2016-10-14

Using OpenRefine for data-driven decision-making: a case study from the University of Michigan Library

Carruthers, Matthew

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USING OPENREFINE FOR DATA-DRIVEN DECISION-MAKING

A case study from the University of Michigan Library

Matt Carruthers
Metadata Projects Librarian
University of Michigan

OpenRefine



openrefine.org

OpenRefine



openrefine.org

(He's lying.)

Project Summary

- Identify resources in our collection for which we own more than one copy.
- Assess whether or not they are low-use items.
- Withdraw duplicate copies from the collection or send to remote storage.

Project Summary

DataMart

- Library's reporting tool for extracting data from our ILS.
- Reports are generated in spreadsheet format.
- Spreadsheets contain a mix of bibliographic information and usage statistics.

Project Summary

- Find items which:
 - Have more than one copy in the Library.
 - Are not part of a series.
 - Are at least five years old.
 - Have circulated less than six times.
 - Are not "in process".
 - Are not attached to a provisional cataloging record.
 - Are part of the circulating collection.

In the Beginning

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2524 000468533	Grosse, Ernst, 1862-1927.	Le lavis en extrême	ie Orien B	JUHR A	AAEL	ND2065 .G884	4	0	nd#2065	g884		390150	0315	22-Aug-1994	1924	4 Bul	hr B 1296404	0	02		_
2525 000468544	Münz, Ludwig, 1889-1957.	Rudolf von Alt;	B'	BUHR FI	INE	ND1946 .A46	M95	0	nd#1946	a46 m95		390150	J166	16-Jul-1991	1954	4 Bul	hr C 685218	0	03		
2526 000468628	Jornadas de Investigación I	Ir La imagen de la m	ujer en (B'	JUHR F	INE	N7638 .S7 J67	71 1983	0	n#7638 s	7 j671 1983		390150	0152	05-Nov-1990	1984	4 Bul	hr B 1854030	0	01		
2527 000468712	Rose, Arthur, 1858-	Scenes for scene-p	painters B'	JUHR G'	GRAD	ND2885 .R78	,	0	nd#2885 i	r78		390150	J278	06-Jul-1994	1925	5 Bul	hr B 918386	2	01		
2528 000468775	Jackson, Frederick Hamilton	or Mural painting /	B'	BUHR GF	GRAD	ND2550 .J13		0	nd#2550 j	j13		390150	J134	18-Oct-1989	1904	4 Buh	hr B 918183	0	01		
2529 000468775	Jackson, Frederick Hamilton	or Mural painting /	B'	BUHR AA	AEL	ND2550 .J13		0	nd#2550 j	j13		390150	0315	22-Aug-1994	1904	4 Bul	hr B 1296159	2	04		
2530 000468778	Gerstenberg, Kurt, 1886-19	€ Die Wandgemälde	e der dei B'	JUHR G	GRAD	ND 2757 .R62	2 G38	0	nd#2757	r62 g38		390150	0845	13-Jul-1990	1934	4 Bul	hr D 401160	0	01		
2531 000468793	Fondazione "Giorgio Cini."	Scenografie del M	useo te B	JUHR G'	GRAD	ND2885 .F68	, , , , , , , , , , , , , , , , , , , ,	0	nd#2885 1	f68		390150	0532	07-Nov-2001	1965	5 Bul	hr B 1357720	0	01		
2532 000468799	Aeschlimann, Erardo Ulrico	o, Dictionnaire des m	niniaturi B'	JUHR G'	GRAD	ND2890 .A25	1969	0	nd#2890	a25 1969		390150	J234	23-Jun-1992	1969	9 Bul	hr B 788066	4	01		
2533 000468902	Taylor, Frank H. (Frank Ham	n "A stately pictures	sque dre B'	JUHR F	INE	NC 975.5 .T39	9 A25 198	84 0	nc"975.5	t39 a25 1984		390150	J156	18-Apr-1991	1984	4 Bul	hr B 1846872	0	02		
	Tamm, Jaan.	Restorations in old			GRAD	NA109.R9 T15	.53 1985	0	na"109 r	9 t153 1985		390150	0509	06-Oct-2001	1985	5 Bul	hr A 1012648	3	01		
2535 000468994	Novotny, Fritz, 1903-1993.	Anton Romako.	B'	BUHR FII	INE	ND 1946 .R76	j N94	0	nd#1946 i	r76 n94		390150	0170	16-Jul-1991	195f	6 Bul	hr C 685072	0	03		
12536 000469101	Hachette, André	Collection André H	Hachette B'	JUHR G'	GRAD	ND2898.P3 H1	112	0	nd#2898	p3 h12		390150	0132	25-Sep-1989	195?	3 Bul	hr B 918193	0	01		
12537 000469101	Hachette, André	Collection André H	Hachette B'	3UHR F	INE	ND2898.P3 H2	112		nd#2898	•		390150	0170	22-Jul-1991		3 Bul	hr C 591138	0	03		
	Rugendas, Johann Moritz, 1				INE	ND588 .R93 A				93 a25 1984		390150		31-May-1991			hr A 1196221	0	02	2	
2539 000469272	Bibliothèque nationale (Fra		_		GRAD	ND 2893 .P23			nd#2893			390150		18-Oct-1989			hr B 1357855	1	01	1	
12540 000469272	Bibliothèque nationale (Fra	-			GRAD	ND 2893 .P23			nd#2893	•		390150		23-Jun-1992			hr A 777839	0	01	1	
12541 000469371	Victoria and Albert Museur				GRAD	ND2897.V65			nd#2897			390150	0393	13-Jul-1990			hr A 449271	5	01		
12542 000469376		Russische Kunst de	-		INE	N 6988 .R978			n#6988 r9			390150		13-Sep-1990			hr B 1853313	0	01		
	Kitzel, Herbert, 1928-	Herbert Kitzel, Ger			INE	N 6888 .K586				k586 a25 1982		390150		16-Aug-1990			hr C 687111	0	01	1	
	Berkovits, Ilona.	Illuminated manus			GRAD	ND2920 .B53			nd#2920 l			390150		24-Sep-1989			hr C 463175	3	01		
	Schmidt, Gerhard, 1924-201				GRAD	ND3145.S23 S			nd#3145			390150		05-Jul-1994			hr C 463170	0	01		
	Durrieu, Paul, comte, 1855-				GRAD	ND3147 .D97			nd#3147			390150		13-Jul-1990			hr C 344950	5	01		
	Boeckler, Albert, 1892-	Deutsche Buchmal			GRAD	ND3151 .B66			nd#3151			390150		06-Jul-1994			hr B 918139	0	01		
12548 000469505	5022	L'Abbaye de Saint-			RAD	NA5551.V66 A			na#5551 \			390150		12-Oct-2001			hr C 583813	0	01		
12549 000469509	Weitzmann, Kurt, 1904-199				GRAD	ND3157.A9 W			nd#3157			390150		24-Sep-1989			hr B 1358875	0	01		
12550 000469509	Weitzmann, Kurt, 1904-199				GRAD	ND3157.A9 W			nd#3157			390150		06-Mar-1996			hr B 1043985	0	01		
	Ciavarella, Angelo.	Rassegna di corali i			INE	ND 3159 .C57			nd#3159			390150		19-Dec-1991			hr B 1849614	0	01		
	MacGibbon, David.	Jean Bourdichon, a			INE	ND 1337 .F728				7 f72b7 m14		390150		12-Jul-1991			hr B 1411324	0	03		
	Istituto di storia dell'arte (F				INE	ND3247 .F67			nd#32471			390150		23-Jul-1991			hr A 1197051	0	02		
	Brounts, Albert.	Noordnederlandse			GRAD	ND3167 .B87			nd#3167			390150		06-Jul-1994			hr B 918119	0	01		
	Fischer, Josef Ludwig, 1879				GRAD	N6886.U5 F51				u5 f51 1912		390150		19-Jun-1994			hr A 907200	0	01		
	Lancaster, Osbert, 1908-198				AAEL	NA961 .L235 1			na"961 I2			390150		24-Sep-1989			hr B 1393564	5	02		
	Phiphitthaphanthasathan h				GRAD	N7321 .P36			n#7321 p3			390150		24-Sep-1989			hr A 1013544	0	01		
-	Pod"iapol'skiĭ, Sergeĭ Serge	•			GRAD	N 6995 .A68 P	P74		n#6995 a6			390150		04-Jan-1995			hr A 9233991	1	01		
	Starikova, Valentina Gavrilo		_		GRAD	N6995.A47 S7			n#6995 a4	•		390150		18-Jun-1992			hr A 777299	0	01		
_	Petrov, V. N. (Vsevolod Nik				GRAD	N6988.5.M55				5 m55 p52		390150		24-Sep-1989			hr C 462622	3	01		
	Květ, Jan.	Italské vlivy na poz			GRAD	ND3144.B6 K9			nd#3144 l	•		390150		06-Jul-1994			hr B 918134	0	01		
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Facet / Filter Undo / Redo 2

