Three Weird Tricks For Managing Data

Ideas from Marmot



First Weird Trick

Add Loading Notes to MARC Records



Add a note to MARC records about how and when they were loaded

- Which load profile loaded a particular record?
- When was it loaded? When was it overlaid?
- Which library did the load?



Add a line to each load profile that inserts a note into each record

- Put a different note in each profile to identify that loader in the records it creates or overlays.
- This is the line:
 - |995|T|0|0|b|m|0|y|N|0| |aLoaded with m2btab.sky in this month
- NOTE: That is the only line creating a 995. Do not have another line loading incoming 995s. If you did that you would duplicate them all if one of your records were reloaded, such as from an authority vendor.
- That will insert the note "Loaded with m2btab.sky in this month" into the 995 of every record it loads.
- You can use a different field if you have stuff in your 995s.

Now you will get notes like this in your records

Bib Record · b57218766										×
<u>File E</u> dit <u>V</u> iew <u>G</u> o <u>T</u> ools	s Re <u>p</u> orts W	indow <u>H</u> elp								
			晶	@	1		5	GÐ	<u>ا</u>	C®
		Insert	Save	View	Edit	Summary	_	Export	Print	Close
b57218766 Last Upda	ated: 01-24-2	2018 Created: 01-03-2018 Revisions: 4								
· · · ·										
		runs away and eventually finds shelter with Fish, the old Kickapoo	India	n who	cam	ps by	the r	iver.		~
		Wishing Caswell Dead is a historical mystery about the evil that hi	.des w	ithin	a v	illage	, one	girl	who	
		is determined to save herself and her child, and a violent murder r	no one	want	s to	solve	" c			
		Provided by publisher.								
SUBJECT	655 7	Detective and mystery fiction. <mark> 2</mark> lcgft								
OTHER TITLE (q)	776 0 8	iOnline version: aStoltey, Patricia, author. tWishing Caswell dead	l <mark> b</mark> Fir	st ed	itio	n. <mark> </mark> d				
		Waterville, Maine : Five Star Publishing, a part of Cengage Learnir					14328	34388	w	
		(DLC) 2017026815								
LOAD NOTE	995	Loaded with m2btab.sky in this month								
b57218766				Edit	t Mode (INS)				



Protect the note from overlay

- Protect the field
 - o @ov_protect="b=Vm(995)"
- Now it will create a new note with each overlay.
- This creates a history of this record.



Each overlay adds another one because of @ov_protect

Bib Record · b57218766			<
<u>File Edit View Go Too</u>	ls Re <u>p</u> orts V	N <u>i</u> ndow <u>H</u> elp	
		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
		Insert Save Save All View Edit Summary Verify Export Print Close	
			-
b57218766 Last Upo	lated: 01-24-	-2018 Created: 01-03-2018 Revisions: 4	
		Wishing Caswell Dead is a historical mystery about the evil that hides within a village, one girl who	
		is determined to save herself and her child, and a violent murder no one wants to solve" <mark> c</mark> Provided by publisher.	
SUBJECT	655 7	Detective and mystery fiction. 2 cgft	
OTHER TITLE (q)	776 0 8	iOnline version: aStoltey, Patricia, author. tWishing Caswell dead bFirst edition. d	
		Waterville, Maine : Five Star Publishing, a part of Cengage Learning, Inc., [2017] z9781432834388 w	
		(DLC) 2017026815	
LOAD NOTE	995	Loaded with m2btab.ltiac in this month	
LOAD NOTE	995	Loaded with m2btab.sky in this month	
b57218766		Edit Mode (INS)	



"In this month" will be wrong next month

• Do a Global Update to fix it on the first of every month.



On the first day of each month, gather the new records

Boolean Search							X
Revie <u>w</u> File Name: Ihc new record	is						
Store Record Type: BIBLIOGRAPH	IIC b 🔻						
Range 💌	S <u>t</u> art	b1000008			Stop	b57273492	
Classic	Classic						
Enhanced	Term Operator	Type BIBLIOGRAPHIC	Field MARC Tag 995	Condition has	Value A in this month	Value B	
JSON							
							*
	BIBLIOGRAPHIC MARC Tag 995 ha	is "in this month"					Group Ungroup Insert Line
	<u>S</u> earch	Jse Existing Search	<u>R</u> etrieve Saved Q	uery Sa <u>v</u> e	Sav <u>e</u> As <u>C</u> lose		



