

# Sierra Updates & Advanced Techniques

MUG, September 8<sup>th</sup>, 2016

Marmot Library Network – User Services Team

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# Create Lists – JSON to Replace Use Existing Search (Lloyd)

- We need to redo searches in Create Lists all the time
  - You need to rerun a search on different locations or dates
  - You need to rerun it because it didn't work right
- The process to recreate a search in Sierra is ponderous
- JSON allows a faster method

# You don't want to type all this again

MARMOT more wierd call numbers

Store Record Type: ITEM i

Range  Start  Stop

Classic  Enhanced  JSON

Term	Operator	Type	Field	Condition	Value A	Value B
1		ITEM	CALL #	matches	^[0-9][0-9][0-9]	
2	AND	ITEM	CALL #	matches	^[^9][^4][^9]	
3	AND	ITEM	CALL #	matches	^[^0][^9][^2]	
4	AND	ITEM	CALL #	matches	^[^0][^9][^0]	
5	AND	ITEM	CALL #	matches	^[^0][^9][^9]	

ITEM CALL # matches "^[0-9][0-9][0-9]" AND ITEM CALL # matches "^[^9][^4][^9]" AND ITEM CALL # matches "^[^0][^9][^2]" AND ITEM CALL # matches "^[^0][^9][^0]" AND ITEM CALL # matches "^[^0][^9][^9]"

OK

# Use Existing Search is a pain

Boolean Search

Review File Name:

Store Record Type:

Range

Classic  Enhanced  JSON

Term	Operator	Type	Field	Condition	Value A	Value B
1						

# Select the list and click Show Info

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File Edit View Go Tools Reports Admin Help

sierra

FUNCTION Create Lists

Append Dedupe Copy Empty Rename Own Release Cancel

Review Files

Review Files

All Search Records Sort Records List Records Import Records Export Records Show Records Show Info

File	Name	Current Records	Max Records	Type	Status	Login	Show Info [date/time]
77	Pitkin Withdrawals	1	7500	i	complete	mac	03-07-2016 / 16:27'00
343	headrpt mac Tue Aug 09 13:22:07 MDT 2016	8	500	b	complete	mac	08-09-2016 / 13:22'08
216	Pitkin MR REF-Loc change	257	1000	i	complete	mac	05-24-2016 / 11:46'21
283	MARMOT more wierd call numbers	158	500	i	complete	lloyd	08-18-2016 / 14:36'13
82	CMU 019 dups	2373	7500	b	complete	lloyd	08-15-2016 / 17:00'05
333	Marmot Globes	252	500	b	complete	lloyd	08-05-2016 / 11:23'54
484	More dups	59	100	b	complete	lloyd	08-12-2016 / 14:41'36
117	Marmot call k	2504	3000	i	complete	lloyd	05-31-2016 / 16:03'45
14	CMU springer	58702	100000	b	complete	lloyd	08-10-2016 / 09:25'06
327	MARMO sky	15	500	b	complete	lloyd	06-14-2016 / 08:53'49
58	Marmot 019 dub search	5974	10000	b	complete	lloyd	07-26-2016 / 11:13'57
286	WS doc dups	396	500	b	complete	lloyd	06-13-2016 / 13:35'16

