Improve the Batch Cataloging at Your Library: MarcEdit to the Rescue

Ontario Library Association Super Conference 2016
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Image courtesy of Stuart Miles at FreeDigitalPhotos.net

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Agenda

1. About MarcEdit
2. Basic MarcEdit functions
3. Intermediate functions
4. Advanced functions
5. Resources

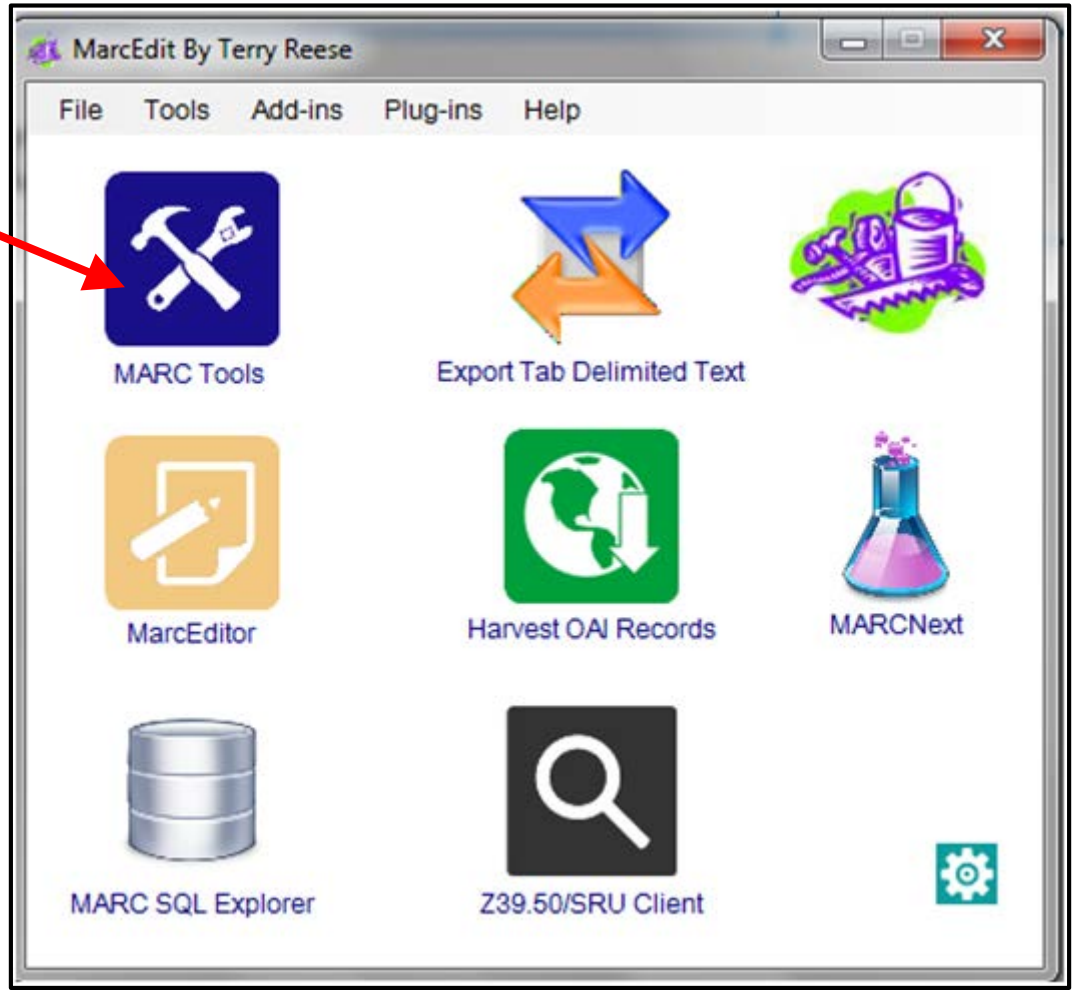
What is MarcEdit?

- developed MarcEdit in 1999 by Terry Reese
- continually updated and expanded
- now version 6.2
- download the latest version at: http://marcedit.reeset.net

Basic MarcEdit Functions

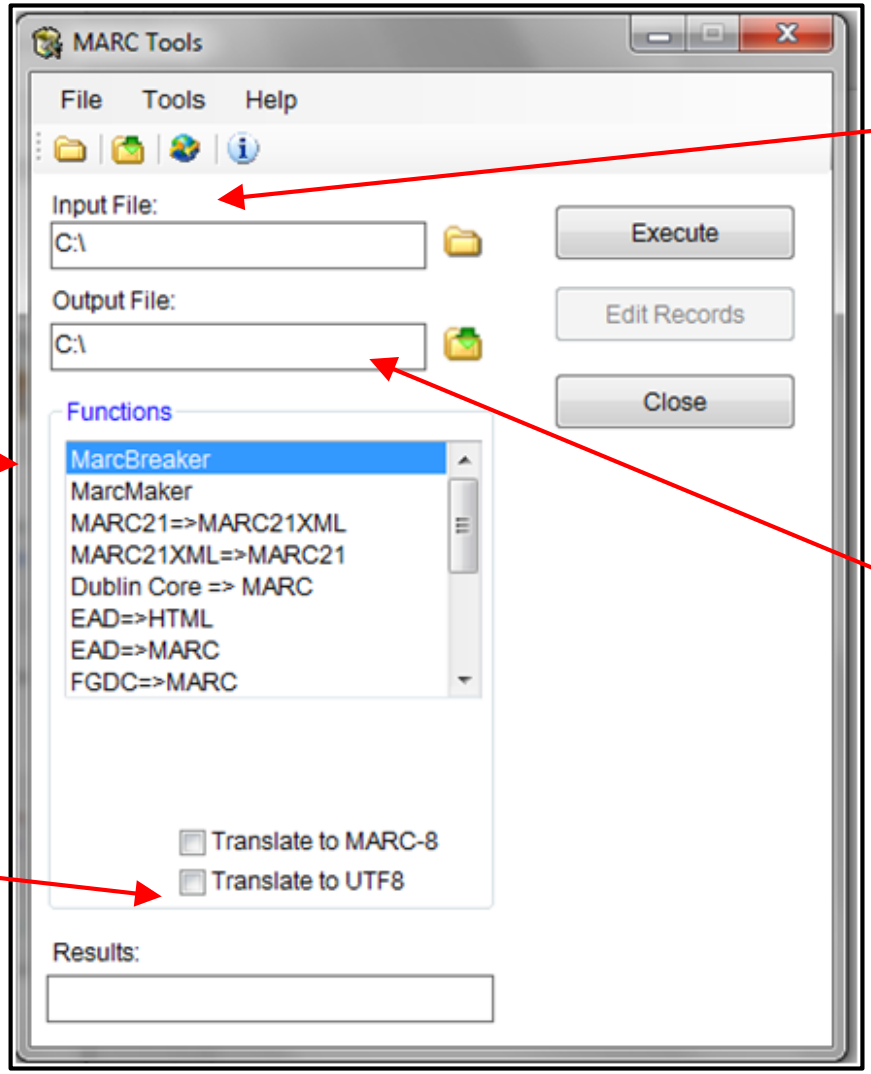
- MarcBreaker
- MarcEditor: deleting and adding fields and subfields
- MarcMaker
- Finding duplicate records
- MarcSplit & MarcJoin
- Marc Validator

Start here!


MarcEdit By Terry Reese
File
Tools
Add-ins
Plug-ins
Help
MARC Tools
Export Tab Delimited Text
MarcEditor
Harvest OAI Records
MARCNext
MARC SQL Explorer
Z39.50/SRU Client

MarcBreaker Function

- converts encoded MARC file into text for editing
- can convert into Unicode (UTF-8) if your system prefers that -- will handle diacritics!
- click for Unicode conversion before selecting files



Input File = encoded MARC file (original)

Function = MarcBreaker

Output File = text version of file (output of breaking process) .mrk or mrk8

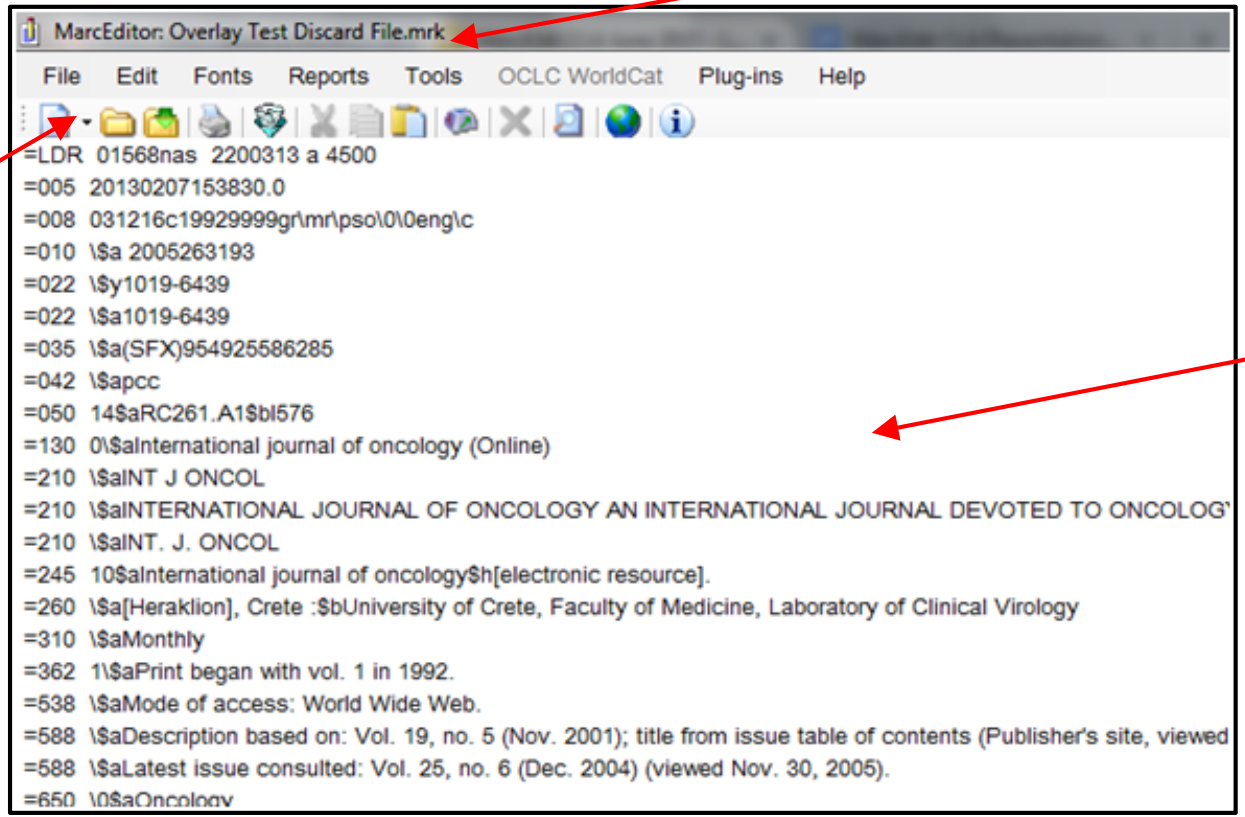
Can convert to Unicode or UTF8

MARC Editor

- core of MarcEdit
- has specialized tools for editing MARC fields as well as general text editing functions
- can add/delete/edit fields and subfields in all records, or with qualifiers to touch only some records

MarcEditor Initial Screen

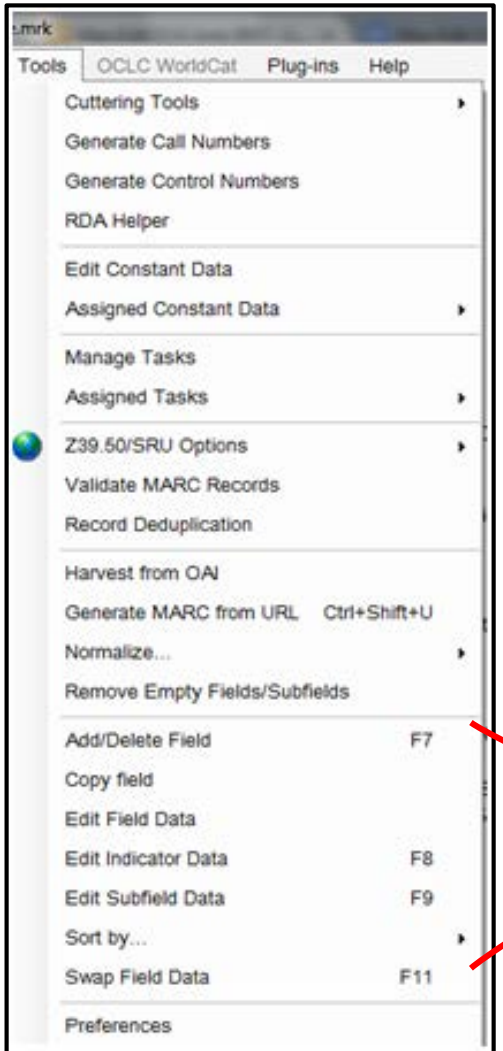
File name

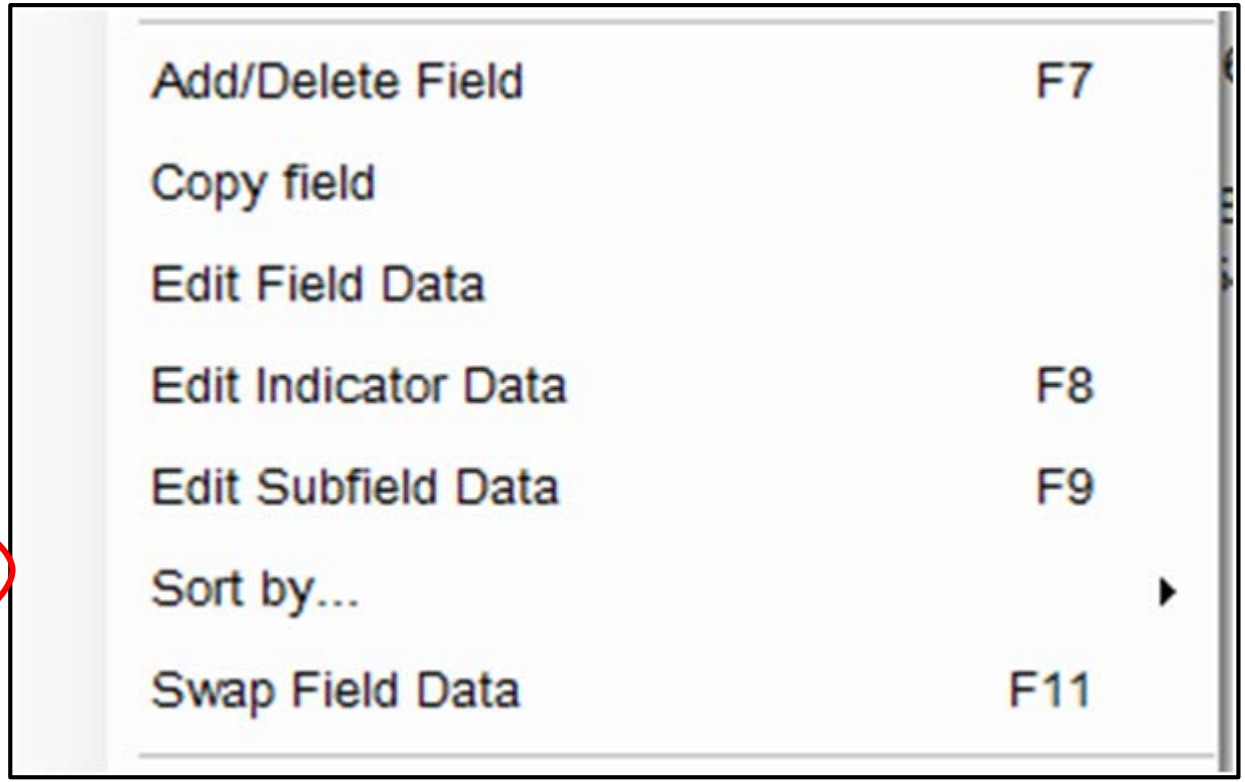


Menu bar and icons

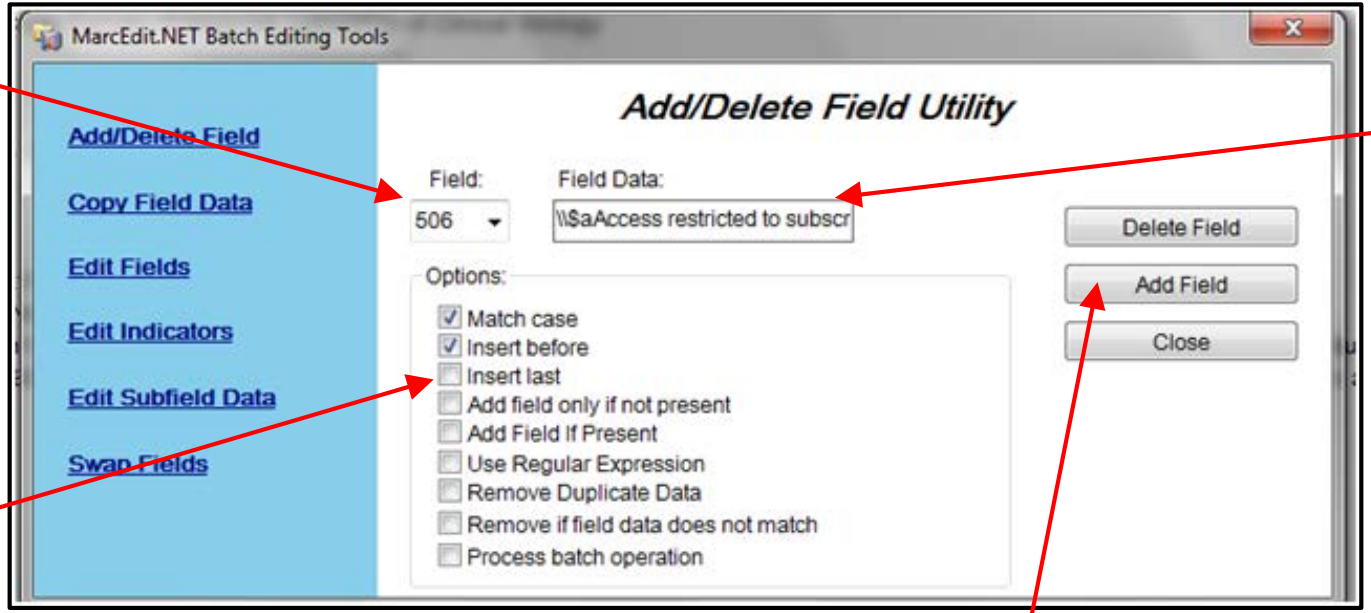
MARC record in text format!

Basic editing functions





Add Field



Drop down list of all MARC fields

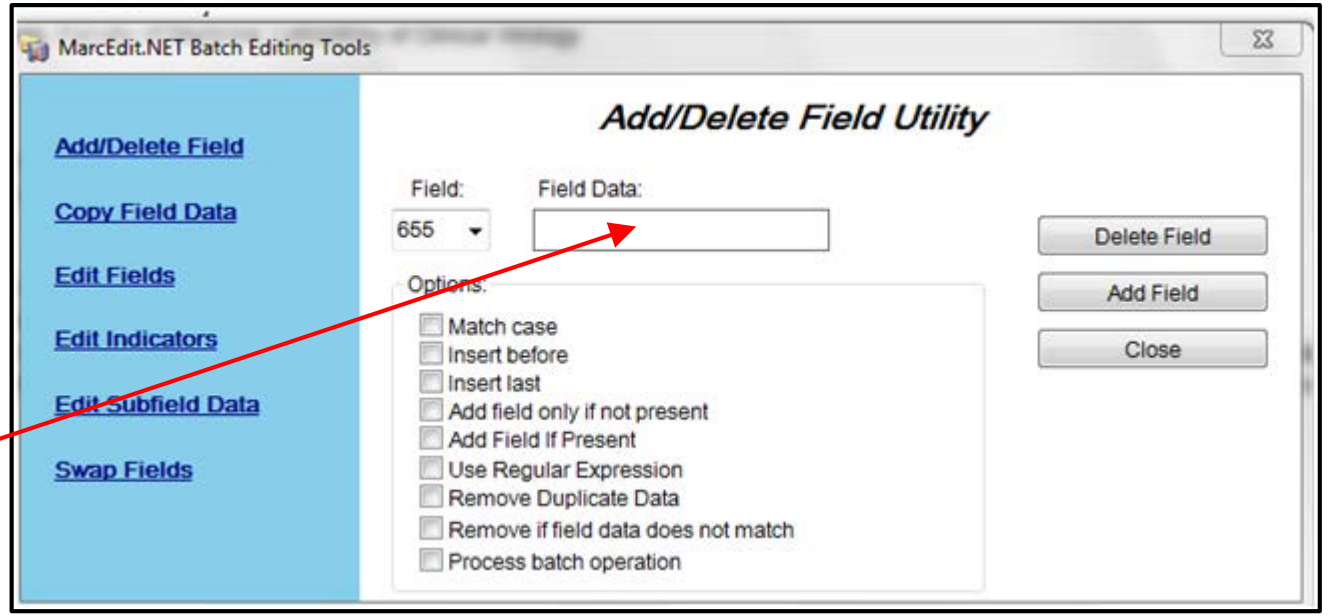
Complete MARC field

Option to add only if not present

Add Field Button

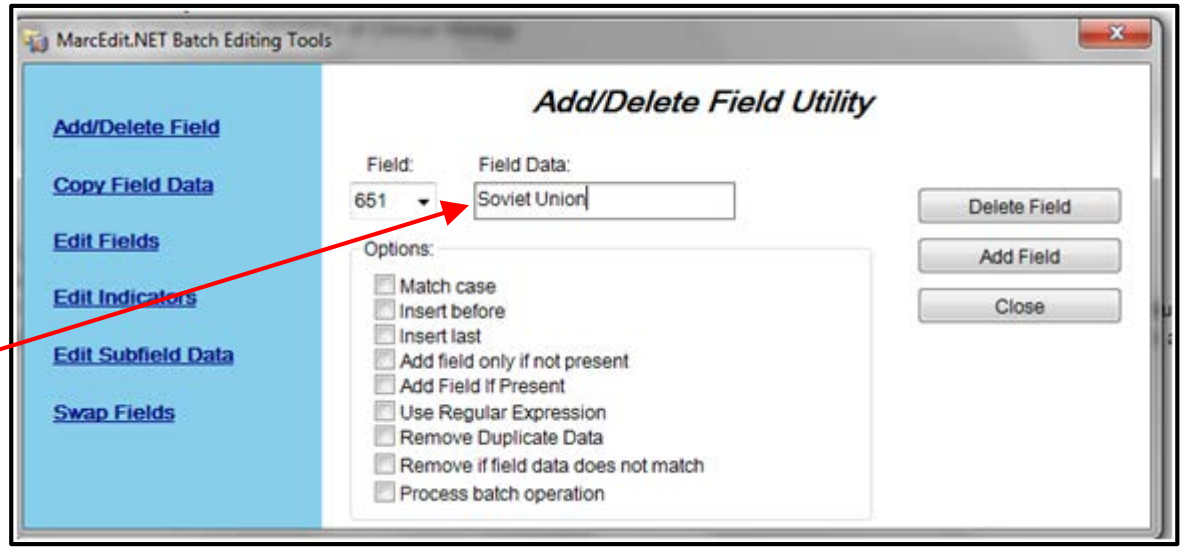
Delete all occurrences of a field:

Blank Field Data box; all 655 fields will be deleted.