Using facets and filters

Use facets and filters to select subsets of your data to act on. Choose facet and filter methods from the menus at the top of each data column.

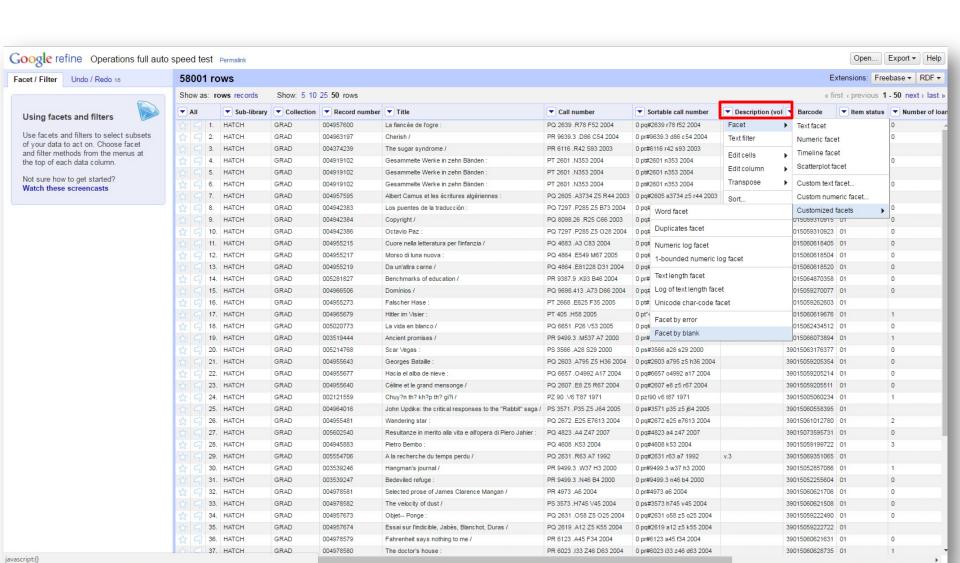
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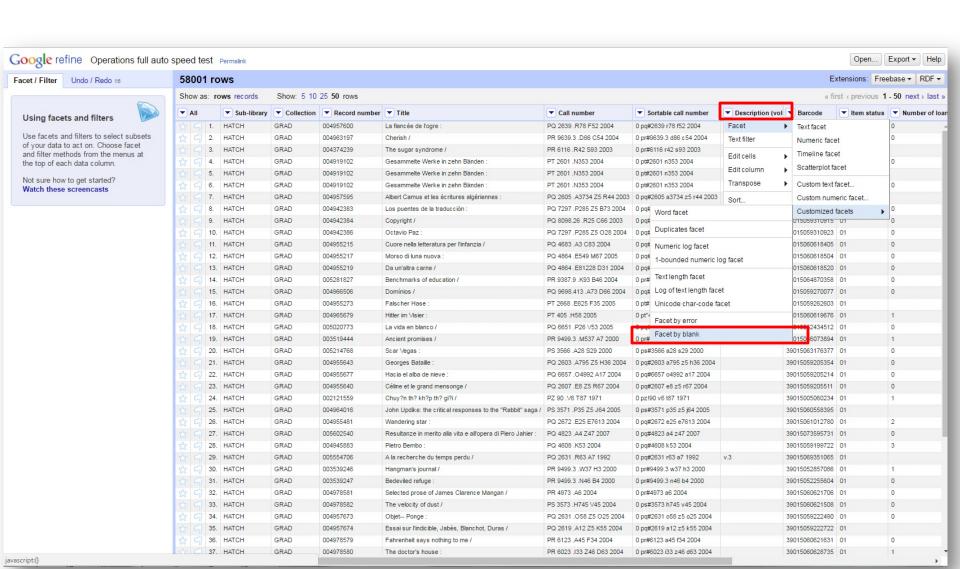
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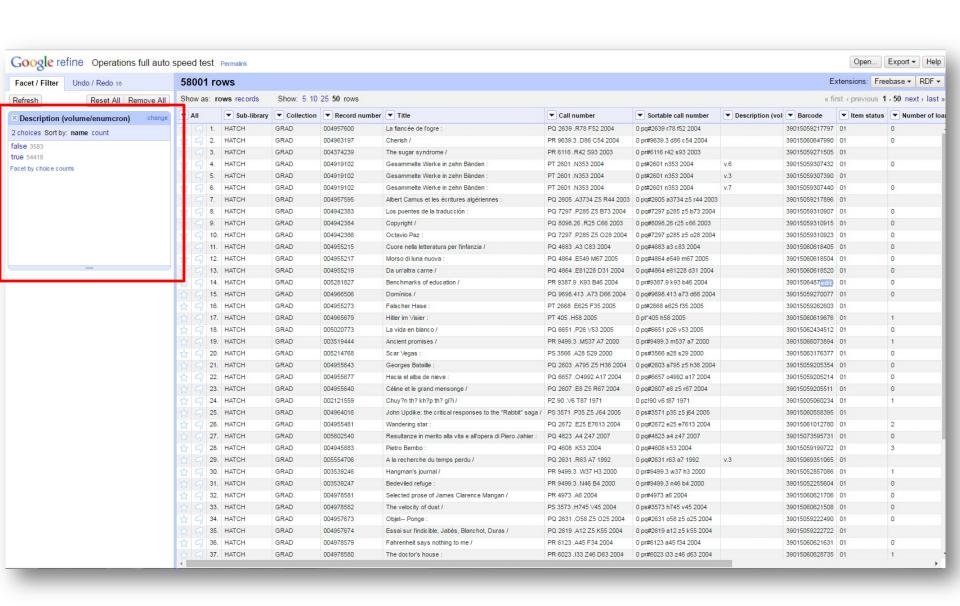
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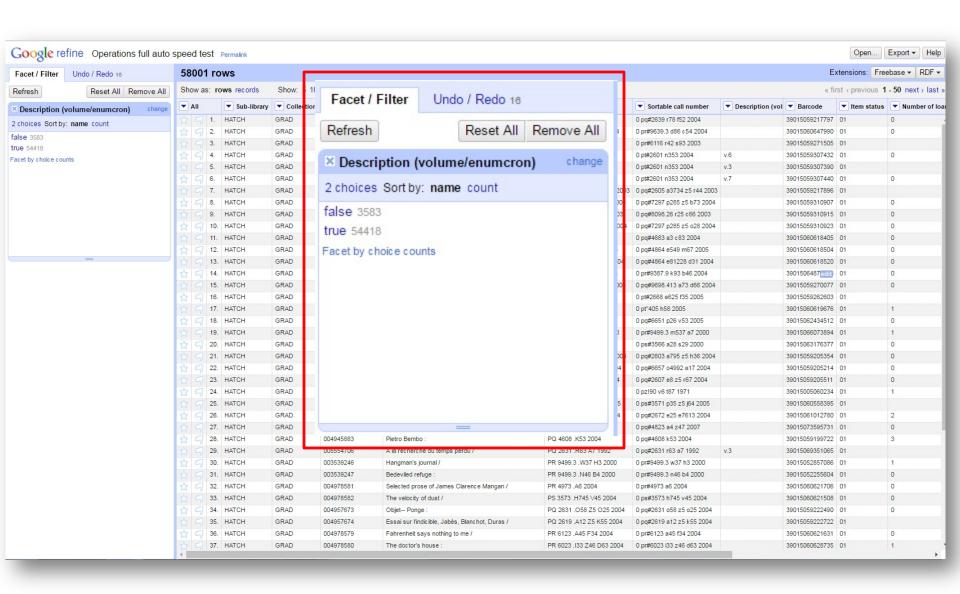
Extensions: Freebase ▼ RDF ▼ « first ¿ previous 1 - 50 next » last »