# Click the JSON radio button

MARMOT more wierd call numbers

Store Record Type: ITEM i

Range Start i10000008 Stop i103848940

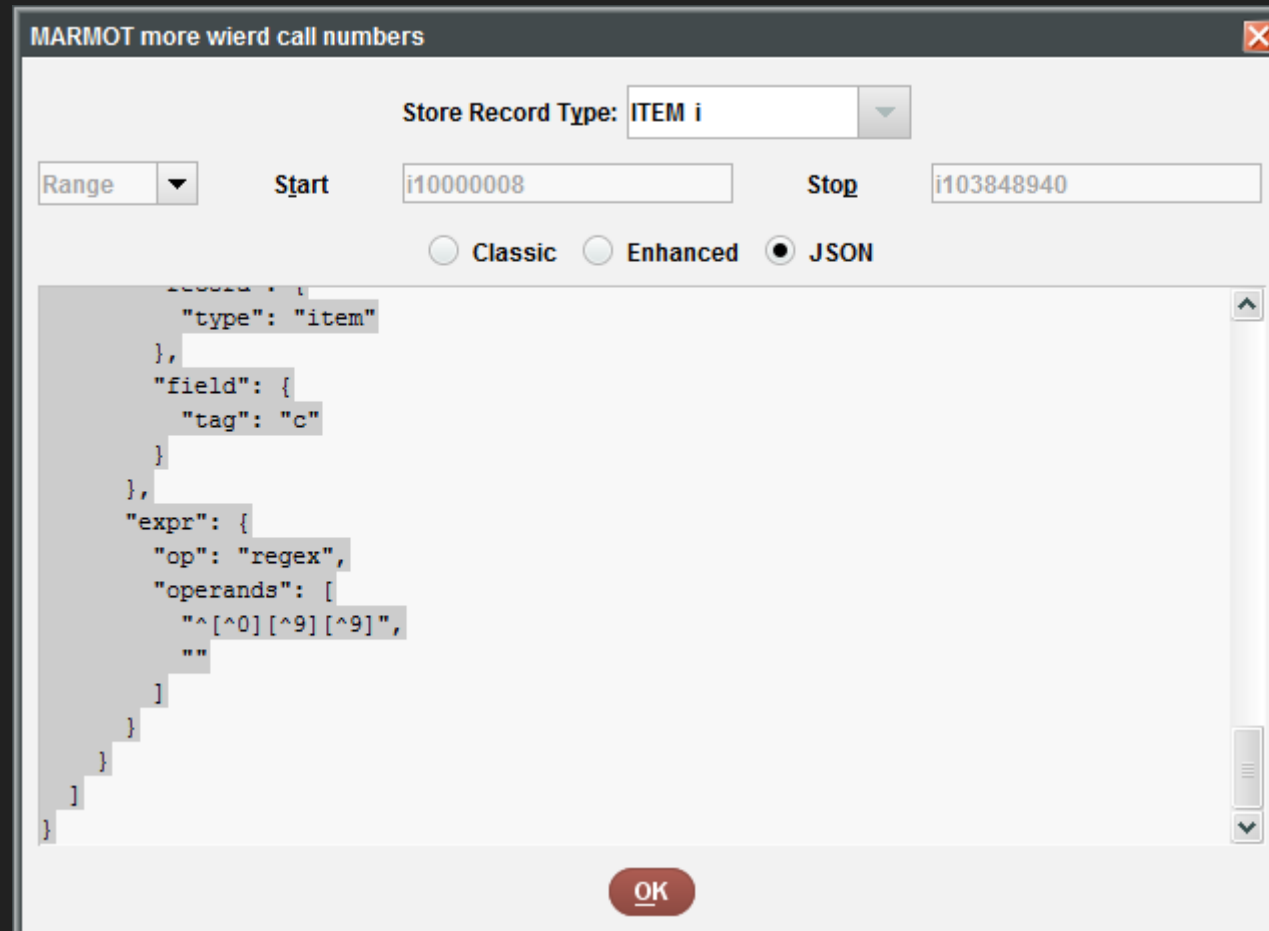
Classic  Enhanced  JSON

Ter...	Operator	Type	Field	Condition	Value A	Value B
1		ITEM	CALL #	matches	^[0-9][0-9][0-9]	
2	AND	ITEM	CALL #	matches	^[^9][^4][^9]	
3	AND	ITEM	CALL #	matches	^[^0][^9][^2]	
4	AND	ITEM	CALL #	matches	^[^0][^9][^0]	
5	AND	ITEM	CALL #	matches	^[^0][^9][^9]	

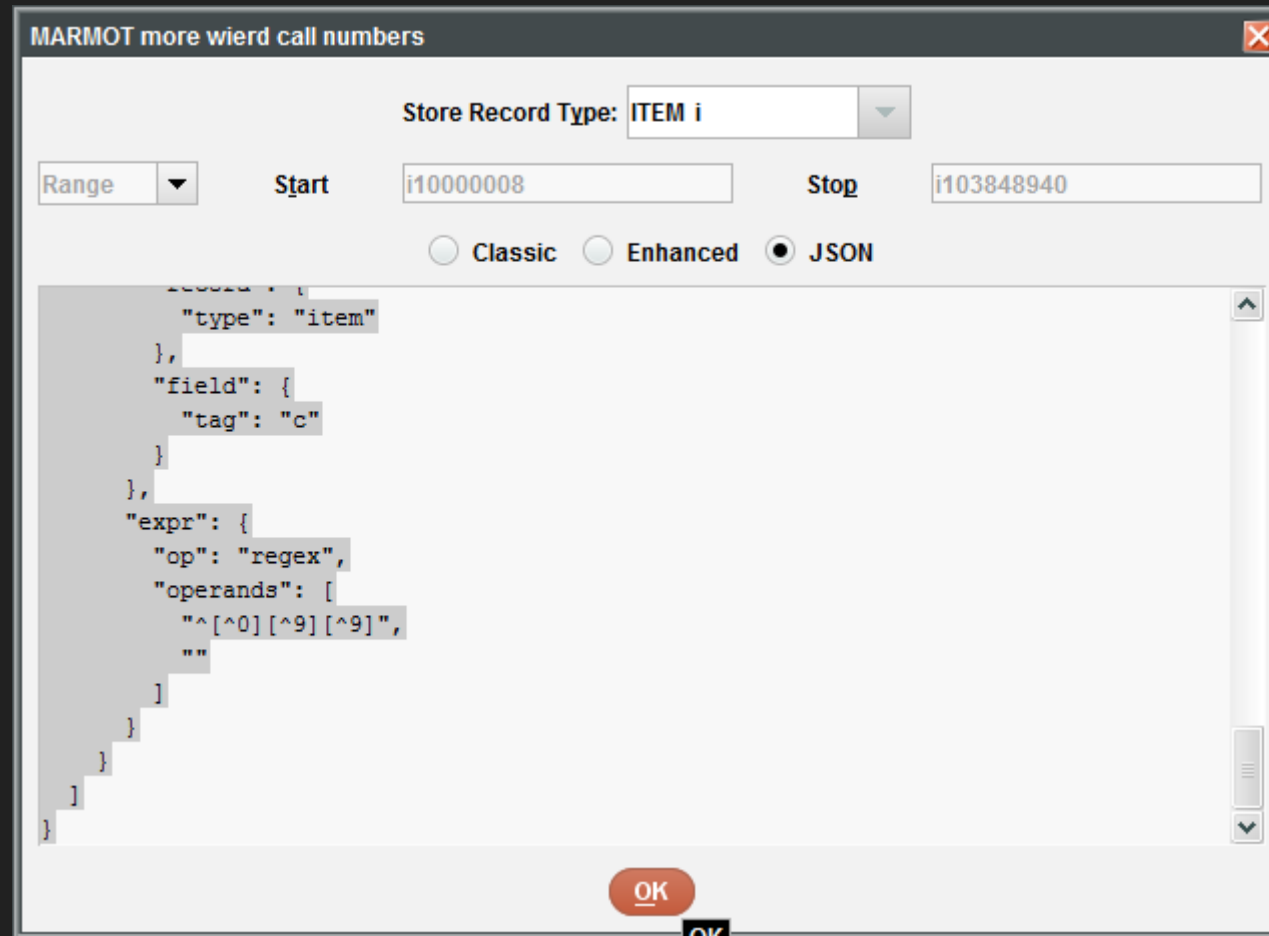
ITEM CALL # matches "^[0-9][0-9][0-9]" AND ITEM CALL # matches "^[^9][^4][^9]" AND ITEM CALL # matches "^[^0][^9][^2]" AND ITEM CALL # matches "^[^0][^9][^0]" AND ITEM CALL # matches "^[^0][^9][^9]"

OK

Ctrl-a to select the JSON  
Ctrl-c to copy it



# Close the Show Info box





# Select the list and click Search Records

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Append Dedupe Copy Empty Rename Own Release Cancel

Review Files

Review Files

All Search Records Sort Records List Records Import Records Export Records Show Records Show Info