Delete only fields with specific data:

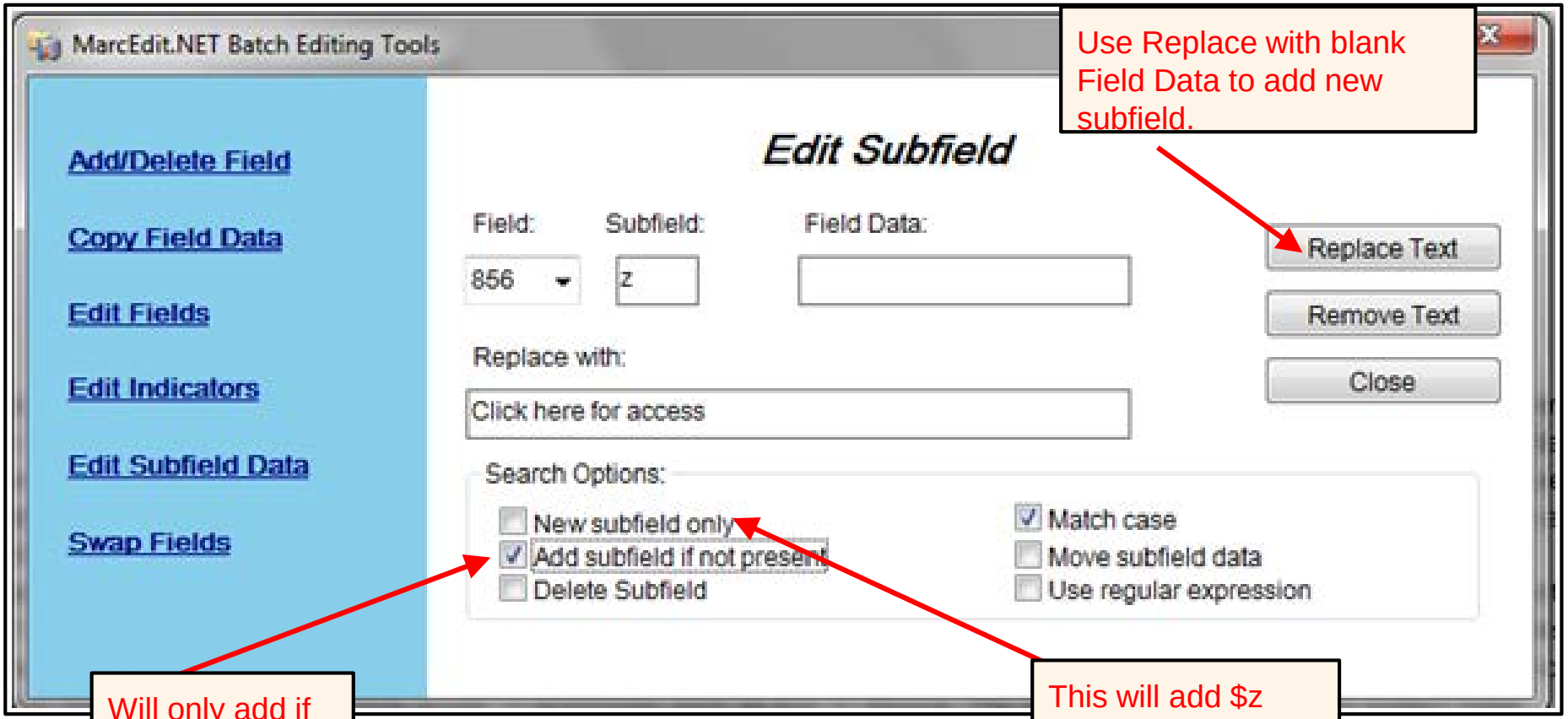
Only 651 fields containing Soviet Union will be deleted.



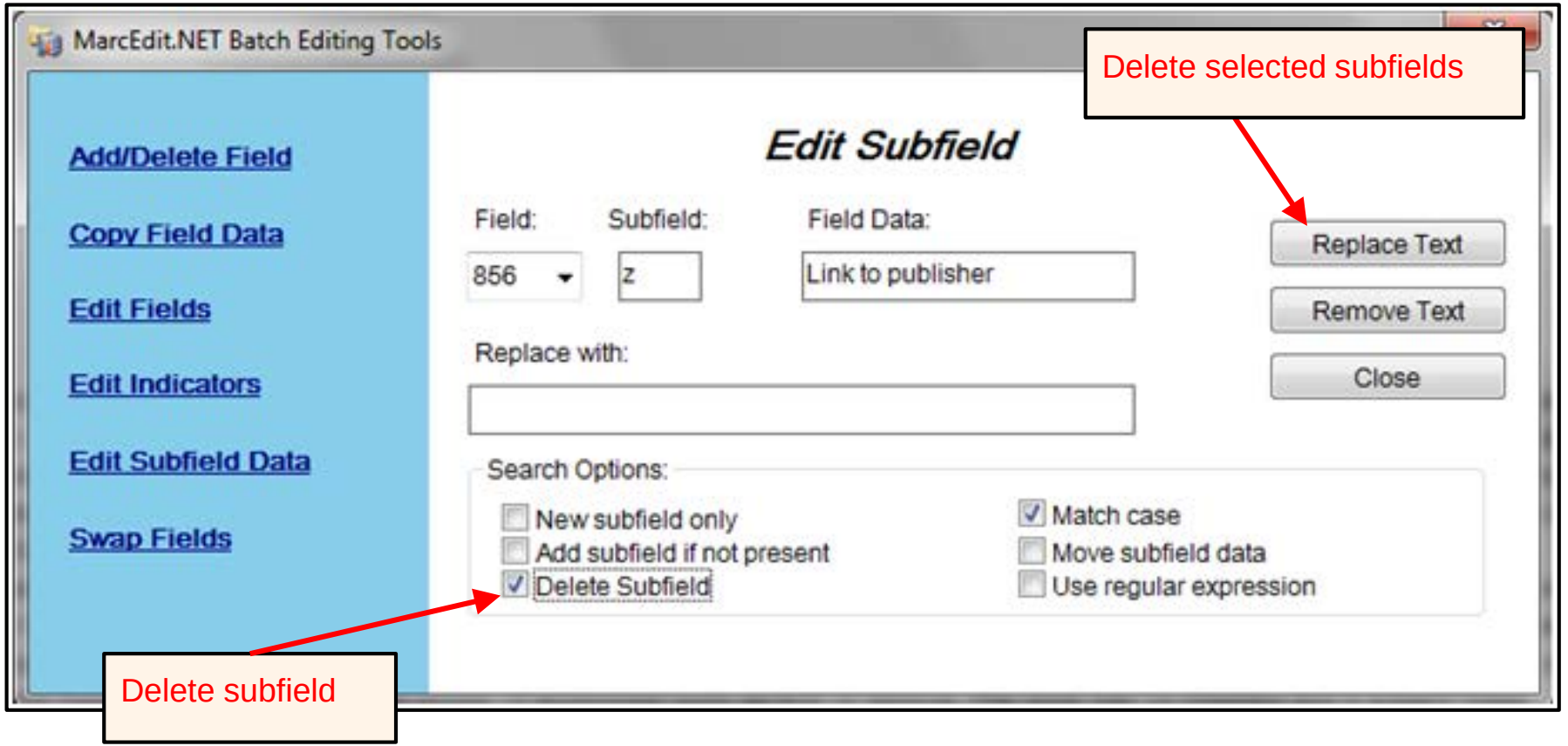
Adding and Editing Subfields

- similar functionality to working with entire fields
- can add only if not present
- can edit subfield containing only specific data

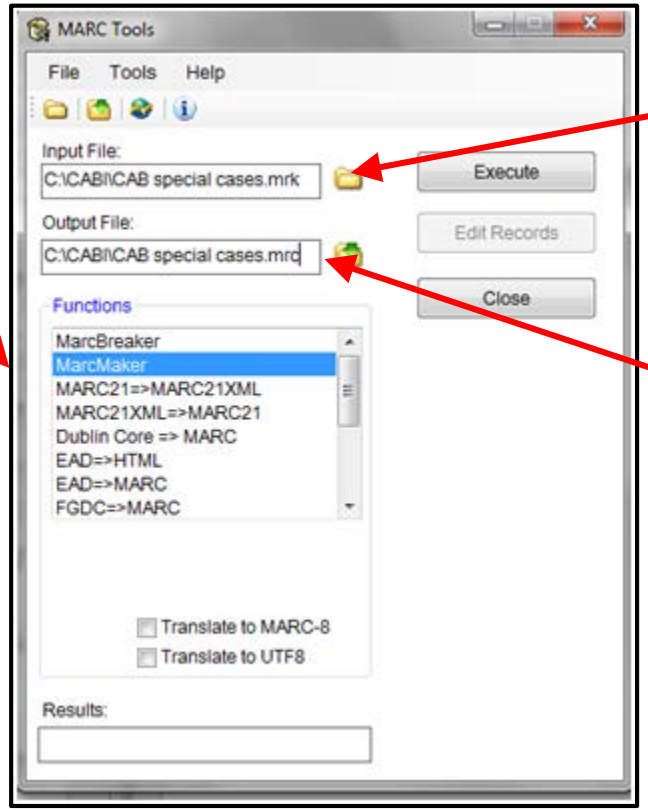
Add subfield



Delete subfield



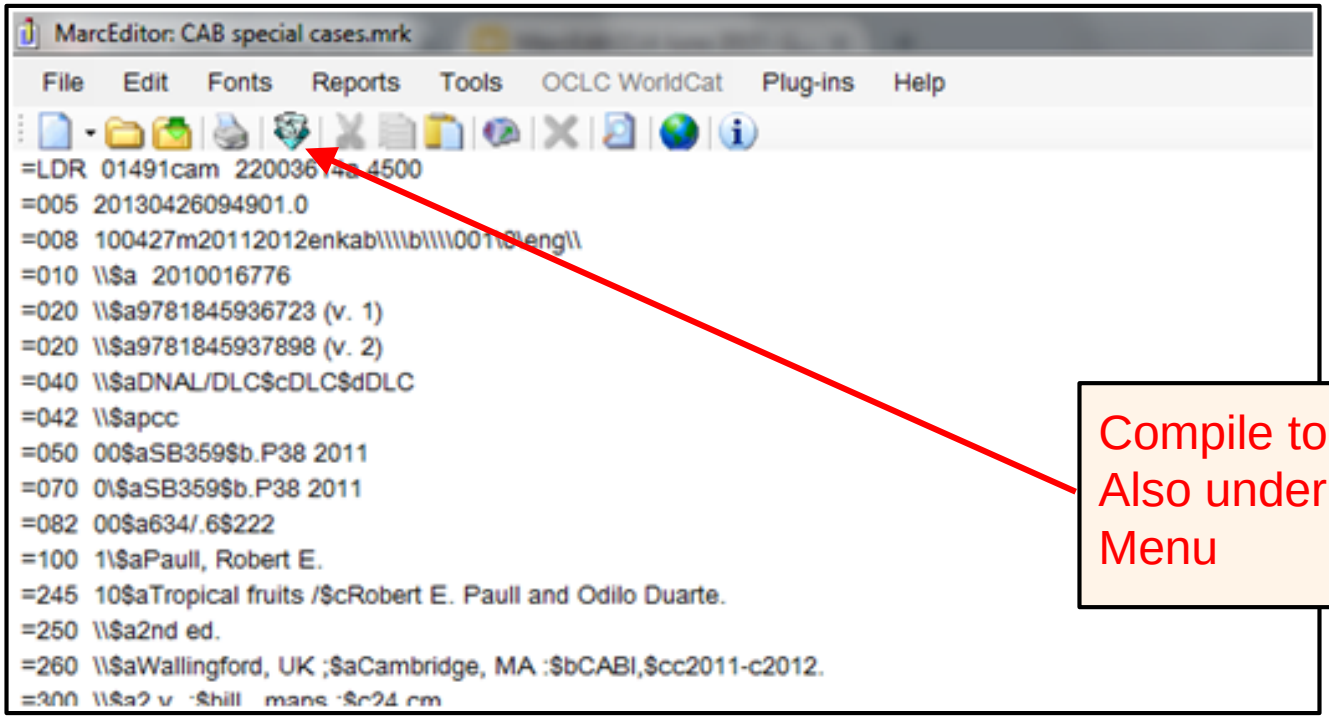
MarcMaker in MARC Tools

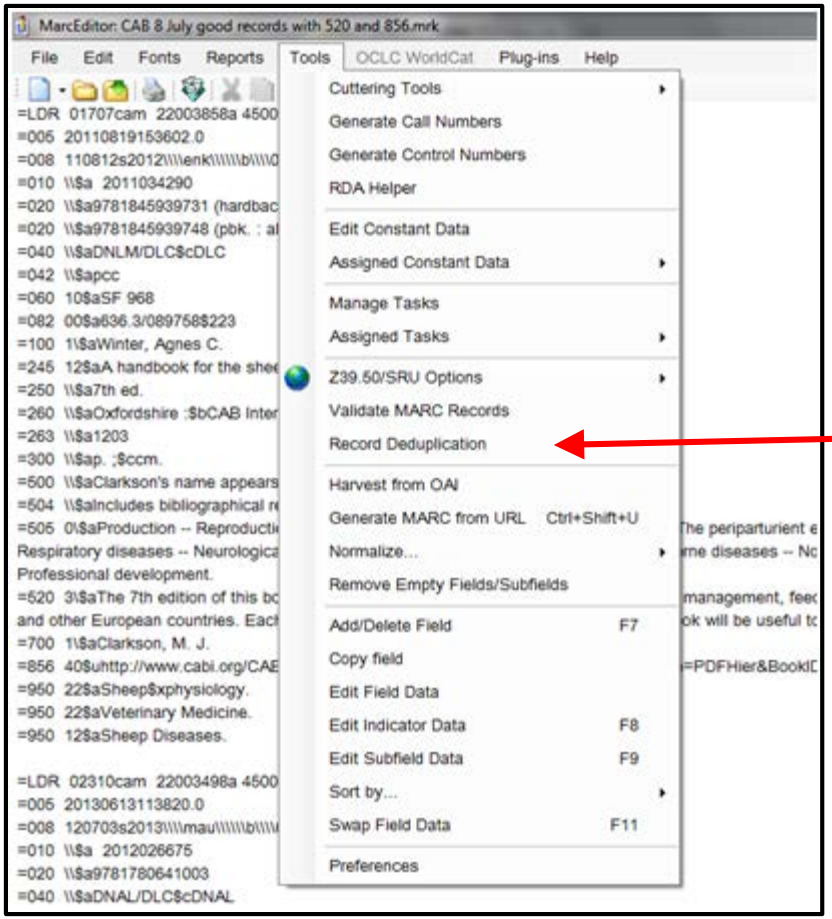


Text format file, either .mrk or .mrk8 (UTF)

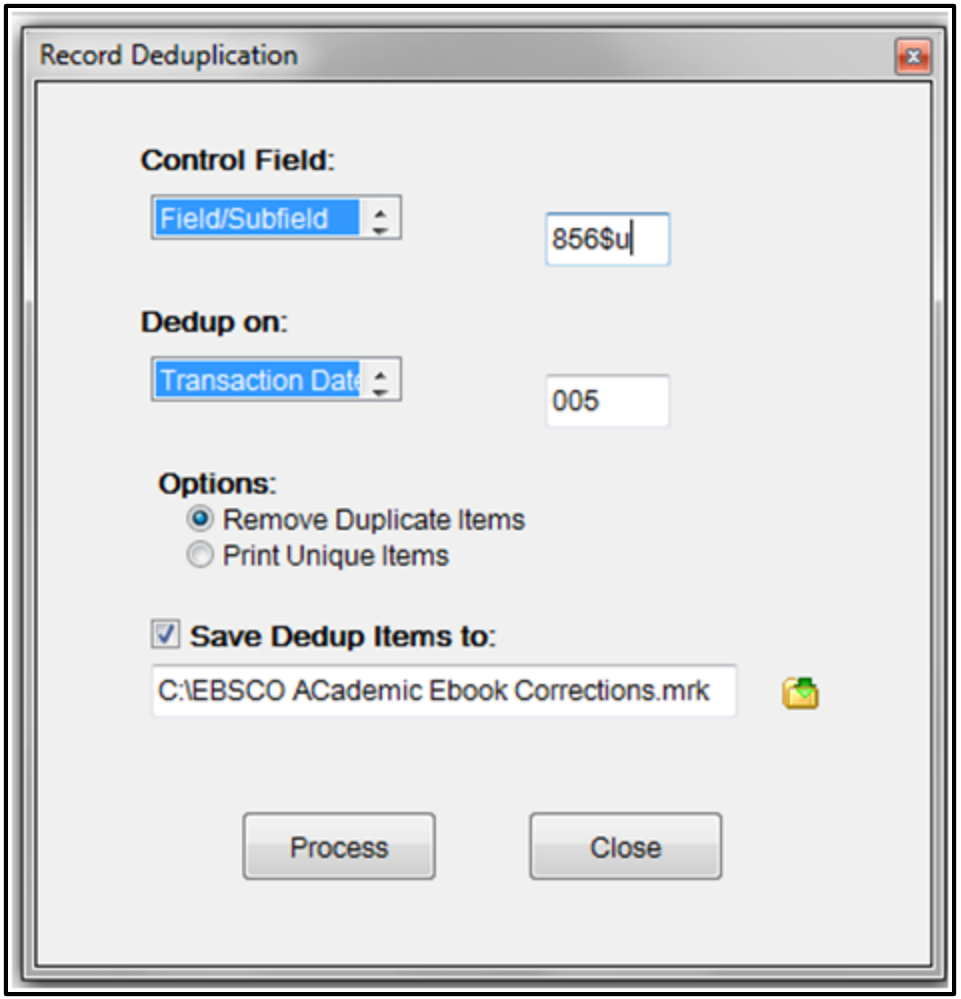
Encoded MARC file, .mrc

MarcMaker in MarcEditor



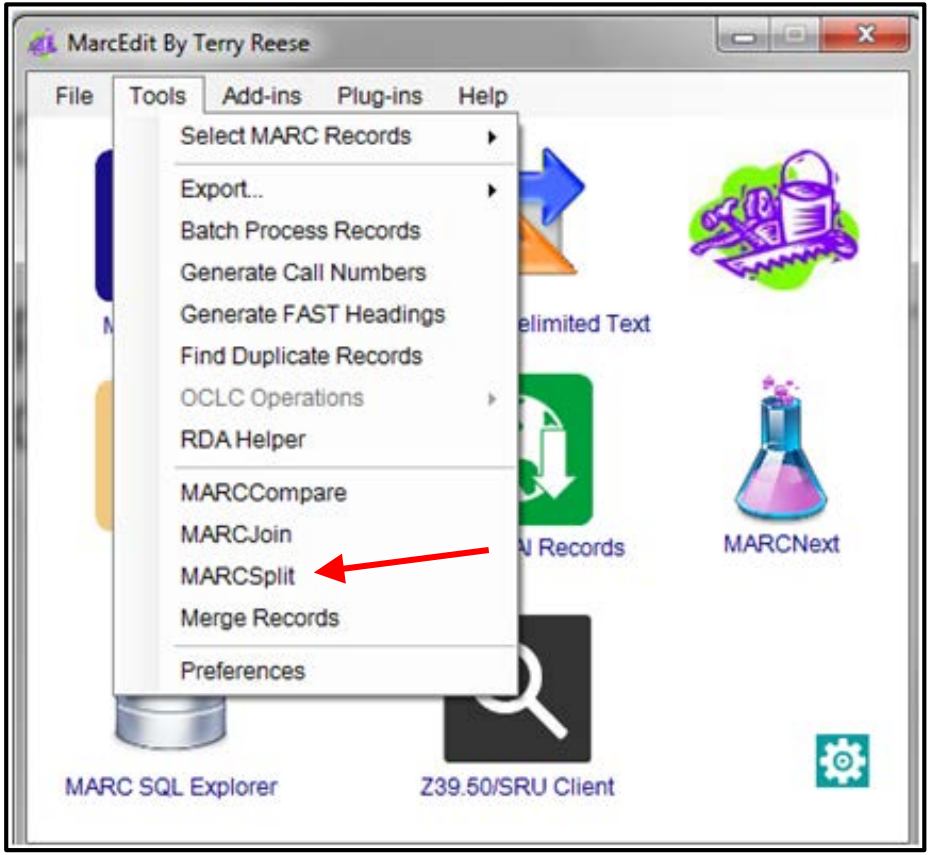


Record Deduplication

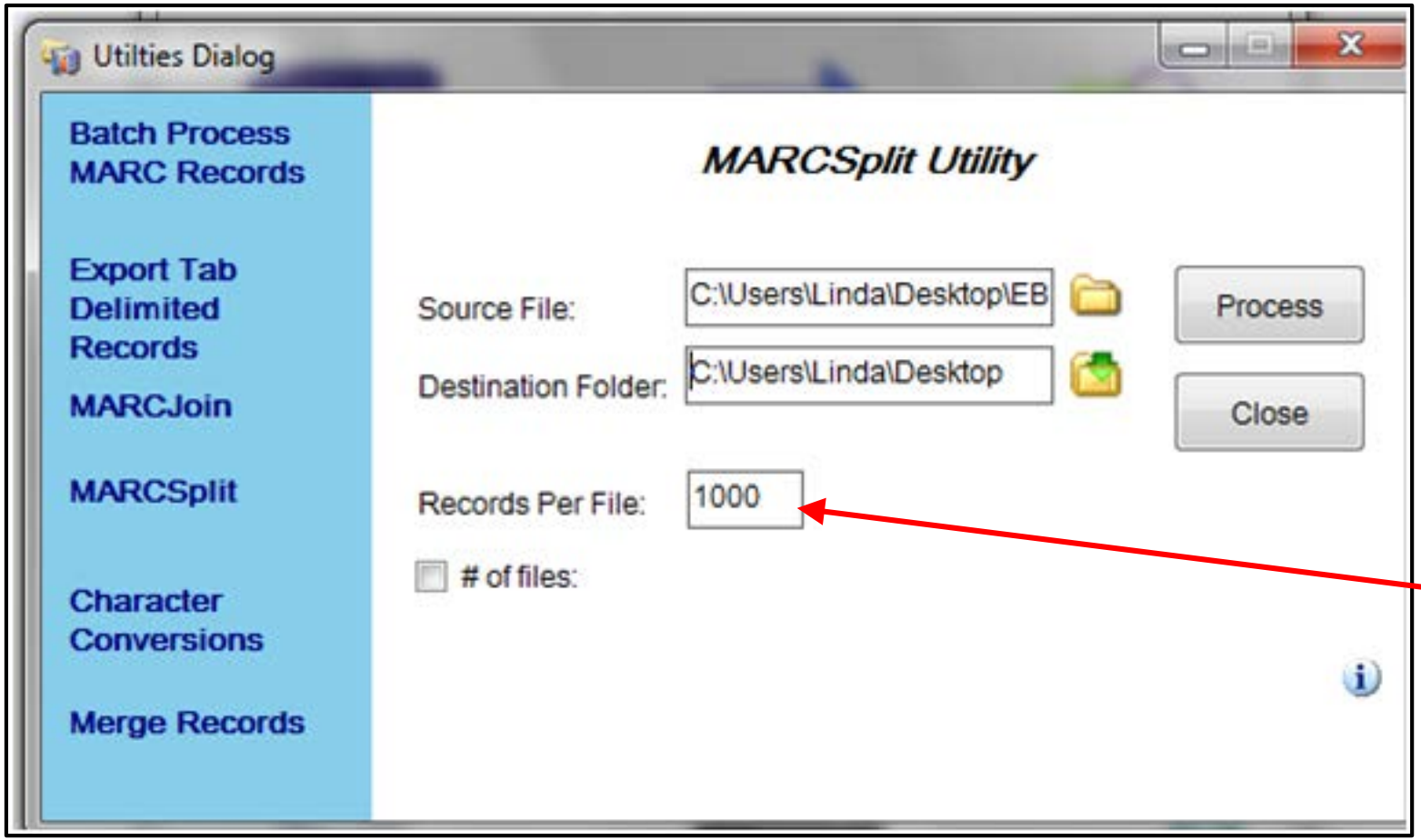


Record Deduplication

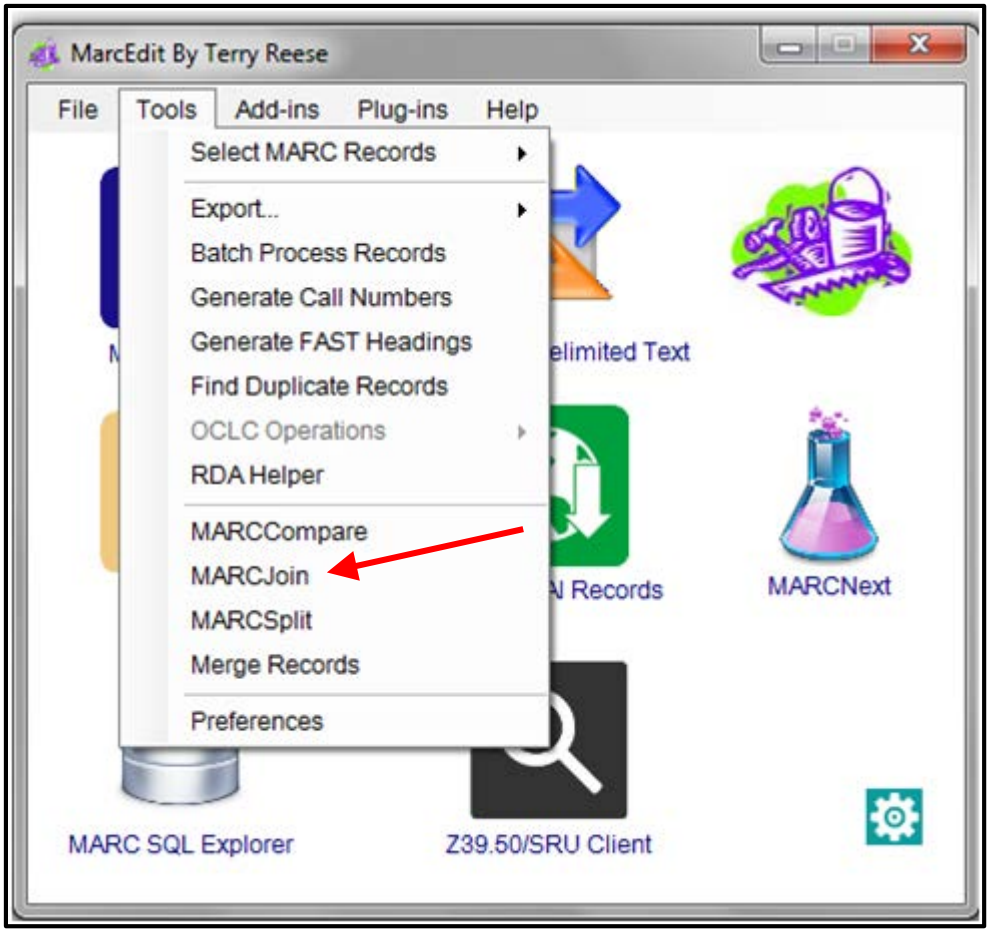
In this example, we're looking for records with duplicate URLS