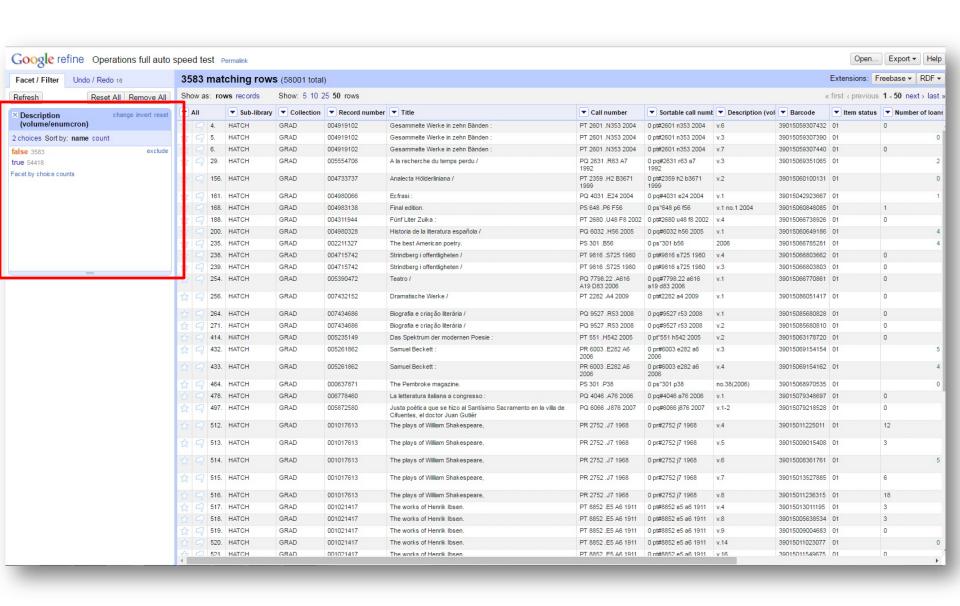
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		1.	HATCH	GRAD	004957600	La fiancée de l'ogre :	PQ 2639 .R78 F52 2004	0 pq#2639 r78 f52 2004		39015059217797	01	0	21 🗚
		2.	HATCH	GRAD	004963197	Cherish /	PR 9639.3 .D86 C54 2004	0 pr#9639.3 d86 c54 2004		39015060647990	01	0	21
		3.	HATCH	GRAD	011717137	Le dernier amour d'Arsène Lupin :	PQ 2623 .E145 D47 2012	0 pq#2623 e145 d47 2012		39015091350267	01	0	21
		4.	HATCH	GRAD	011717144	L'âme du monde /	PQ 2672 .E5642 A67 2012	0 pq#2672 e5642 a67 2012		39015091350275	01	0	21
		5.	HATCH	GRAD	011717152	Henri Meschonnic dans tous ses états :	PQ 2673 .E712 Z73 2012	0 pq#2673 e712 z73 2012		39015091350317	01	0	21
		6.	HATCH	GRAD	011660612	Melyador :	PQ 1461 .F8 M34 2012	0 pq#1461 f8 m34 2012	v.2	39015091204837	01	0	21
		7.	HATCH	GRAD	004374239	The sugar syndrome /	PR 6116 .R42 S93 2003	0 pr#6116 r42 s93 2003		39015059271505	01	0	21
		8.	HATCH	GRAD	004919102	Gesammelte Werke in zehn Bänden :	PT 2601 .N353 2004	0 pt#2601 n353 2004	v.6	39015059307432	01	0	21
		9.	HATCH	GRAD	011660767	Vivir sin los otros :	PQ 8180.417 .O593 V58 2010	0 pq#8180.417 o593 v58 2010		39015091345853	01	0	21
		10.	HATCH	GRAD	012234286	Voices in the wind :	PR 9402.5 .V65 2010	0 pr#9402.5 v65 2010		39015092024176	01	0	21
		11.	HATCH	GRAD	004919102	Gesammelte Werke in zehn Bänden :	PT 2601 .N353 2004	0 pt#2601 n353 2004	v.3	39015059307390	01	0	21
		12.	HATCH	GRAD	004919102	Gesammelte Werke in zehn Bänden :	PT 2601 .N353 2004	0 pt#2601 n353 2004	v.7	39015059307440	01	0	21
		13.	HATCH	GRAD	004957595	Albert Camus et les écritures algériennes :	PQ 2605 .A3734 Z5 R44 2003	0 pq#2605 a3734 z5 r44 2003		39015059217896	01	3	21
		14.	HATCH	GRAD	004942383	Los puentes de la traducción :	PQ 7297 .P285 Z5 B73 edit 2004	0 pq#7297 p285 z5 b73 2004		39015059310907	01	0	21
		15.	HATCH	GRAD	004942384	Copyright /	PQ 8098.26 .R25 C66 2003	0 pq#8098.26 r25 c66 2003		39015059310915	01	0	21
		16.	HATCH	GRAD	004942386	Octavio Paz :	PQ 7297 .P285 Z5 O28 2004	0 pq#7297 p285 z5 o28 2004		39015059310923	01	0	21
		17.	HATCH	GRAD	012228383	Reflections & retrospectives /	PR 9344 .R44 2012	0 pr#9344 r44 2012		39015091965817	01	1	21
		18.	HATCH	GRAD	012229441	L'ombre de mémoire /	PQ 2605 .O33 O43 1990	0 pq#2605 o33 o43 1990		39015091372972	01	0	1!
		19.	HATCH	GRAD	004955215	Cuore nella letteratura per l'infanzia /	PQ 4683 .A3 C83 2004	0 pq#4683 a3 c83 2004		39015060618405	01	0	21
		20.	HATCH	GRAD	004955217	Morso di luna nuova :	PQ 4864 .E549 M67 2005	0 pq#4864 e549 m67 2005		39015060618504	01	0	21
		21.	HATCH	GRAD	004955219	Da un'altra carne /	PQ 4864 .E81228 D31 2004	0 pq#4864 e81228 d31 2004		39015060618520	01	0	21
		22.	HATCH	GRAD	012231343	Pour l'histoire du "Thésée" d'André Gide :	PQ 2613 .I2 T52 2012	0 pq#2613 i2 t52 2012		39015091930571	01	0	21
		23.	HATCH	GRAD	005281827	Benchmarks of education /	PR 9387.9 .K93 B46 2004	0 pr#9387.9 k93 b46 2004		39015064870358	01	0	21
		24.	HATCH	GRAD	004966506	Domínios /	PQ 9698.413 .A73 D66 2004	0 pq#9698.413 a73 d66 2004		39015059270077	01	0	21
		25.	HATCH	GRAD	004955273	Falscher Hase :	PT 2668 .E625 F35 2005	0 pt#2668 e625 f35 2005		39015059262603	01	1	21
		26.	HATCH	GRAD	000677633	Poetry.	PS 301 .P74	0 ps"301 p74	v.200:no.1-2,4(2012:Apr Aug.)	39015091146822	01	0	1!
		27.	HATCH	GRAD	012230958	Black box played /	PR 9381.9 .O2 B53 2010	0 pr#9381.9 o2 b53 2010		39015091978612	01	0	21
		28.	HATCH	GRAD	004965679	Hitler im ∀isier :	PT 405 .H58 2005	0 pt"405 h58 2005		39015060619676	01	1	21
		29.	HATCH	GRAD	005020773	La vida en blanco /	PQ 6651 .P26 V53 2005	0 pq#6651 p26 v53 2005		39015062434512	01	0	21
		30.	HATCH	GRAD	011688259	Goodbye, Flicker:	PS 3607 .145215 M36 2012	0 ps#3607 i45215 m36 2012		39015088282234	01	1	21
		31.	HATCH	GRAD	012234274	Africa's new brood :	PR 9402.9 .W364 A69 2006	0 pr#9402.9 w364 a69 2006		39015092023871	01	0	21
		32.	HATCH	GRAD	003519444	Ancient promises /	PR 9499.3 .M537 A7 2000	0 pr#9499.3 m537 a7 2000		39015066073894	01	1	21
		33.	HATCH	GRAD	012238561	Never too late /	PR 9402.8 .N48 2010	0 pr#9402.8 n48 2010		39015092023632	01	0	21
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Using facets and filters