File	Name	Search Records	Current Records	Max Records	Type	Status	Login	Created [date/time]
77	Pitkin Withdrawals	1	7500	7500	i	complete	mac	03-07-2016 / 16:27'00
343	headrpt mac Tue Aug 09 13:22:07 MDT 2016	8	500	500	b	complete	mac	08-09-2016 / 13:22'08
216	Pitkin MR REF-Loc change	257	1000	1000	i	complete	mac	05-24-2016 / 11:46'21
283	MARMOT more wierd call numbers	158	500	500	i	complete	lloyd	08-18-2016 / 14:36'13
82	CMU 019 dups	2373	7500	7500	b	complete	lloyd	08-15-2016 / 17:00'05
333	Marmot Globes	252	500	500	b	complete	lloyd	08-05-2016 / 11:23'54
484	More dups	59	100	100	b	complete	lloyd	08-12-2016 / 14:41'36
117	Marmot call k	2504	3000	3000	i	complete	lloyd	05-31-2016 / 16:03'45
14	CMU springer	58702	100000	100000	b	complete	lloyd	08-10-2016 / 09:25'06
327	MARMO sky	15	500	500	b	complete	lloyd	06-14-2016 / 08:53'49
58	Marmot 019 dub search	5974	10000	10000	b	complete	lloyd	07-26-2016 / 11:13'57
286	WS doc dups	396	500	500	b	complete	lloyd	06-13-2016 / 13:35'16

# You could also redo the search in a different bucket

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FUNCTION Create Lists

Append Dedupe Copy Empty Rename Own Release Cancel

Review Files

Review Files

All Search Records Sort Records List Records Import Records Export Records Show Records Show Info

File	Name	Current Records	Max Records	Type	Status	Login	Created [date/time]
26		0	25000		empty		
208		0	1000		empty		
181		0	1000		empty		
101		0	5000		empty		
37		0	20000		empty		
210		0	1000		empty		
249		0	1000		empty		
31		0	25000		empty		
309		0	500		empty		
280		0	500		empty		
227		0	1000		empty		
115		0	3000		empty		

# Change record type if necessary

Boolean Search

Review File Name: MARMOT more wierd call numbers

Store Record Type: BIBLIOGRAPHIC b

Range Start b1000008 Value B b51169472

Classic

Term	Operator	Type	Field	Value B
1				

Dropdown menu options:

- BIBLIOGRAPHIC b
- ORDER o
- CHECKIN c
- CHECKIN AND CARD cc
- AUTHORITY a
- ITEM i
- PATRON p
- COURSE r
- INVOICE n

Buttons: Group, Ungroup, Insert Line, Append Line, Delete, Clear All

Buttons: Search, Use Existing Search, Retrieve Saved Query, Save, Save As, Close

# Click the JSON radio button

Boolean Search

Review File Name: MARMOT more wierd call numbers

Store Record Type: ITEM i

Range Start i10000008 Stop i103851264

Classic  Enhanced  JSON

{ }

**JSON**

Search Use Existing Search Retrieve Saved Query Save JSON Load JSON Close

# Delete the }

Boolean Search

Review File Name: MARMOT more wierd call numbers

Store Record Type: ITEM i

Range Start i10000008 Stop i103851264

Classic  Enhanced  JSON

{ }

Search Use Existing Search Retrieve Saved Query Save JSON Load JSON Close

# Paste in the JSON

Boolean Search

Review File Name: MARMOT more wierd call numbers

Store Record Type: ITEM i

Range Start i10000008 Stop i103851264

Classic  Enhanced  JSON

```
and ,
{
  "target": {
    "record": {
      "type": "item"
    },
    "field": {
      "tag": "c"
    }
  },
  "expr": {
    "op": "regex",
    "operands": [
      "^[^0][^9][^9]",
      ""
    ]
  }
}
]
```

Search Use Existing Search Retrieve Saved Query Save JSON Load JSON Close

# Go back to Classic view

Boolean Search

Review File Name: MARMOT more wierd call numbers

Store Record Type: ITEM i

Range Start: i10000008 Stop: i103851264

Classic  Enhanced  JSON

Term	Operator	Type	Classic	Condition	Value A	Value B
1		ITEM	CALL #	matches	^[0-9][0-9][0-9]	
2	AND	ITEM	CALL #	matches	^[^9][^4][^9]	
3	AND	ITEM	CALL #	matches	^[^0][^9][^2]	
4	AND	ITEM	CALL #	matches	^[^0][^9][^0]	
5	AND	ITEM	CALL #	matches	^[^0][^9][^9]	

ITEM CALL # matches "^[0-9][0-9][0-9]" AND ITEM CALL # matches "^[^9][^4][^9]" AND ITEM CALL # matches "^[^0][^9][^2]" AND ITEM CALL # matches "^[^0][^9][^0]" AND ITEM CALL # matches "^[^0][^9][^9]"

Group  
Ungroup  
Insert Line  
Append Line  
Delete  
Clear All

Search Use Existing Search Retrieve Saved Query Save Save As Close

# This also allows you to cancel a search

- Sometimes you realize you made an error in a search and you want to cancel it
- However, canceling means you can't get the search back with Use Existing Search
- You can get the JSON, then cancel the search and paste it back



# You start a search and realize you made a mistake

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FUNCTION Create Lists

Append Dedupe Copy Empty Rename Own Release Cancel

Review Files

Review Files

All Search Records Sort Records List Records Import Records Export Records Show Records Show Info

File	Name	Current Records	Max Records	Type	Status	Login	Created [date/time]
484	More dups	59	100	b	complete	lloyd	08-12-2016 / 14:41'36
288	Marmot prefix dups	159	500	b	complete	lloyd	08-08-2016 / 14:15'11
58	Marmot 019 dub search	5974	10000	b	complete	lloyd	07-26-2016 / 11:13'57
373	Marmot weird locations lhc	0	100		in progress	lloyd	08-19-2016 / 13:29'09
229	Marmot archive	9	1000	b	complete	lloyd	07-19-2016 / 14:37'58
279	bad indicator	144	500	b	complete	lloyd	08-18-2016 / 10:30'50
70	Mar bad indicator des	7500	7500	b	complete	lloyd	08-17-2016 / 08:50'44
355	Audiobooks	58	100	b	complete	lloyd	06-17-2016 / 10:07'37
294	test	500	500	i	complete	lloyd	07-22-2016 / 11:19'53
38	Marmot 019 dub items	14592	20000	i	complete	lloyd	07-26-2016 / 11:15'26
71	marmot billed stuff	4134	7500	i	complete	lloyd	07-15-2016 / 14:42'06
82	CMU 019 dups	2373	7500	b	complete	lloyd	08-15-2016 / 17:00'05