Global Update to change "this month" to last month's date

Change Va	riable-length Field(Editing Comma	nd)			X
Change f	field				
Use	Displayed Field		Matcl	h Case	
Mat	ch <u>W</u> hole Field		Matcl	h Whole <u>S</u> ubfie	ld
	Field Group Tag	MARC Tag	Ind1	Ind2	Data
<u>F</u> ind	<any></any>	995	<any></any>	<any></any>	this month
<u>R</u> eplace	<no change=""></no>	<no change=""></no>	<no change=""></no>	<no change=""></no>	2018.01
L		QI	K <u>C</u> ancel		



Now they look like this

Bib Record · b57218766	
<u>File Edit View Go Tools Reports</u>	W <u>i</u> ndow <u>H</u> elp
	Insert Save All View Edit Summary Verify Export Print Close
b57218766 Last Updated: 01-2	5-2018 Created: 01-03-2018 Revisions: 5
·	
	into prostitution by Caswell, Jo Mae discovers sne is pregnant and vows to escape. when Caswell is injured by a hear
	lightning hit, he becomes more dangerous, and more hated. The flawed residents of the Village of Sangamon harbor many
	secrets. Caswell knows them all. Will he tell? Jo Mae runs away and eventually finds shelter with Fish, the old
	Kickapoo Indian who camps by the river. Wishing Caswell Dead is a historical mystery about the evil that hides within a
	village, one girl who is determined to save herself and her child, and a violent murder no one wants to solve" c
	Provided by publisher.
SUBJECT 655 7	Detective and mystery fiction. 2lcgft
OTHER TITLE(q) 776 0 8	<mark> i</mark> Online version: <mark> a</mark> Stoltey, Patricia, author. <mark> t</mark> Wishing Caswell dead <mark> b</mark> First edition. <mark> d</mark>
	Waterville, Maine : Five Star Publishing, a part of Cengage Learning, Inc., [2017] <mark> z</mark> 9781432834388 <mark> w</mark> (DLC) 2017026815
LOAD NOTE 995	Loaded with m2btab.ltiac in 2018.01
LOAD NOTE 995	Loaded with m2btab.sky in 2018.01
b57218766	Edit Mode (INS)



Eventually a record may look like this

Bib Record · b53642004												×
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>G</u> o <u>T</u> oo	ols Re <u>p</u> o	rts V	W <u>i</u> ndow <u>H</u> elp									
				Ð	ß	@	1		§	ß	Ē	C9
				Insert	Save	View	Edit	Summary	∨erify	Export	Print	Close
b53642004 Last Upo	dated: 0	1-24-	-2018 Created: 02-06-2017 Revisions: 807									
LOAD NOTE	995		Loaded with m2btab.ltiac in this month									^
LOAD NOTE	995		Loaded with m2btab.ltiac in 2017.10									
LOAD NOTE	995		Loaded with m2btab.ing in 2017.09									
LOAD NOTE	995		Loaded with m2btab.ltiac in 2017.09									
LOAD NOTE	995		Loaded with m2btab.b in 2017.04									
LOAD NOTE	995		Loaded with m2btab.b in 2017.03									
LOAD NOTE	995		Loaded with m2btab.b in 2017.02									
LOAD NOTE	995		Loaded with m2btab.b in 2017.02									
LOAD NOTE	995		Loaded with m2btab.b in 2017.02									
LOAD NOTE	995		Loaded with m2btab.ing in 2017.02									
LOAD NOTE	995		Loaded with m2btab.ven in 2017.02									
LOAD NOTE	995		Loaded with m2btab.click in 2017.09									
b53642004							Edit Moo	le (INS)				•

LIBRARY NETWORK

How to you know who loaded it?

- OCLC puts a code in the 994 field.
- Use a translation map to make it readable.