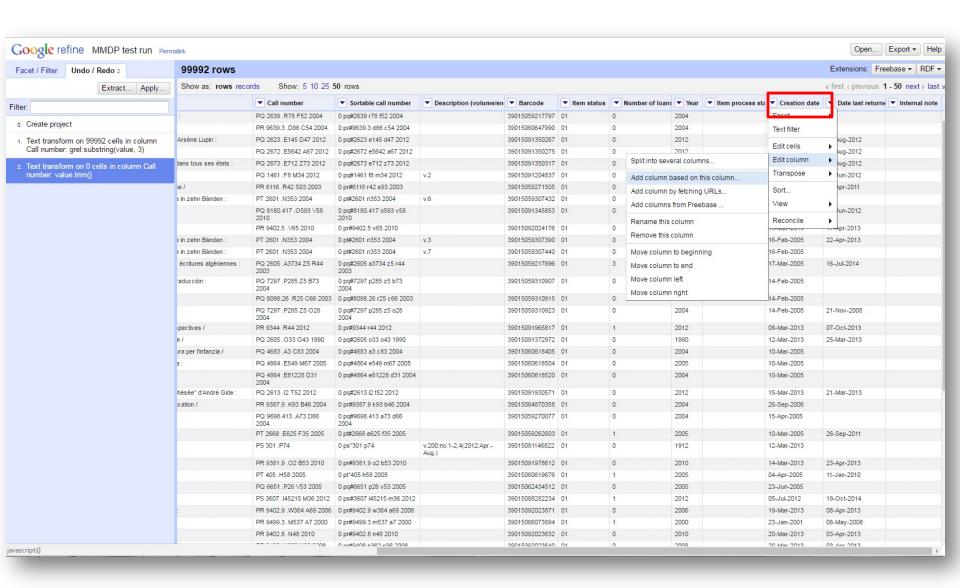
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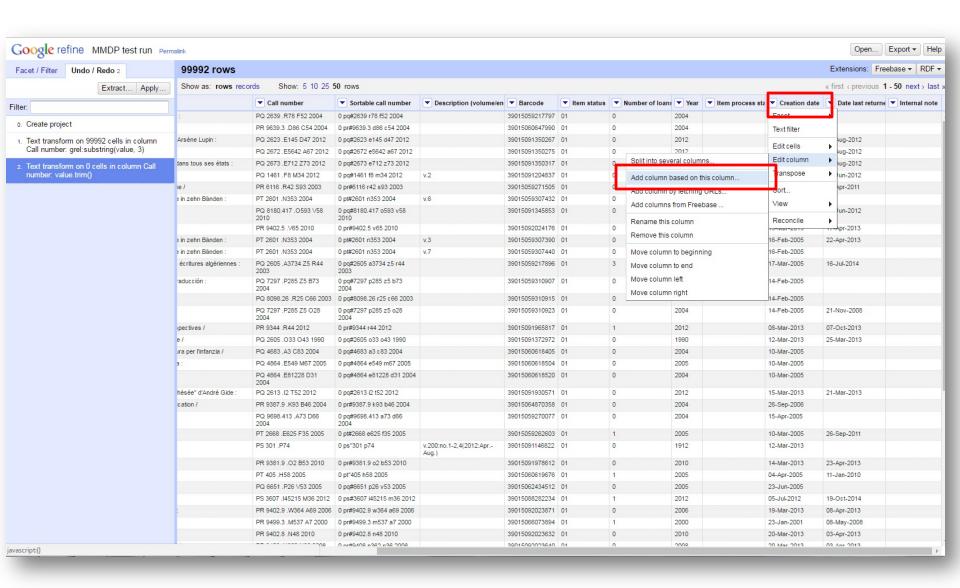
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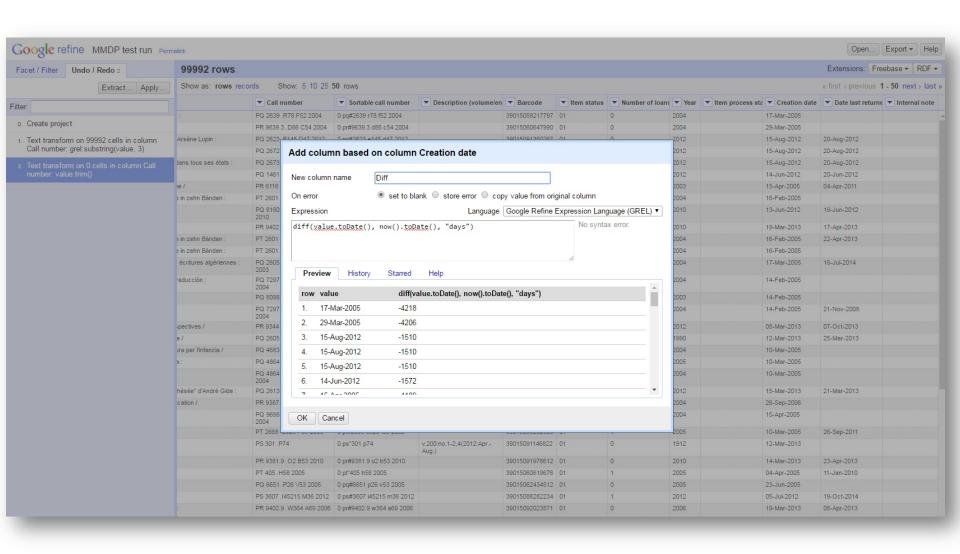
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k box played /	PR 9381.9 .O2 B53 2010	0 pr#9381.9 o2 b53 2010		39015091978612	01	0	2010		14-Mar-2013	23-Apr-2013
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ida en blanco /	PQ 6651 .P26 V53 2005	0 pq#6651 p26 v53 2005		39015062434512	01	0	2005		23-Jun-2005	
dbye, Flicker:	PS 3607 .145215 M36 2012	0 ps#3607 i45215 m36 2012		39015088282234	01	1	2012		05-Jul-2012	19-Oct-2014
a's new brood :	PR 9402.9 .W364 A69 2006	0 pr#9402.9 w364 a69 2006		39015092023871	01	0	2006		19-Mar-2013	08-Apr-2013
ient promises /	PR 9499.3 .M537 A7 2000	0 pr#9499.3 m537 a7 2000		39015066073894	01	1	2000		23-Jan-2001	08-May-2008
er too late /	PR 9402.8 .N48 2010	0 pr#9402.8 n48 2010		39015092023632	01	0	2010		20-Mar-2013	03-Apr-2013
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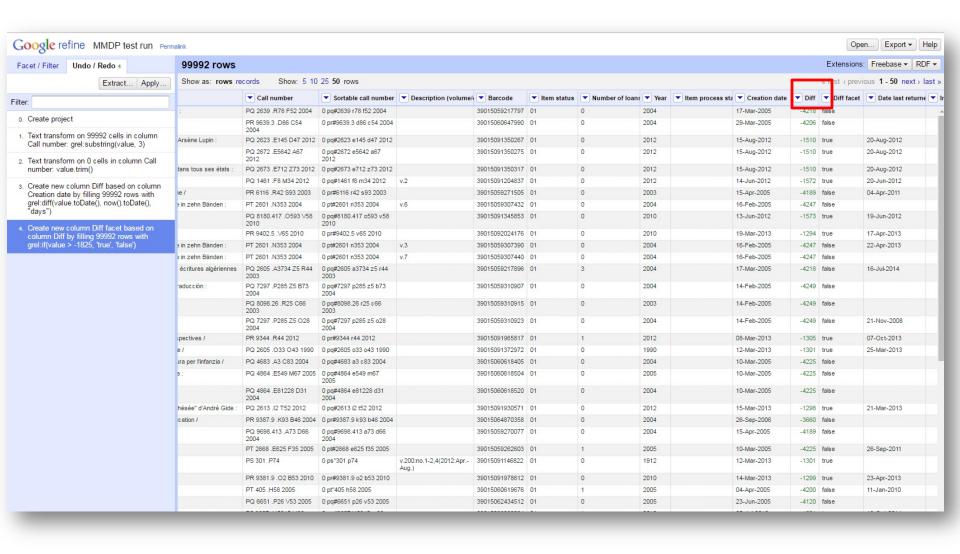