# Click Show Info and copy the JSON

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FUNCTION Create Lists

Append Dedupe Copy Empty Rename Own Release Cancel

Review Files

Review Files

All Search Records Sort Records List Records Import Records Export Records Show Records Show Info

File	Name	Current Records	Max Records	Type	Status	Login	Created [date/time]
484	More dups	59	100	b	complete	lloyd	08-12-2016 / 14:41'36
288	Marmot prefix dups	159	500	b	complete	lloyd	08-08-2016 / 14:15'11
58	Marmot 019 dub search	5974	10000	b	complete	lloyd	07-26-2016 / 11:13'57
373	Marmot weird locations lhc	0	100	i	in progress	lloyd	08-19-2016 / 13:27'18
229	Marmot archive	9	1000	b	complete	lloyd	07-19-2016 / 14:37'58
279	bad indicator	144	500	b	complete	lloyd	08-18-2016 / 10:30'50
70	Marmot Bad barcodes	7500	7500	b	complete	lloyd	08-17-2016 / 08:50'44
355	Audiobooks	58	100	b	complete	lloyd	06-17-2016 / 10:07'37
294	test	500	500	i	complete	lloyd	07-22-2016 / 11:19'53
38	Marmot 019 dub items	14592	20000	i	complete	lloyd	07-26-2016 / 11:15'26
71	marmot billed stuff	4134	7500	i	complete	lloyd	07-15-2016 / 14:42'06
82	CMU 019 dups	2373	7500	b	complete	lloyd	08-15-2016 / 17:00'05

# Click Cancel

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sierra

FUNCTION Create Lists

Append Dedupe Copy Empty Rename Own Release Cancel

Review Files

Review Files

All Search Records Sort Records List Records Import Records Export Records Show Records Show Info

File	Name	Current Records	Max Records	Type	Status	Login ▲	Created [date/time]
484	More dups	59	100	b	complete	lloyd	08-12-2016 / 14:41'36
288	Marmot prefix dups	159	500	b	complete	lloyd	08-08-2016 / 14:15'11
58	Marmot 019 dub search	5974	10000	b	complete	lloyd	07-26-2016 / 11:13'57
373	Marmot weird locations lhc	0	100	i	in progress	lloyd	08-19-2016 / 13:38'20
229	Marmot archive	9	1000	b	complete	lloyd	07-19-2016 / 14:37'58
279	bad indicator	144	500	b	complete	lloyd	08-18-2016 / 10:30'50
70	Marmot Bad barcodes	7500	7500	b	complete	lloyd	08-17-2016 / 08:50'44
355	Audiobooks	58	100	b	complete	lloyd	06-17-2016 / 10:07'37
294	test	500	500	i	complete	lloyd	07-22-2016 / 11:19'53
38	Marmot 019 dub items	14592	20000	i	complete	lloyd	07-26-2016 / 11:15'26
71	marmot billed stuff	4134	7500	i	complete	lloyd	07-15-2016 / 14:42'06
82	CMU 019 dups	2373	7500	b	complete	lloyd	08-15-2016 / 17:00'05

# Start a new search and paste in the JSON

Boolean Search

Review File Name:

Store Record Type:

Range

Classic  Enhanced  JSON

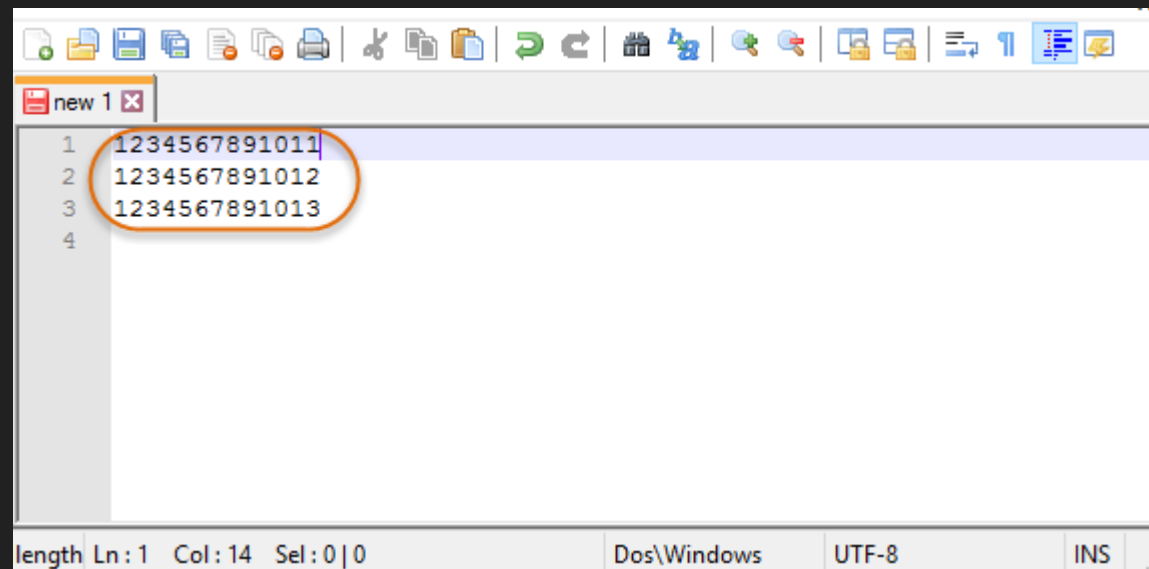
```
{
  "target": {
    "record": {
      "type": "item"
    },
    "id": 79
  },
  "expr": {
    "op": "regex",
    "operands": [
      "fl[a-z] ",
      ""
    ]
  }
}
```

# Create Lists – JSON to Add a List of Barcodes to a Review File (Tammy)

## Notepad++

Here are the steps to scan barcodes into Notepad++, and add the needed formatting to work using JSON.

