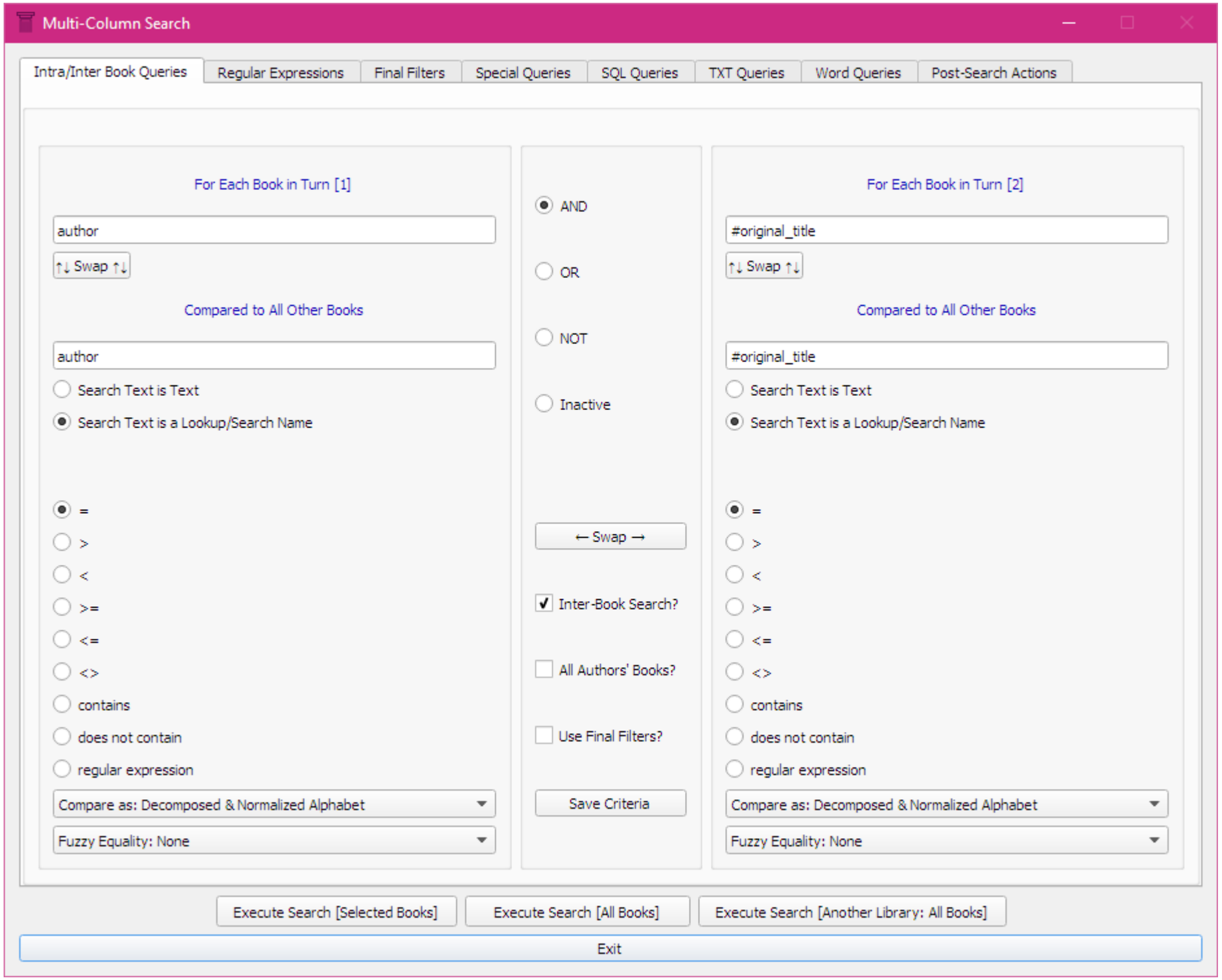
Multi-Column Search

Search Across Multiple Columns Interactively, Collectively and Simultaneously

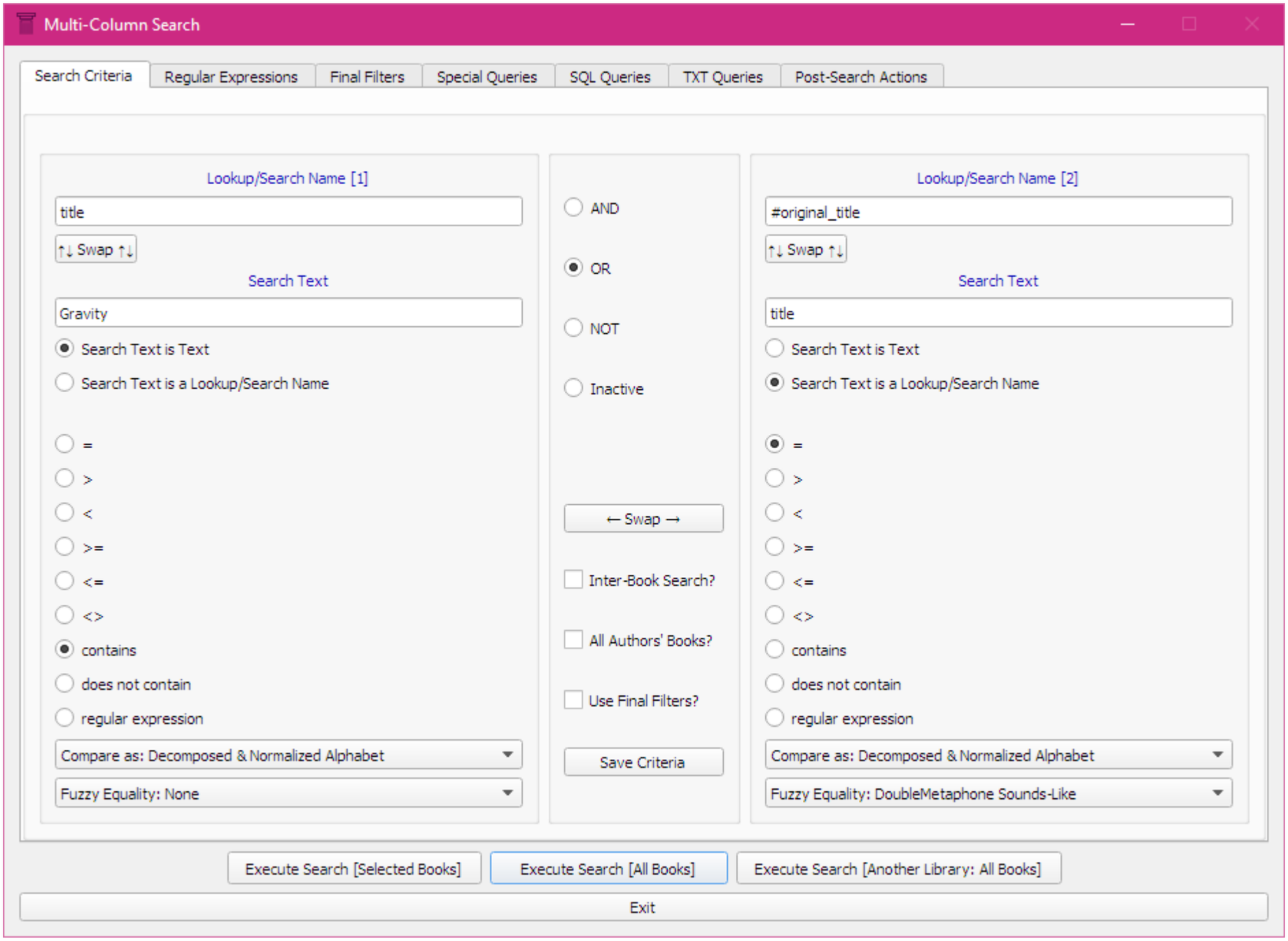
Queries May Be: Intra-Book; Inter-Book; Cross-Library; Full-Text; Word-Book Index; SQL