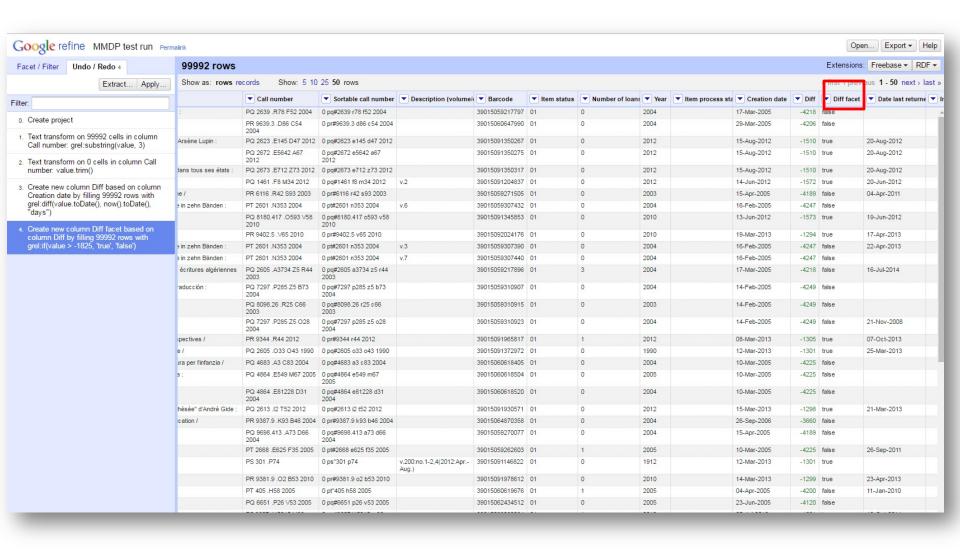
Add column based on column Creation date

