907925847	420907925847	eng	m	2	-	mau	7	false	false	0	0	2018-01-10 00:00:00...		false
420907925850	420907925850	eng	m	2	-	mau	37	false	false	0	2	2006-12-11 00:00:00...		false
420907926028	420907926028	eng	m	2	-	enk	6	false	false	(NULL)	4	2003-04-01 00:00:00...		false
420907928992	420907928992	eng	m	2	-	mau	36	false	false	(NULL)	4	2018-01-10 00:00:00...		false
420907929435	420907929435	eng	m	2	-	mau	270	false	false	a	0	2018-01-10 00:00:00...		false
420907929708	420907929708	eng	m	2	-	mau	87	false	false	0	4	2003-04-01 00:00:00...		false



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Titles Added In each Language This Year

```
SELECT
    b.language_code,
    COUNT(b.id)
FROM sierra_view.bib_record b
JOIN sierra_view.record_metadata m
    ON b.id = m.id
    AND m.creation_date_gmt >= '2020-01-01'
GROUP BY 1
ORDER BY 1;
```

language_code	count
	57
afr	1
ara	3
arm	22
ben	1
chi	491
cze	5
dan	1
dut	3
eng	15525
fin	2
fre	130
frm	1
geo	1
ger	31
gre	6



bib_record_property

Key Fields:

material_code
best_title
best_title_norm
publish_year
best_author
best_author_norm

Use For:

bib record details

Tips and Tricks:

use _norm fields to avoid having to account for punctuation and capitalization



Normalized Fields

best_title	best_title_norm	best_author	best_author_norm
Hunting shadows : Inspector Ian Rutledge Mystery S...	hunting shadows inspector ian rutledge mystery seri...	Todd, Charles.	todd charles
A breast cancer alphabet.	breast cancer alphabet	Sikka, Madhulika.	sikka madhulika
Handbook for an unpredictable life : How I Survived ...	handbook for an unpredictable life how i survived si...	Perez, Rosie.	perez rosie
Vienna nocturne : A Novel.	vienna nocturne a novel	Shotwell, Vivien.	shotwell vivien
Trapped under the sea : One Engineering Marvel, Fiv...	trapped under the sea one engineering marvel five ...	Swidey, Neil.	swidey neil
Littlebits	littlebits	Lovett, Amber, author.	lovett amber author
Love illuminated : exploring life's most mystifying s...	love illuminated exploring lifes most mystifying subj...	Jones, Daniel, 1962-, author.	jones daniel 1962 author
iPad all-in-one for dummies	ipad all in one for dummies	Muir, Nancy, 1954-, author.	muir nancy 1954 author
Concealed in death	concealed in death	Robb, J. D., 1950-	robb j d 1950
Major League Soccer	major league soccer	Rausch, David.	rausch david
Looking for Alaska	looking for alaska	Green, John, 1977- author.	green john 1977 author
Shi bu di tou = Cop unbowed.	shi bu di tou cop unbowed		

The most authoritative available version of the title.

The system uses the following criteria to determine the best title, in order of precedence:

1. The first t-tagged MARC 245 field, subfields a, b, g, h, n, p.
2. The first t-tagged non-MARC field.
3. The first t-tagged MARC field other than 245, any subfields indexed for the t index display.

The most authoritative available representation of the author's name.

The system uses the following criteria to determine the best author, in order of precedence:

1. The first a-tagged MARC 1XX field.
2. The first b-tagged MARC 7XX field.
3. The first a-tagged MARC 7XX field.
4. The first a-tagged non-MARC field.