Example Inter-Book Search Criteria



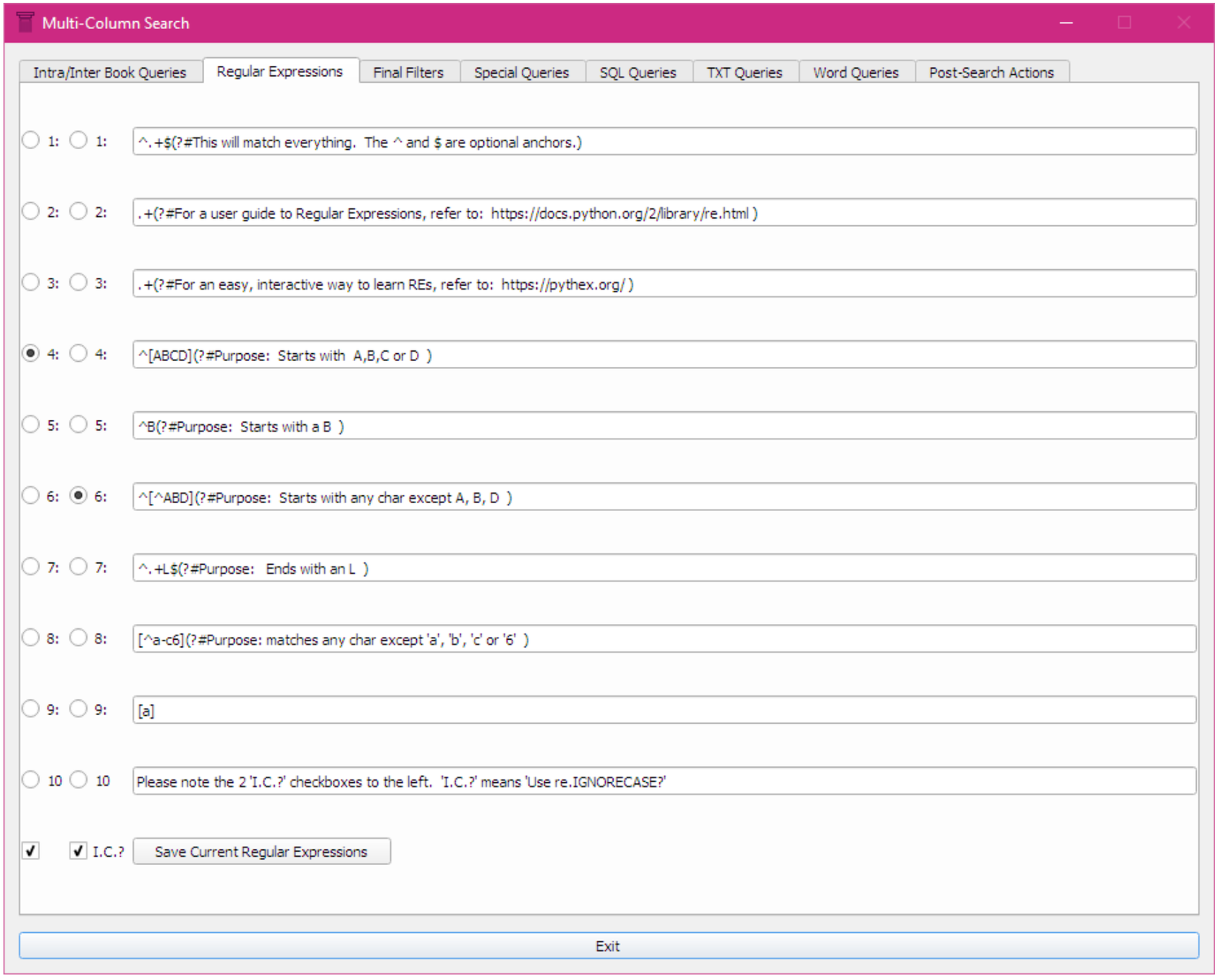
Multi-Column Search

Example Intra-Book Search Criteria



Multi-Column Search

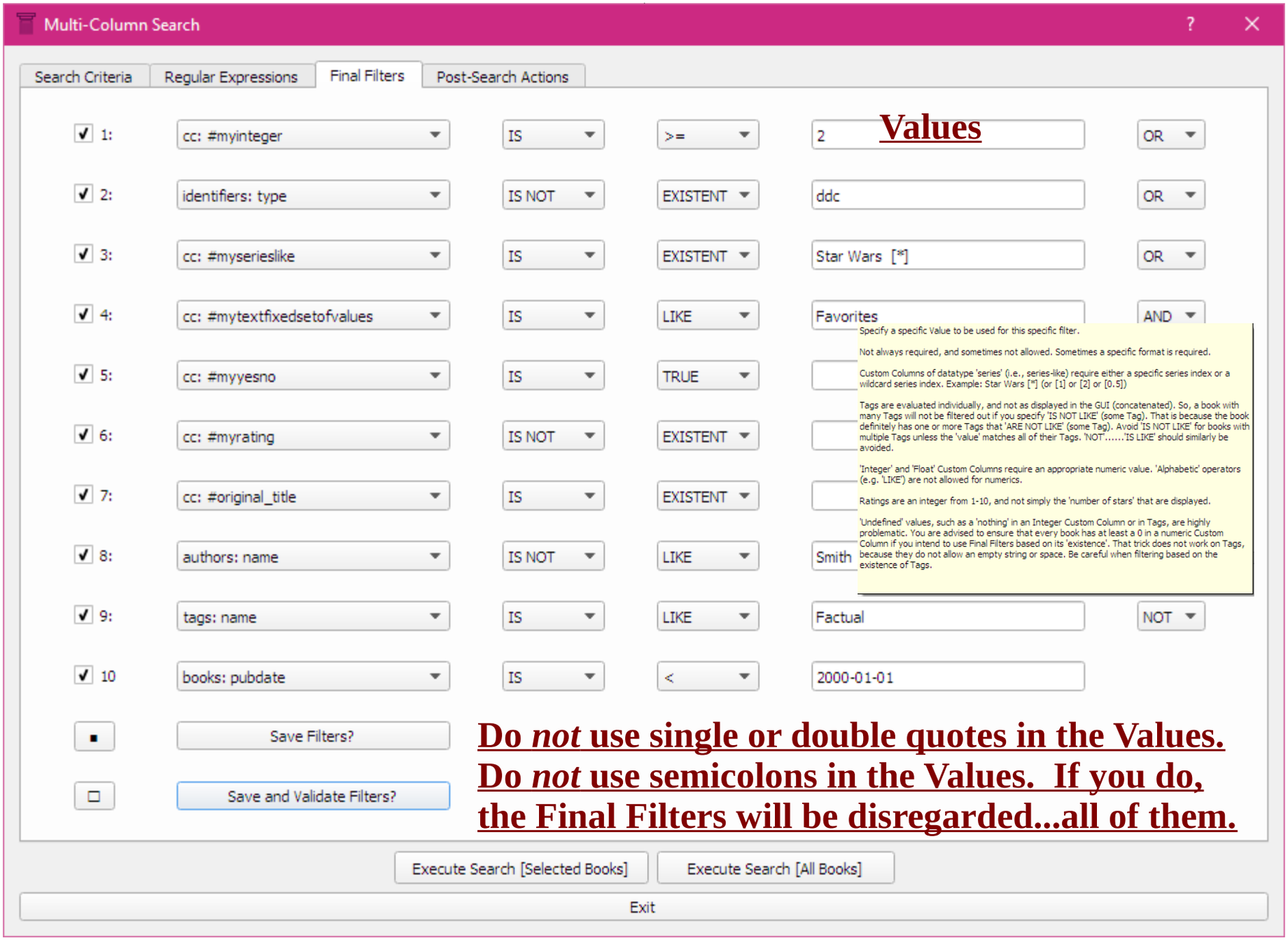
Example Regular Expressions for Search Criteria



I.C. = “Ignore Case”