The 994 from OCLC

Bib Record · b53642004												X
<u>File E</u> dit <u>V</u> iew <u>G</u> o <u>T</u> o	ols Re <u>p</u> o	orts	N <u>i</u> ndow <u>H</u> elp									
				Ð	晶	@	1		Ś	GÐ	e	L®
				Insert	Save	View	Edit	Summary	_	Export	Print	Close
b53642004 Last Up	dated: 0	01-24	2018 Created: 02-06-2017 Revisions: 807									
MISC	908		.010503468									^
MISC	994		COIDCDF									
LOAD NOTE	995		Loaded with m2b ab.ltiac in this month									
LOAD NOTE	995		Loaded with m2btab.ltiac in 2017.10									
LOAD NOTE	995		Loaded with m2btab.ing in 2017.09									
LOAD NOTE	995		Loaded with m2btab.ltiac in 2017.09									
LOAD NOTE	995		Loaded with m2btab.b in 2017.04									
LOAD NOTE	995		Loaded with m2btab.b in 2017.03									
Т.ОАД NOTE b53642004	995		Loaded with mohtab h in 2017 02				Edit Mo	de (INS)				~



Change the line in the loader to call a translation map

- 994|995|+|0|0|b|m|0|y|N|0|%map="m2bmap.id"
- Take the 994 and create a 995 based on the translation map.
- This replaces the note line for OCLC loaders.



Here's the map

@delimiter=~

@case=true

@stop_on_map=true

|aC0|bCOM~|aExported from Connexion by CMU and loaded with m2btab.b in this month |aC0|bBV#~|aExported from Connexion by Salida and loaded with m2btab.b in this month |aC0|bCDF~|aExported from Connexion by FLC Reed and loaded with m2btab.b in this month |a92|bCOM~|aOCLC offline update by CMU and loaded with m2btab.b in this month |a92|bBV#~|aOCLC offline update by Salida and loaded with m2btab.b in this month |a92|bBV#~|aOCLC offline update by FLC Reed and loaded with m2btab.b in this month |a92|bCDF~|aOCLC offline update by FLC Reed and loaded with m2btab.b in this month .*~|aLoaded with m2btab.b in this month

Different maps for each loader

The map includes the name of the loader, so you need a different one for each loader that loads OCLC records.



Now the note tells you who did the load

Bib Record · b23292635														×
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>G</u> o <u>T</u> oo	ls Rep	orts	W	ndow <u>H</u> elp										
				4	5	晶		ē	1		5	GÐ	≞	C9
				In	nsert	Save	Save All	√iew	Edit	Summary	√erify	Export	Print	Close
		_	-											
b23292635 Last Up	dated:	01-2	25-2	018 Created: 11-19-2003 Revisions: 1594										
MISC	938			YBP Library Services <mark> b</mark> YANK <mark> n</mark> 1596717										
MISC	994			CO <mark>ID</mark> HFU							1			
LOAD NOTE	995	00	0	Exported from Connexion by Pitkin and loaded with m	12bta	ab.b	in thi	is mo	nth	<				
LOAD NOTE	995			Loaded with m2btab.ltiac in this month										
LOAD NOTE	995			Loaded with m2btab.b in 2017.12										
LOAD NOTE	995			Loaded with m2btab.b in 2017.10										
LOAD NOTE	995			Loaded with m2btab.ltiac in 2017.08										
LOAD NOTE	995			Loaded with m2btab.ing in 2017.07										
b23292635	005								Edit Mod	de (OVR)				_ ⊻



Put the 995 in it's own Field Group

• You can toggle by Field Group in Global Update to see statistics.



Breakdown in Global Update like this:

📉 Sierra · Marmot Library Net	twork · Lloyd Chitter	nden		[_ D 🛿
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>G</u> o <u>T</u> ools	Re <u>p</u> orts <u>A</u> dmin	W <u>i</u> ndow <u>H</u> elp			
sierra			FUNCTION Global Update		•
				Edit Remove	Print
1. Select records	1. Select	t records			
2. Command input	-Record Type-				
3. Preview	BIBLIOG			SE	
Statistics	Review 🔻	Review file:	490. Ihc new records (23) (BIBLIOGRAPHIC)	Sea <u>r</u> ch	
	#	LOAD NOTE	۵	# ENTRIES	
	✓ 1 b	99500 aExported from	Connexion by Bud Werner and loaded with m2btab.b in this month	5	^
	✓ 2 b	99500 aExported from	Connexion by CCU and loaded with m2btab.b in this month	1	
	✓ 3 b	99500 aExported from	Connexion by CMU and loaded with m2btab.b in this month	1	=
	✓ 4 b	99500 aExported from	Connexion by FLC Reed and loaded with m2btab.b in this month	1	
	✓ 5 b	99500 aExported from	Connexion by Pitkin and loaded with m2btab.b in this month	6	
	✓ 6 b	995 aLoaded with m2b	otab.acq2 in 2017.04	1	
	✓ 7 b	995 aLoaded with m2b	otab.b in 2017.01	1	
	✓ 8 b	995 aLoaded with m2b	otab.b in 2017.02	1	
	✓ 9 b	995 aLoaded with m2b	otab.b in 2017.03	3	
	✓ 10 b	995 aLoaded with m2t	otab.b in 2017.04	8	
	✓ 11 b	995 aLoaded with m2t	tab.b in 2017.05	2	~
118 Selected Entries	nited	to 14 results	Total : 39 Groups	s, 118 Entries	

Questions about the loading notes process?