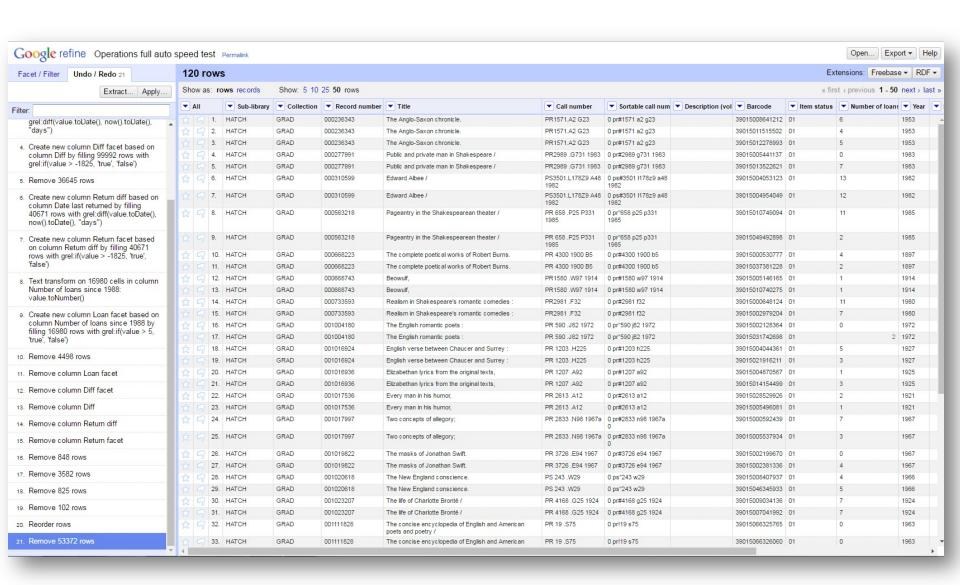
New column name	Diff	
On error	set to blank ○ store error ○ copy value	e from original column
Expression	Language Google	e Refine Expression Language (GREL) 🔻
diff(value.toDate	(), now().toDate(), "days")	No syntax error.

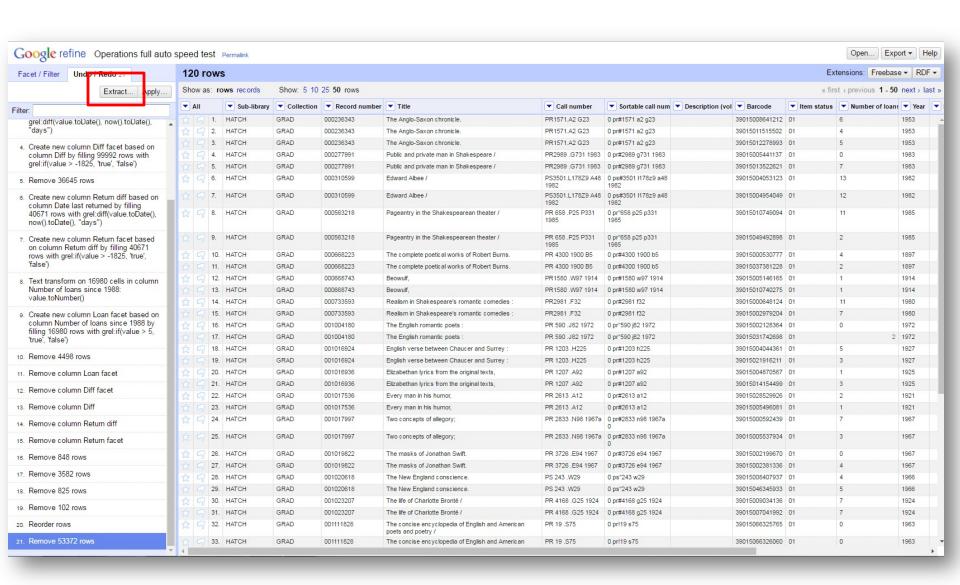
row	value	diff(value.toDate(), now().toDate(), "days")	
1.	17-Mar-2005	-4218	
2.	29-Mar-2005	-4206	
3.	15-Aug-2012	-1510	
4.	15-Aug-2012	-1510	
5.	15-Aug-2012	-1510	
6.	14-Jun-2012	-1572	
7	4F A 200F	4400	

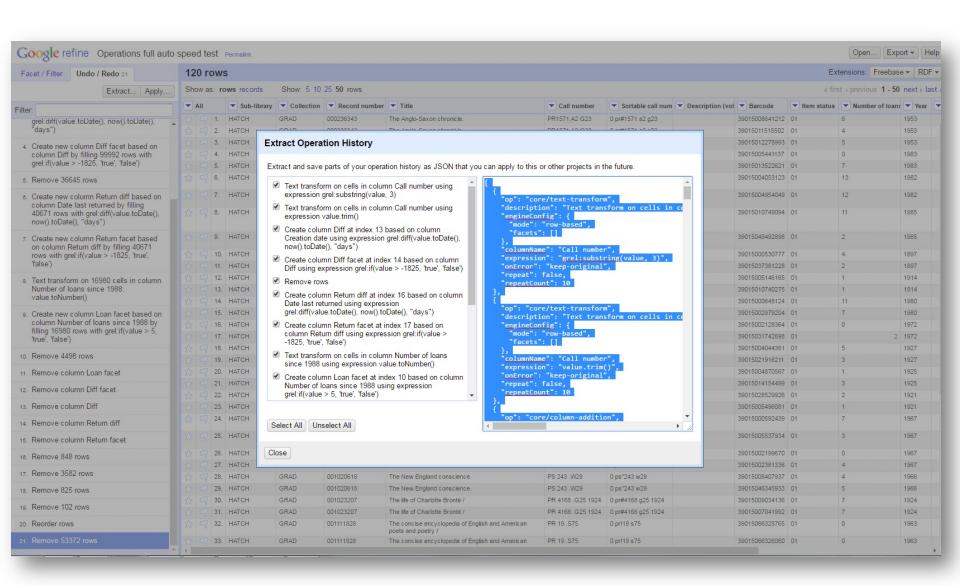
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Y	All		▼ Sub-library	Collection	Record number	▼ Title	▼ Call number	▼ Sortable call number	▼ Description (volume/en	▼ Barcode	▼ Item status	▼ Number of loans
		1.	HATCH	GRAD	004957600	La fiancée de l'ogre :	\$\$hPQ 2639 .R78 F52 2004	0 pq#2639 r78 f52 2004		39015059217797	01	0
		2.	HATCH	GRAD	004963197	Cherish /	\$\$hPR 9639.3 .D86 C54 2004	0 pr#9639.3 d86 c54 2004		39015060647990	01	0
		3.	HATCH	GRAD	011717137	Le dernier amour d'Arsène Lupin :	\$\$hPQ 2623 .E145 D47 2012	0 pq#2623 e145 d47 2012		39015091350267	01	0
		4.	HATCH	GRAD	011717144	L'âme du monde /	\$\$hPQ 2672 .E5642 A67 2012	0 pq#2672 e5642 a67 2012		39015091350275	01	0
		5.	HATCH	GRAD	011717152	Henri Meschonnic dans tous ses états :	\$\$hPQ 2673 .E712 Z73 2012	0 pq#2673 e712 z73 2012		39015091350317	01	0
		6.	HATCH	GRAD	011660612	Melyador :	\$\$hPQ 1461 .F8 M34 2012	0 pq#1461 f8 m34 2012	v.2	39015091204837	01	0
		7.	HATCH	GRAD	004374239	The sugar syndrome /	\$\$hPR 6116 .R42 S93 2003	0 pr#6116 r42 s93 2003		39015059271505	01	0
		8.	HATCH	GRAD	004919102	Gesammelte Werke in zehn Bänden :	\$\$hPT 2601 .N353 2004	0 pt#2601 n353 2004	v.6	39015059307432	01	0
		9.	HATCH	GRAD	011660767	Vivir sin los otros :	\$\$hPQ 8180.417 .0593 \/58 2010	0 pq#8180.417 o593 v58 2010		39015091345853	01	0
		10	HATCH	GRAD	012234286	Voices in the wind :	\$\$hPR 9402.5 .V65 2010	0 pr#9402.5 v65 2010		39015092024176	01	0
		11.	HATCH	GRAD	004919102	Gesammelte Werke in zehn Bänden :	\$\$hPT 2601 .N353 2004	0 pt#2601 n353 2004	v.3	39015059307390	01	0
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		13	HATCH	GRAD	004957595	Albert Camus et les écritures algériennes :	\$\$hPQ 2605 .A3734 Z5 R44 2003	0 pq#2605 a3734 z5 r44 2003		39015059217896	01	3
		14	HATCH	GRAD	004942383	Los puentes de la traducción :	\$\$hPQ 7297 .P285 Z5 B73 2004	0 pq#7297 p285 z5 b73 2004		39015059310907	01	0
		15	HATCH	GRAD	004942384	Copyright /	\$\$hPQ 8098.26 .R25 C66 2003	0 pq#8098.26 r25 c66 2003		39015059310915	01	0
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		21	HATCH	GRAD	004955219	Da un'altra carne /	\$\$hPQ 4864 .E81228 D31 2004	0 pq#4864 e81228 d31 2004		39015060618520	01	0
		22	HATCH	GRAD	012231343	Pour l'histoire du "Thésée" d'André Gide :	\$\$hPQ 2613 .I2 T52 2012	0 pq#2613 i2 t52 2012		39015091930571	01	0
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		26	HATCH	GRAD	000677633	Poetry.	\$\$hPS 301 .P74	0 ps"301 p74	v.200:no.1-2,4(2012:Apr Aug.)	39015091146822	01	0
		27	HATCH	GRAD	012230958	Black box played /	\$\$hPR 9381.9 .O2 B53 2010	0 pr#9381.9 o2 b53 2010		39015091978612	01	0
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		29	HATCH	GRAD	005020773	La vida en blanco /	\$\$hPQ 6651 .P26 V53 2005	0 pq#6651 p26 v53 2005		39015062434512	01	0
		30	HATCH	GRAD	011688259	Goodbye, Flicker :	\$\$hPS 3607 .145215 M36 2012	0 ps#3607 i45215 m36 2012		39015088282234	01	1
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		32	HATCH	GRAD	003519444	Ancient promises /	\$\$hPR 9499.3 .M537 A7 2000	0 pr#9499.3 m537 a7 2000		39015066073894	01	1