Multi-Column Search

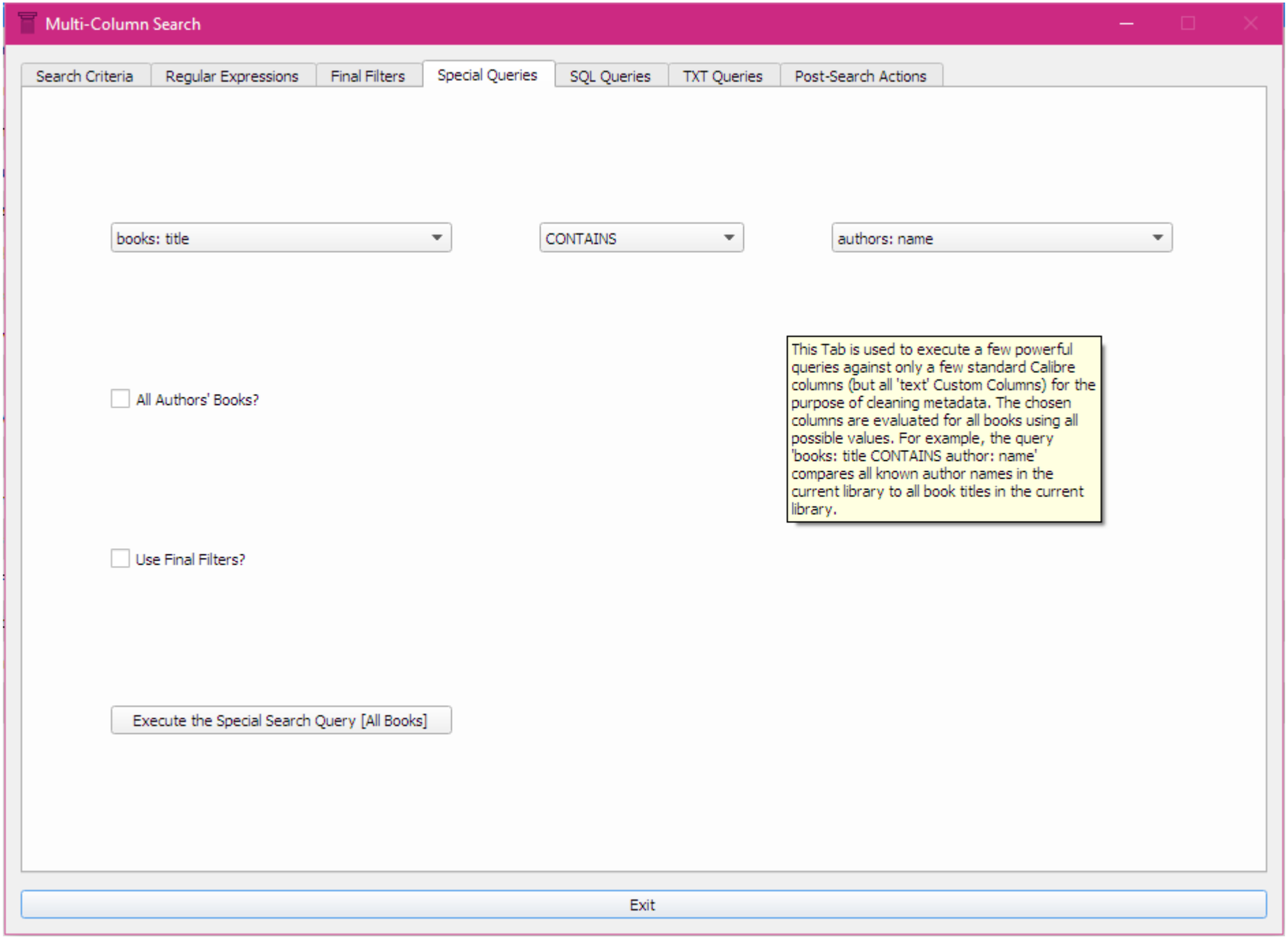
Example "Final Filters" for Search Criteria



Saved filters that use Custom Columns that are unique to the current library will disappear in other libraries.