MarcEdit By Terry Reese
File
Tools
Add-ins
Plug-ins
Help
Select MARC Records
Export...
Batch Process Records
Generate Call Numbers
Generate FAST Headings
Find Duplicate Records
OCLC Operations
RDA Helper
MARCCompare
MARCJoin
MARCSplit
Merge Records
Preferences
elimited Text
N Records
MARCNext
MARC SQL Explorer
Z39.50/SRU Client

MARCSplit



Set number of records in files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elimited Text
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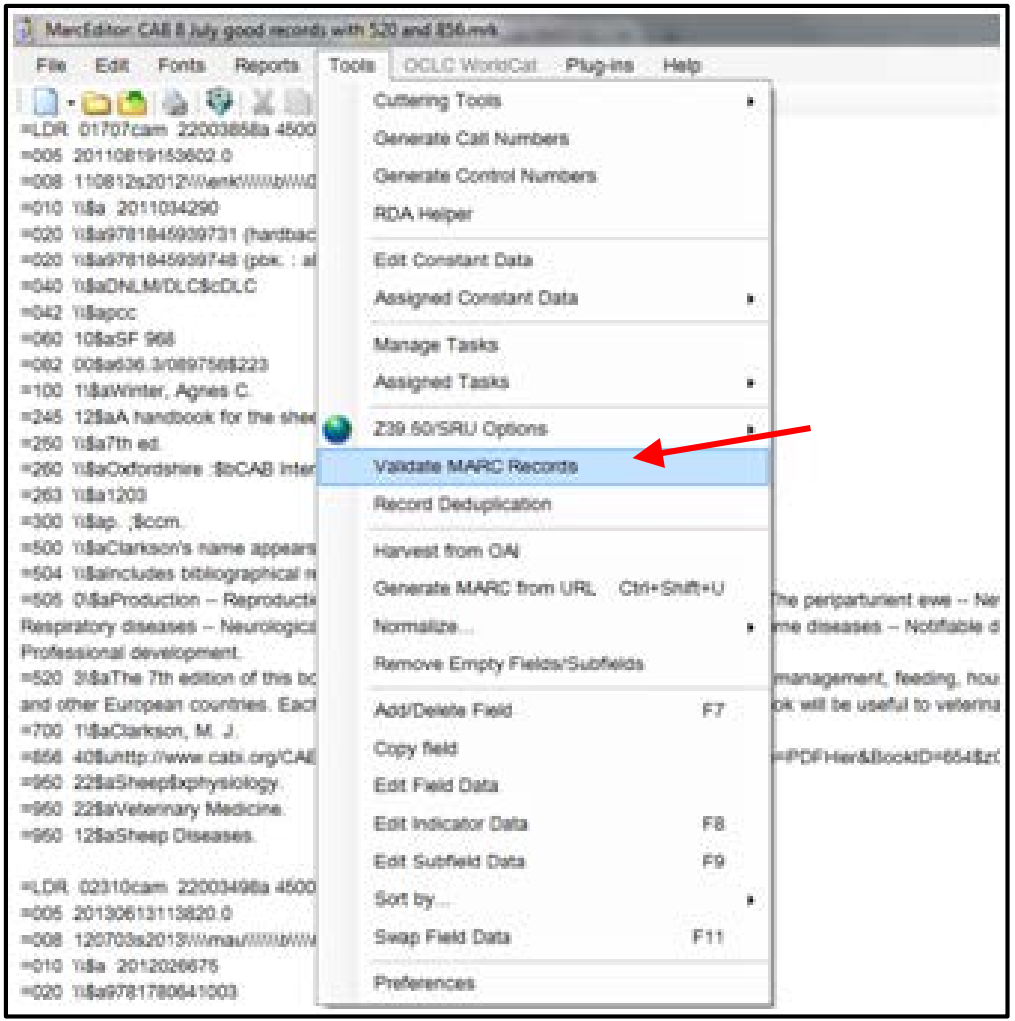
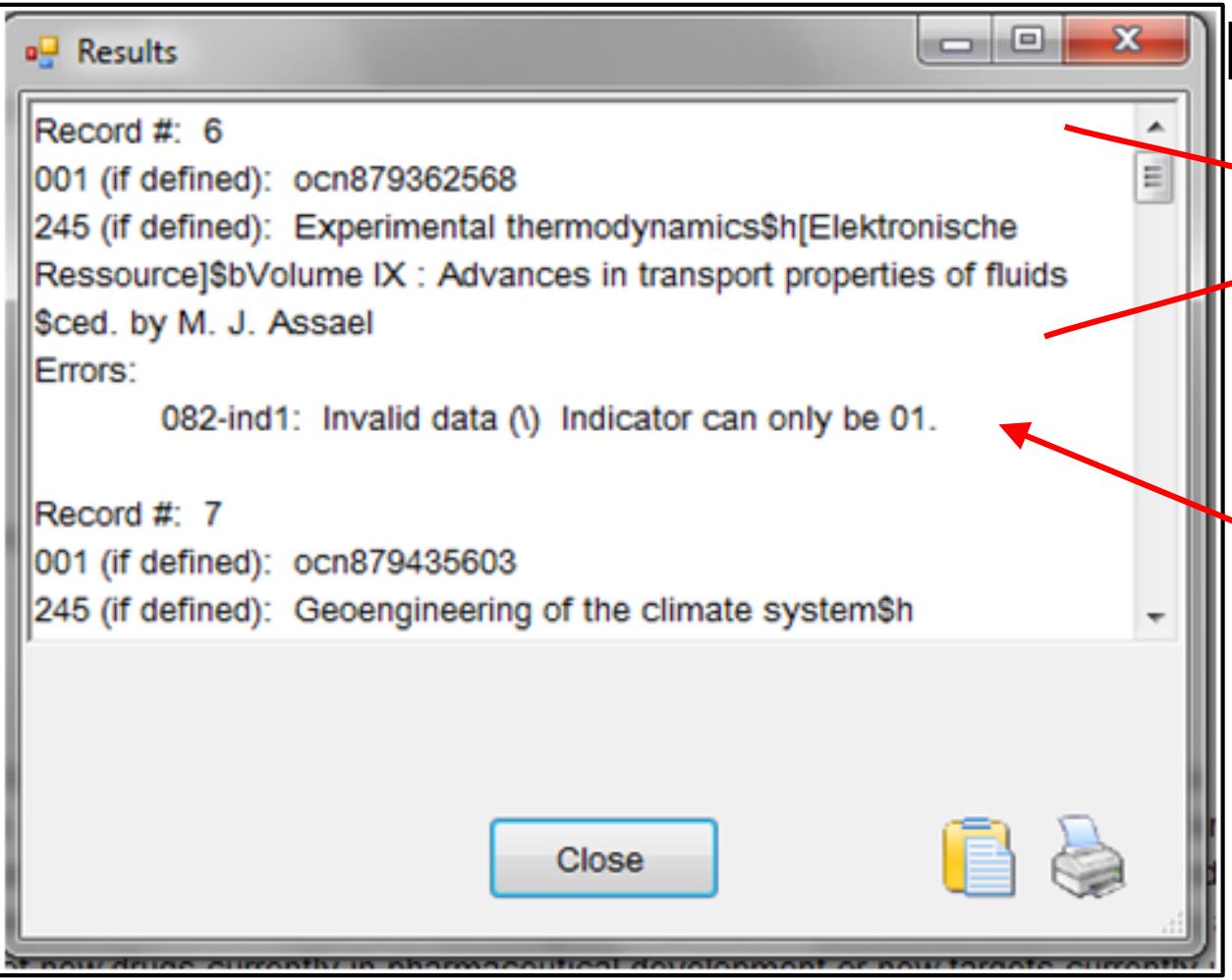
MARCJoin



MARC Validator

- will find errors in the MARC coding
- very useful if you have a record that your ILS will not accept!

MARC Validator



Information on the record so that you can find it.

Identifies error in MARC coding

Intermediate Functions in MarcEdit

Find & Replace in MarcEditor

Select & Export individual records

Exporting records in Tab Delimited Format

Merging records

Composite fields

Validate Headings

Verify URLs

Find & Replace Data Functions in MarcEditor

General text editing functions - simple but powerful!

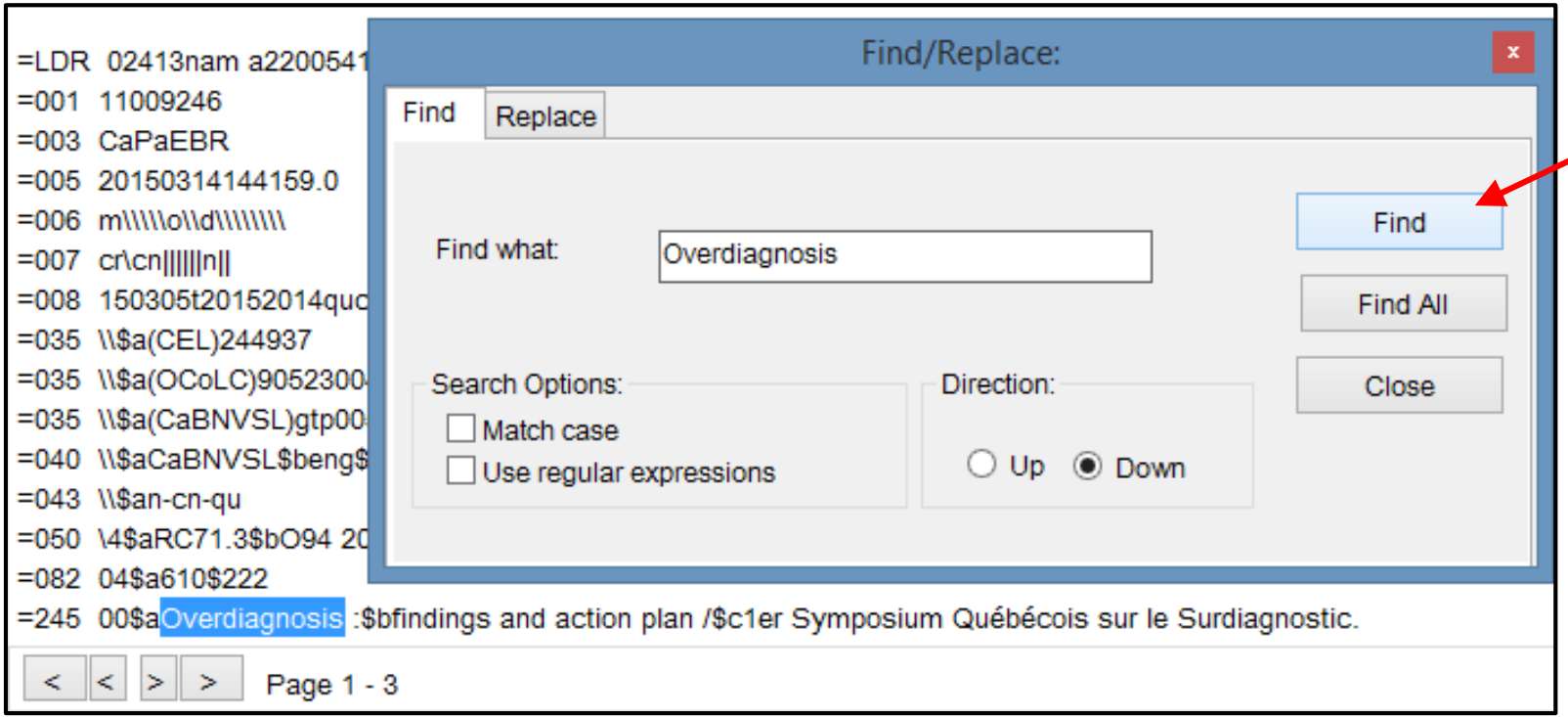
Find / **Replace** - to find and replace data (text string) on a current page in MARC text file

Find All / **Replace All** - to find and replace all occurrences of a given text string

Results can be sorted

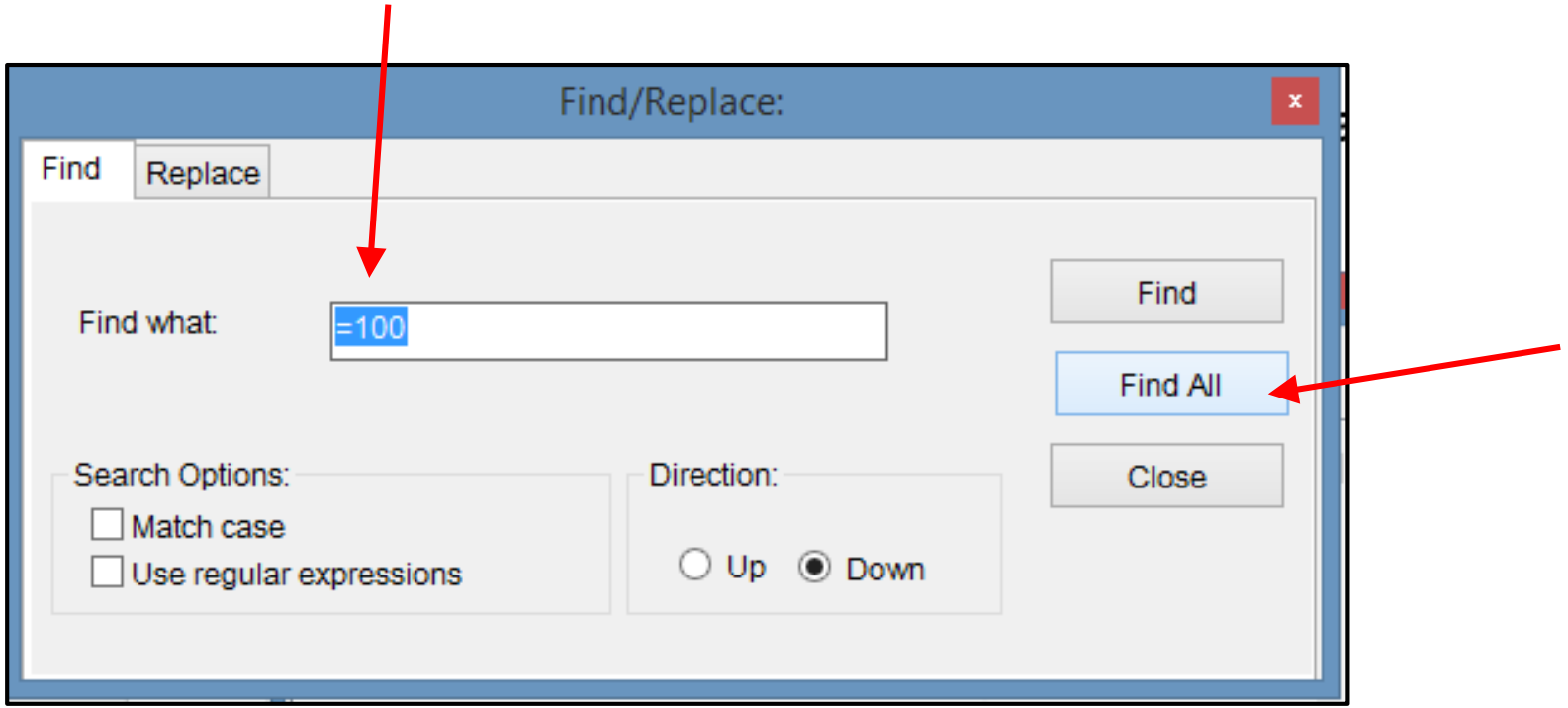
More powerful with regular expressions

“Find” example

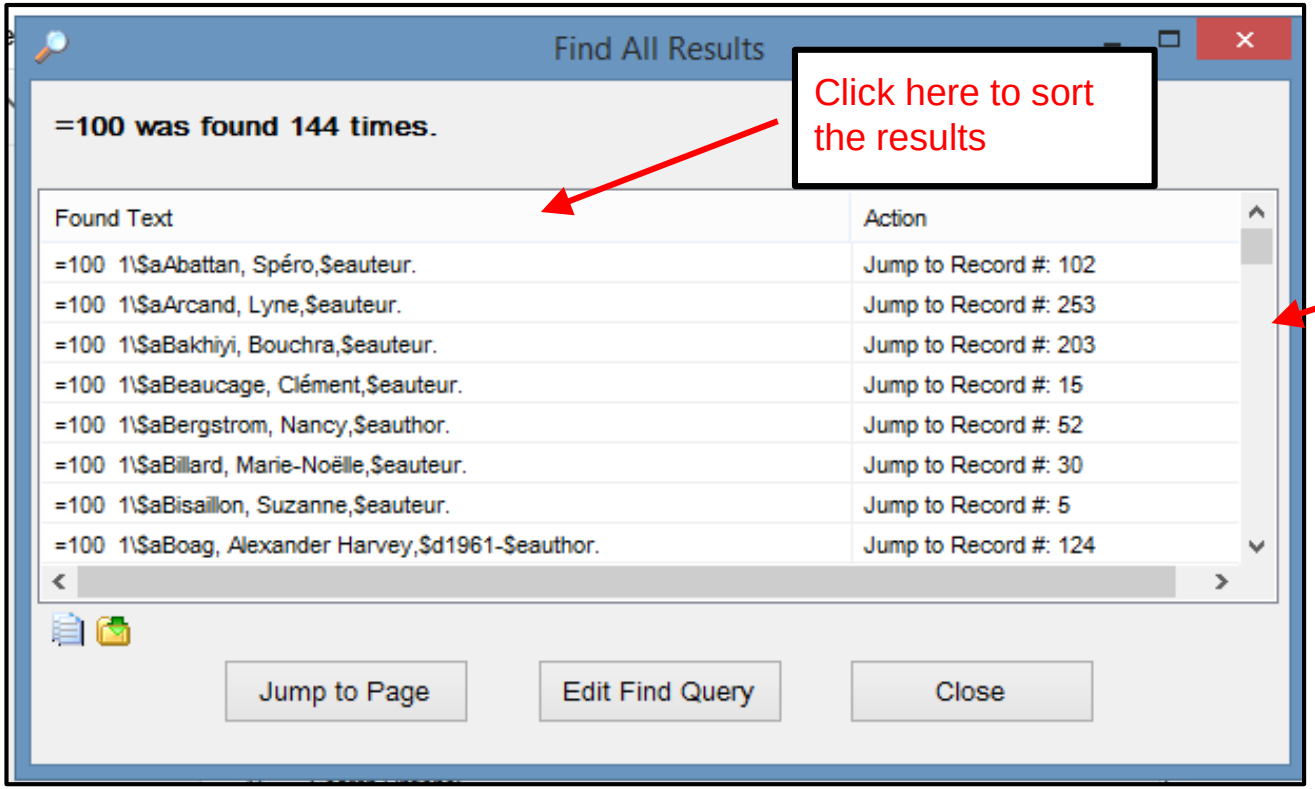


“Find All” - Allows users to quickly check data in a specific MARC field (or subfield)

Search for: **=MARCfieldTAG**



Using “Find All” to search for data in a specific MARC field (100) - Results list

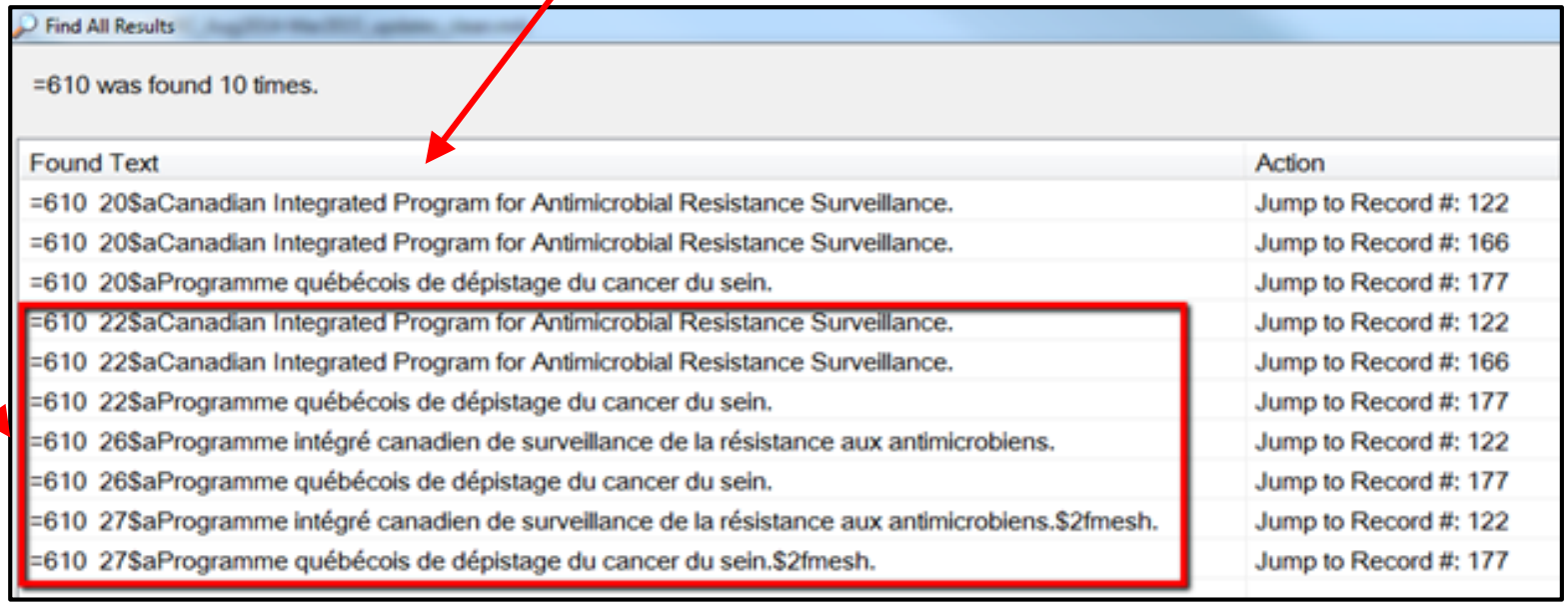


Use scrollbar to browse the results

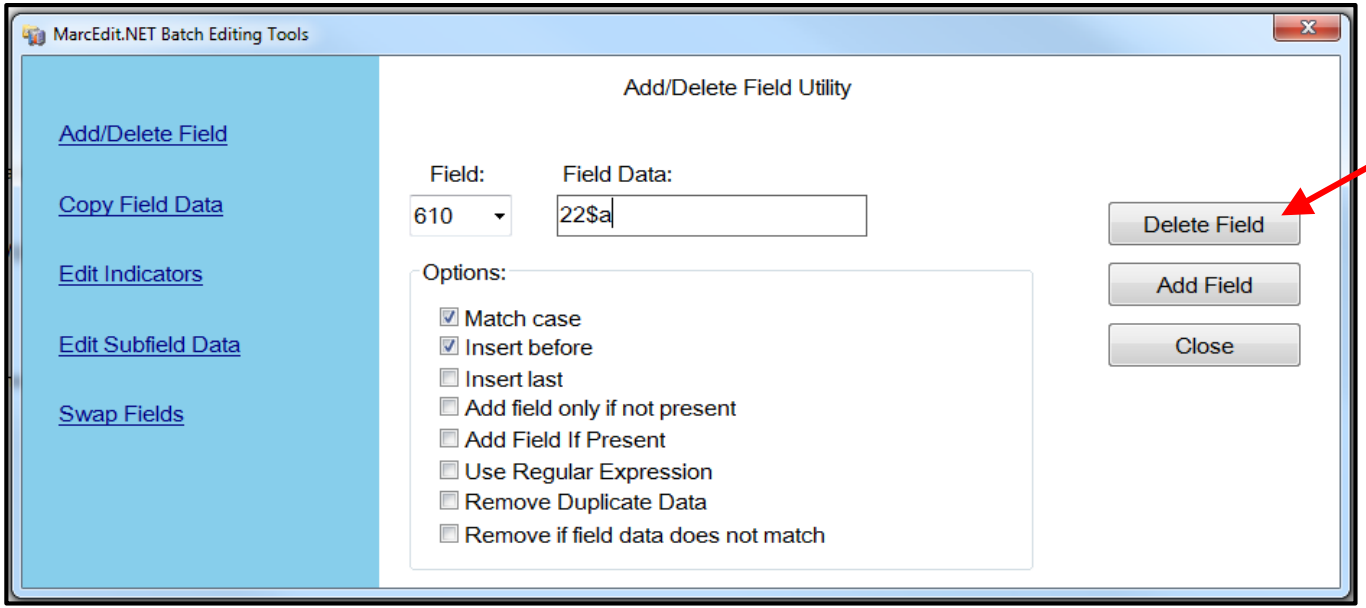
Using **Find All** to find “invalid” subject headings