Second Weird Trick

Scan Records Directly into a Review File



Load files into a review file with a barcode scanner

- What do you do when you have a cart of books you need to put in a review file?
- There's nothing they have in common except they are on the same truck.
- You want to scan the barcodes to put them directly into a review file.



Enhanced Mode Create Lists:

Boolean Search							X
Revie <u>w</u> File Name: Ihc barcode file	e						
Store Record Type: BIBLIOGRAPH	IIC b 🔻						
Range 🔻	S <u>t</u> art	b1000008		Stop	b56595670		
Enhanced	Enhanced						
JSON	ITEM	BARCODE				+ &	×
	in					+ 2	
	I					+	×
	<u>S</u> earch <u>U</u> se Exi	sting Search <u>R</u> etrieve	Saved Query	Sa <u>ve</u> Sav <u>e</u> As	<u>C</u> lose		

Use the 'in' operator

Boolean Search							X
Revie <u>w</u> File Name: Ihc barcode file	e						
Store Record Type: BIBLIOGRAPH	HC b 🔻						
Range 🔻	S <u>t</u> art	b1000008		Sto <u>p</u>	b56595670		
Enhanced	Enhanced						
JSON	ITEM	BARCODE]			+ ć	× ×
	in					+ ć	
						+	·×
	<u>S</u> earch <u>U</u> se I	Existing Search <u>R</u> etrieve S	aved Query Sa <u>v</u> e	Sav <u>e</u> As	<u>Cl</u> ose		

Scan the first barcode

Boolean Search							X
Revie <u>w</u> File Name: Ihc barcode file	e						
Store Record Type: BIBLIOGRAPH	IIC b 🔻						
Range 🔻	S <u>t</u> art	b1000008		Stop	b56595670		
Enhanced	Enhanced						
JSON	ITEM	BARCODE				+ 4	≈ ×
	in					+ ,	? ×
	970000	0005963					+ ×
							J
	<u>S</u> earch <u>U</u> se E	xisting Search <u>R</u> etrieve S	aved Query	Sa <u>v</u> e Sav <u>e</u> As	<u>C</u> lose		

Press TAB then SPACE

Boolean Search							X
Revie <u>w</u> File Name: Ihc barcode file	e						
Store Record Type: BIBLIOGRAPH	IIC b 🔻						
Range 🔻	S <u>t</u> art	b1000008		Sto <u>p</u>	b56595670		
Enhanced	Enhanc	ed					
JSON	ITEM	BARCODE				+ ć	× ×
	in					+ ć	2 ×
	9	70000005963				+	- ×
	I					+	- ×
	<u>S</u> earch	Use Existing Search	Retrieve Saved Query	Sa <u>v</u> e Sav <u>e</u> As	<u>Cl</u> ose		

Scan the next barcode, repeat

Boolean Search							×
Revie <u>w</u> File Name: Ihc barcode file]				
Store Record Type: BIBLIOGRAPHIC	b 💌						
Range 🔻	S <u>t</u> art	t b1000008		Sto <u>p</u>	b56595670		
Enhanced	Enhan	iced					
JSON	ITEM	BARCODE			+	ð	×
	in				+	ð	×
		970000005963				+	×
		970000005964				+	×
	<u>S</u> earch	Use Existing Search	trieve Saved Query	Sa <u>v</u> e Sav <u>e</u> As <u>C</u>	lose		

Can I just scan, without using the keyboard?

YES!