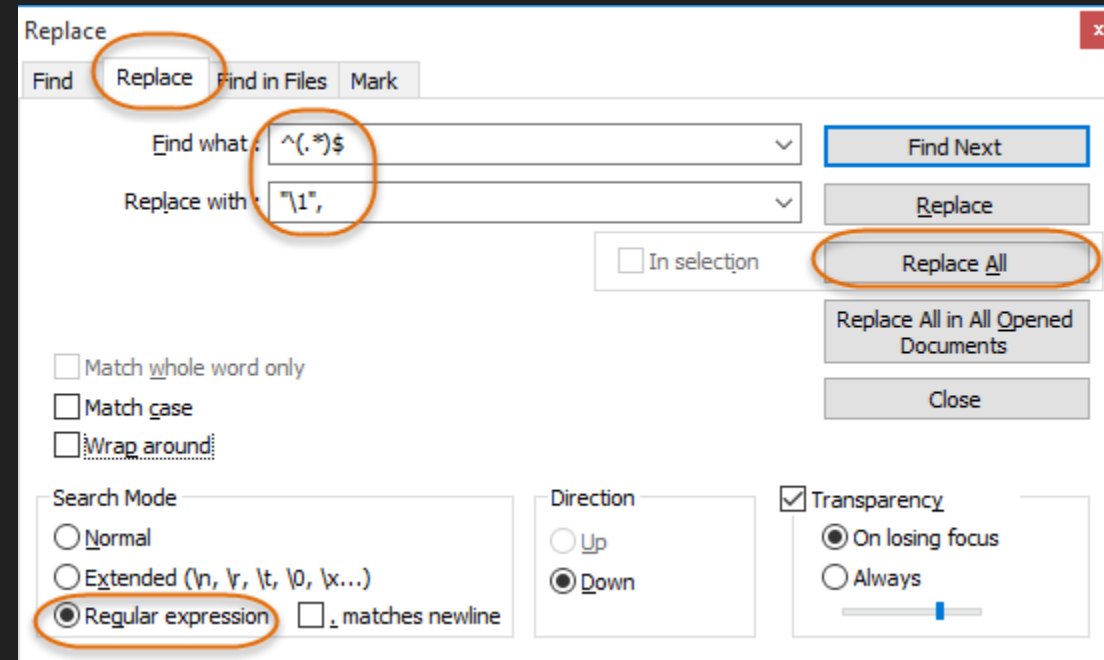
- Scan your barcodes into Notepad++.



# Create Lists – JSON to Add a List of Barcodes to a Review File

Press Ctrl F. This will bring up the Replace Box.

- Click on Regular expression
- Click Replace
- Find what: `^(.*)$`
- Replace with: `"\1",`
- Click Replace All



# Create Lists – JSON to Add a List of Barcodes to a Review File

You should get a message at the bottom of the screen letting you know the amount of items that were replaced

Replace All: 3 occurrences were replaced.

You need to do a little cleanup with the barcodes. You will need to remove the , at the end of the last barcode.

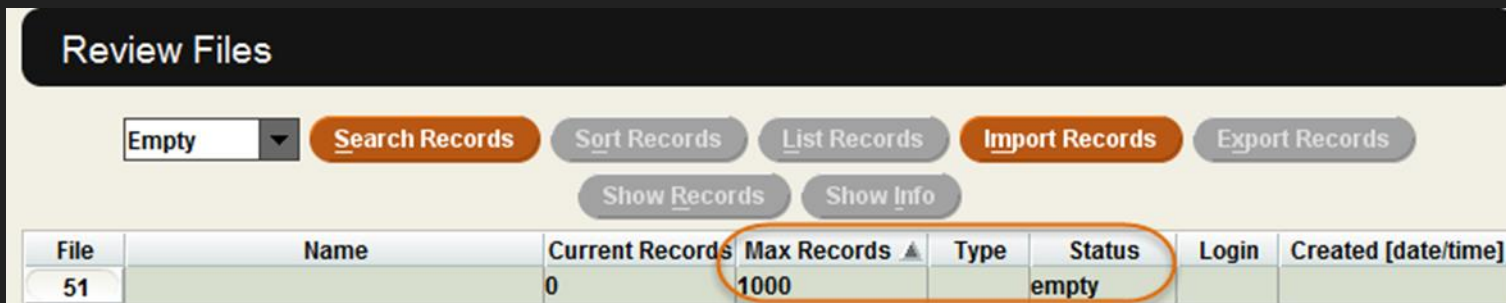
```
"1234567891011",  
"1234567891012",  
"1234567891013",
```

# Create Lists – JSON to Add a List of Barcodes to a Review File

Create Lists in Sierra

Find an empty review file that has the Max Records that will hold all your scanned barcodes from Notepad++.

Click on "Search Records" to open the review file.



Review Files

Empty

File	Name	Current Records	Max Records ▲	Type	Status	Login	Created [date/time]
51		0	1000		empty		



# Create Lists – JSON to Add a List of Barcodes to a Review File

Change the Store Record Type value to the type of record that your barcodes matches (usually item or patron records). Change search type from default Classic to JSON. Remove any text in the query box (usually just a pair of curly braces, '{}').

The screenshot shows a 'Boolean Search' window with the following configuration:

- Review File Name:** [Empty text box]
- Store Record Type:** ITEM i (highlighted with an orange oval)
- Range:** [Dropdown menu]
- Start:** i10000008
- Stop:** i102911435
- Search Type:**  Classic  Enhanced  JSON (highlighted with an orange oval)
- Query Box:** {} (highlighted with an orange oval)
- Buttons:** Search, Use Existing Search, Retrieve Saved Query, Save JSON, Load JSON, Close

# Create Lists – JSON to Add a List of Barcodes to a Review File

Paste the formula below into review file for the JSON query using Ctrl V. Make sure to include your formatted barcodes.

This formula is for item records. For patron records (or other records that have indexed barcodes), change the line "type": "item" and change it to "patron" or whatever record type is appropriate.