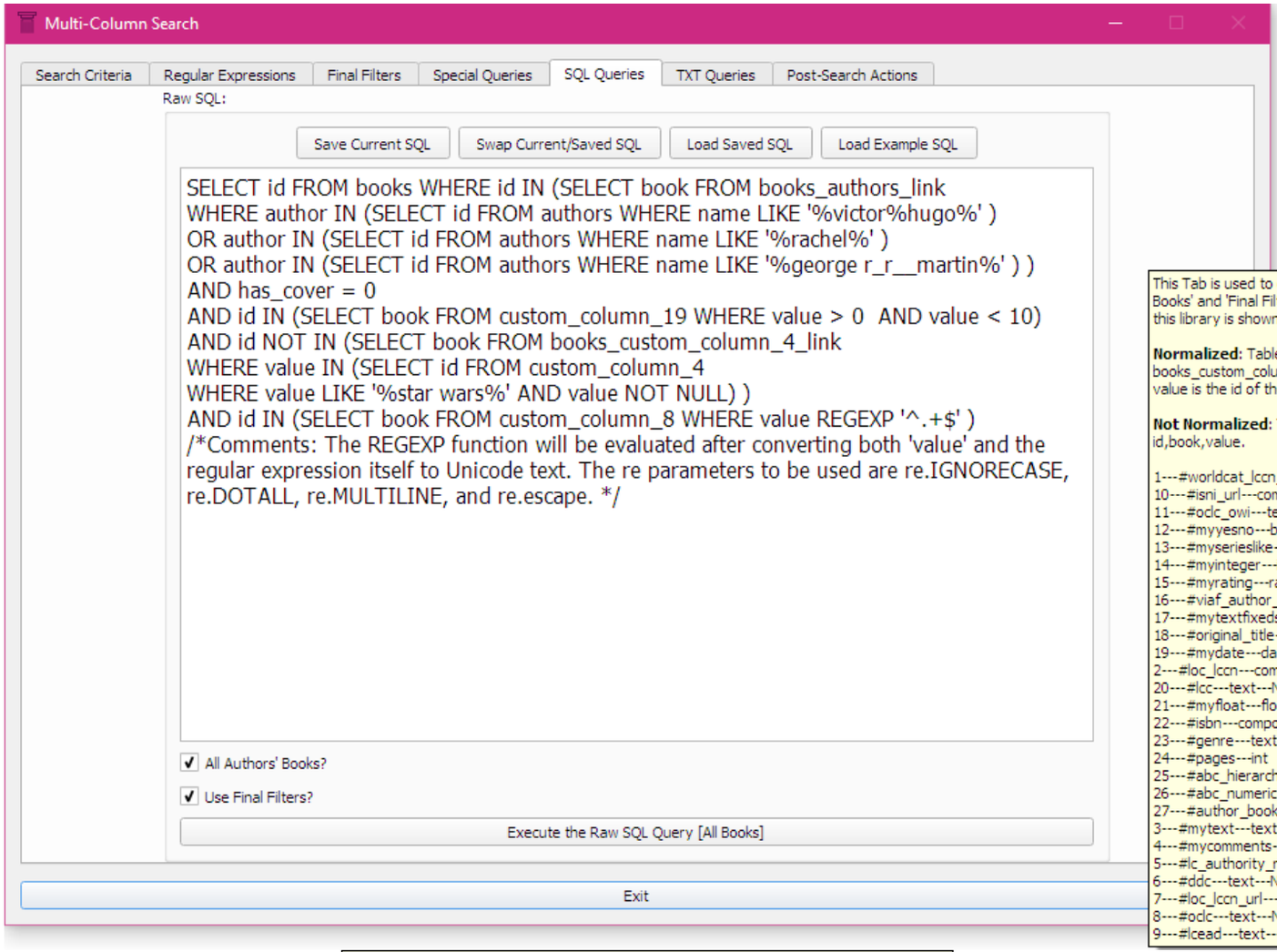
Multi-Column Search

Example “Special Query”



Multi-Column Search

Example “SQL Query”



This Tab is used to execute raw 'SELECT bookid' SQL with the addition of the optional 'All Authors' Books' and 'Final Filters' afterwards.The custom column information from table custom_columns for this library is shown below.

Normalized: Table custom_column_N has the values. Columns: id,value. Table books_custom_column_N_link has the link of the value to the book. Columns: id,book,value where value is the id of the value from table custom_column_N.

Not Normalized: Table custom_column_N has both the value and the link to the book. Columns: id,book,value.

1---#worldcat_lccn_url---composite
10---#isni_url---composite
11---#oclc_owi---text---Normalized
12---#myyesno---bool
13---#myserieslike---series---Normalized
14---#myinteger---int
15---#myrating---rating---Normalized
16---#viaf_author_id_url---composite
17---#mytextfixedsetofvalues---enumeration---Normalized
18---#original_title---text---Normalized
19---#mydate---datetime
2---#loc_lccn---composite