Program your scanner to add the tab and space after each scan



Scanner programing guide

- A scanner programming guide is attached on the website
- It may not work for all scanners



Print out the guide and scan the barcodes

FILE TOOLS VIEW

Programing a barcode scanner to add barcodes to Create Lists_0-1.docx [Read-Only] - Word

🗵 – 🗆 🗙

140%

Programing a barcode scanner to add barcodes to Create Lists

Scan each of these barcodes in sequence



This will reset the scanner to factory default settings

Enter/Exit Configuration Mode



Configurable Suffix #1

R

SCREENS 1-2 OF 7



*Note: this will not work with all scanners – your results may vary

Now you don't need the keyboard between scans

Boolean Search									×
Review File Name: Ihc barcode file	•								
Store Record Type: BIBLIOGRAPHI	IC b 🔻								
Range 💌	S <u>t</u> art		b1000008		Stop	b56595670			
Enhanced	Enhan	ced							
JSON	ITEM		BARCODE				+ .	õ	×
	in						+	õ	×
		97000000	5963					+	×
		97000005964					+	×	
	<u>S</u> earch	Use Exist	ting Search <u>R</u> etrieve	Saved Query	Sa <u>v</u> e Sav <u>e</u> As	<u>C</u> lose			

Delete the empty line at the end, or you will get all the records with an empty barcode field

Boolean Search						×
Revie <u>w</u> File Name: Ihc barcode file	•					
Store Record Type: BIBLIOGRAPH	IC b 🔻					
Range 🔻	Start	b1000008		Stop	b56595670	
Enhanced	Enhanced					
JSON	ITEM	BARCODE				+ & ×
	in					+ & ×
	97000	00005963				+ ×
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	<u>S</u> earch <u>U</u> se	Existing Search	tetrieve Saved Query	Sa <u>v</u> e Sav <u>e</u> As	<u>C</u> lose	

Remember to reset your scanner to defaults when you are done

FILE TOOLS

VIEW

Programing a barcode scanner to add barcodes to Create Lists_0-1.docx [Read-Only] - Word

🗵 – 🗖 🗙

140%

Programing a barcode scanner to add barcodes to Create Lists

Scan each of these barcodes in sequence



This will reset the scanner to factory default settings

Enter/Exit Configuration Mode



Configurable Suffix #1

R





Questions about scanning directly into a review file?



Third Weird Trick

Analyze Your Data With OpenRefine





- OpenRefine is free data wrangling software.
- Like a spreadsheet or database, but works with existing data.
- Just Google it and download.
- Operates in your browser.
- It will tax the speed of your browser.
- Faster browser actually makes a difference.



These projects are small examples of what OpenRefine can do

- OpenRefine is extremely powerful.
- This is a tiny portion of what you might do with it.
- These particular projects are probably not interesting to you.
- They may give you an idea of what OpenRefine would allow you to do with your own data.



Simple OpenRefine project: What is in my 902 fields?

- I found that the most common local field in my system was 902.
- These seemed to be data left over from some ancient project on my system, but what are they? Can I use them? Can I delete them?
- They seem to be numbers like 071205 and 060630.
- Some other weird notes and things.



Exported the 902 fields from Sierra into a tab delimited file

🥘 902.tab - Notepad			_	×
File Edit Format View Help	NN 11	10001		
"RECORD #(BIBLIC		"902"		
"b10000185"	"060630"			
"b10000288"	"060630"	1		
"b10000331"	"060713"	1		
"b10000355"	"060713"	•		
"b10000616"	"060713"			
"b10000677"	"060712"			
"b10000690"	"060630"	•		
"b10000719"	"060630"	1		
"b10000756"	"060713"	1		
"b1000077x"	"060714"	1		
"b10000781"	"060713"	1		
"b10000811"	"060630"	1		
"b10000823"	"060630"	1		
"b10000847"	"060712"	1		
"b10000884"	"060630"	1		
"b1000094x"	"060713"	1		
"b10000951"	"060713"	•		
"b10000999"	"060714"			
"b10001001"	"060630"			

Start OpenRefine in a browser

📡 OpenRefine	× +		- 0	×
← → 査 ♂	i 127.0.0.1:3333	90% 💟 🚖 🔍 Search	III\ <mark>S</mark> 🗊	≡
Refiñe	A power tool for working with messy data	R. Contraction of the second se		
Create Project Open Project		ta. What kinds of data files can I import? x), JSON, XML, RDF as XML, and Google Data documents are all supported. Support for other formats can be added with OpenRefine ext	ensions.	
Import Project	Get data from	Locate one or more files on your computer to upload:		
Language Settings	This Computer	Browse No files selected.		
	Web Addresses (URLs)	Next »		
	Clipboard			
	Google Data			
Version 2.6-rc.2 [TRUNK]				
Help About				