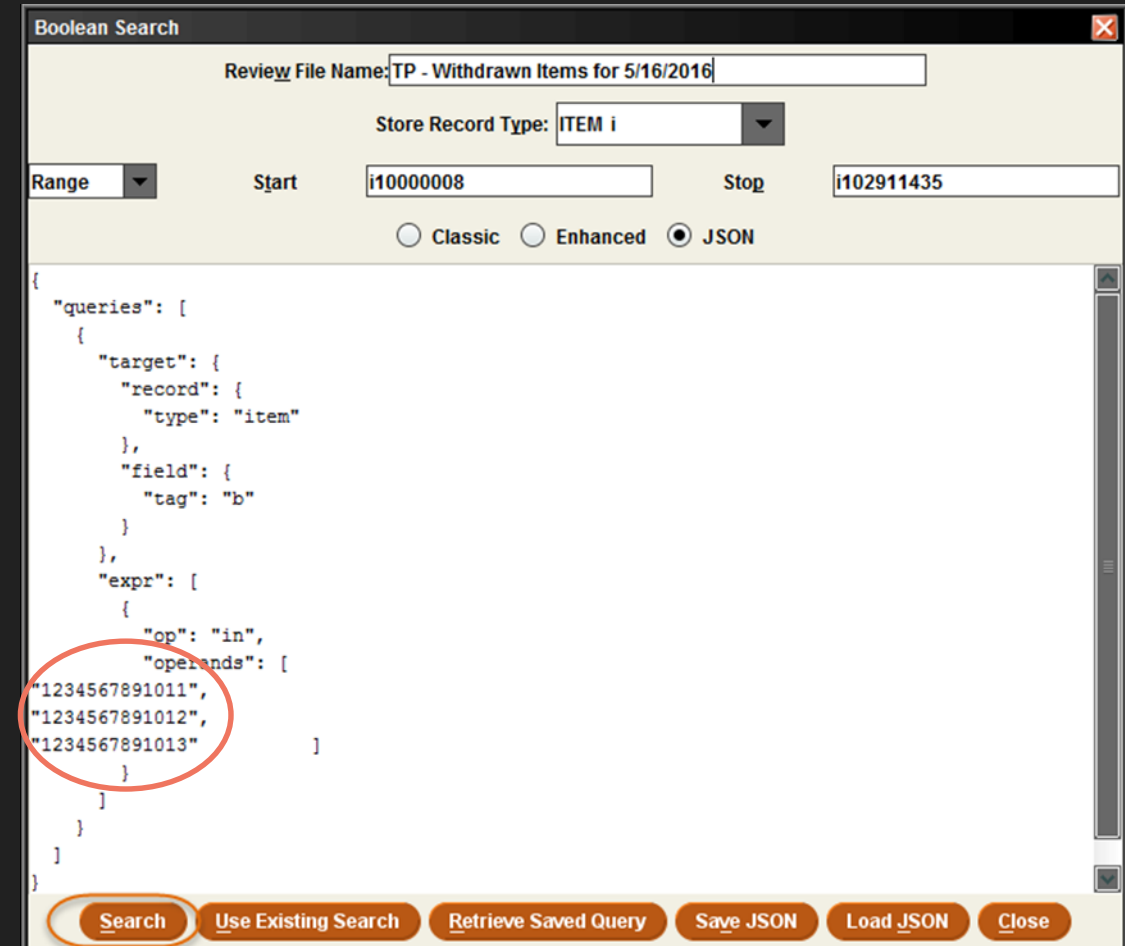
```
{
  "queries": [
    {
      "target": {
        "record": {
          "type": "item"
        },
        "field": {
          "tag": "b"
        }
      },
      "expr": [
        {
          "op": "in",
          "operands": [
            "0538502117517",
            "0538513096387",
            "0538513096395",
            "0538505744416",
            "0538512175315"
          ]
        }
      ]
    }
  ]
}
```

# Create Lists – JSON to Add a List of Barcodes to a Review File

You will need to copy and paste (Ctrl V) the barcodes from Notepad++ into the review file.

Here is what your JSON query will look like. Click Search.

Note: Any items that are no longer in the catalog will not show up in this search. This could be one of the reasons why the number of barcodes in the review file are less than the number of the scanned barcodes.



The screenshot shows the 'Boolean Search' window with the following fields and options:

- Review File Name: TP - Withdrawn Items for 5/16/2016
- Store Record Type: ITEM i
- Range: [dropdown]
- Start: i10000008
- Stop: i102911435
- Radio buttons: Classic, Enhanced, **JSON**

The JSON query displayed in the text area is:

```
{
  "queries": [
    {
      "target": {
        "record": {
          "type": "item"
        },
        "field": {
          "tag": "b"
        }
      },
      "expr": [
        {
          "op": "in",
          "operands": [
            "1234567891011",
            "1234567891012",
            "1234567891013"
          ]
        }
      ]
    }
  ]
}
```

The 'Search' button at the bottom is circled in red. The 'operands' array in the JSON query is also circled in red.