20---#lcc---text---Normalized
21---#myfloat---float
22---#isbn---composite
23---#genre---text---Normalized
24---#pages---int
25---#abc_hierarchy---text---Normalized
26---#abc_numeric---int
27---#author_book_count---text---Normalized
3---#mytext---text---Normalized
4---#mycomments---comments
5---#lc_authority_name_url---composite
6---#ddc---text---Normalized
7---#loc_lccn_url---composite
8---#oclc---text---Normalized
9---#lcead---text---Normalized

Raw SQL. The Rules:

[1] Must start with SELECT

[2] The very first column selected must be an integer book id (e.g. 'books.id' or 'books_authors_link.book')

[3] May not contain SQLite Keywords that add, change, or delete data or objects

[4] May not contain semi-colons

[5] May not contain question marks

[6] May not contain double quotes

[7] Must otherwise comply with the syntax in: https://www.sqlite.org/lang_corefunc.html

Suggestion: create a .txt file to keep your SQL history for future copy-and-paste ease.

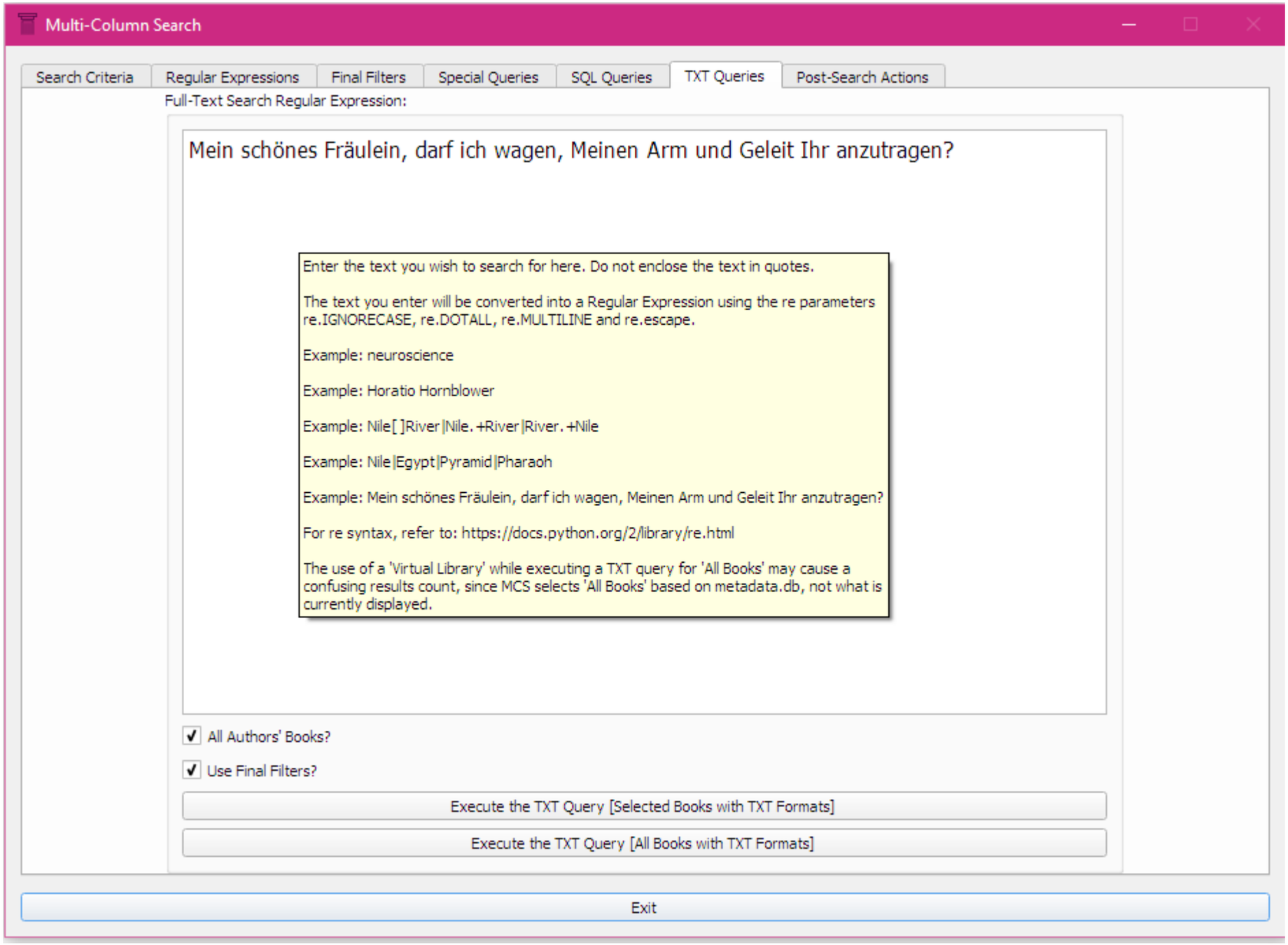
Refer to this Tab's ToolTips for a list of the current library's custom columns.