Click here to sort

610 fields with “invalid” (non LC) indicators



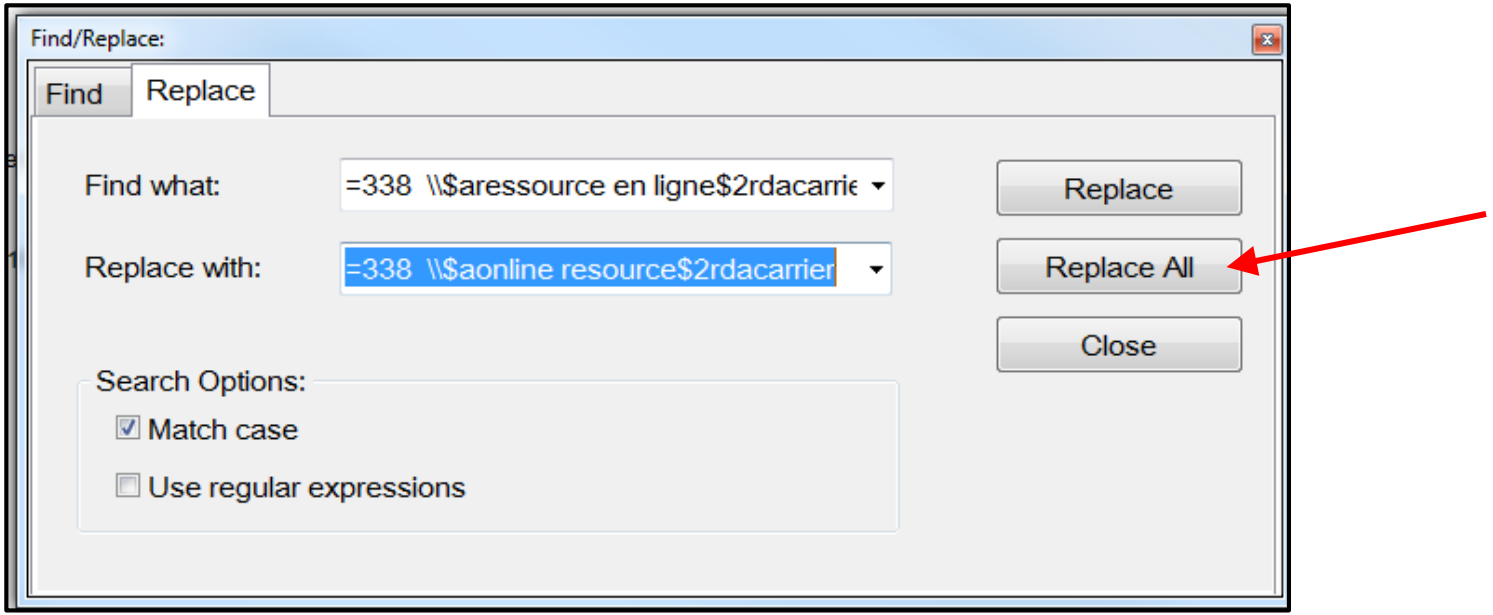
Deleting 6XX fields with specific indicators



Delete all fields with a specific indicator data using “Add/Delete Field Utility”

Replace All

You can use Replace All to replace a whole MARC field - in this case 338 field with French text - with a completely different (English) text

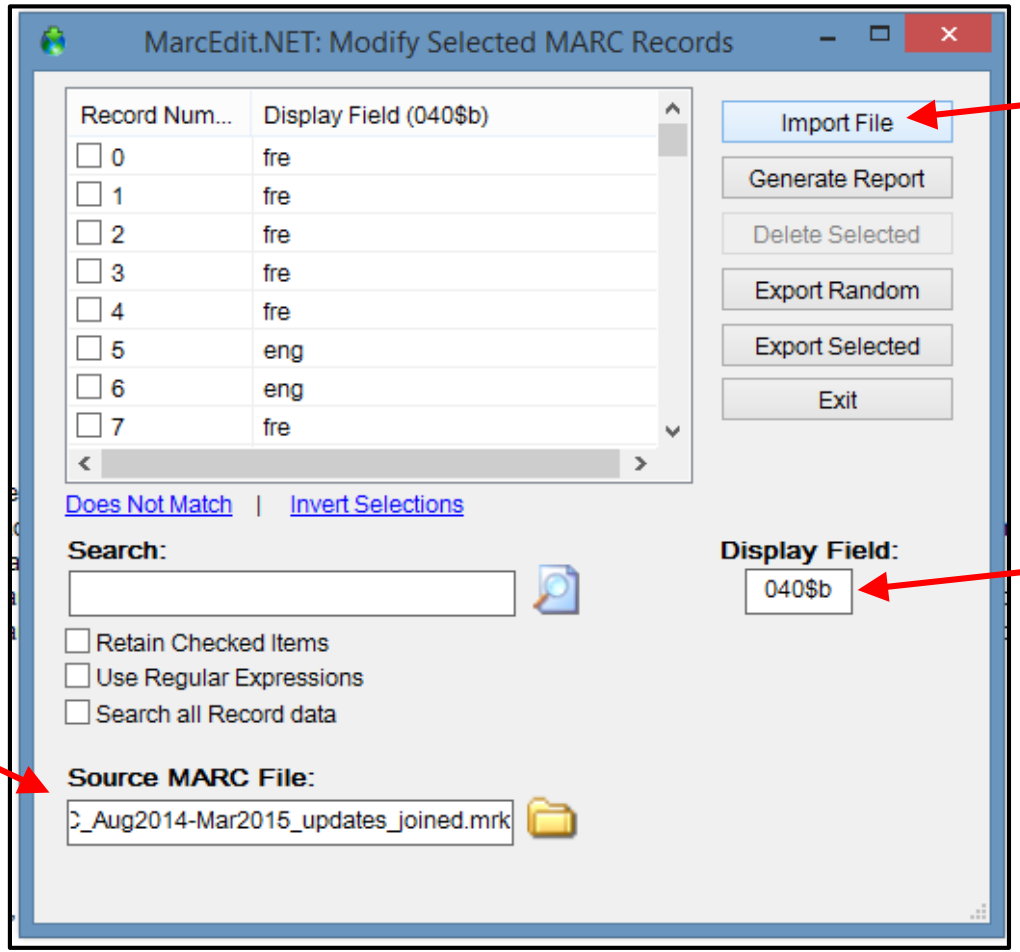


Extract / Delete Selected Records Utility

Extract Selected Records - allows users to **extract individual records from a larger MARC file**

Delete Selected Record - allows users **delete individual MARC records from a larger MARC file**

Different types of searches can be performed to select individual records in the file



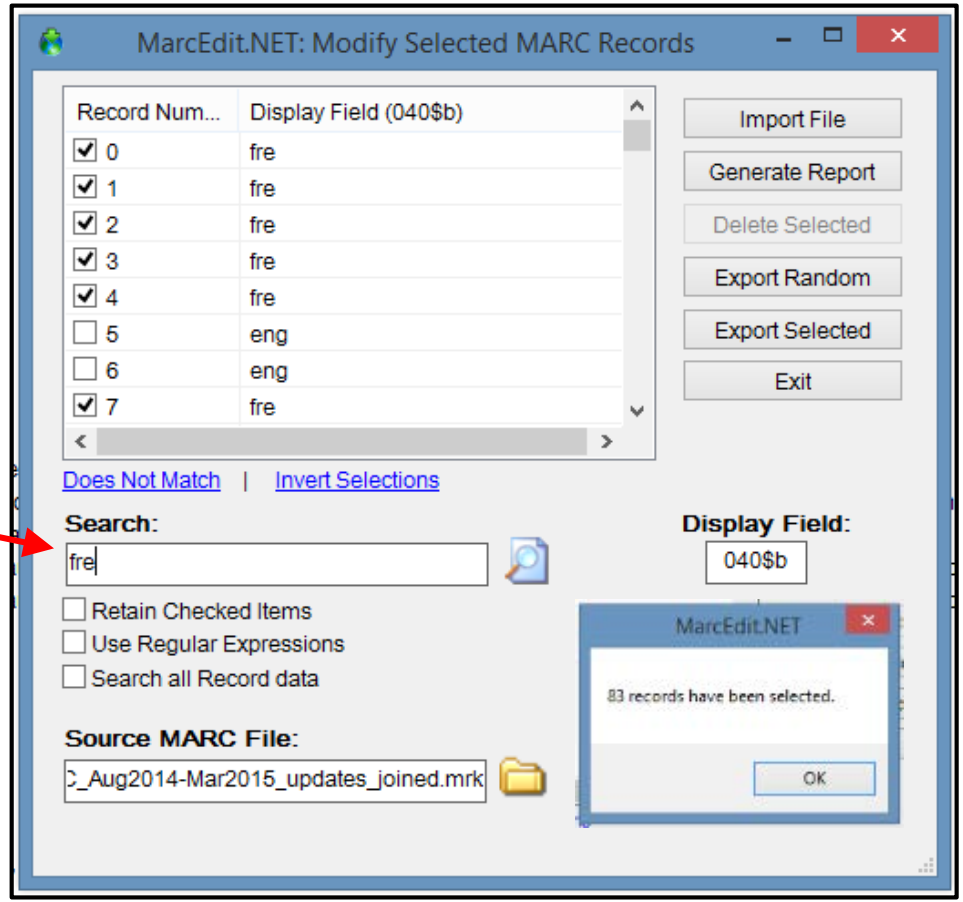
Click on Import File to import the file in this utility

Display Field - contains the data based on which you want to select (extract) records

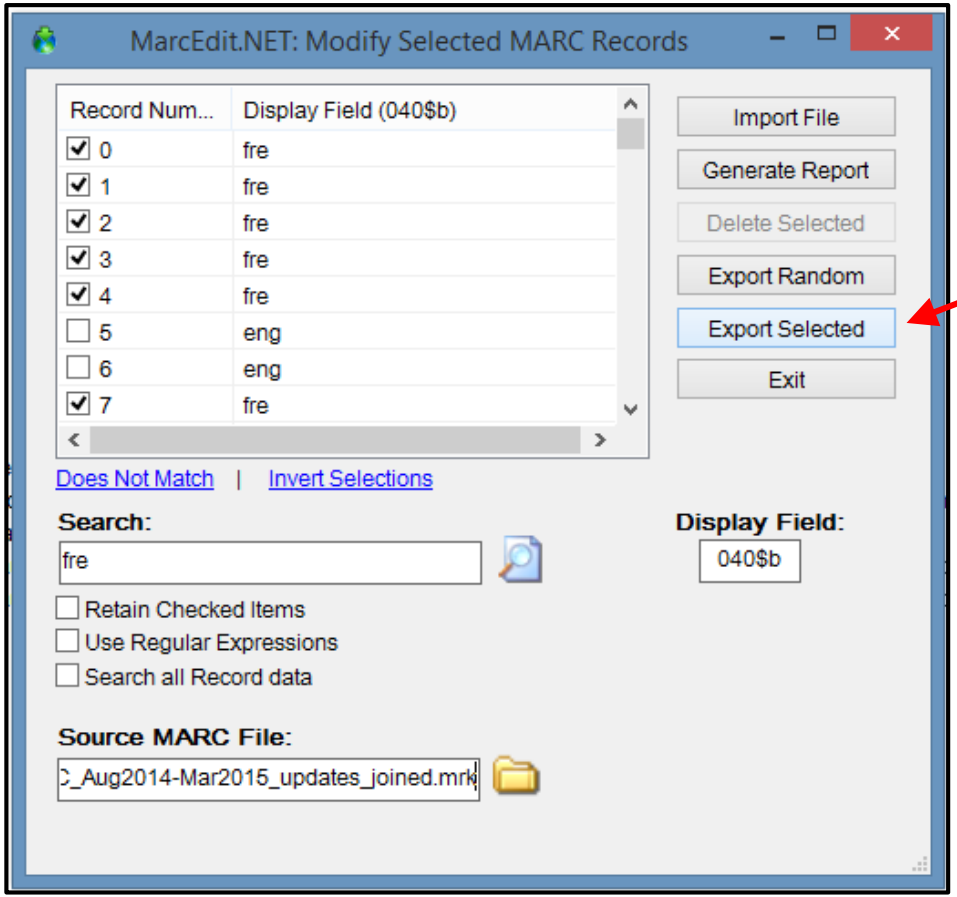
Source file - .mrk file that you want to select/extract records from

Selecting individual records

Enter data in the Search box - Records containing the data specified will be selected after you execute the search



Exporting selected records



Export Selected - selected records will be exported into new .mrk file

Export Tab Delimited Records Utility

Export fields in tab delimited format

Can be used to identify missing and duplicate data in a specific field or subfield

Can be used to generate title lists, etc.

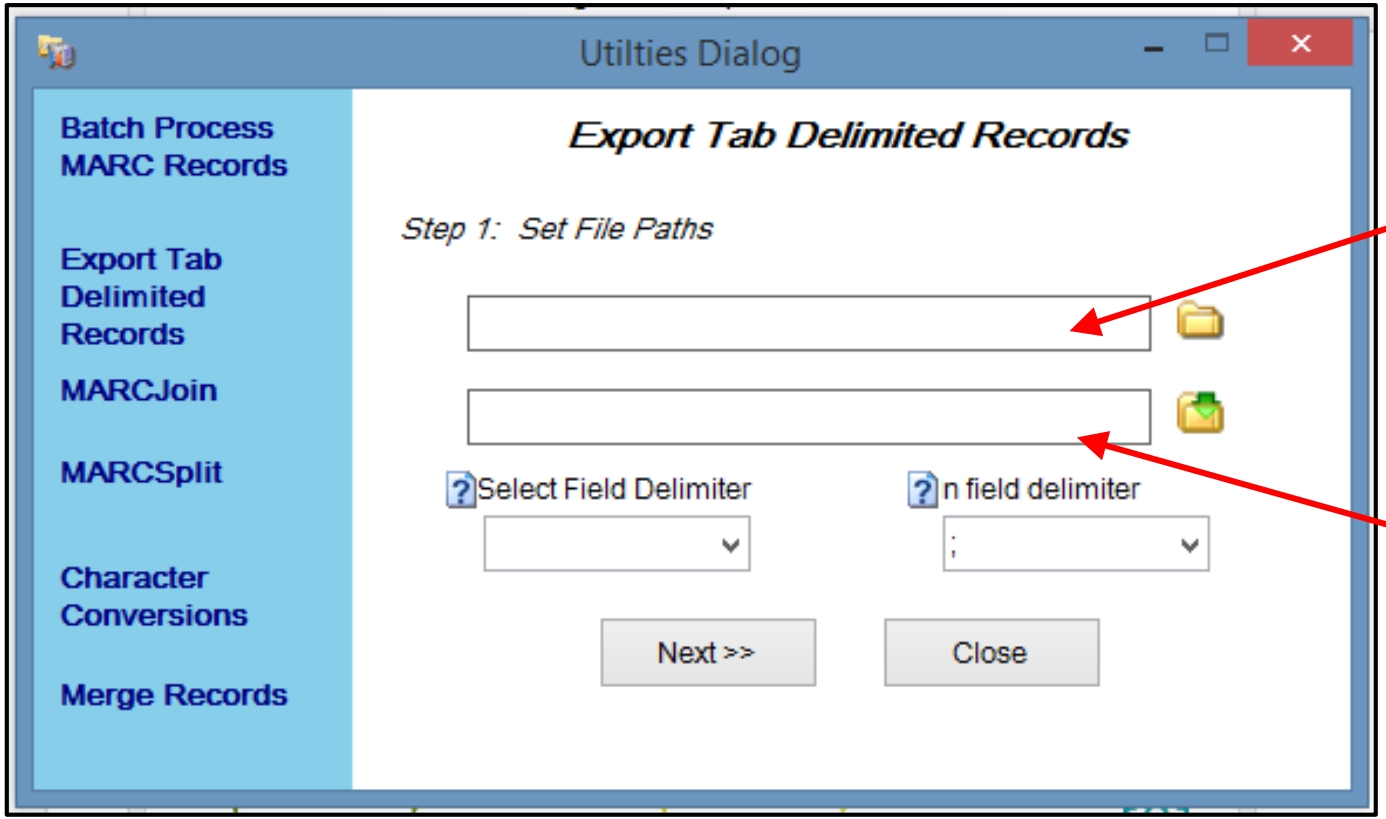
MARC text file

Tab Delimited text

```
=245  00$aBrain electrical activity mapping for diagnosing
=336  \\$atext$2rdacontent
=650  \0$aDementia$xDiagnosis.
=650  \0$aMental illness$xDiagnosis.
=650  \0$aBrain mapping.
=650  \0$aElectroencephalography.
```

245$a "Brain electrical activity mapping for diagnosing psychiatric disorders :"
336$a "text"
650$a "Dementia;Mental illness;Brain mapping.;Electroencephalography."

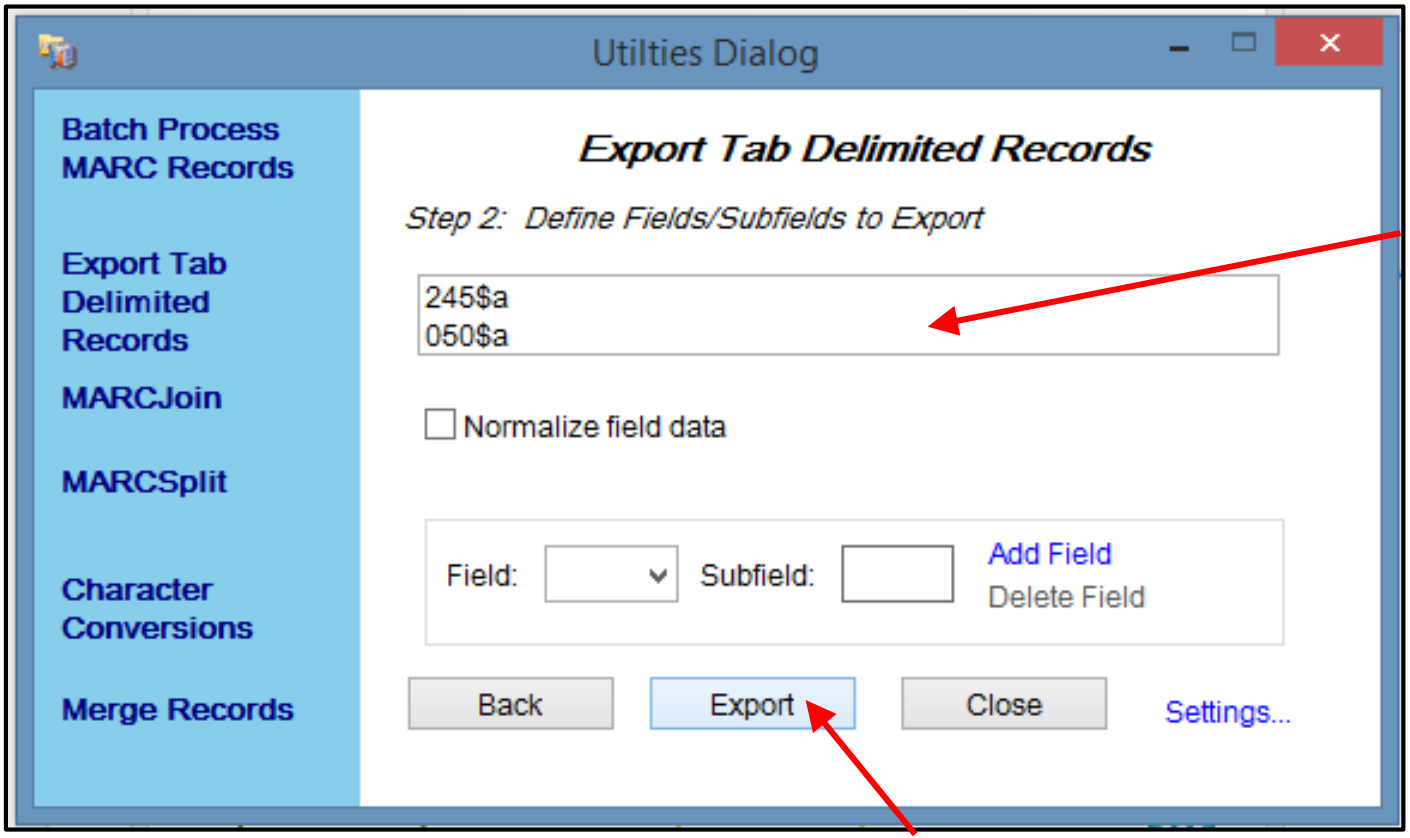
Export Tab Delimited Records Utility



.mrc file you want to export from

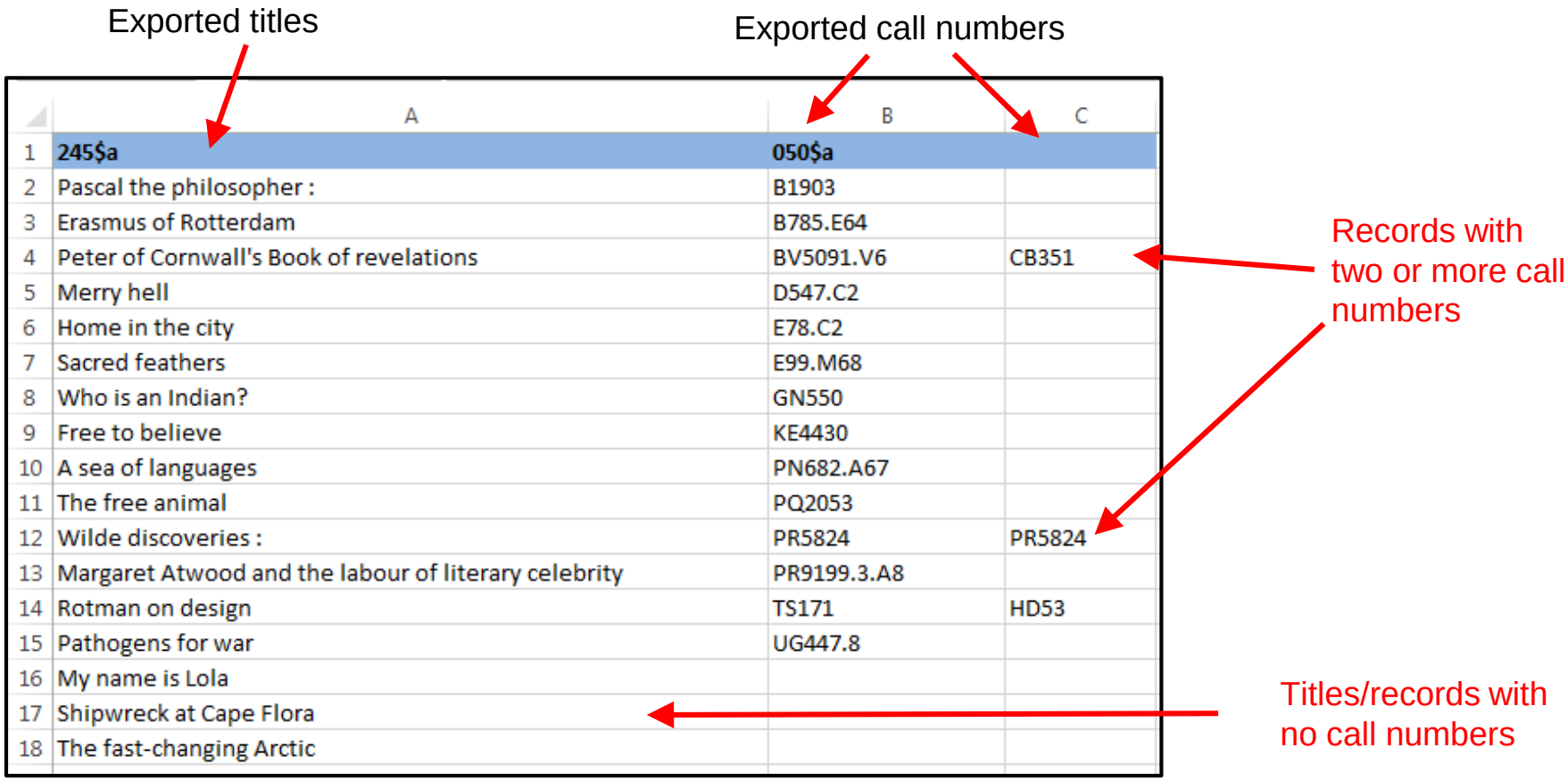
Tab Delimited text file you are exporting