Sorting on Titles

```
SELECT
    best_title

FROM sierra_view.bib_record_property

ORDER BY best_title_norm;
```

best_title
Theater
The theater and cinema of Buster Keaton
Theater and entertainment
The theater and its double
Theater & propaganda
Theater and revolution : the culture of the French sta...
The theater and the dream: from metaphor to form i...
Theater art of the Medici
Theater as life : practical wisdom drawn from great a...
The theater at Isthmia
Theater business : from auditions through opening ...



bib_view

Key Fields:

record_num
language_code
is_available_at_library
bcodes
cataloging_date_gmt
record_creation_date_gmt
title

Use For:

combines data from bib_record,
bib_record_property and record_metadata

Tips and Tricks:

Trade off convenience for performance



Titles Added In Each language This Year (Redux)

SELECT

b.language_code,
COUNT(b.id)

FROM sierra_view.bib_record b

JOIN sierra_view.record_metadata m

ON b.id = m.id

AND m.creation_date_gmt >=
'2020-01-01'

GROUP BY 1

ORDER BY 1;

SELECT

language_code,
COUNT(id)

FROM sierra_view.bib_view

WHERE

record_creation_date_gmt >= '2020-01-01'

GROUP BY 1

ORDER BY 1;

item_record

Key Fields:

icode1, icode2

itype_code_num

location_code

Item_status_code

price

checkout_total

last_checkout_gmt

is_available_at_library

Is_suppressed

Use For:

item fixed field data

Tips and Tricks:

virtual_type_code can be used to isolate virtual items that lack standard record numbers



Total checkouts Per IType

```
SELECT
    itype_code_num,
    SUM(checkout_total) AS total_checkouts
FROM sierra_view.item_record

GROUP BY 1
ORDER BY 1;
```

itype_code_num	total_checkouts
0	35662381
1	796102
2	1942145
3	37363
4	394570
5	167504
6	17922
7	12011
8	5759
9	133405
10	214193
11	154
12	181001
13	67610
19	2673
20	2095386



item_record_property

Key Fields:

call_number
call_number_norm
barcode

Use For:

item record details

Tips and Tricks:

call number includes field delimiters
_norm includes extra spaces & may remove wanted punctuation



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call_number vs call_number_norm

call_number	call_number_norm
aFICTION Berry	fiction berry
aj Picture/Norman	j picturenorman
aJ BB	j bb
aDVD DON	dvd don
aFICTION Hart, John	fiction hart, john
aJ [GRAPHIC] Minecraft	j [graphic] minecraft
f[TV series] aDVD/Nas	dvdnas
aj929 Thames	j929 thames
aPICTURE BOOK Young	picture book young
a641.5 KOH	641.5 koh
aBlu-ray/All	blu-rayall
a917.29 F653	917.29 f653
aYA [MANGA] No Matter How	ya [manga] no matter how
aNEW FICTION Coates, T.	new fiction coates, t.
aTEEN GRAPHIC Mooncakes	teen graphic mooncakes
aMAG/ADULT	magadult



Find invalid barcodes

```
SELECT
    ID2RECKEY(id)||'a',
    barcode

FROM sierra_view.item_record_property

WHERE barcode !~ '^\\d{14}$';
```



Other Record Types

Course	Invoice	Resource
Fund	Order	Vendor
Holding	Program	



Supplemental Views

Linking tables

bib_record_item_record_link

id

bib_record_id

item_record_id

items_display_order

bibs_display_order

bib_record_holding_record_link

bib_record_item_record_link

bib_record_order_record_link

bib_record_volume_record_link

course_record_bib_record_link

course_record_item_record_link



List titles and barcodes

```
SELECT
    b.best_title,
    i.barcode

FROM sierra_view.bib_record_property b

JOIN sierra_view.bib_record_item_record_link l
    ON b.bib_record_id = l.bib_record_id

JOIN sierra_view.item_record_property l
    ON l.item_record_id = i.item_record_id;
```

best_title	barcode
Super simple Mexican art : fun and easy art from aro...	34862005460244
Totally bizarre	33017010422298
My mommy is a hero	34862006814944
The secret life of Anna Blanc	33018003426361
Burn	31619006852123
Better homes and gardens Deck & patio planner.	31619005625074
Valentine crafts	33016005328668
Journals of Ralph Waldo Emerson : with annotations	34867000449811
Time, 2020	31155008324837
Inspector bellamy.	34862005272607
Down in Louisiana	31213012206332
The defiant ones.	31906101294982
Builders & breakers	36216001350495
Shi ba da zhi ming mi mou : Bo Xilai yi an	31213012136760
The missing mitten mystery	34863004491776
Nine perfect strangers	31213013720117