SQLite Syntax questions? Answer them at http://www.w3schools.com/sql/ or http://www.sqlcourse.com/.

Multi-Column Search

Example “TXT Query”

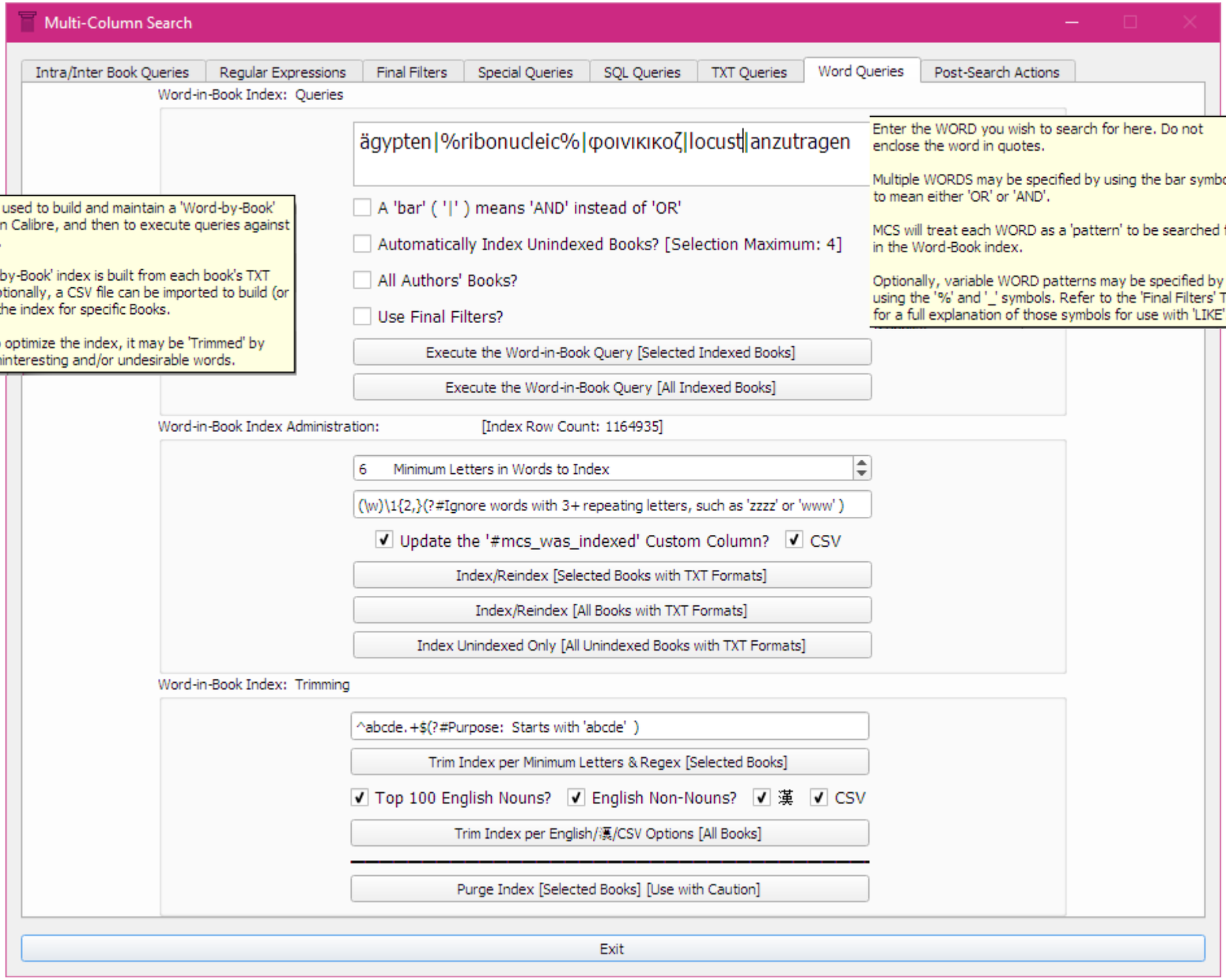
Full-Text Searches of TXT Formats



Multi-Column Search

"Word Queries" Using a Word-Book Index