Selecting fields and subfields to export



Fields and subfields selected to export

Using Tab Delimited records to identify missing and duplicate call numbers



	A	B	C
1	**245$a**	**050$a**	
2	Pascal the philosopher :	B1903	
3	Erasmus of Rotterdam	B785.E64	
4	Peter of Cornwall's Book of revelations	BV5091.V6	CB351
5	Merry hell	D547.C2	
6	Home in the city	E78.C2	
7	Sacred feathers	E99.M68	
8	Who is an Indian?	GN550	
9	Free to believe	KE4430	
10	A sea of languages	PN682.A67	
11	The free animal	PQ2053	
12	Wilde discoveries :	PR5824	PR5824
13	Margaret Atwood and the labour of literary celebrity	PR9199.3.A8	
14	Rotman on design	TS171	HD53
15	Pathogens for war	UG447.8	
16	My name is Lola		
17	Shipwreck at Cape Flora		
18	The fast-changing Arctic		

Z 39.50

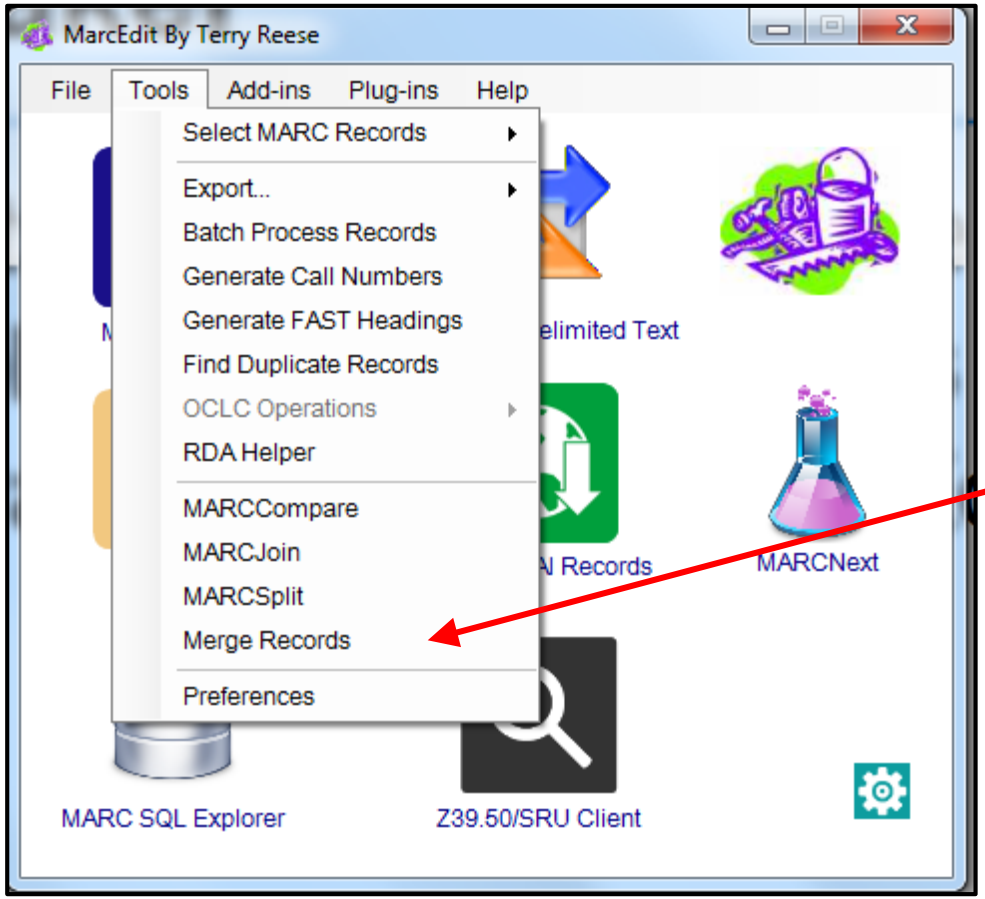
How to get records containing missing data:

- At Guelph, use Z 39.50 utility BookWhere (from Web Clarity)
- MarcEdit has Z 39.50 search -- Has LC and OCLC configured.

Merge Records Tool

Merge data from one marc file into another file

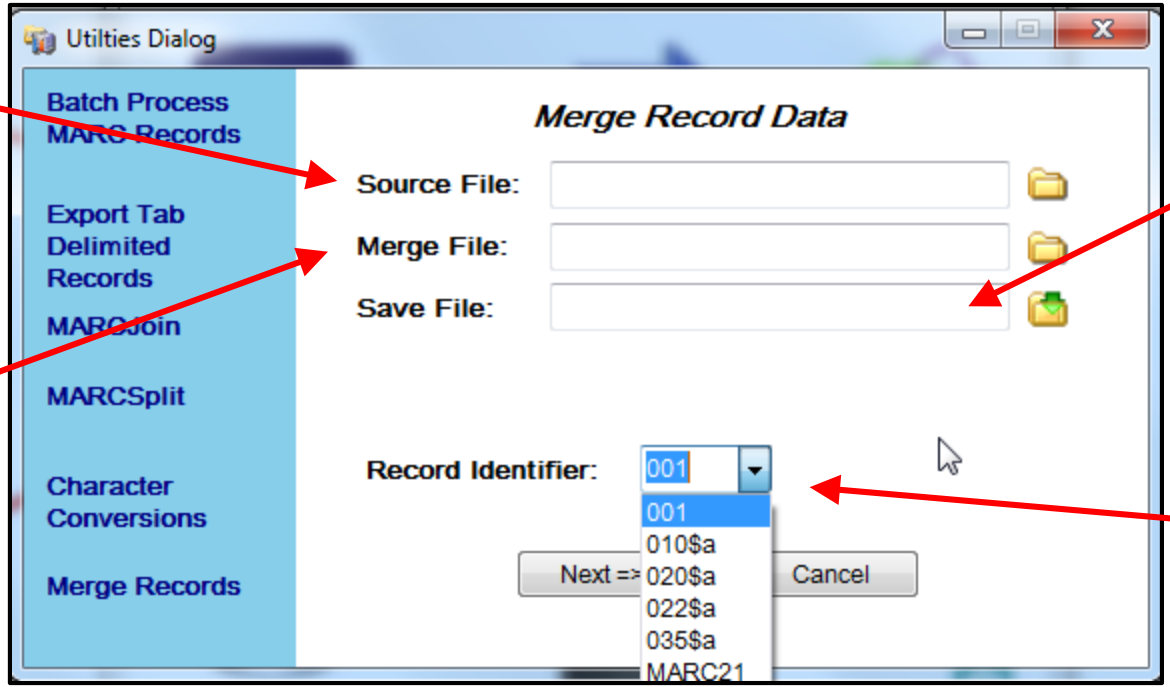
Can be used to **supply missing data** - such as call numbers or subject headings



ALL files must be in MRK or MRK8 format (text MARC, not encoded MARC)

File with most of the data you want

File with added data



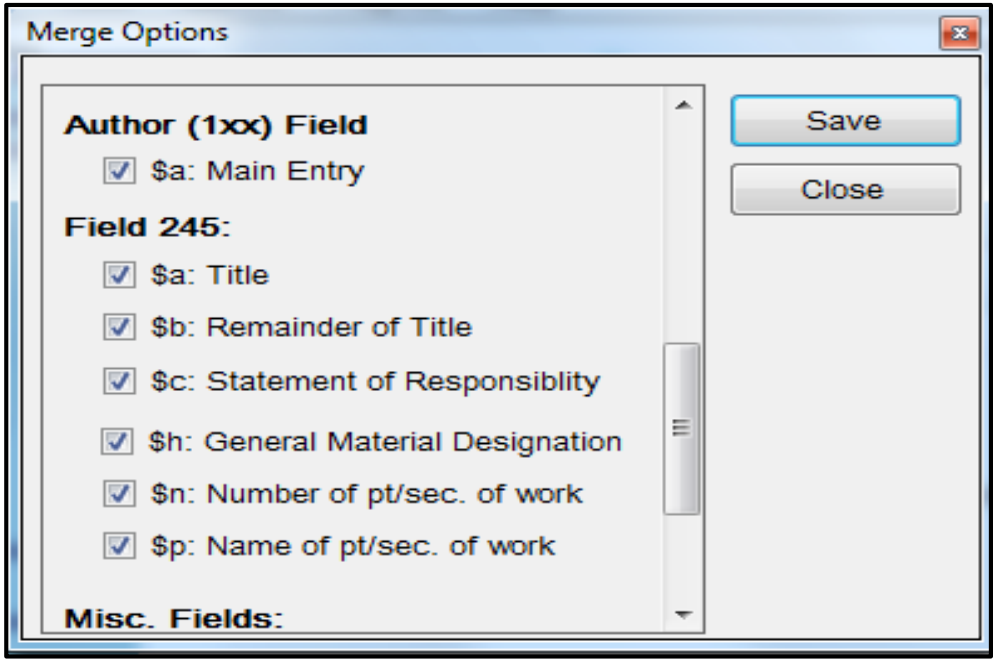
Final file with all data

Field to match records on

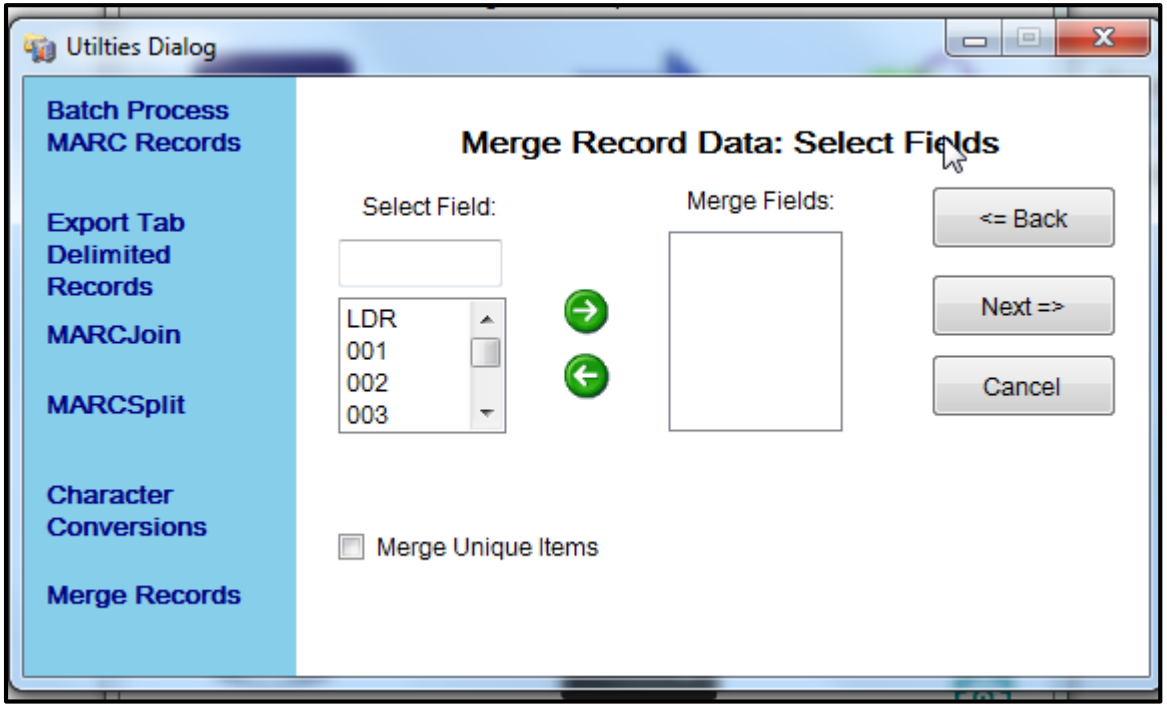
MARC21 as record identifier

choose Customize fields
Examples:

- 856 $u
- Main entry + 245 $a
- 776



Select fields to be merged INTO the ‘source’ file (the first one you specified):

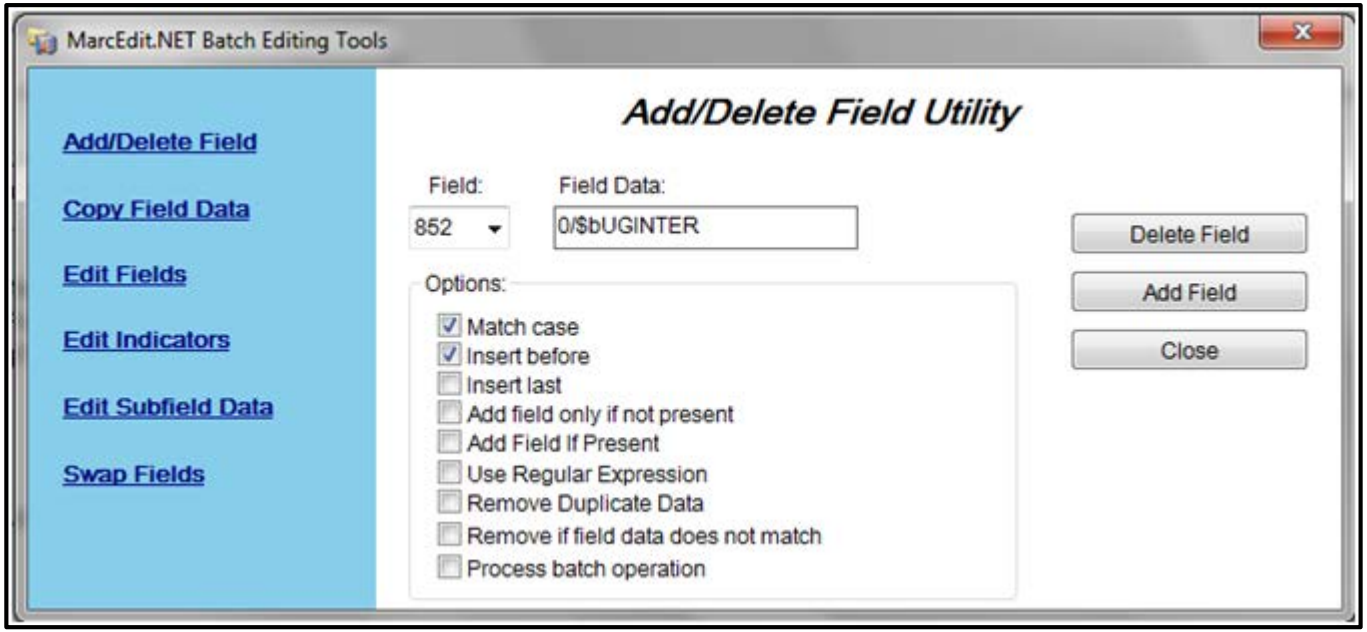


Composite fields

Example: 852 with call number from 050 and location value

You need to copy some data from another part of the record, and also supply data for the field.

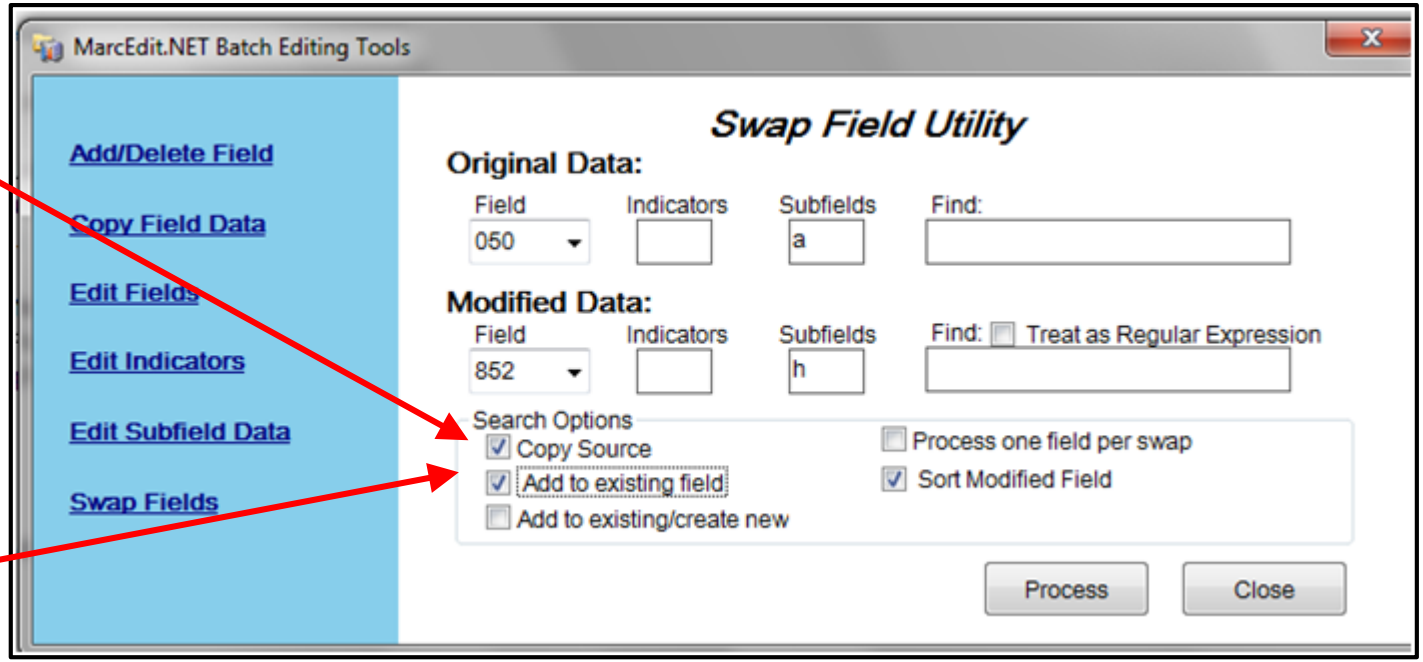
Step 1: Create field



Step 2: Use Swap to copy data from 050

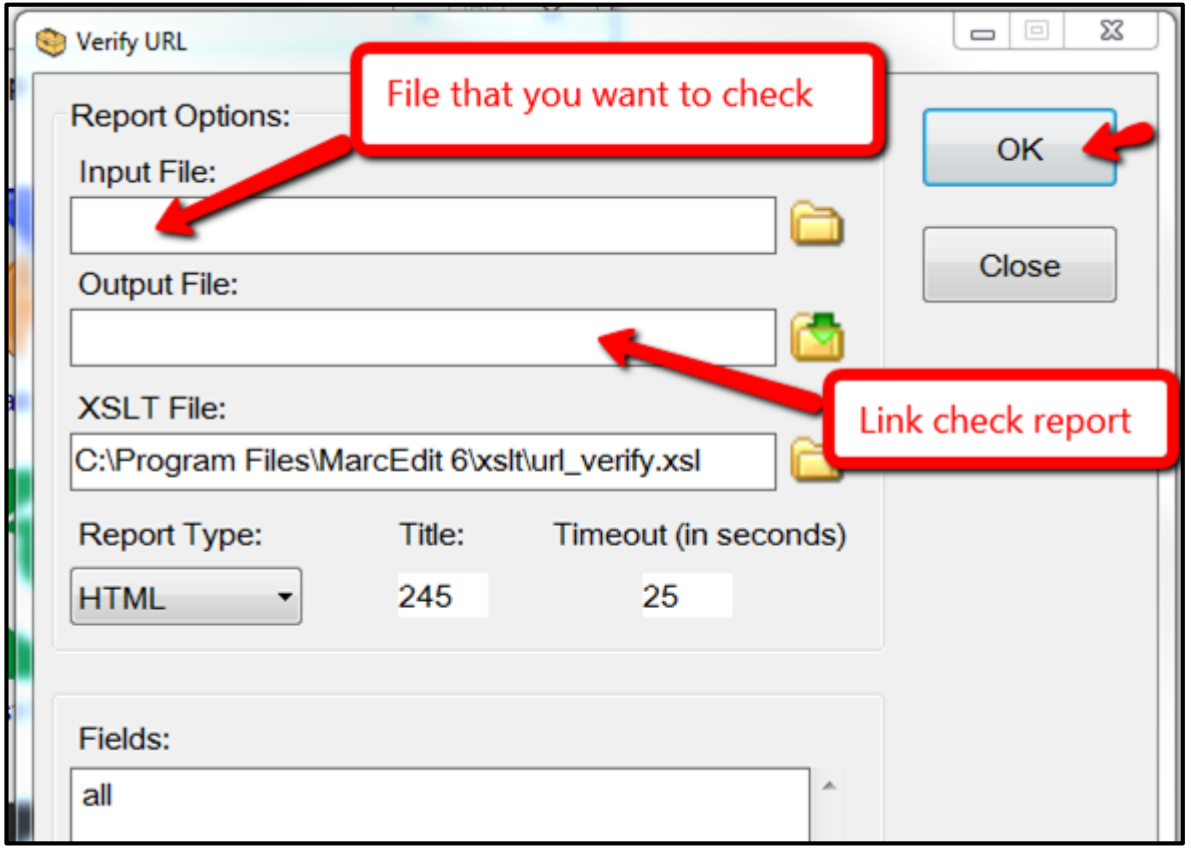
Leaves 050 unchanged

Adds to 852 already created



“Verify URLs” Add-in feature

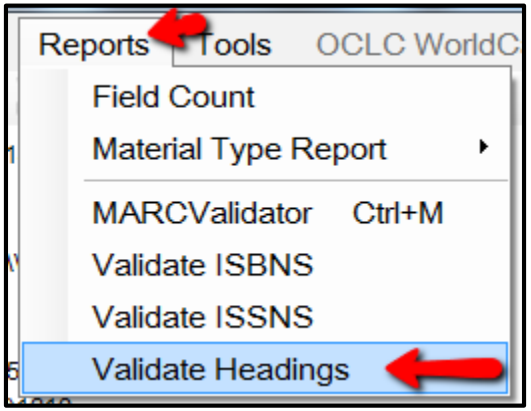
- Generates a report providing the HTTP status codes returned for URLs in a record set.
- Follows redirects
- Default timeout after 100 seconds
- Use carefully - many vendors don’t like url checkers!