# Create Lists – JSON to Add a List of Barcodes to a Review File

## Possible problems

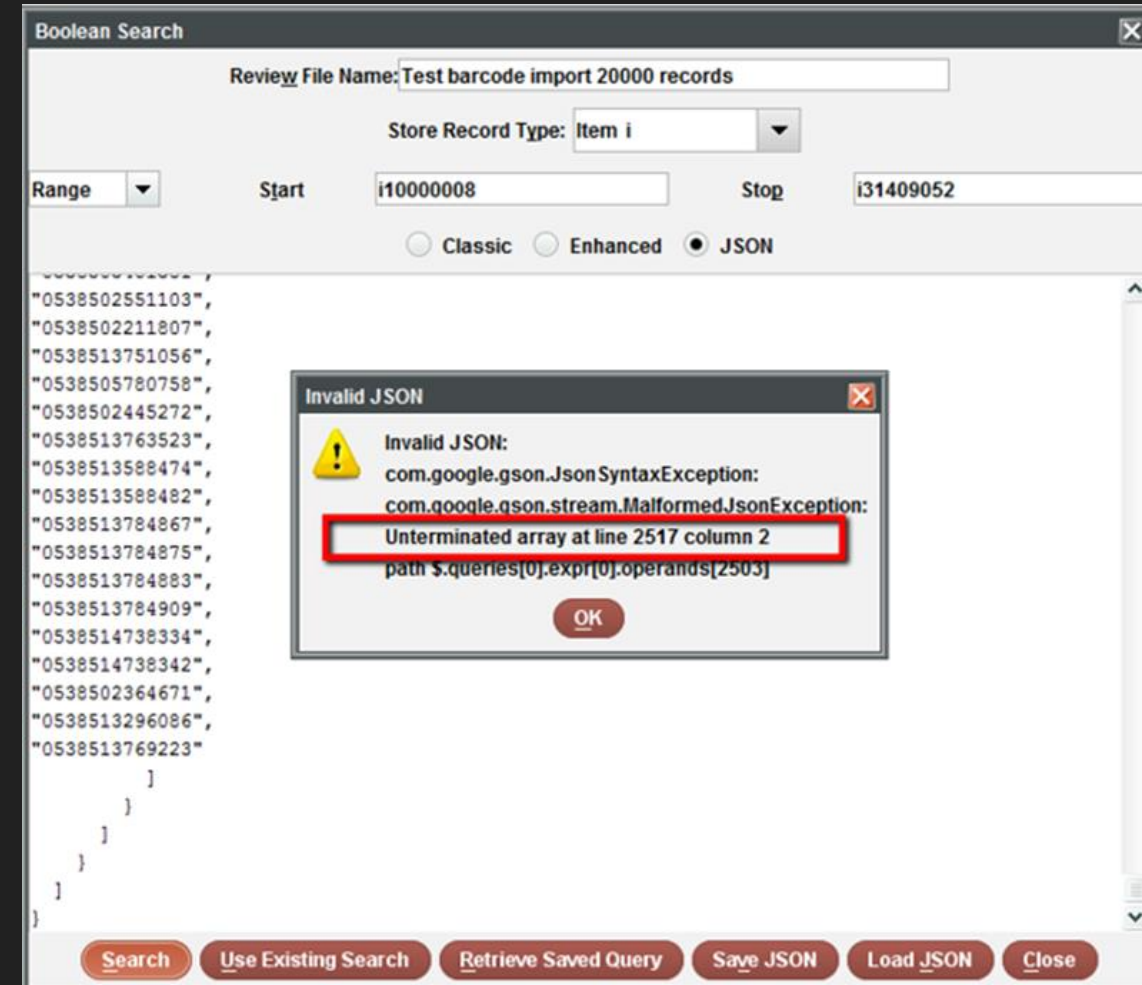
Bad Data in your query:

If you see the Unterminated array error, you may have a stray character in your query that is tripping up Create Lists.

"0538502117517",

"0538505744416",7 <-----Stray character "7"

"0538512175315"



The screenshot shows a 'Boolean Search' window with the following fields: 'Review File Name: Test barcode import 20000 records', 'Store Record Type: Item i', 'Range' dropdown, 'Start: i10000008', and 'Stop: i31409052'. The 'JSON' radio button is selected. Below the search area, a list of barcode numbers is displayed, including "0538502551103", "0538502211807", "0538513751056", "0538505780758", "0538502445272", "0538513763523", "0538513588474", "0538513588482", "0538513784867", "0538513784875", "0538513784883", "0538513784909", "0538514738334", "0538514738342", "0538502364671", "0538513296086", and "0538513769223". An 'Invalid JSON' error dialog is overlaid on the window, displaying the message: 'Invalid JSON: com.google.gson.JsonSyntaxException: com.google.gson.stream.MalformedJsonException: Unterminated array at line 2517 column 2 path \$.queries[0].expr[0].operands[2503]'. The error message is highlighted with a red box. At the bottom of the window, there are buttons for 'Search', 'Use Existing Search', 'Retrieve Saved Query', 'Save JSON', 'Load JSON', and 'Close'.

# Create Lists – JSON to Add a List of Barcodes to a Review File

Bad Data in your records:

If your barcode data is stored in patron and item records with inconsistent formatting or extra whitespaces, punctuation, etc., you might have trouble finding a given record. For example, if three of your item records have the following three barcodes (not including quotation marks) ...

"0538 5021 1 7517"

"0538513096387 "

"0538513096395."

And your JSON query has these three barcode character strings ...

"0538502117517",

"0538513096387",

"0538513096395",

None of the three barcodes would be found by create lists using the basic JSON query. It might be best to remove this extra spaces using Global Updates. Contact Marmot, if you need assistance with this type of Global Update.

# Create Lists – JSON to Add a List of Barcodes to a Review File

## Deleted Items

- Items deleted after they are scanned into Notepad++ will not show up in the review file.
- You will not get an error message.
- It might be best to keep a record of your scanned items, and compare it to the barcodes in the review.

# Structured Query Language (SQL) for special-purpose reporting in Sierra (Brandon)

What does SQL have to do with Sierra?

1. The Sierra database is structured into a PostgreSQL relational Database
1. This database captures material, circulation, patron, financial and other data
1. Using an application to connect to this database we can get access to this raw data
  - a. Often times has information that you can't get out of Create lists, Statistics, or Decision Center
  - b. Queries can be copied and reused