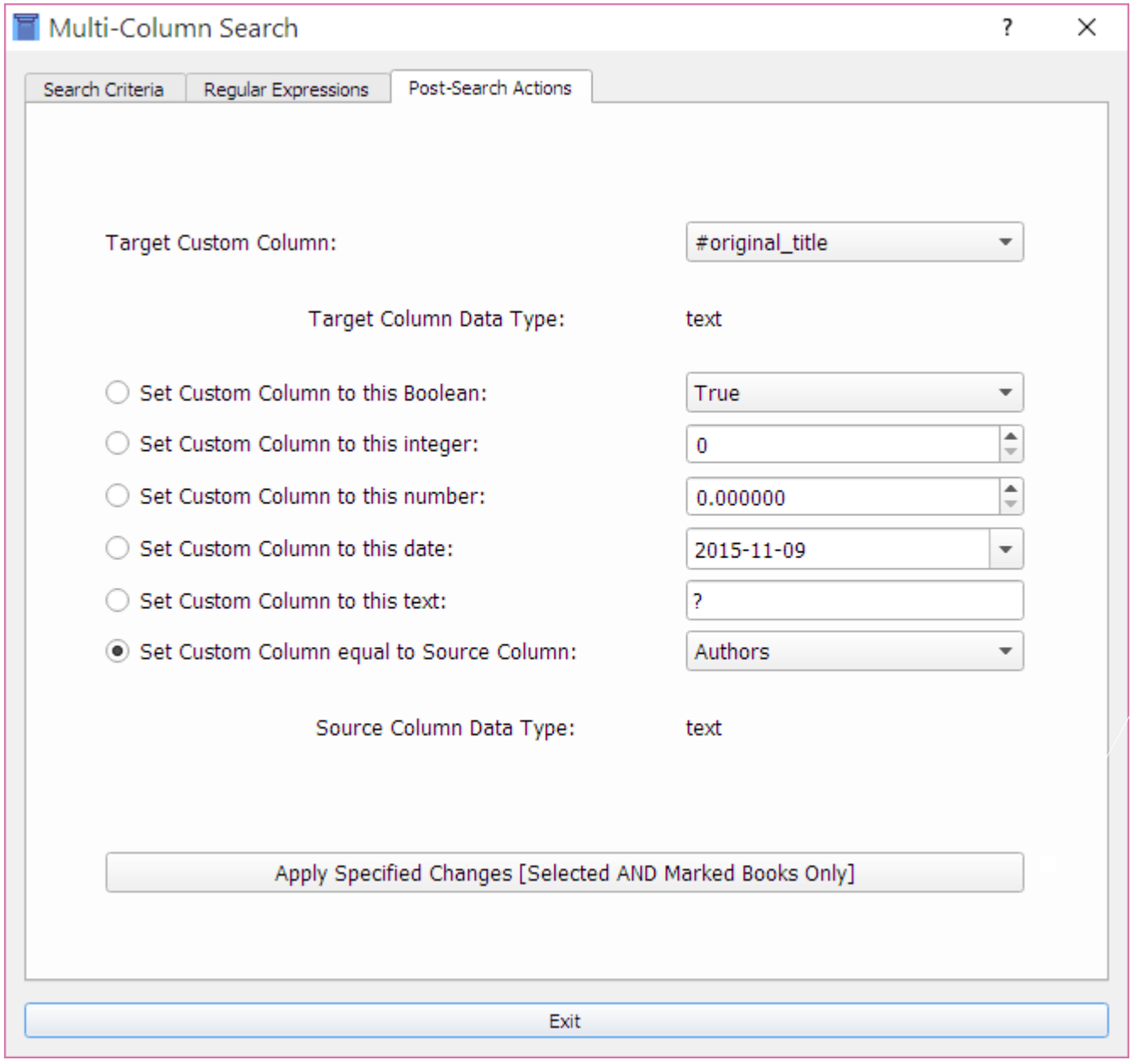
Fast Searches for Words or Word Patterns

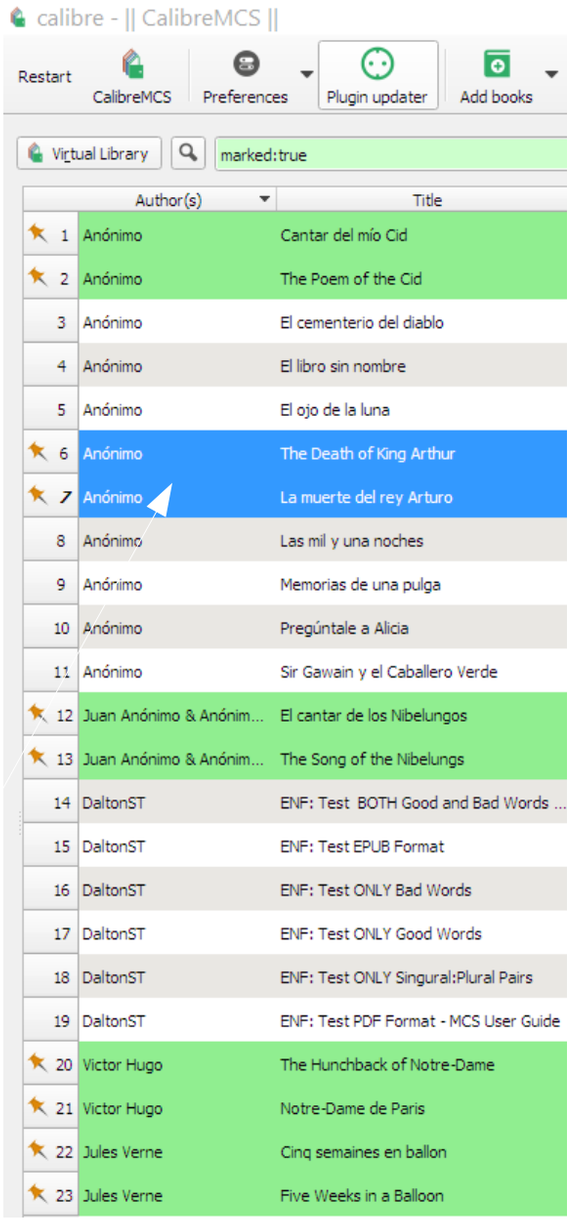


Multi-Column Search

Post-Search Actions

Apply Compatible Value Changes to a Target Custom Column for Books both Currently 'Marked' in the Search Results and Currently 'Selected'