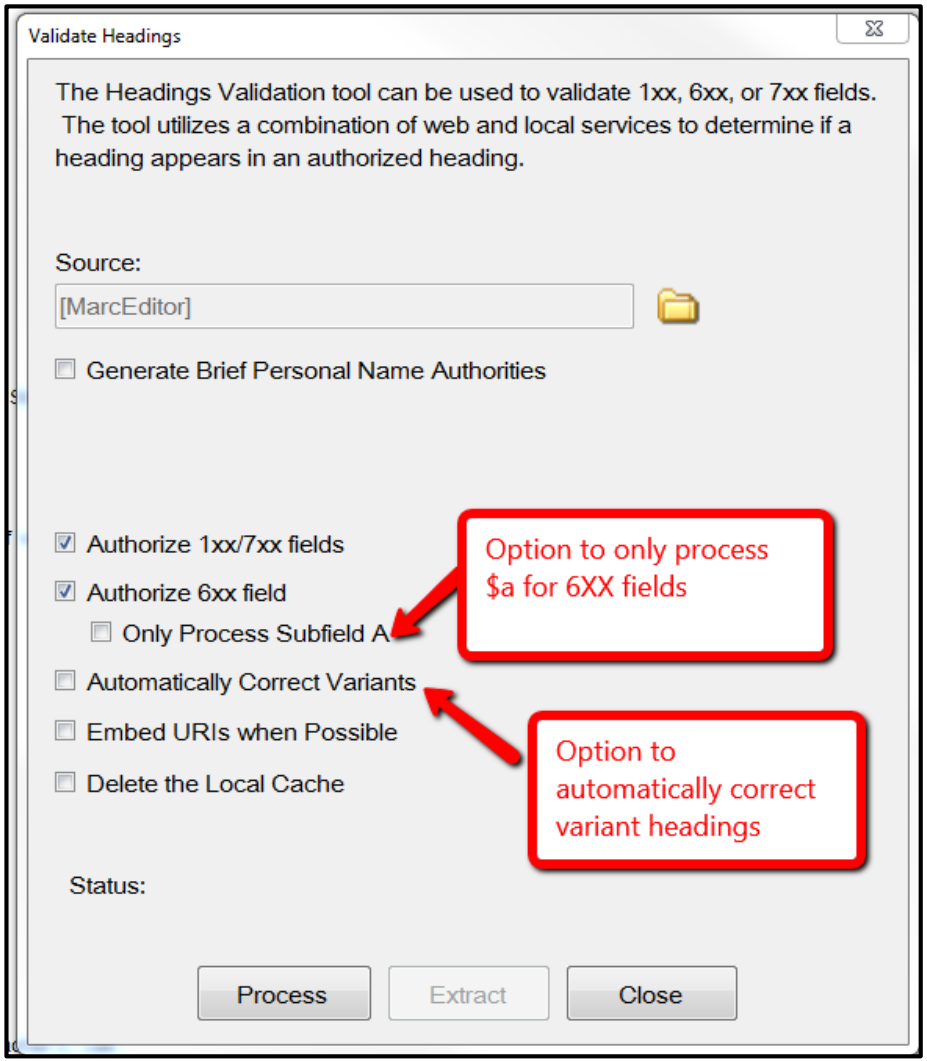
Validate URLs - Error report

	A	B	C	D
1	**Errors:**			
2	**Display Field**	**URL**	**Status Code**	**Status Message**
3	The secret diary of Adrian Mole aged	http://dx.doi.org/10.5(	404	Not Found;
4	Shoot/get treasure/repeat$h[electro	http://dx.doi.org/10.5(	404	Not Found;
5	Saturday night/Sunday morning /$cK	http://dx.doi.org/10.5(	404	Not Found;
6	Ashes to ashes$h[electronic resource	http://dx.doi.org/10.5(	404	Not Found;
7	Betrayal /$cHarold Pinter.	http://dx.doi.org/10.5(	404	Not Found;
8	Celebration /$cHarold Pinter.	http://dx.doi.org/10.5(	404	Not Found;
9				
10	**Validated:**			
11	**Display Field**	**URL**	**Status Code**	**Status Message**
12	A doll's house$h[electronic resource]	http://dx.doi.org/10.5(	200	OK;
13	A doll's house$h[electronic resource]	http://dx.doi.org/10.5(	200	OK;
14	'I'll leave it to you'$h[electronic resou	http://dx.doi.org/10.5(	200	OK;
15	'I'll leave it to you'$h[electronic resou	http://dx.doi.org/10.5(	200	OK;
16	The young idea$h[electronic resource	http://dx.doi.org/10.5(	200	OK;

Validate Headings



- Live check against LC Authority files!
- Automatic correction of variant headings



Validate Headings report

Headings Found

Headings Not Found

Variants Found

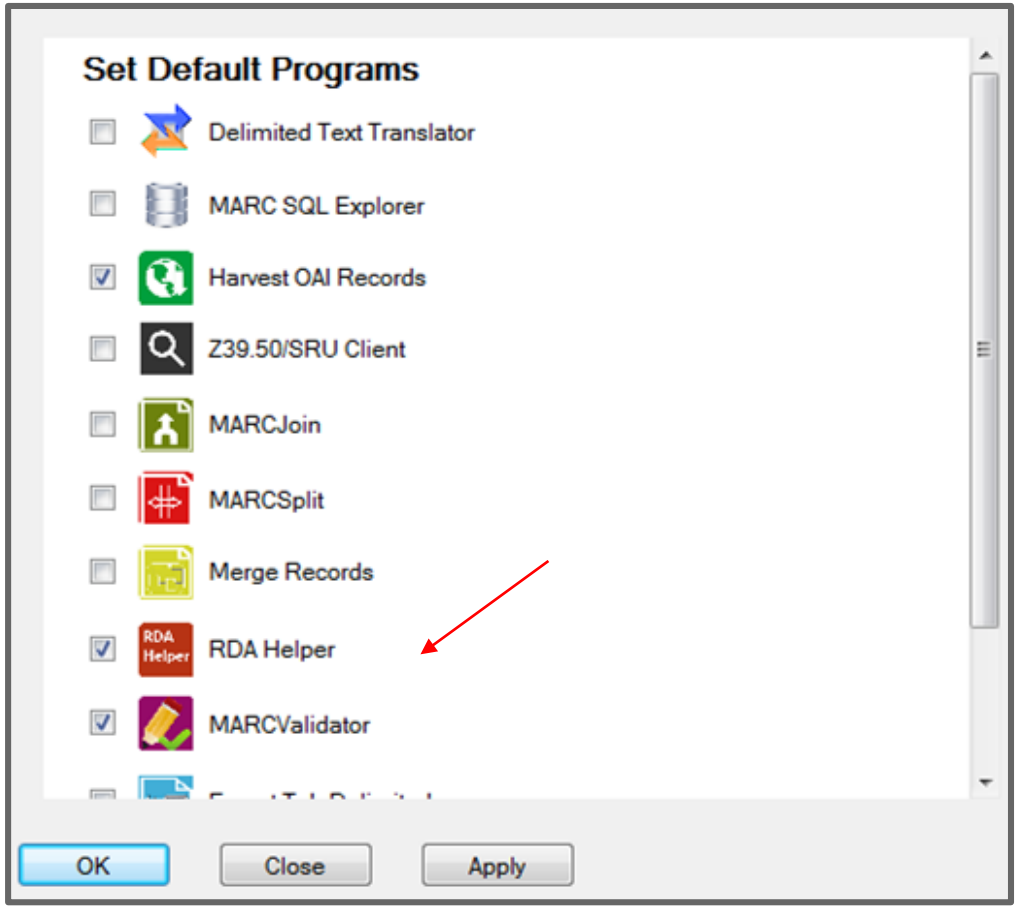
	A	B
1	**Validation Results:**	**Record #0**
2	Process completed in: 0.0424166666666667 minutes.	**Term in Record:** Smith, Ken, 1947 Aug. 14-
3	Average Response Time from LC: 0.1125	**LC Preferred Term:** Smith, Ken, 1947 August 14-
4	Total Records: 5	URL: http://id.loc.gov/authorities/names/n2004032311
5	**Records with Invalid Headings:** 5	
6	**********	**Record #1**
7	**1xx Headings Found:** 0	**Term in Record:** Slote, Michael A.
8	6xx Headings Found: 15	**LC Preferred Term:** Slote, Michael, 1941-
9	7xx Headings Found: 3	URL: http://id.loc.gov/authorities/names/n82210473
10	**********	
11	**1xx Headings Not Found:** 0	**Record #2**
12	6xx Headings Not Found: 2	**Term in Record:** pacific island americans
13	7xx Headings Not Found: 2	**LC Preferred Term:** Pacific Islander Americans
14	**********	URL: http://id.loc.gov/authorities/subjects/sh85093915
15	**1xx Variants Found:** 0	Heading not found for: Pacific Island Americans in literature
16	6xx Variants Found: 1	
17	7xx Variants Found: 2	**Record #3**
18	**********	**Heading not found for:** Martin, Randy, 1957-
19	**Total Unique Headings Queried:** 22	Heading not found for: Peterson, Victor J.
20	Found in Local Cache: 2	
21	**********	**Record #4**
22		**Heading not found for:** Eating customs

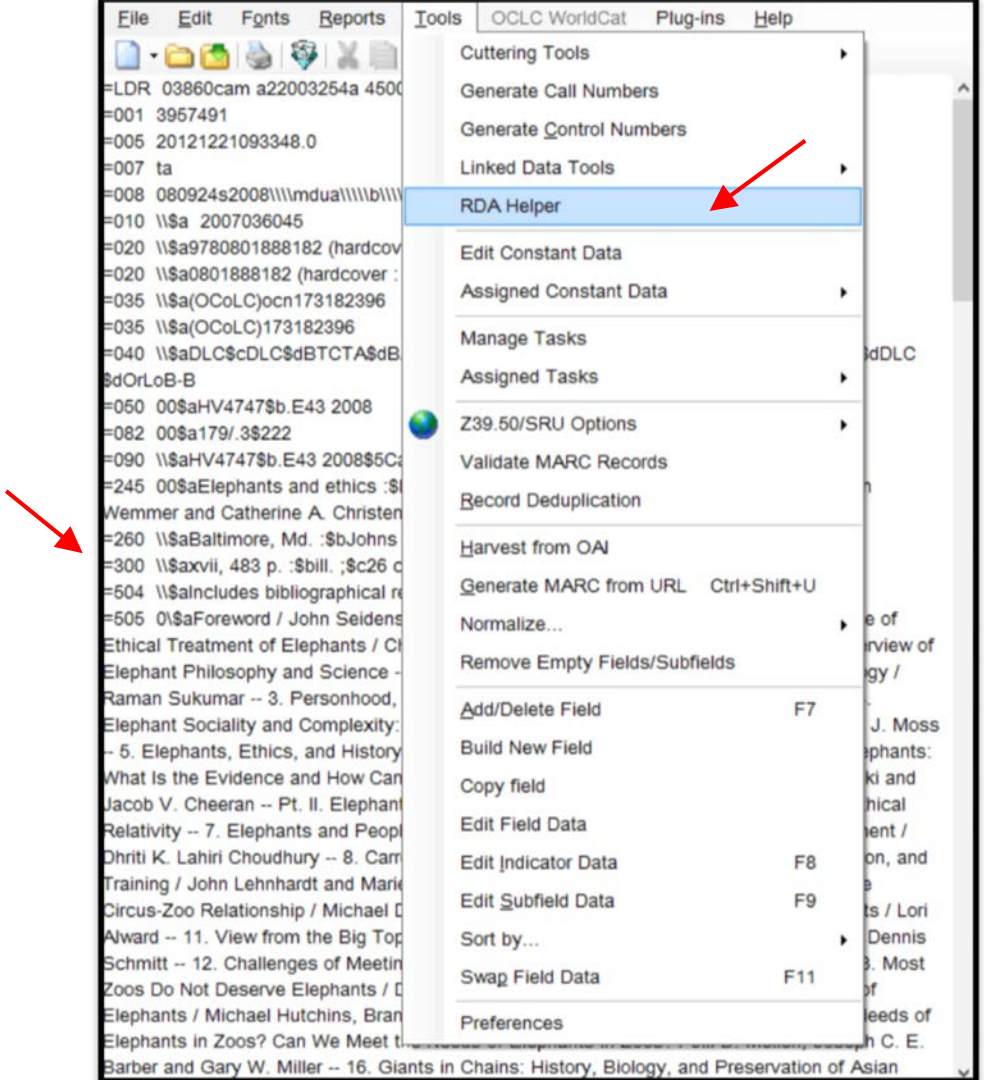
Advanced MarcEdit

- RDA Helper
- Regular Expressions
- Task Manager
- Mapping to different formats
- MARCNext
    - BIBFRAME
    - Linked Identifiers

RDA Helper

- RDA specific data automatically generated
- based on the coded data
    - LDR/007/008
- analysis of certain fields
    - GMD
    - 300
    - 130
    - 240




File
Edit
Fonts
Reports
Tools
OCLC WorldCat
Plug-ins
Help
Cuttering Tools
Generate Call Numbers
Generate Control Numbers
Linked Data Tools
RDA Helper
Edit Constant Data
Assigned Constant Data
Manage Tasks
Assigned Tasks
Z39.50/SRU Options
Validate MARC Records
Record Deduplication
Harvest from OAI
Generate MARC from URL Ctrl+Shift+U
Normalize...
Remove Empty Fields/Subfields
Add/Delete Field F7
Build New Field
Copy field
Edit Field Data
Edit Indicator Data F8
Edit Subfield Data F9
Sort by...
Swap Field Data F11
Preferences
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=001 3957491
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=010 \\$a 2007036045
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=245 00$aElephants and ethics :$
Wemmer and Catherine A. Christen
=260 \\$aBaltimore, Md. :$bJohns
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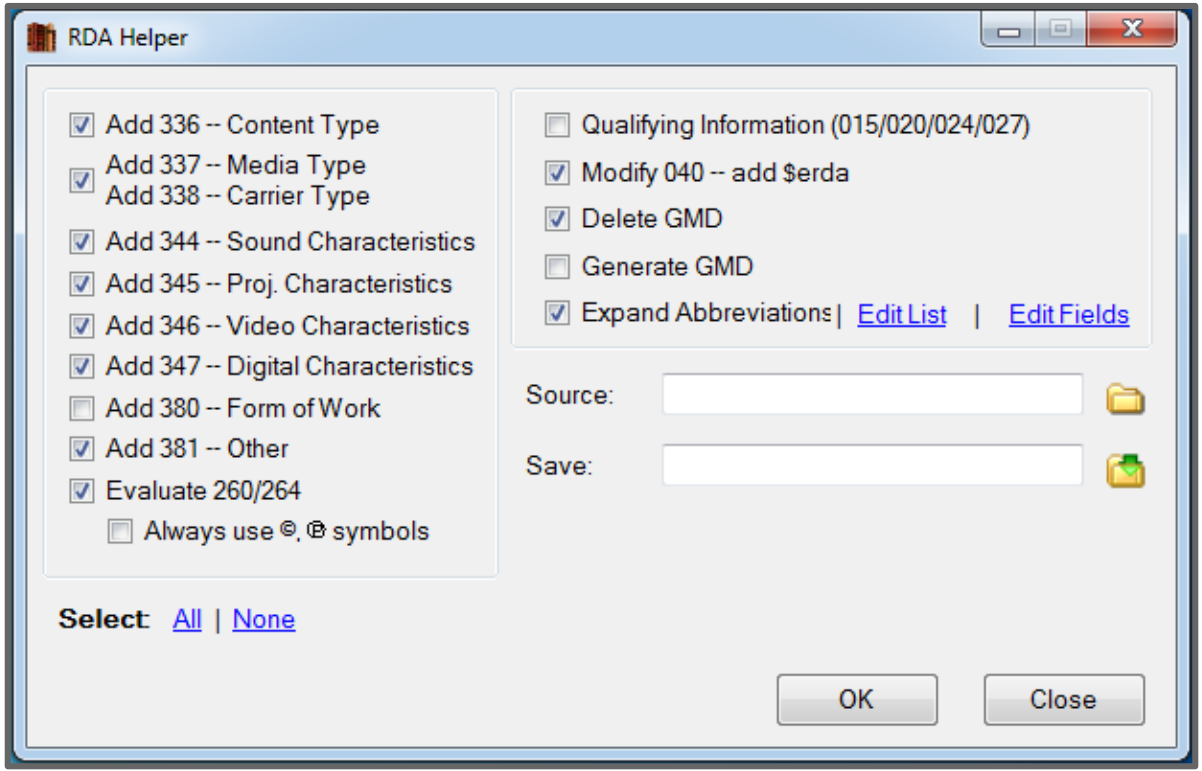
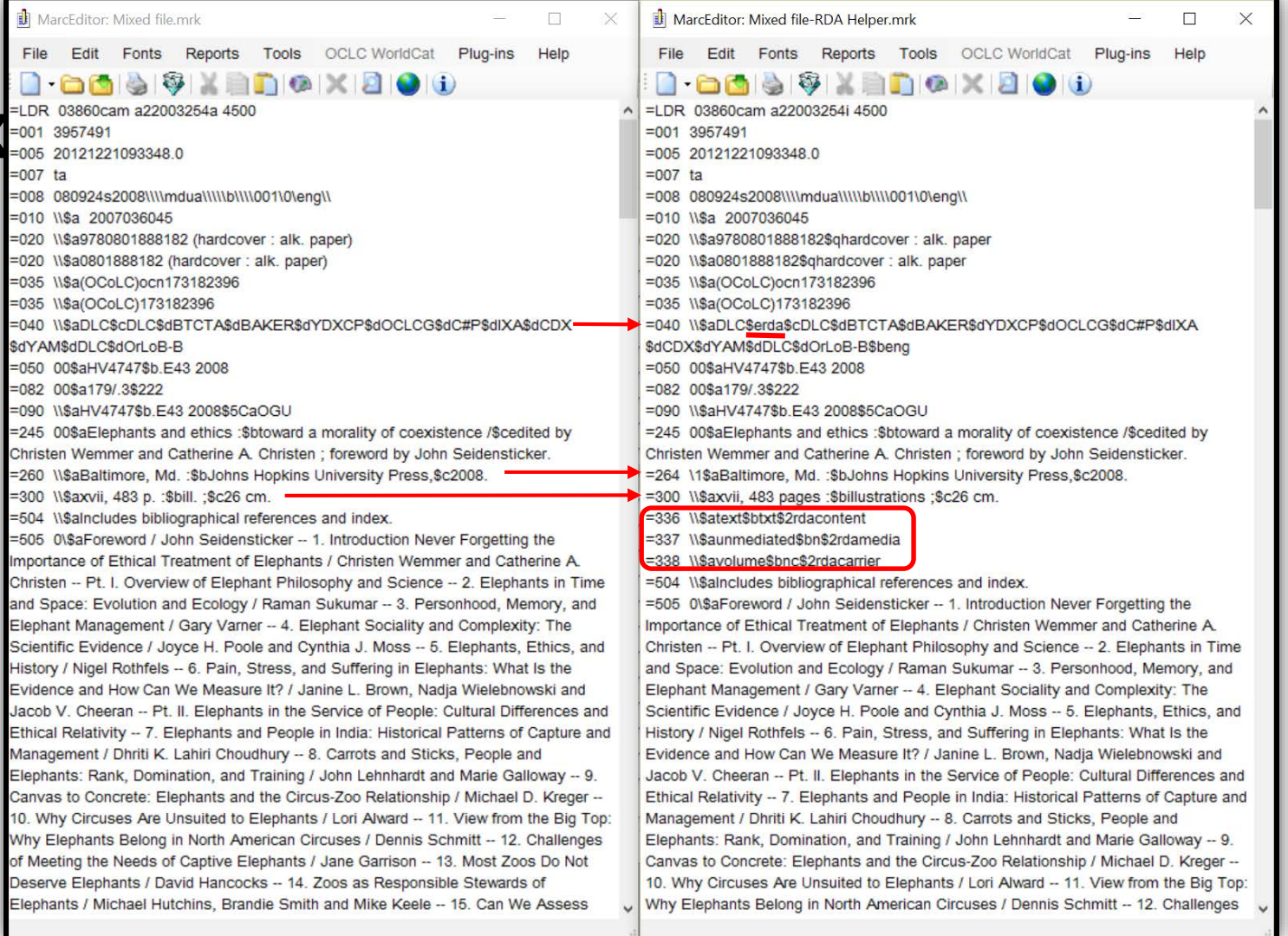
=504 \\$aIncludes bibliographical re
=505 0\$aForeword / John Seidens
Ethical Treatment of Elephants / Ch
Elephant Philosophy and Science -
Raman Sukumar -- 3. Personhood,
Elephant Sociality and Complexity:
-- 5. Elephants, Ethics, and History
What Is the Evidence and How Can
Jacob V. Cheeran -- Pt. II. Elephant
Relativity -- 7. Elephants and Peopl
Dhriti K. Lahiri Choudhury -- 8. Carr
Training / John Lehnhardt and Marie
Circus-Zoo Relationship / Michael D
Award -- 11. View from the Big Top
Schmitt -- 12. Challenges of Meetin
Zoos Do Not Deserve Elephants / D
Elephants / Michael Hutchins, Bran
Elephants in Zoos? Can We Meet t
Barber and Gary W. Miller -- 16. Giants in Chains: History, Biology, and Preservation of Asian

RDA Helper


RDA Helper
Add 336 -- Content Type
Add 337 -- Media Type
Add 338 -- Carrier Type
Add 344 -- Sound Characteristics
Add 345 -- Proj. Characteristics
Add 346 -- Video Characteristics
Add 347 -- Digital Characteristics
Add 380 -- Form of Work
Add 381 -- Other
Evaluate 260/264
Always use ©, ℗ symbols
Select: All | None
Qualifying Information (015/020/024/027)
Modify 040 -- add $erda
Delete GMD
Generate GMD
Expand Abbreviations | Edit List | Edit Fields
Source:
Save:
OK
Close