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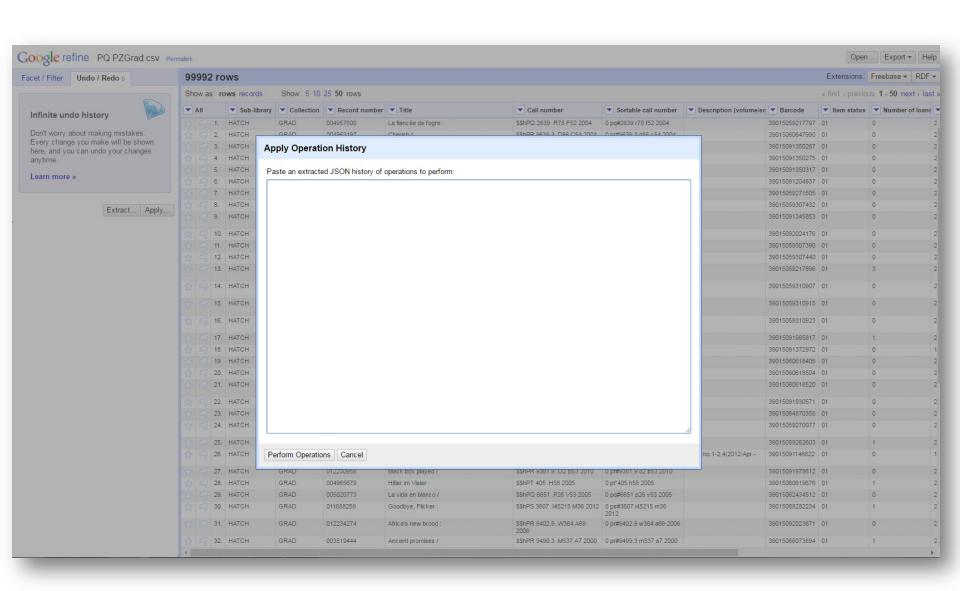
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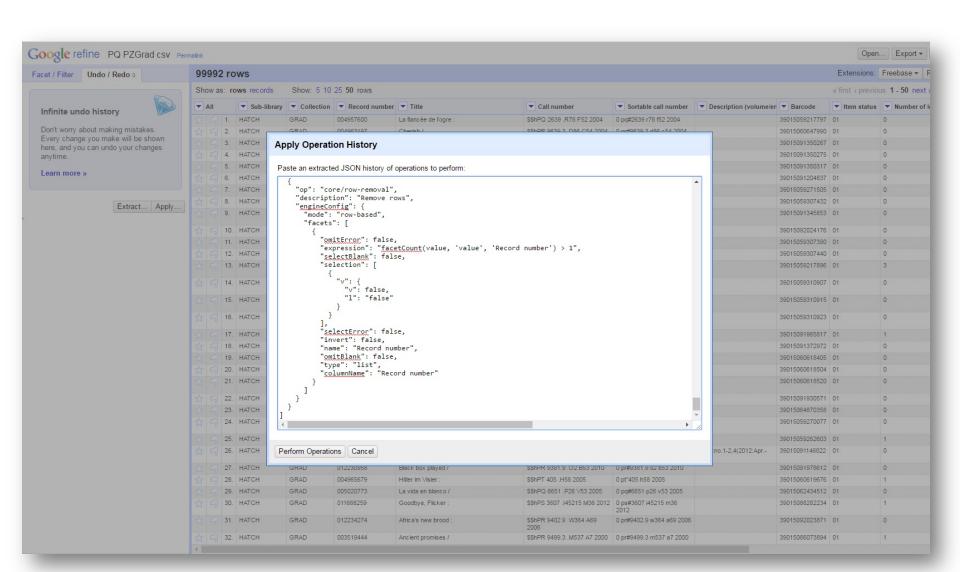
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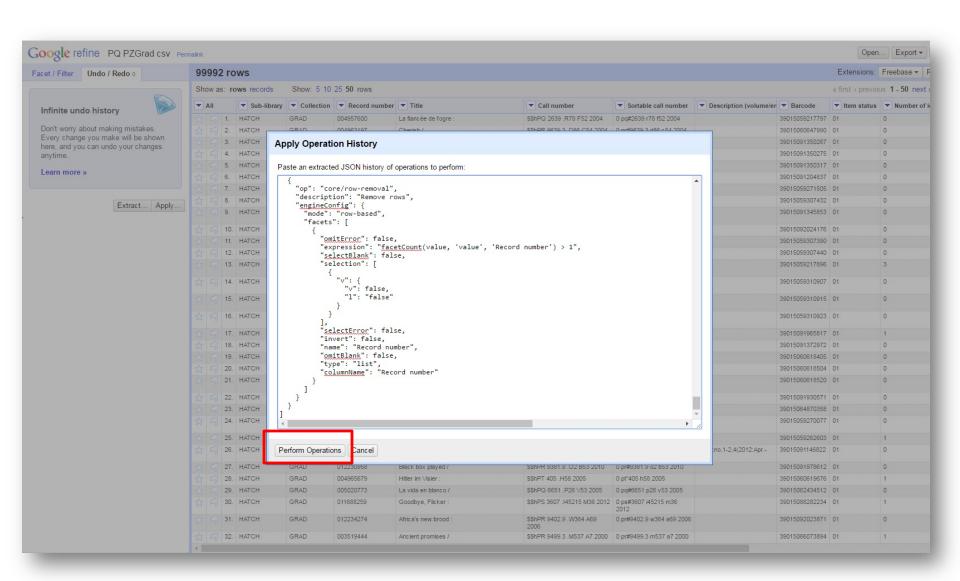
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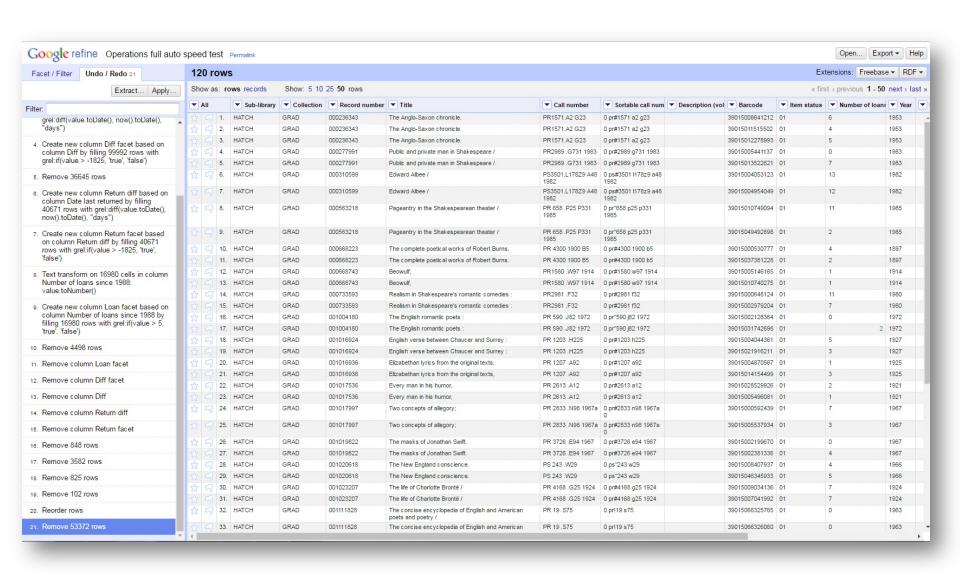
	999	92	ro	ws								Extensions:	Freebase ▼ RDF ▼
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	▼ A	II		Sub-library	▼ Collection	Record number	Title	▼ Call number	Sortable call number	Description (volume/en	▼ Barcode	▼ Item status	▼ Number of loans
			1.	HATCH	GRAD	004957600	La fiancée de l'ogre :	\$\$hPQ 2639 .R78 F52 2004	0 pq#2639 r78 f52 2004		39015059217797	01	0 2
			2.	HATCH	GRAD	004963197	Cherish /	\$\$hPR 9639.3 .D86 C54 2004	0 pr#9639.3 d86 c54 2004		39015060647990	01	0 2
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			4.	HATCH	GRAD	011717144	L'âme du monde /	\$\$hPQ 2672 .E5642 A67 2012	0 pq#2672 e5642 a67 2012		39015091350275	01	0 2
			5.	HATCH	GRAD	011717152	Henri Meschonnic dans tous ses états :	\$\$hPQ 2673 .E712 Z73 2012	0 pq#2673 e712 z73 2012		39015091350317	01	0 2
			6.	HATCH	GRAD	011660612	Melyador :	\$\$hPQ 1461 .F8 M34 2012	0 pq#1461 f8 m34 2012	v.2	39015091204837	01	0 2
			7.	HATCH	GRAD	004374239	The sugar syndrome /	\$\$hPR 6116 .R42 S93 2003	0 pr#6116 r42 s93 2003		39015059271505	01	0 2
- 7			8.	HATCH	GRAD	004919102	Gesammelte Werke in zehn Bänden:	\$\$hPT 2601 .N353 2004	0 pt#2601 n353 2004	v.6	39015059307432	01	0 2
4			9.	HATCH	GRAD	011660767	Vivir sin los otros :	\$\$hPQ 8180.417 .0593 V58 2010	0 pq#8180.417 o593 v58 2010		39015091345853	01	0 2