Click Browse... to find the file

DpenRefine	× +		- 🗆 ×	
← → ± ℃ 6	(i) 127.0.0.1:3333	••• 💟 🚖 🔍 Search		
Refiñe	A power tool for working with messy data.			
Create Project Open Project	TSV, CSV, *SV, Excel (.xls and .x	lata. What kinds of data files can I import? dsx), JSON, XML, RDF as XML, and Google Data docum added with OpenRefine extensions.	ents are all supported.	
Import Project Language Settings	Get data from This Computer Web Addresses (URLs)	Locate one or more files on your computer to upload: Browse No files selected.		
Version 2.6-rc.2 [TRUNK]	Clipboard Google Data			
Help About				

Click Next »

DpenRefine 🍥	× +		-		×
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Refiñe	A power tool for working with messy dat	а.			
Create Project Open Project		i ta. What kinds of data files can I import? x), JSON, XML, RDF as XML, and Google Data documents are all supported. Support for other formats can be added with OpenRefine exte	ensions	3 .	
Import Project	Get data from	Locate one or more files on your computer to upload:			
Language Settings	This Computer	Browse 902.tab			
	Web Addresses (URLs)	Next »			
	Clipboard				
	Google Data				
Version 2.6-rc.2 [TRUNK]					
Help About					

Usually the defaults work when creating a project

DpenRefine		×	+										—		×
← → ≇ ୯	۵	i 127.0.0.1:3	333			90%	··· 🛡 ·	*	Q Sear	rch			II\ .	<mark>9</mark> 1 🗊	≡
Refiñe ⋗	A powe	er tool for working with	h messy data.												
Create Project	« St	art Over Configu	re Parsing Opt	ions					Project	name	902 tab		Cre	eate Proje	ct »
Open Project Import Project Language Settings	1. 2. 3.	RECORD #(BIBLIO) b10000185 b10000288 b10000331 b10000355	902 060630 060630 060713 060713												
	5. 6.	b10000616 b10000677 b10000690	060713 060712 060630												
	Pa	arse data as		Character encoding								[Upda	te Preview	<u> </u>
		SV / TSV / separato	or-based files	Columns are separated by	It recog	nizes	Ignore			0	line(s) at beginning of fil				
	Fb	ne-based text files xed-width field text f C-Axis text files	files	Commas (CSV) € tabs (TSV) Custom \t		a tab file	Parse 🖸 Cisca	rd initia		1 0 0	line(s) as column heade row(s) of data row(s) of data	ers			
		ON files ARC files		Escape special characters with	11										
Version 2.8-rc.2 [TRUNK]		DF/N3 files					Parse numb	ers, da	ates,	icod	Store bland Store bland	k cells a	as nul	lls	
Help About	Op	/L files pen Document For					to end	lose c	arks are u ells contai arators		Store file s (file names) in each rov	s, URLs	5)		2

640,000 rows of data ready to play with

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Sort the facet by count to see most common data

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Have you figured out what the numbers are yet?

- Dates. We think they are codes for the date someone did something to these records.
- Assuming that's the case, we can find the newest date.
- We could just sort the 902 column, but what about those multiple fields?
- We can split them out.



Split multi-valued cells...

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The separator is ";"

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Now every 902 is in its own row

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Scroll down a couple pages and the most recent is 2009

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Upshot

- Based on the breakdown in OpenRefine we determined these are old data. Nobody has added these to our system since December of 2009.
- We decide it is ok to delete them.



Looking for duplicates

- Our 001 and 019 are not in the same index, so Headings Reports won't see those duplicates.
- We were thinking about reindexing to fix this, but we didn't know how big the problem was.