Ex



MarcEditor: Mixed file.mrk

File Edit Fonts Reports Tools OCLC WorldCat Plug-ins Help

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=005  20121221093348.0
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Christen Wemmer and Catherine A. Christen ; foreword by John Seidensticker.
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=504  \\$aIncludes bibliographical references and index.
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Importance of Ethical Treatment of Elephants / Christen Wemmer and Catherine A.
Christen -- Pt. I. Overview of Elephant Philosophy and Science -- 2. Elephants in Time
and Space: Evolution and Ecology / Raman Sukumar -- 3. Personhood, Memory, and
Elephant Management / Gary Varner -- 4. Elephant Sociality and Complexity: The
Scientific Evidence / Joyce H. Poole and Cynthia J. Moss -- 5. Elephants, Ethics, and
History / Nigel Rothfels -- 6. Pain, Stress, and Suffering in Elephants: What Is the
Evidence and How Can We Measure It? / Janine L. Brown, Nadja Wielebnowski and
Jacob V. Cheeran -- Pt. II. Elephants in the Service of People: Cultural Differences and
Ethical Relativity -- 7. Elephants and People in India: Historical Patterns of Capture and
Management / Dhriti K. Lahiri Choudhury -- 8. Carrots and Sticks, People and
Elephants: Rank, Domination, and Training / John Lehnhardt and Marie Galloway -- 9.
Canvas to Concrete: Elephants and the Circus-Zoo Relationship / Michael D. Kreger --
10. Why Circuses Are Unsuited to Elephants / Lori Alward -- 11. View from the Big Top:
Why Elephants Belong in North American Circuses / Dennis Schmitt -- 12. Challenges
of Meeting the Needs of Captive Elephants / Jane Garrison -- 13. Most Zoos Do Not
Deserve Elephants / David Hancocks -- 14. Zoos as Responsible Stewards of
Elephants / Michael Hutchins, Brandie Smith and Mike Keele -- 15. Can We Assess
```

MarcEditor: Mixed file-RDA Helper.mrk

File Edit Fonts Reports Tools OCLC WorldCat Plug-ins Help

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Christen Wemmer and Catherine A. Christen ; foreword by John Seidensticker.
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=504  \\$aIncludes bibliographical references and index.
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Importance of Ethical Treatment of Elephants / Christen Wemmer and Catherine A.
Christen -- Pt. I. Overview of Elephant Philosophy and Science -- 2. Elephants in Time
and Space: Evolution and Ecology / Raman Sukumar -- 3. Personhood, Memory, and
Elephant Management / Gary Varner -- 4. Elephant Sociality and Complexity: The
Scientific Evidence / Joyce H. Poole and Cynthia J. Moss -- 5. Elephants, Ethics, and
History / Nigel Rothfels -- 6. Pain, Stress, and Suffering in Elephants: What Is the
Evidence and How Can We Measure It? / Janine L. Brown, Nadja Wielebnowski and
Jacob V. Cheeran -- Pt. II. Elephants in the Service of People: Cultural Differences and
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Canvas to Concrete: Elephants and the Circus-Zoo Relationship / Michael D. Kreger --
10. Why Circuses Are Unsuited to Elephants / Lori Alward -- 11. View from the Big Top:
Why Elephants Belong in North American Circuses / Dennis Schmitt -- 12. Challenges
```

Regular Expressions

- What is a regular expression
- MarcEdit functions supported
- Major components of the language
- Getting regular expressions help
- Express yourself with regex

Regular Expression

“A regular expression (regex or regexp for short) is a special text string for describing a search pattern. You can think of regular expressions as wildcards on steroids”.

```
\b[A-Z0-9._%+-]+@[A-Z0-9.-]+\.[A-Z]{2,4}\b
```

http://www.regular-expressions.info/

MarcEdit Regex Support

Extract / Delete

Find / Replace

Delete Field

Edit Subfield

MarcEdit remembers the last 10 replacements

Special Undo function that will undo your last global update

Regex Literal Characters

backslash \

caret ^

dollar sign $

period or dot .

vertical bar or pipe symbol |

question mark ?

plus sign +

opening parenthesis (

closing parenthesis)

opening square bracket [

opening curly brace {

asterisk or star *

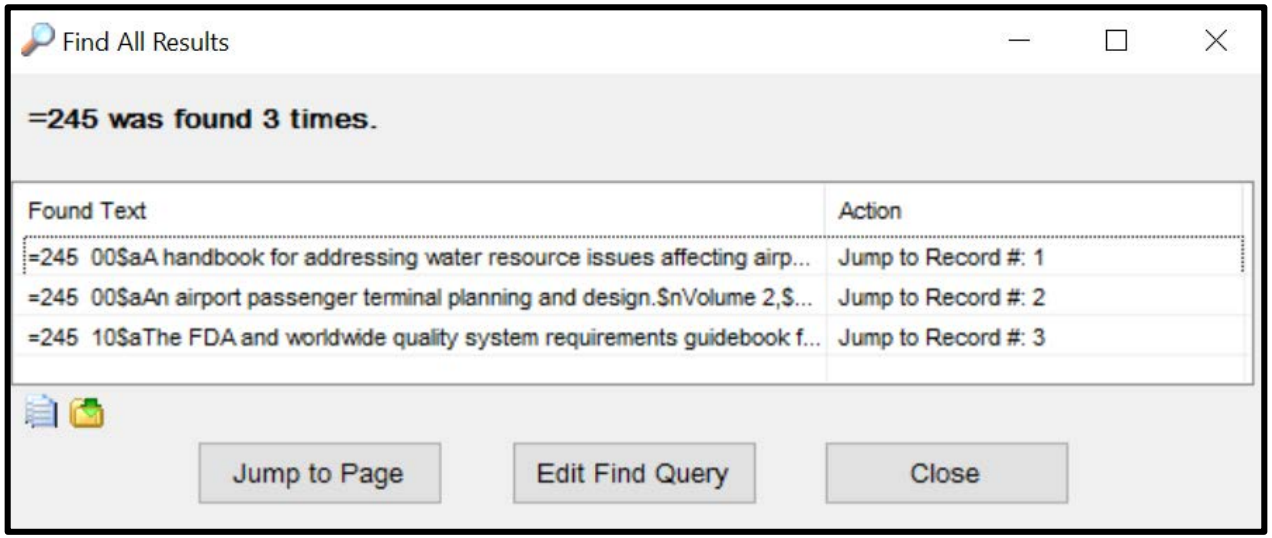
Components of Regex

Examples		
Groups and ranges	[ ] [^]	explicit set of characters to match [0-9], [a-z], [A-Z]
	( )	logical grouping of part of an expression (abc)
	{ }	explicit quantifier notation ab{2}c = abbc
Character classes	\w	matches any word character
	\d	matches any decimal digit

Metacharacters Examples

Metacharacters Defined		Metacharacter Examples	
^	start of string	^abc	abc, abcdef, abc123
$	end of string	abc$	abc, defabc, 123abc
.	any character	a.c	abc, axc, amc, a3c
*	0 or more previous character	ab*c	ac, abc, abbc, abbbc
.*	any sequence of characters	a.*c	ac, axxc, amdc, amvfc
[aeiou]	matches any single character included in the specified set		
[^aeiou]	matches any single character NOT specified in the set		

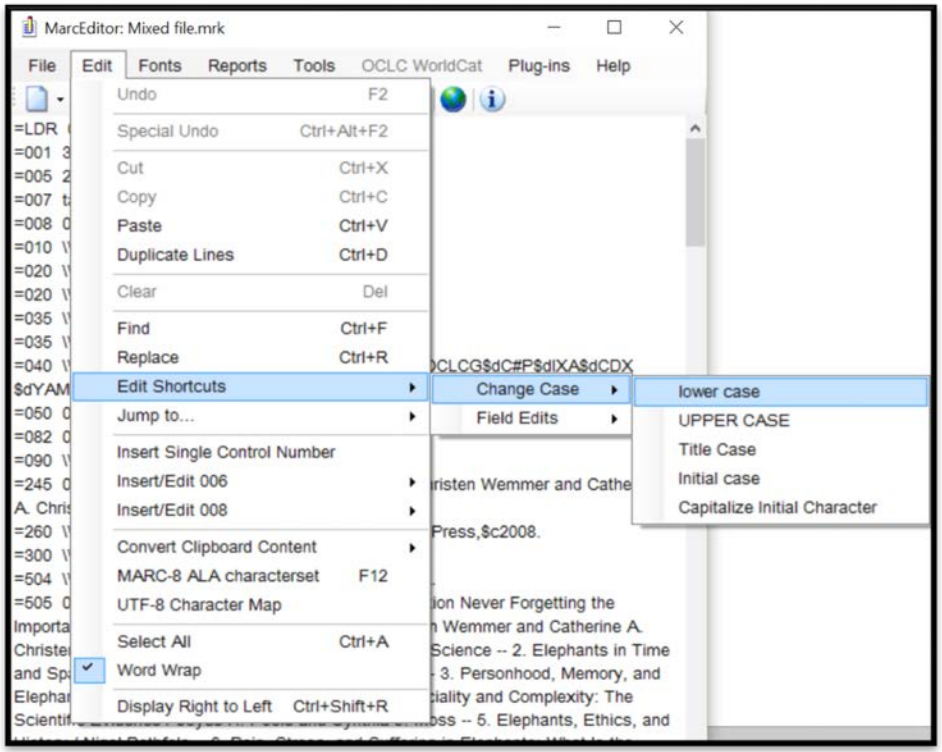
Regex Examples



Find	Replace with
(=245 .)0(\$aA)	${1}2$2
(=245 .)0(\$aAn)	${1}3$2
(=245 .)0(\$aThe)	${1}4$2

Regex Examples

=245 10 $aELEPHANTS AND ETHICS



Regex Examples

=245 10 $aELEPHANTS AND ETHICS

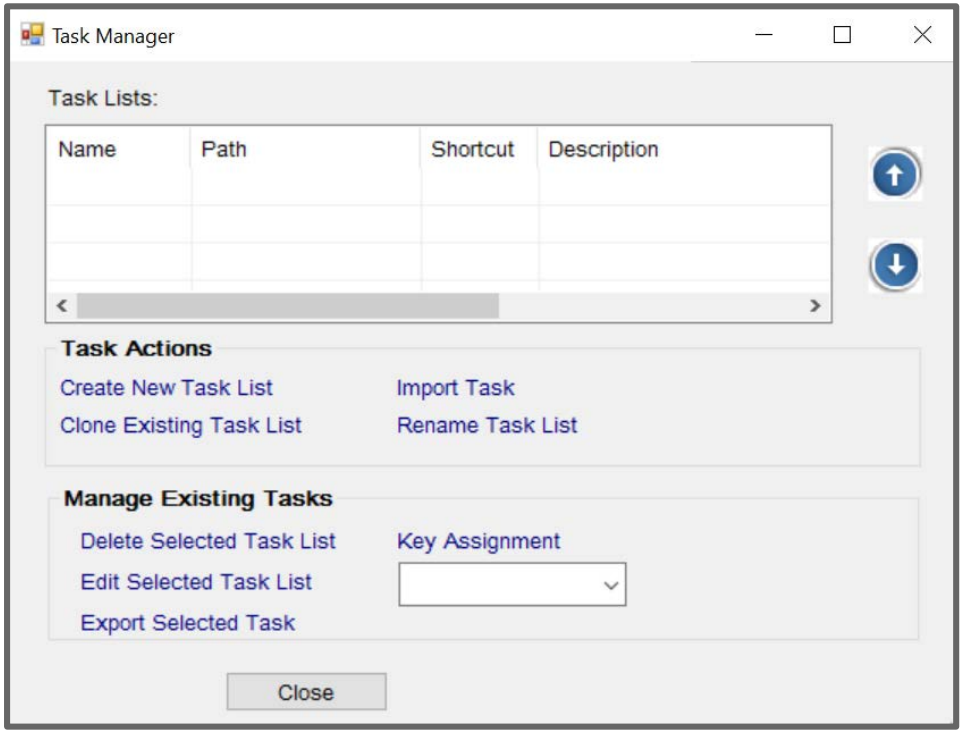
Find What	(=245.{4})(\$a.)([A-Z .]*)
Replace With	$1$2lcase($3)

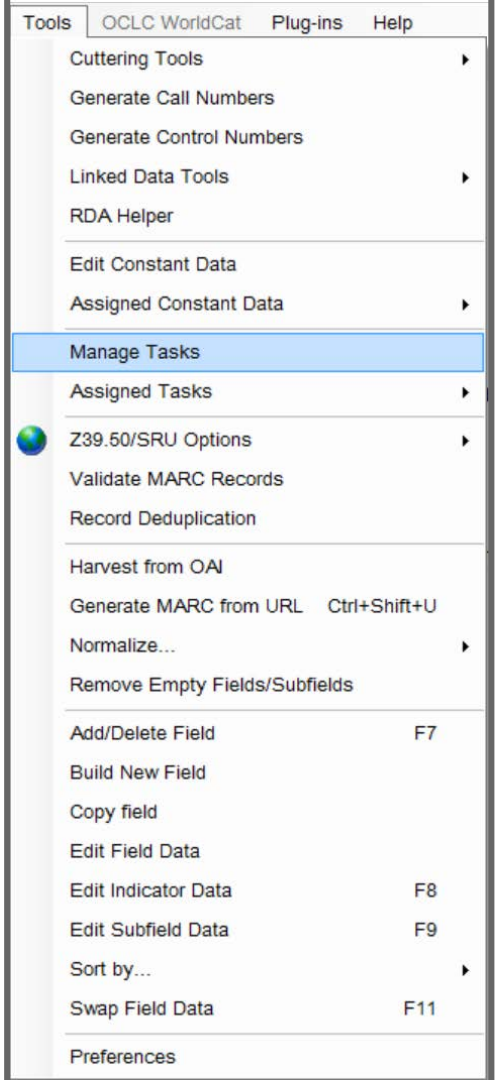
Task Manager

- Provides a way to create defined task lists executed automatically
- Anything done in the MarcEditor, you can automate as task
- Chains task lists together
- Performs the tasks procedurally

Task Manager

- You can:
  - Create new tasks
  - Clone tasks
  - Rename tasks
  - Delete tasks
  - Edit tasks
  - Share tasks
    - import
    - export
  - Key assignment