Count of items attached to a bib

```
SELECT
    ID2RECKEY(l.bib_record_id)||'a' AS bib_number,
    COUNT(l.item_record_id) AS total_items
FROM sierra_view.bib_record_item_record_link l
GROUP BY 1;
```

bib_number	total_items
b1000003a	1
b1000007a	2
b1000012a	1
b1000014a	1
b1000017a	1
b1000019a	1
b1000021a	2
b1000023a	1
b1000025a	2
b1000026a	1
b1000027a	3
b1000028a	2
b1000030a	1
b1000031a	2
b1000032a	1
b1000033a	3



myuser views

code
display_order
name

- use to translate fixed field codes to their labels
- name field contents will match the language setting of the user

```
JOIN sierra_view.item_status_property_myuser  
ON item_record.item_status_code = item_status_property_myuser.code
```

Total checkouts Per IType (Redux)

```
SELECT
    it.name,
    SUM(i.checkout_total) AS total_checkouts

FROM sierra_view.item_record i
JOIN sierra_view.itype_property_myuser it
    ON i.itype_code_num = it.code

GROUP BY 1
ORDER BY 1;
```

name	total_checkouts
Art	25299
Book	35662597
Book on Player	230740
Book+Disk	5759
CD-ROM Circ	1982
CD-ROM Ref	81
ComCat	35078
Console Game	63269
DVD F	11402399
DVD NF	1697917
E-Book	24
Equipment	42914
Film	56
Game	10992
HD Book	394443
HD Equipment	129586
In-House Equipment	74398
J Book	32445723



Multi Fields

bib_record_location

bib_record_id

copies

location_code

display_order

order_record_cmf

order_record_id

copies

fund_code

location_code

display_order

id	bib_record_id	copies	location_code	display_or...
260381	420907797926	590	multi	0
260382	420907797926	21	act	1
260383	420907797926	21	arl	2
260384	420907797926	8	ash	3
260385	420907797926	18	bed	4
260386	420907797926	20	blm	5
260387	420907797926	43	brk	6
260388	420907797926	8	br2	7
260389	420907797926	6	br3	8



Who Owns a Title

```
SELECT
    p.best_title,
    b.location_code

FROM bib_record_location b
JOIN sierra_view.bib_record_property p
    ON b.bib_record_id = p.bib_record_id

WHERE b.bib_record_id = '420907797926';
```

best_title	location_code
The best American short stories.	ddm
The best American short stories.	ca6
The best American short stories.	ash
The best American short stories.	act
The best American short stories.	may
The best American short stories.	arl
The best American short stories.	lex
The best American short stories.	bed
The best American short stories.	pmc
The best American short stories.	las
The best American short stories.	win
The best American short stories.	br2



Who Owns a Title (redux)

```
SELECT
    p.best_title,
    STRING_AGG(b.location_code, ',') AS locations
```

```
FROM bib_record_location b
JOIN sierra_view.bib_record_property p
    ON b.bib_record_id = p.bib_record_id
```

```
WHERE b.bib_record_id = '420907797926'
GROUP BY p.best_title;
```

best_title	string_agg
The best American short stories.	ddm,ca6,ash,act,may,arl,lex,bed,pmc,las,



MARC and Varfields

control_field	006, 007, 008
leader_field	MARC leader
phrase_entry	Indexed varfields
subfield / subfield_view	Individual MARC subfields
varfield / varfield_view	Full varfield content, including subfield delimiters



phrase_entry

Key Fields:

record_id
index_tag
varfield_type_code
occurrence
index_entry

Use For:

retrieving indexed varfields for all record types

Tips and Tricks:

reliant on system indexing and thus not always as current as varfield/subfield tables



phrase_entry

sierra_view.phrase_entry

» Next

◆ Show all

▼ Sorting

▼ Columns (17/17)