We used SQL to pull out the 001 and 019 fields into a CSV

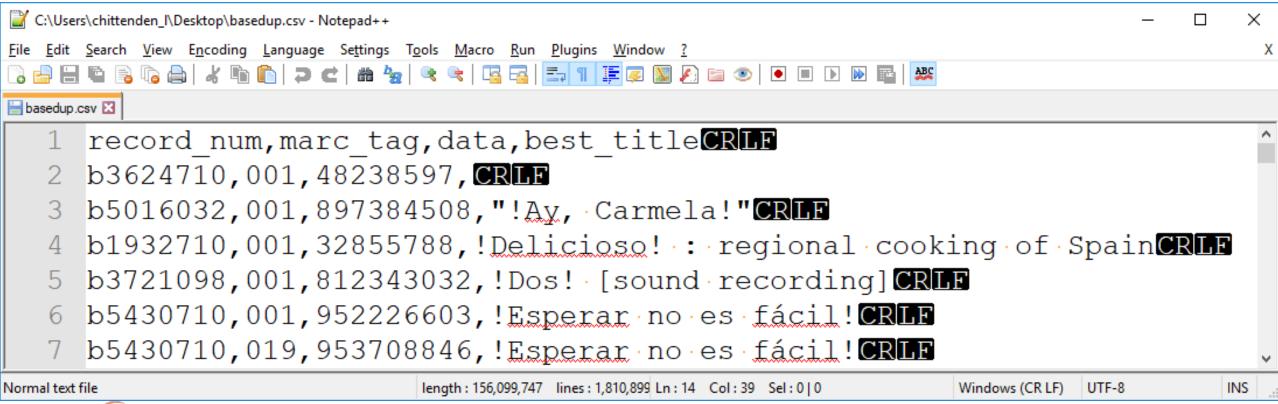
SELECT

```
'b' || vt.record_num || 'a' as Record_num,
       vt.marc_tag,
       unnest(string_to_array(vt.field_content, '|a')) AS Data
FROM
       sierra_view.varfield_view as vt
WHERE
       vt.marc_tag = '019'
OR
 vt.marc_tag = '001'
ORDER BY
 vt.record_num
```

MARMOT LIBRARY NETWORK

That produced this file

Columns for: Record number, MARC tag, Number, Title





Click Browse... to find the file

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Here's the data, all 1.8 million rows.

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You can sort a column

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	☆ 🗐 33	Facet	•	12154435	"and ladies of the club"					
Use facets and filters to select subsets	☆ 🏹 34	Text filter		50853617	"first do no harm" [videorecording]					
of your data to act on. Choose facet and filter methods from the menus at the top	☆ 🏹 35			52871940	"The burden of psychiatric conditions has been heavily underestimated" [electronic resource] : the impact of mental illness on society.					
of each data column.	☆ 🏹 36	 Edit cells Edit column Edit column Transpose 		4710532	"We are the living proof" : the justice model for corrections					
	☆ 🗐 37		•	28827124	" and they laid them to rest in the little plot beside the Pecos" : final report on the relocation of old Seven Rivers Cemetery, Eddy County, New					
Not sure how to get started? Watch these screencasts	☆ 🏹 38		►	30959525	" and they laid them to rest in the little plot beside the Pecos" [microform] : final report on the relocation of old Seven Rivers Cemetery, Eddy					
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	☆ 🏹 40			777264089	"10" [videorecording]					
	☆ 🏹 41	. View	•	705362648	"10" [videorecording]					
	☆ 🏹 42	Reconcile	•	812539120	"101" Strings play Victor Herbert favorites [sound recording].					
	☆ 🗐 43	b1076366	001	26539506	"1812" Overture, op. 49 ; Marche slave, op 31 [sound recording]					
	☆ 57 44	. b4763004	001	13225493	"1812" overture [sound recording] : op. 49 ; Capriccio italien : op. 45 ; Cossack dance : from Mazeppa					
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	~ 0	. b2908107	001	31294899	"25 études célèbres" [sound recording] ; Fantasy, opus 28, for flute & harp					
		. b1372926	001	25810188	"70% by '92" : safety belt program idea sampler					
	요 더 50	. b1318625	001	4582038	"88" grand old songs : containing 88 old favorites that will live forever! For voice piano and uke					
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Filter

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of your data to act on. Choose facet and	숬 듸 3.	b1932710		8	8 !	Delicioso! : regional cooking of Spain	
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	☆ 🖓 11.	b1749677	001	03052440	0 !	Dh, hermoso mundo!	
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	☆ 🖓 13.	b5283789	001	87531459	90 !	Qué confusión!	
	☆ 57 14.	b5283789	019	876821923	23 !	Qué confusión!	
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Create a facet

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Here's a duplicate facet on the 'data' column

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There are 27,258 dups and 1,783,639 unique in the data column

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Duplicate facet and text facet

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Facets interact. Select 019, and duplicates facet only counts those dups

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exclude

Now we have all the dups, in either field

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I want to export the record numbers of the duplicates

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A dictionary of the Choctaw language / Edited by John R. Swanton and Henry S. Halbert.

Learn more about OpenRefine

https://data-lessons.github.io/library-openrefine/



Questions about OpenRefine?