# Some Jargon

## SQL

- Structured Query Language
- Allows Management of PostgreSQL Database

## Schema

- Collections of views

## Views

- Collections of data columns

## Columns

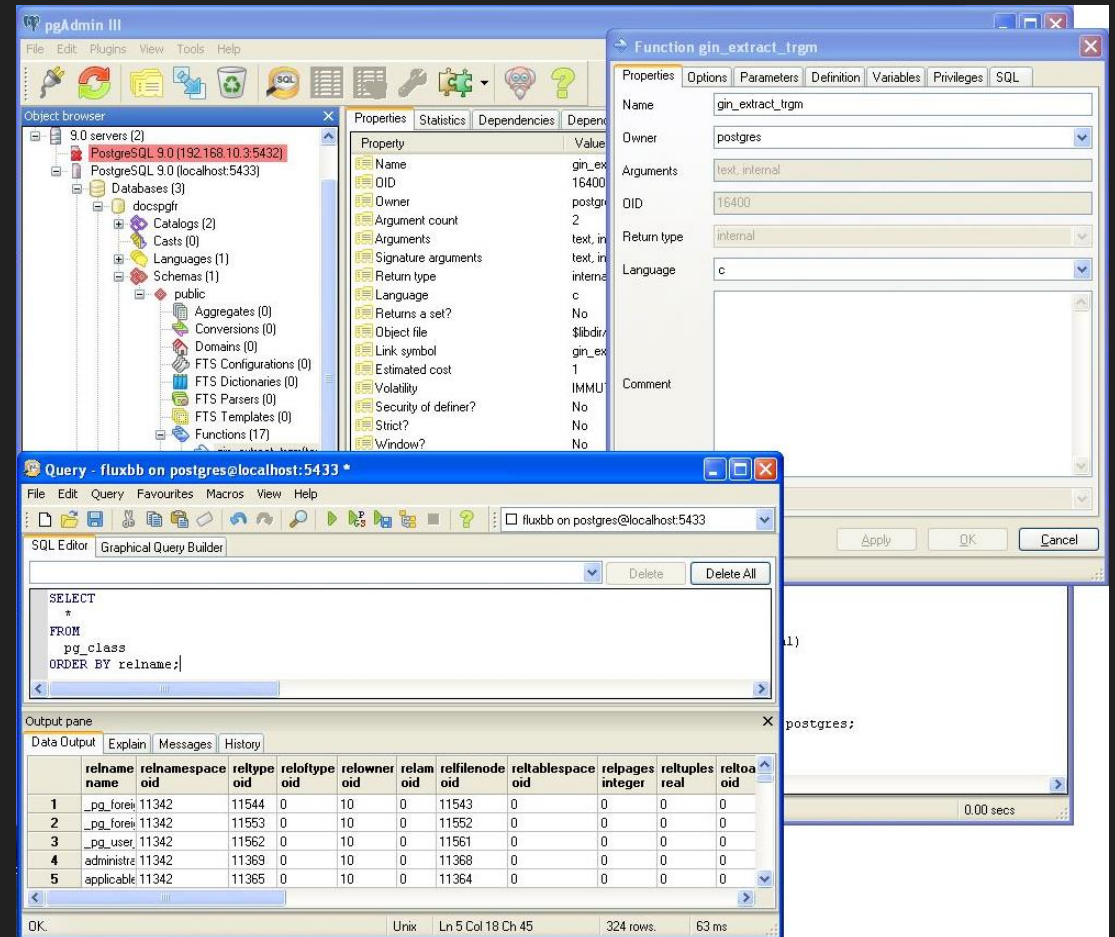
- Fields for the data (i.e. record numbers, barcodes, ect.)



# The Application

## pgAdmin

- Allows you to connect and see the schemas, views, and columns in the Sierra postgres database
- Easy familiar interface
- Can be used on Mac, Windows, and Linux
- Graphical Query Builder



# What can you get with SQL?

## Circulation

- Patrons opted into Reading history
- Patrons with Frozen holds older than (x) days
- Number of items checked out from category limits (A,B,C, & D)
- Bibs with more than (x) holds

## Cataloging

- Bibs with creation date (x) with at least one attached item with creation date (y)
- i-type counts
- Items linked to more than one bib

## Admin

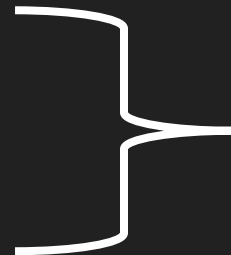
- Permissions Assigned to a Sierra Login
- Logins assigned to a user group pool
- Logins assigned to a stat group
- All Logins assigned to a Library served

# An Example

## Patrons Opted into Reading History at Mesa County

SELECT

patron\_view.barcode,  
patron\_view.home\_library\_code,  
patron\_view.is\_reading\_history\_opt\_in,  
patron\_view.patron\_agency\_code\_num



Columns

FROM

sierra\_view.patron\_view



View

WHERE

patron\_view.patron\_agency\_code\_num = 125 AND  
patron\_view.is\_reading\_history\_opt\_in IS NOT NULL;



Query Params

# Continued Example

- Screenshot shows the results you can export these results as a .csv and open in excel to format and order the data however you want

The screenshot displays a database query interface. At the top, there is a 'Previous queries' section with 'Delete' and 'Delete All' buttons. Below this is a text area containing a SQL query:

```
SELECT
  patron_view.barcode,
  patron_view.home_library_code,
  patron_view.is_reading_history_opt_in,
  patron_view.patron_agency_code_num
FROM
  sierra_view.patron_view
WHERE
  patron_view.patron_agency_code_num = 125 AND
  patron_view.is_reading_history_opt_in IS NOT NULL ;
```

Below the query is an 'Output pane' with tabs for 'Data Output', 'Explain', 'Messages', and 'History'. The 'Data Output' tab is active, showing a table with 21 rows of results. The table has five columns: 'barcode', 'home\_library\_code', 'is\_reading\_history\_opt\_in', and 'patron\_agency\_code\_num'. The 'barcode' column is labeled 'character varying(512)', 'home\_library\_code' is 'character varying(5)', 'is\_reading\_history\_opt\_in' is 'boolean', and 'patron\_agency\_code\_num' is 'smallint'. The 'patron\_agency\_code\_num' column contains the value 125 for all rows.

	barcode character varying(512)	home_library_code character varying(5)	is_reading_history_opt_in boolean	patron_agency_code_num smallint
1	4090007516179	mpm	t	125
2	4090005164665	mpf	t	125
3	4090007818138	mpm	t	125
4	4090007072124	mpc	t	125
5	4090006937095	mpp	t	125
6	4090007499194	mpm	f	125
7	4090002031128	mpp	t	125
8	4090005280227	mpm	t	125
9	4090006592004	mpp	t	125
10	4090006842386	mpm	t	125
11	4090007947911	mpm	t	125
12	4090006392060	mpd	t	125
13	4090007523795	mpm	t	125
14	4090007263665	mpm	t	125
15	4090007798835	mpf	f	125
16	4090007002063	mpf	t	125
17	4090002397126	mpm	t	125
18	4090006765934	mpo	f	125
19	4090007356527	mpm	t	125
20	4090007393181	mpf	t	125
21	4090006767955	mpm	t	125

At the bottom of the interface, there is a status bar showing 'OK', 'Unix Ln 11, Col 1, Ch 287', '5020 rows.', and '396 msec'.

# User Services Contact Information

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