id	record_id	index_tag	varfield_type_code	occurrence	is_permuted	type2	type3	index_entry	insert_title
59203701	420910248269	i	i	1	false	115		7f3c66ee2409499c91a281675a3c9b9foverdriveinc	tstuff of thought
59203702	420910248269	i	i	0	false	115		1101929308soundrecording	tstuff of thought
59203703	420910248269	k	t	0	false	115		sothoug	tstuff of thought
59203704	420910248269	j	p	0	false	115		penguin audio	tstuff of thought
59203705	420910248269	d	d	1	false	115		minuteman digital media catalog	tstuff of thought
59203706	420910248269	d	d	0	false	115		electronic books	tstuff of thought
59203707	420910248269	t	t	0	false	115		stuff of thought	tstuff of thought
59203767	420910248275	k	t	0	false	116		tmksecr	tthis machine kills secrets how wikileakers cypherpu...
59203768	420910248275	j	p	0	false	116		tantor	tthis machine kills secrets how wikileakers cypherpu...
59203769	420910248275	i	i	1	false	116		defe1ffe4a314f59b4c1ec79dfb9884doverdriveinc	tthis machine kills secrets how wikileakers cypherpu...
59203770	420910248275	i	i	0	false	116		9781452629902soundrecording	tthis machine kills secrets how wikileakers cypherpu...
59203771	420910248275	i	i	0	false	116		1452629900soundrecording	tthis machine kills secrets how wikileakers cypherpu...
59203772	420910248275	t	t	0	false	116		this machine kills secrets how wikileakers cyph...	tthis machine kills secrets how wikileakers cypherpu...
59203773	420910248275	d	d	1	false	116		minuteman digital media catalog	tthis machine kills secrets how wikileakers cypherpu...
59203774	420910248275	d	d	0	false	116		electronic books	tthis machine kills secrets how wikileakers cypherpu...
59203775	420910248275	a	b	1	false	116		overdrive inc	tthis machine kills secrets how wikileakers cypherpu...
59203776	420910248275	a	a	0	false	116		greenberg andy	tthis machine kills secrets how wikileakers cypherpu...
59203777	420910248275	a	b	0	false	116		chamberlain mike	tthis machine kills secrets how wikileakers cypherpu...
59203778	420910248275	o	o	0	false	116		odn0001060978	tthis machine kills secrets how wikileakers cypherpu...
59203843	420910248281	a	a	0	false	116		rove karl	ttriumph of william mckinley why the election of ...
59203844	420910248281	a	b	1	false	116		overdrive inc	ttriumph of william mckinley why the election of ...
59203845	420910248281	o	o	0	false	116		odn0002243117	ttriumph of william mckinley why the election of ...
59203846	420910248281	k	t	0	false	116		towmcki	ttriumph of william mckinley why the election of ...
59203847	420910248281	j	p	0	false	116		simon and schuster audio	ttriumph of william mckinley why the election of ...
59203848	420910248281	t	t	0	false	116		triumph of william mckinley why the election	ttriumph of william mckinley why the election of

Find SQL materials

```
SELECT
    b.best_title
FROM sierra_view.bib_record_property b
JOIN sierra_view.phrase_entry p
    ON b.bib_record_id = p.record_id
AND p.index_tag = 'd'
AND p.index_entry
    LIKE 'sql computer program language%'
```

best_title
Oracle SQL : a beginner's tutorial
Sams teach yourself : SQL in 24 hours
SQL antipatterns : avoiding the pitfalls of database p...
The language of SQL
Getting started with SQL : a hands-on approach for ...
SQL queries for mere mortals : a hands-on guide to ...
Learning Apache Drill : query and analyze distribute...
SQL all-in-one for dummies
Murach's MySQL
SQL cookbook
SQL demystified
MySQL
SQL for dummies



Varfields With their own Views

patron_record_address
patron_record_id
addr1, addr2, addr3
village
city
region
postal_code
country

patron_record_fullname
patron_record_id
prefix
first_name
middle_name
last_name
suffix