			10.	HATCH	GRAD	012234286	Voices in the wind :	\$\$hPR 9402.5 .V65 2010	0 pr#9402.5 v65 2010		39015092024176	01	0 2
			11.	HATCH	GRAD	004919102	Gesammelte Werke in zehn Bänden:	\$\$hPT 2601 .N353 2004	0 pt#2601 n353 2004	v.3	39015059307390	01	0 2
			12.	HATCH	GRAD	004919102	Gesammelte Werke in zehn Bänden:	\$\$hPT 2601 .N353 2004	0 pt#2601 n353 2004	v.7	39015059307440	01	0 2
			13.	HATCH	GRAD	004957595	Albert Camus et les écritures algériennes :	\$\$hPQ 2605 .A3734 Z5 R44 2003	0 pq#2605 a3734 z5 r44 2003		39015059217896	01	3 2
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			23.	HATCH	GRAD	005281827	Benchmarks of education /	\$\$hPR 9387.9 .K93 B46 2004	0 pr#9387.9 k93 b46 2004		39015064870358	01	0 2
			24.	HATCH	GRAD	004966506	Domínios /	\$\$hPQ 9698.413 .A73 D66 2004	0 pq#9698.413 a73 d66 2004		39015059270077	01	0 2
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			26.	HATCH	GRAD	000677633	Poetry.	\$\$hPS 301 .P74	0 ps"301 p74	v.200:no.1-2,4(2012:Apr Aug.)	39015091146822	01	0 1
			27.	HATCH	GRAD	012230958	Black box played /	\$\$hPR 9381.9 .O2 B53 2010	0 pr#9381.9 o2 b53 2010		39015091978612	01	0 2
			28.	HATCH	GRAD	004965679	Hitler im ∀isier :	\$\$hPT 405 .H58 2005	0 pt"405 h58 2005		39015060619676	01	1 2
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\$\$hPR 9499.3 .M537 A7 2000 0 pr#9499.3 m537 a7 2000









Outcomes

- Cut processing time by approximately 99.8%.
- Cut weekly staff time on project from 34 hours to 7 hours.
- Processed over 2 million items.
- Withdrawn 9,000 low-use duplicates from our collections.

Questions?

OpenRefine command scripts on Github:

https://github.com/mcarruthers/Operations_dedup

mcarruth@umich.edu @mattadata2