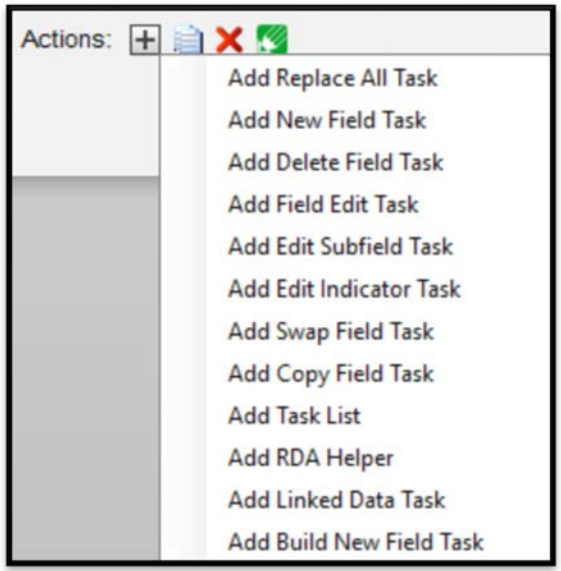


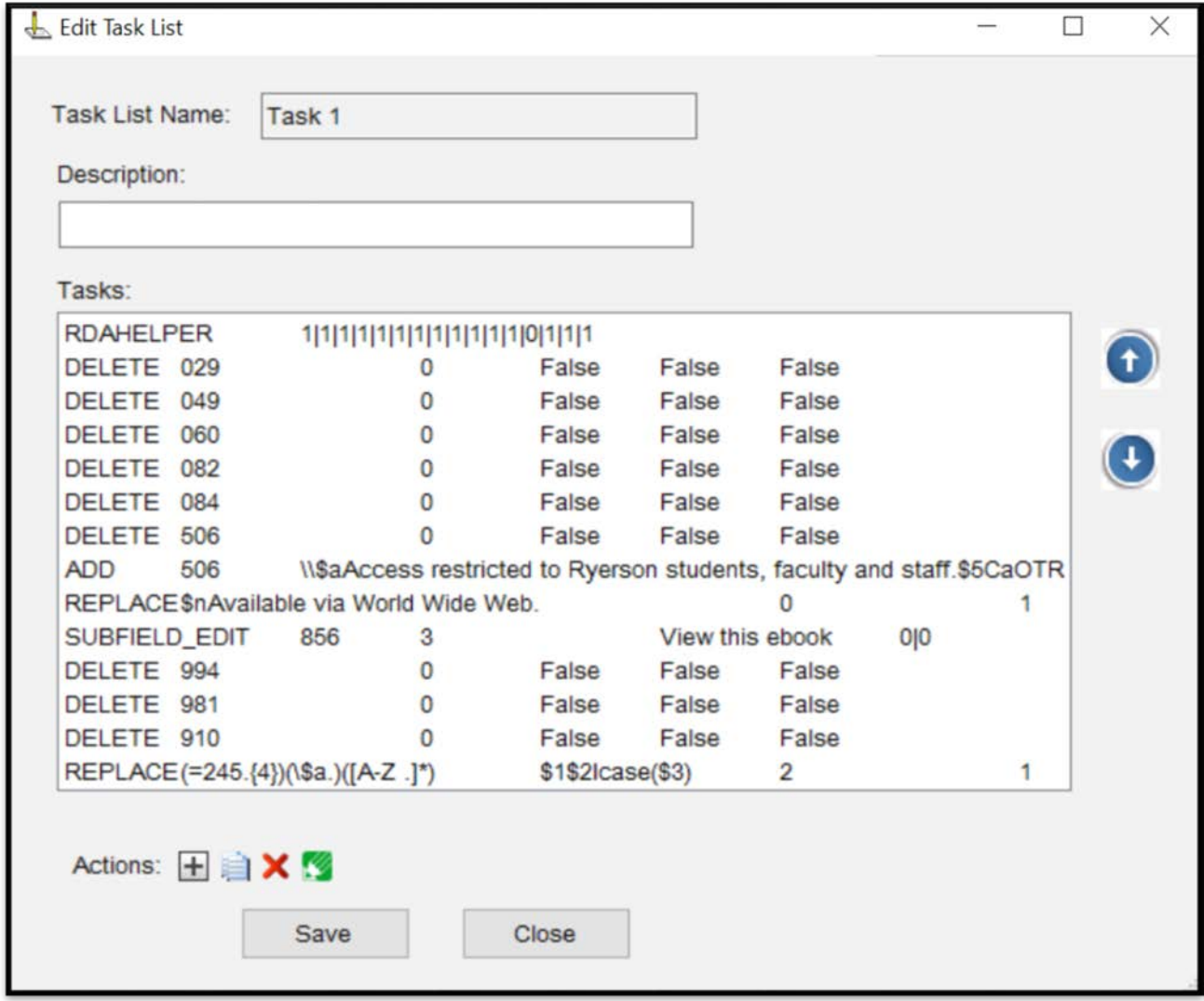
Task Manager

Demo

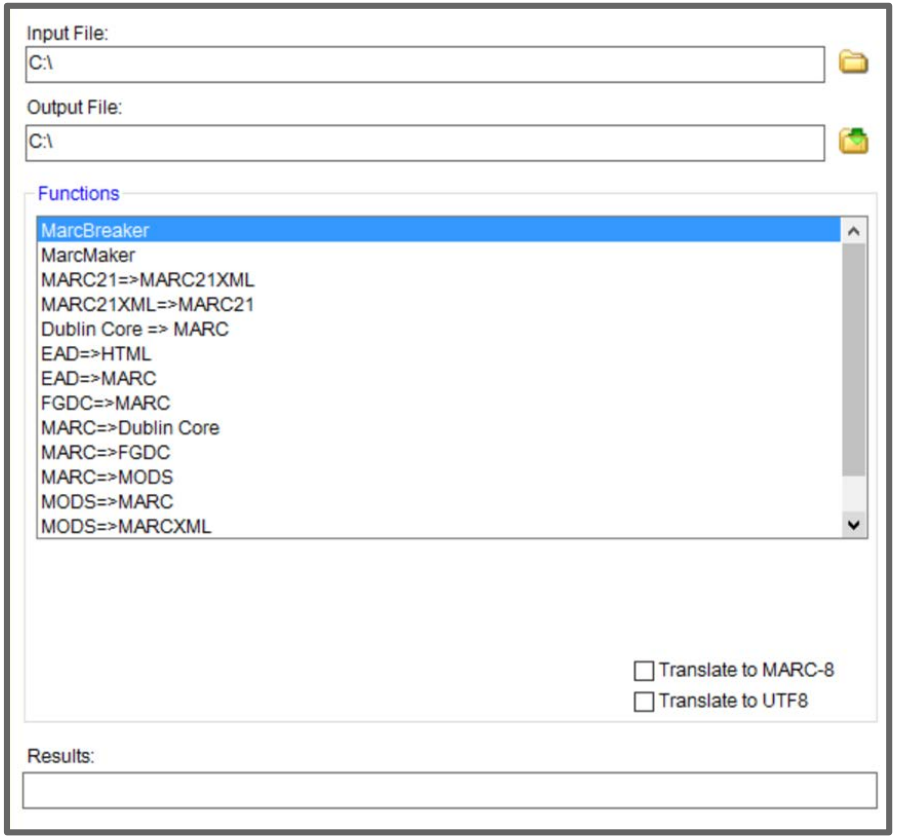
Task Manager

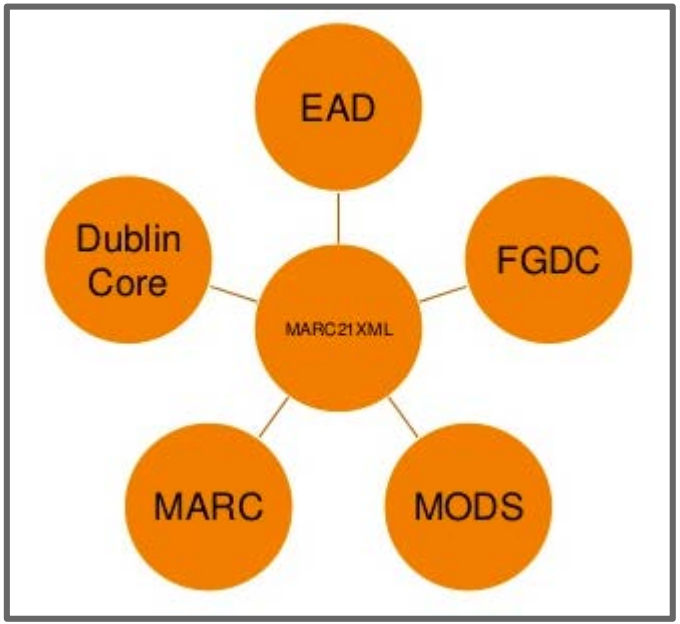
add a new task

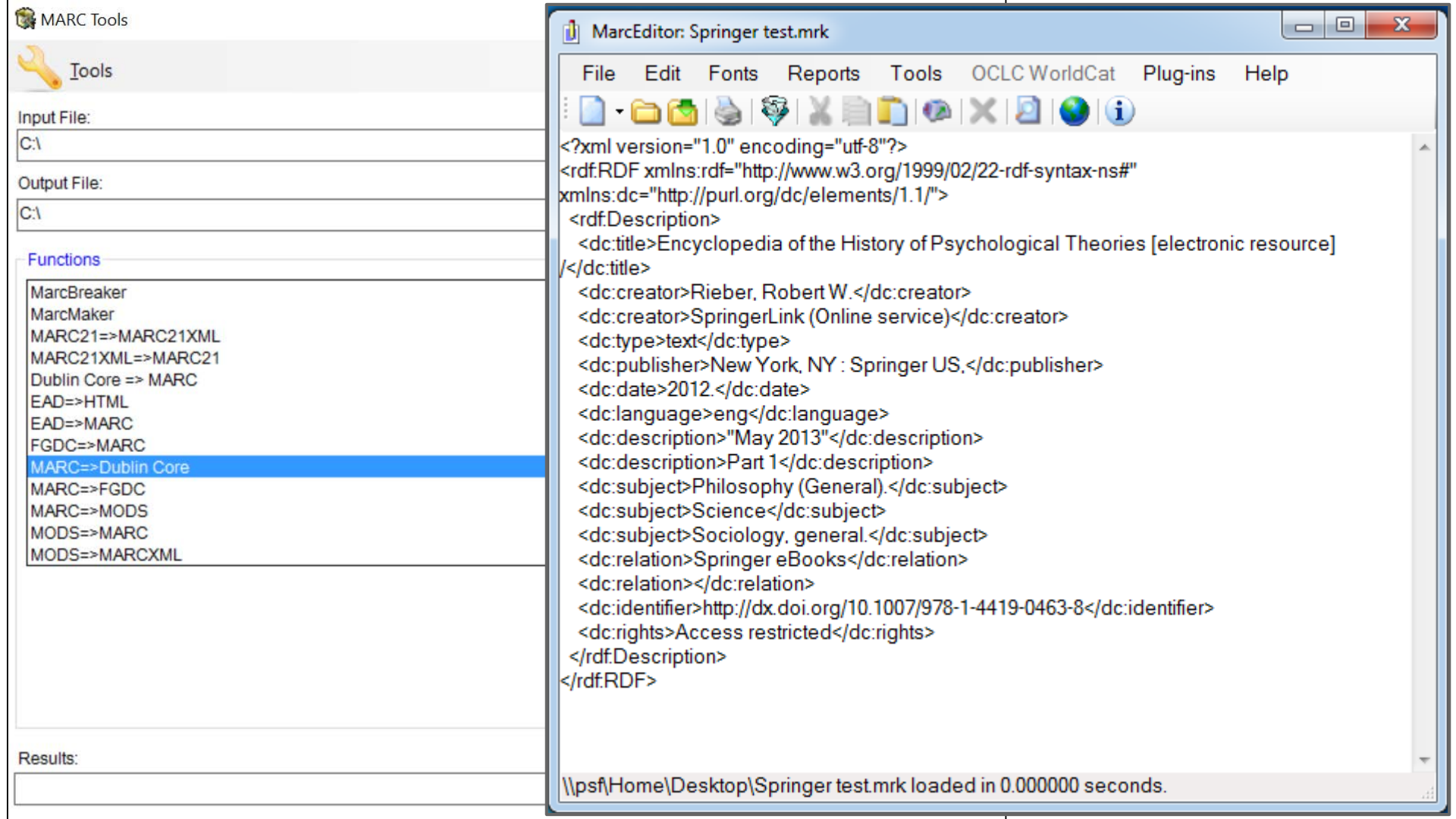




Mapping to Different Formats






MARC Tools
Tools
Input File:
C:\
Output File:
C:\
Functions
MarcBreaker
MarcMaker
MARC21=>MARC21XML
MARC21XML=>MARC21
Dublin Core => MARC
EAD=>HTML
EAD=>MARC
FGDC=>MARC
MARC=>Dublin Core
MARC=>FGDC
MARC=>MODS
MODS=>MARC
MODS=>MARCXML
Results:
MarcEditor: Springer test.mrk
File Edit Fonts Reports Tools OCLC WorldCat Plug-ins Help
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/</dc:title>
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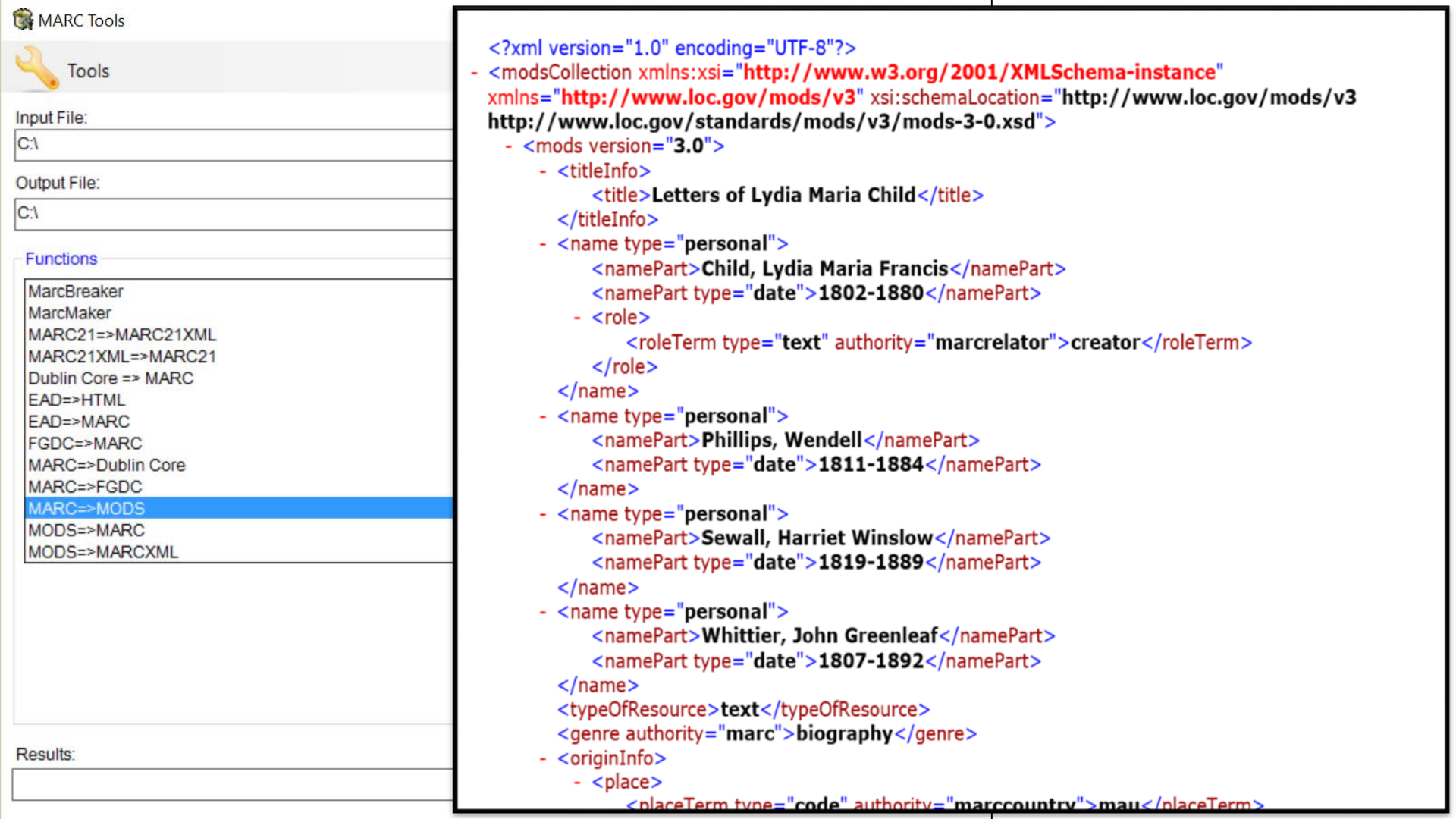
MARC Tools
Tools
Input File:
C:\
Output File:
C:\
Functions
MarcBreaker
MarcMaker
MARC21=>MARC21XML
MARC21XML=>MARC21
Dublin Core => MARC
EAD=>HTML
EAD=>MARC
FGDC=>MARC
MARC=>Dublin Core
MARC=>FGDC
MARC=>MODS
MODS=>MARC
MODS=>MARCXML
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</name>
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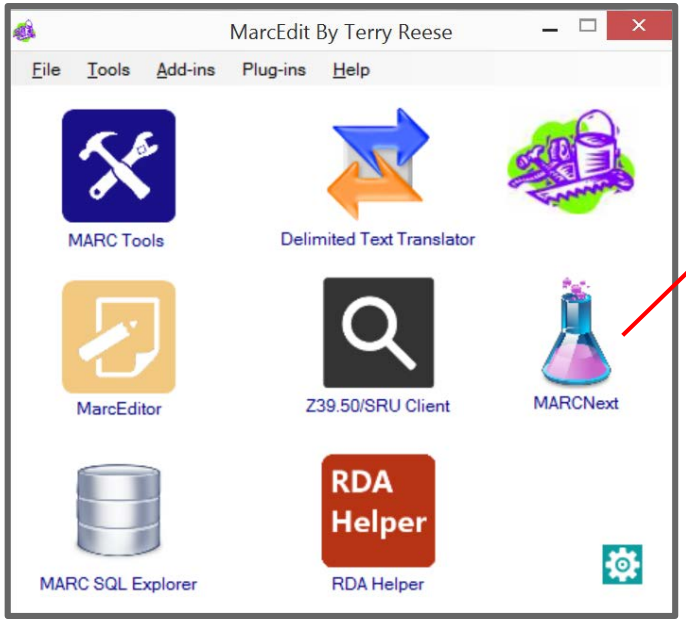
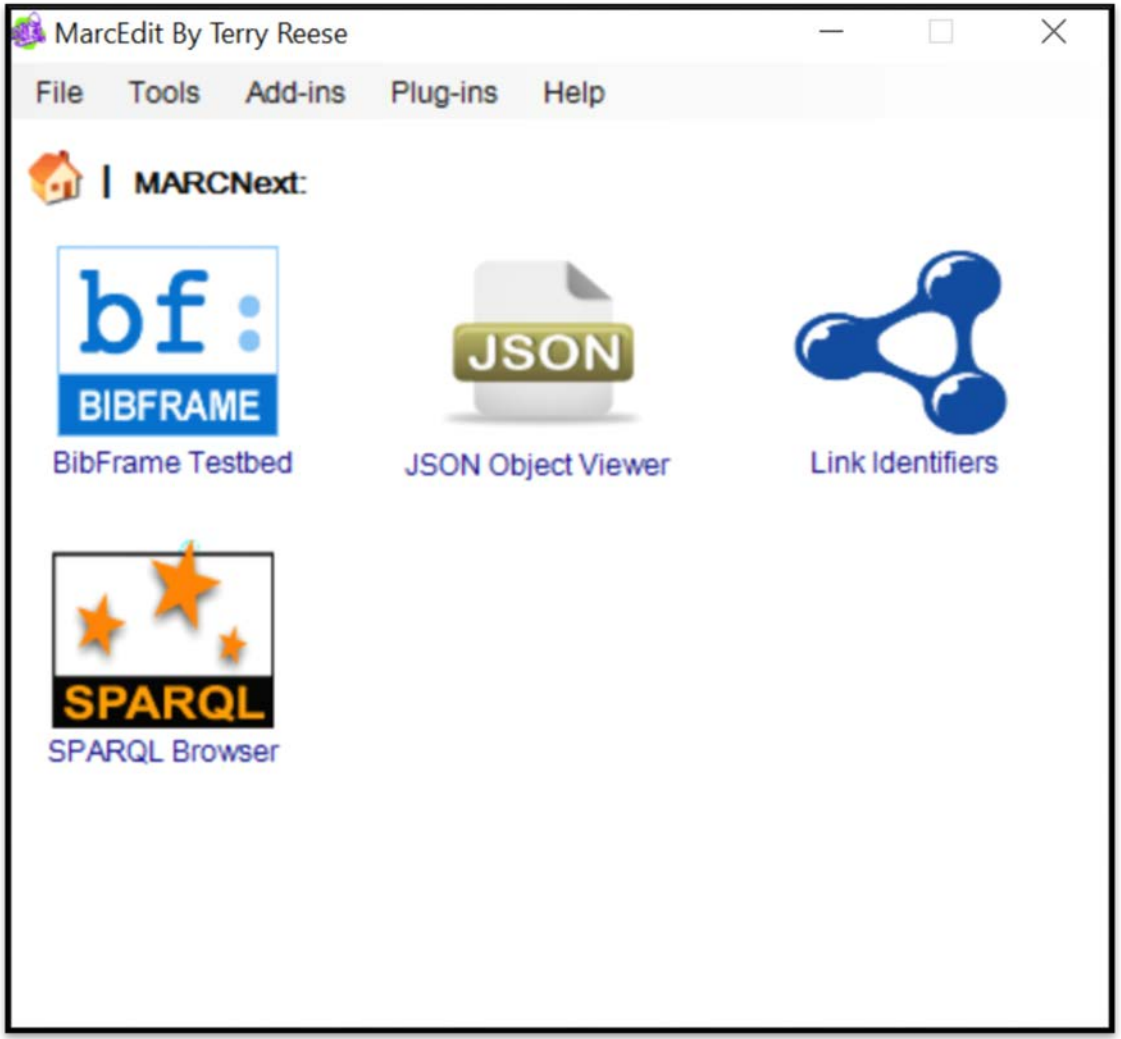
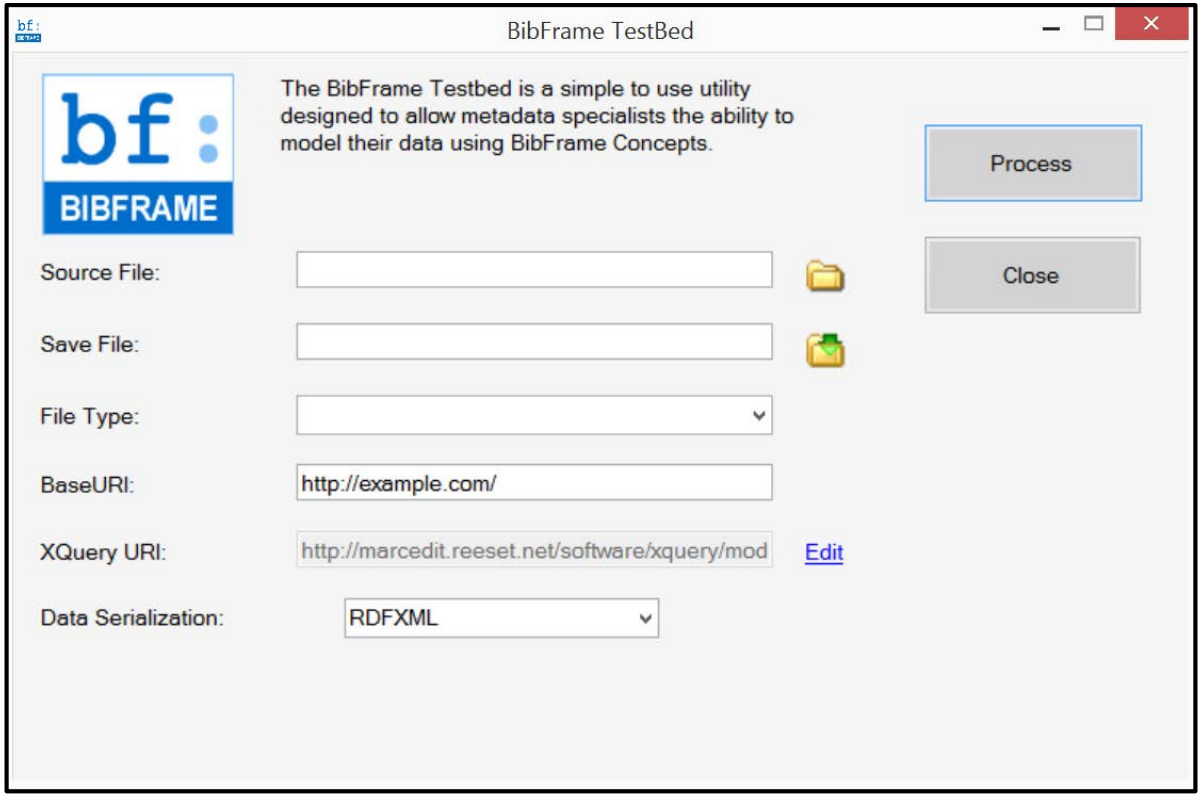
MARC Next


MarcEdit By Terry Reese
File
Tools
Add-ins
Plug-ins
Help
MARC Tools
Delimited Text Translator
MarcEditor
Z39.50/SRU Client
MARCNext
MARC SQL Explorer
RDA Helper
RDA Helper


MarcEdit By Terry Reese
File
Tools
Add-ins
Plug-ins
Help
MARCNext:
bf:
BIBFRAME
BibFrame Testbed
JSON
JSON Object Viewer
Link Identifiers
SPARQL
SPARQL Browser

MARC to BIBFRAME



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      Catharine M. Sedgwick</bf:authorizedAccessPoint>
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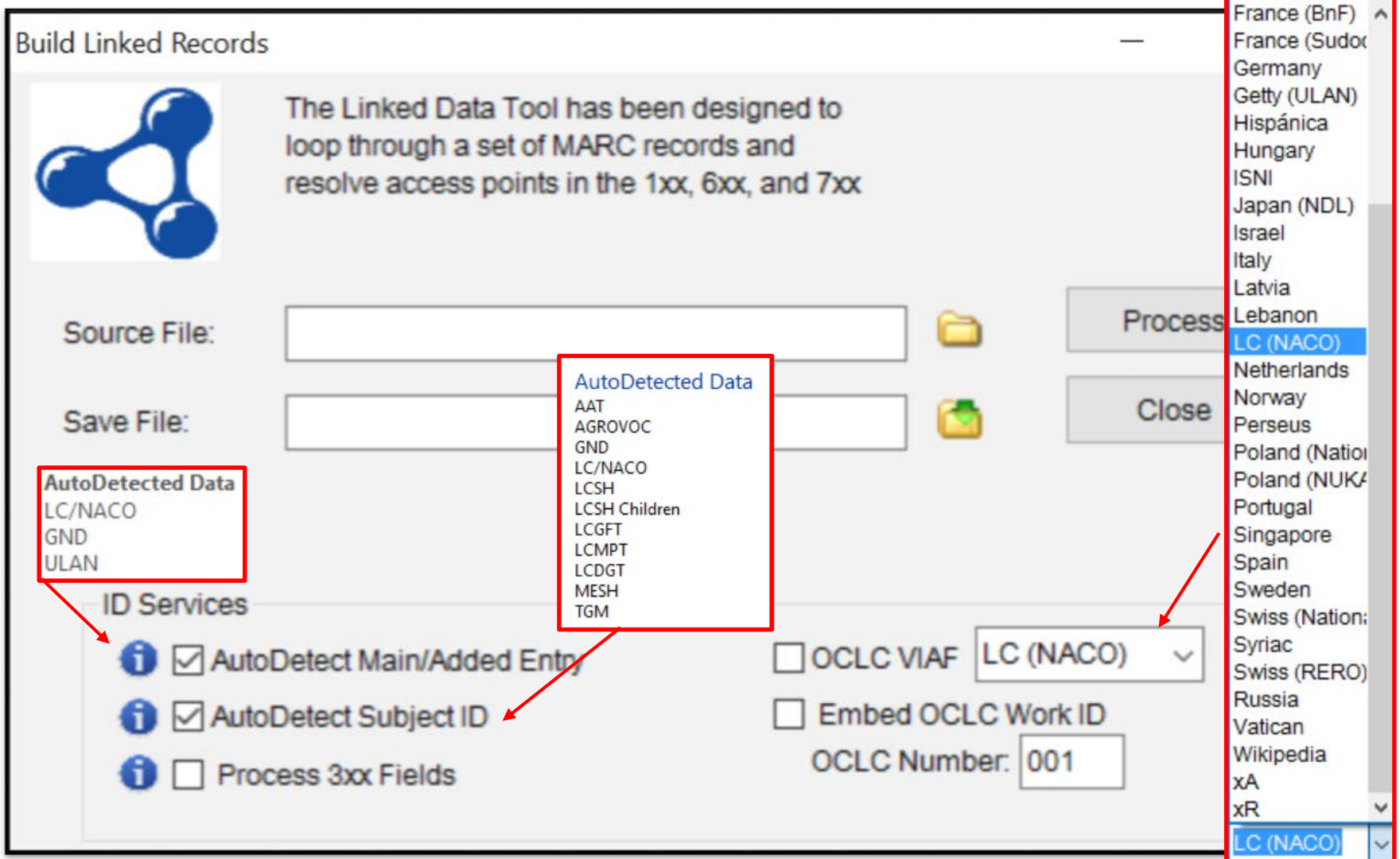
Build Linked Records
The Linked Data Tool has been designed to loop through a set of MARC records and resolve access points in the 1xx, 6xx, and 7xx
Source File:
Save File:
Process
Close
AutoDetected Data
LC/NACO
GND
ULAN
AutoDetected Data
AAT
AGROVOC
GND
LC/NACO
LCSH
LCSH Children
LCGFT
LCMPT
LCDGT
MESH
TGM
ID Services
AutoDetect Main/Added Entry
AutoDetect Subject ID
Process 3xx Fields
OCLC VIAF
LC (NACO)
Embed OCLC Work ID
OCLC Number:
001
France (BnF)
France (Sudoc
Germany
Getty (ULAN)
Hispánica
Hungary
ISNI
Japan (NDL)
Israel
Italy
Latvia
Lebanon
LC (NACO)
Netherlands
Norway
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Poland (NUKA
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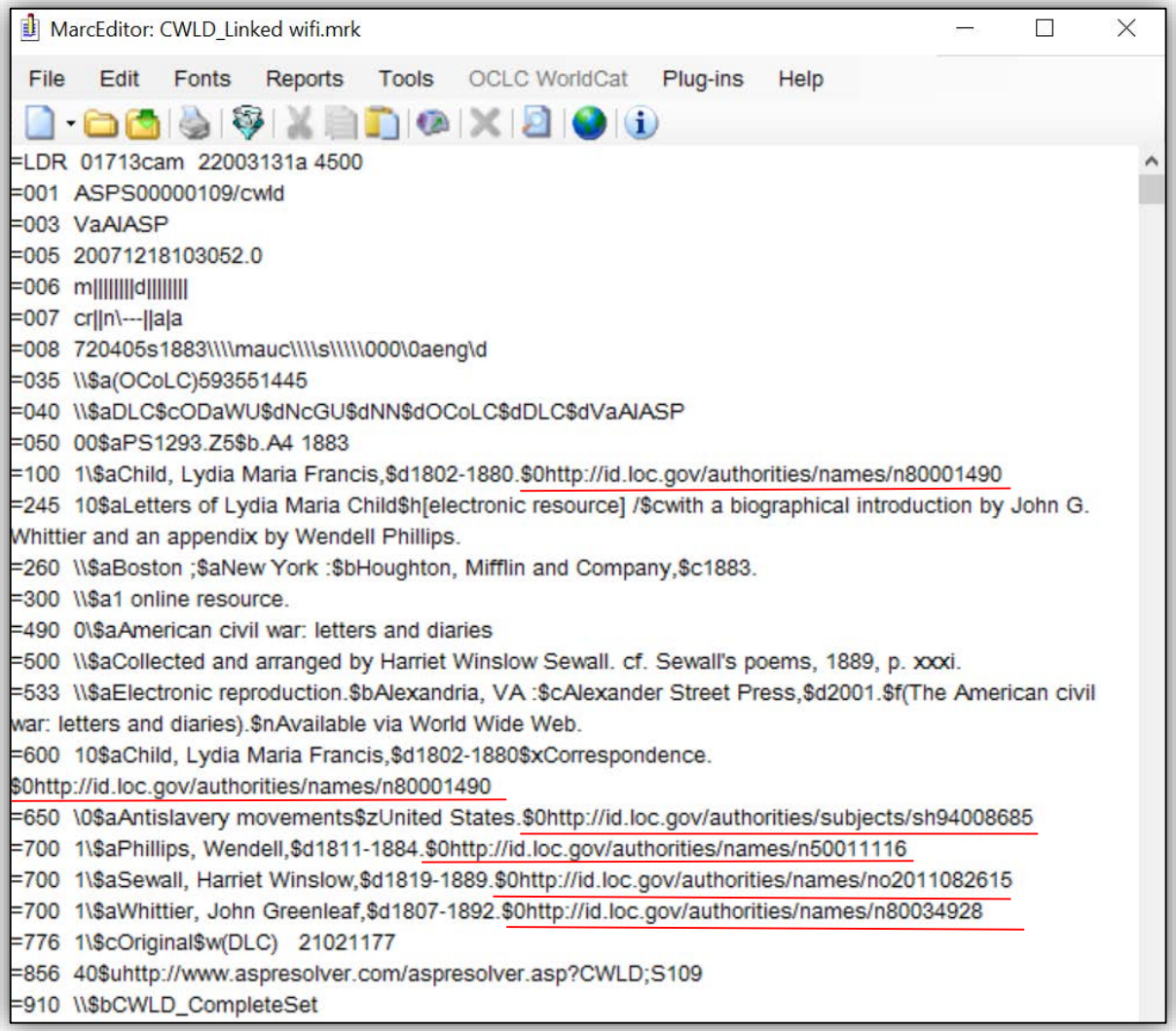
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=300 \\$a1 online resource.
=490 0\$aAmerican civil war: letters and diaries
=500 \\$aCollected and arranged by Harriet Winslow Sewall. cf. Sewall's poems, 1889, p. xxxi.
=533 \\$aElectronic reproduction.$bAlexandria, VA :$cAlexander Street Press,$d2001.$f(The American civil war: letters and diaries).$nAvailable via World Wide Web.
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Resources

MarcEdit website http://marcedit.reeset.net/

Youtube MarcEdit chanel https://www.youtube.com/user/tpreese/videos

MarcEdit Listserv https://listserv.gmu.edu/cgi-bin/wa?A0=marcedit-l

AUTOCAT Listserv https://listserv.syr.edu/scripts/wa.exe?A0=AUTOCAT

MarcEdit 101 Webinar Series http://marcedit.reeset.net/marcedit-101-workshop

Regex Help

The “premier website about regular expressions” http://www.regular-expressions.info/

Quick reference
http://msdn.microsoft.com/en-us/library/az24scfc

Regex cheatsheet
http://regexlib.com/CheatSheet.aspx
http://www.cheatography.com/davechild/cheat-sheets/regular-expressions/

THANK YOU

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