Transaction Views

Circulation Transactions

checkout
circ_trans
fine
finer_paid
hold
reading_history

Additional views with products like collection agency and material booking



checkout

Key Fields:

patron_record_id
item_record_id
due_gmt
loanrule_code_num
checkout_gmt
ptype
renewal_count
overdue_count

Use For:

Current checkouts

Tips and Tricks:

Row is removed from table upon checkin



Checkouts by Hour

```
SELECT
    EXTRACT (HOUR FROM checkout_gmt),
    COUNT(id)

FROM sierra_view.checkout

WHERE checkout_gmt::DATE = '2020-04-16'

GROUP BY 1;
```

date_part	count
7	2
8	19
9	1029
10	2283
11	2869
12	2086
13	2287
14	2533
15	2966
16	3689
17	3182
18	2197
19	1376
20	897
21	31
23	1



hold

Key Fields:

placed_gmt
record_id
patron_record_id
is_frozen
delay_days
expires_gmt
status
is_ir

Use For:

Current holds data

Tips and Tricks:

Does not distinguish between bib/
item/volume holds



Old frozen holds

```
SELECT
    id2reckey(patron_record_id)||'a' AS patron,
    id2reckey(record_id)||'a' AS record

FROM sierra_view.hold

WHERE is_frozen = TRUE
    AND placed_gmt < '2019-07-01'

ORDER BY 1;
```

- (1,527r × 2c)	
patron	record
p1000940a	b3807511a
p1001835a	b3818949a
p1001835a	b3812987a
p1001835a	b3655835a
p1001835a	b3834848a
p1001835a	b3789813a
p1002525a	b3807511a
p1002525a	b3800534a
p1002525a	b3810136a
p1002525a	b3804257a
p1002657a	b3828727a
p1003761a	b3818115a
p1003943a	b3815225a
p1004221a	b3818639a
p1005090a	b3823831a
p1005090a	b3606130a



circ_trans

Key Fields:

patron_record_id
item_record_id
bib_record_id
volume_record_id
transaction_gmt
application_name
op_code
stat_group_code_num
item_location_code
patron_home_library

Use for:

Capturing recent circ data for checkouts, checkins, renewals, filled and placed holds

Tips and Tricks:

Retains 2 weeks of data by default, III can expand on request

Placing an item on hold shelf not included



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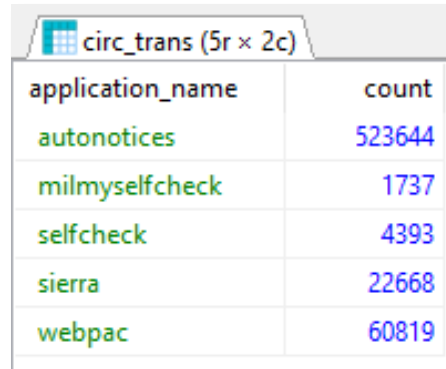
circ_trans – op_code

o = checkout	i = checkin
n = hold nb = bib hold ni = item hold nv = volume hold	h = hold with recall hb = hold recall bib hi = hold recall item hv = hold recall volume
f = filled hold	r = renewal
b = booking	u = use count



Compare Auto and Manual Renewals

```
SELECT
    application_name,
    COUNT(id)
FROM
    sierra_view.circ_trans
WHERE op_code = 'r'
GROUP BY 1;
```



A screenshot of a database query result window titled "circ_trans (5r x 2c)". The window displays a table with two columns: "application_name" and "count". The data is as follows:

application_name	count
autonotices	523644
milmyselfcheck	1737
selfcheck	4393
sierra	22668
webpac	60819



Other Views of Note

bool_set

Key Fields:

bool_info_id
record_metadata id

Use for:

Extracting records from review files

Tips and Tricks:

Join to bool_info to gather additional information about the review file



Create Encore links from file

```
SELECT 'https://find.minlib.net/iii/encore/record/C__R'||  
id2reckey(l.bib_record_id)  
  
FROM sierra_view.bool_set bs  
  
JOIN sierra_view.bib_record_item_record_link l  
ON bs.record_metadata_id  
IN (l.bib_record_id, l.item_record_id)  
  
WHERE bs.bool_info_id = '42';
```

url

```
https://find.minlib.net/iii/encore/record/C__Rb3271714  
https://find.minlib.net/iii/encore/record/C__Rb3278787  
https://find.minlib.net/iii/encore/record/C__Rb3272325  
https://find.minlib.net/iii/encore/record/C__Rb3180698  
https://find.minlib.net/iii/encore/record/C__Rb3424113  
https://find.minlib.net/iii/encore/record/C__Rb3436893  
https://find.minlib.net/iii/encore/record/C__Rb3432948  
https://find.minlib.net/iii/encore/record/C__Rb3454591  
https://find.minlib.net/iii/encore/record/C__Rb3422292  
https://find.minlib.net/iii/encore/record/C__Rb3455420  
https://find.minlib.net/iii/encore/record/C__Rb3437528  
https://find.minlib.net/iii/encore/record/C__Rb3436125  
https://find.minlib.net/iii/encore/record/C__Rb3435482  
https://find.minlib.net/iii/encore/record/C__Rb3469699  
https://find.minlib.net/iii/encore/record/C__Rb3489247  
https://find.minlib.net/iii/encore/record/C__Rb3473660  
https://find.minlib.net/iii/encore/record/C__Rb3473665
```



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iii_user views

iii_user_permission_myuser

iii_user_id

user_name

permission_num

permission_name

iii_user

iii_user_application_myuser

iii_user_desktop_option

iii_user_permission_myuser

iii_user_printer_myuser

iii_user_workflow



iii_user_desktop_option

Key Fields:

iii_user_id,
desktop_option_id,
value

Use for:

Identifying user settings and options

Tips and Tricks:

desktop_option_id and value fields are not documented.



iii_user_desktop_option

sierra_view.iii_user_desktop_option

id	iii_user_id	desktop_option_id	value
387898	857	718	
387899	857	305	100
387900	857	125	
387832	770	568	webmaster.liveconfig;webmaster.livefeeds;webmast...
352160	895	176	linaav,linalp,linfic,linfo,lining,lininjuv,lininnf,linjuv,li...
387901	1024	161	true
387902	1024	772	1
387903	1024	305	100
387904	1024	764	32000
387905	1024	356	true
387918	1014	213	0,0,0
384044	1014	122	disabled
315919	765	392	51,51,255
286047	594	414	received, WOB, mjw
80713	278	278	http://dedhamlibrary.com
401848	1126	372	false
387924	636	435	true
327198	805	249	%ALT+w%i%ALT+l%TAB%TAB%TAB%TAB%...
364618	805	236	%ALT+w%i%ALT+l%TAB%TAB%TAB%TAB%...
367751	695	365	%ALT+w%i%ALT+l%TAB%TAB%TAB%TAB%...
363203	350	365	%ALT+w%i%ALT+l%TAB%TAB%TAB%TAB%...
387922	636	141	Order
387925	827	597	false



Logins not using e-mailed due slips

```
SELECT u.name  
  
FROM sierra_view.iii_user u  
  
JOIN sierra_view.iii_user_desktop_option o  
  ON u.id = o.iii_user_id  
  AND o.desktop_option_id = '905'  
  AND o.value NOT LIKE 'Email%'  
  AND u.name LIKE '%circ%'  
  
ORDER BY 1;
```

name
actcirc
actcircsup
ar2circsup
arlcirc
arlcircsup
arjcirc
ashcircsup
bedcircsup
blmcircsup
br2circ
br2circsup
br3circ
br3circsup
brkcirc
brkcircsup



Other Views of Note

accounting_transaction	Acquisitions transaction log
catmaint	Headings reports
network_access_view	Network access table
record_lock	Locked orders and invoices
record_range	Allotted record ranges by accounting unit
collection	Collection table from Decision Center



Find Me Online

Jeremy can be found along with many other Sierra SQL experts, on the Sierra-ILS slack workspace, co-run with Ray Voelker



GitHub Repository:

<https://github.com/jmgold/SQL-Queries>



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THANK YOU!

Jeremy Goldstein
jgoldstein@minlib.net



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