Multi-Column Search

"Search Criteria" Tab - Comments

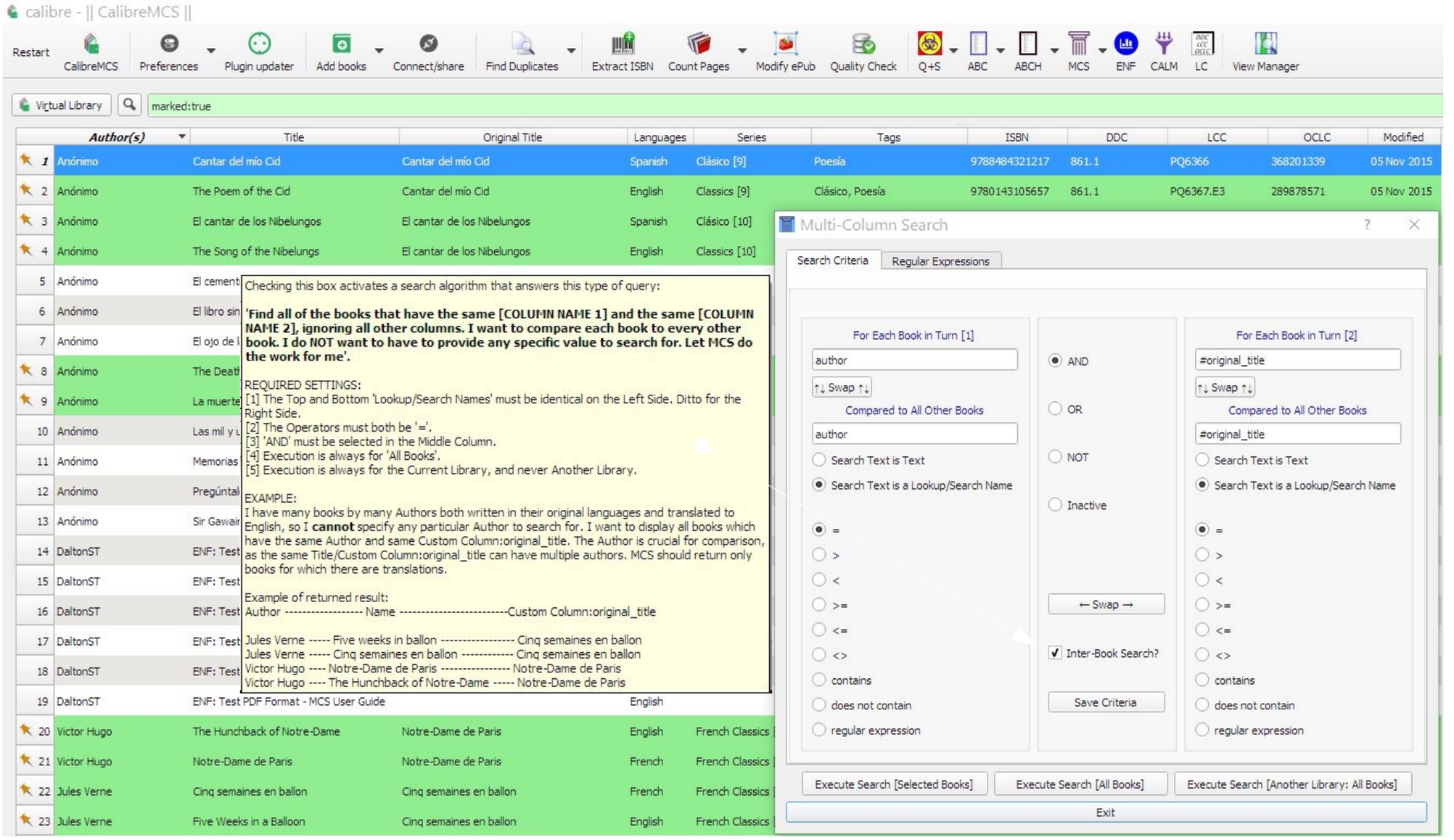
Column	Lookup/Search Name(s)	Comments
Custom Columns	(any #…..)	If Datetime CC, Search Text Format must be: YYYY or YYYY-MM or YYYY-MM-DD. Only the first 10 characters are used. Blank is okay for any CC (text, comments, integer, float, datetime).
Authors	authors (but 'author' will work too)	
Title	title	
Series	series	Does not include the Series Index. Just the Series Name.
Tags	tags	
Publisher	publisher	
Comments	comments	
Published Date	pubdate (but 'published' will work too)	Search Text Format you must use: YYYY-MM. Blank is okay.
Path	path	Example: Larry Niven/Fallen Angels (3325)

General Comments and Caveats

- If you make nonsensical comparisons, nothing will happen other than your search results will be empty.
- Don't compare numerics to text. The integer 9 is not the same as a textual 9. For example, comparing #author_book_count (a tag-like column) to #abc_numeric (an integer column) for equality will return False.
- Calibre stores all Paths using "/", regardless of your operating system.
- Comments may be in HTML, so if you search for a "1" in the Comments, you may get a result even if the text has no "1" in it, but the HTML tags do.
- If you specify that the Search Text is Text (not a Lookup/Search Name), and you leave the field empty, it will be treated as an empty string (i.e., "") for text, a 0 for integers, 0.00 for floats, and "0000-00-00" for dates.
- "NOT does not contain" normally gives the same results as "AND contains". Ditto for "NOT =" & "AND <>".
- MCS will validate invalid criteria, and fix what it can. The Calibre status message will state so.
- Cross-Library Search Results do not show Comments because of their length.

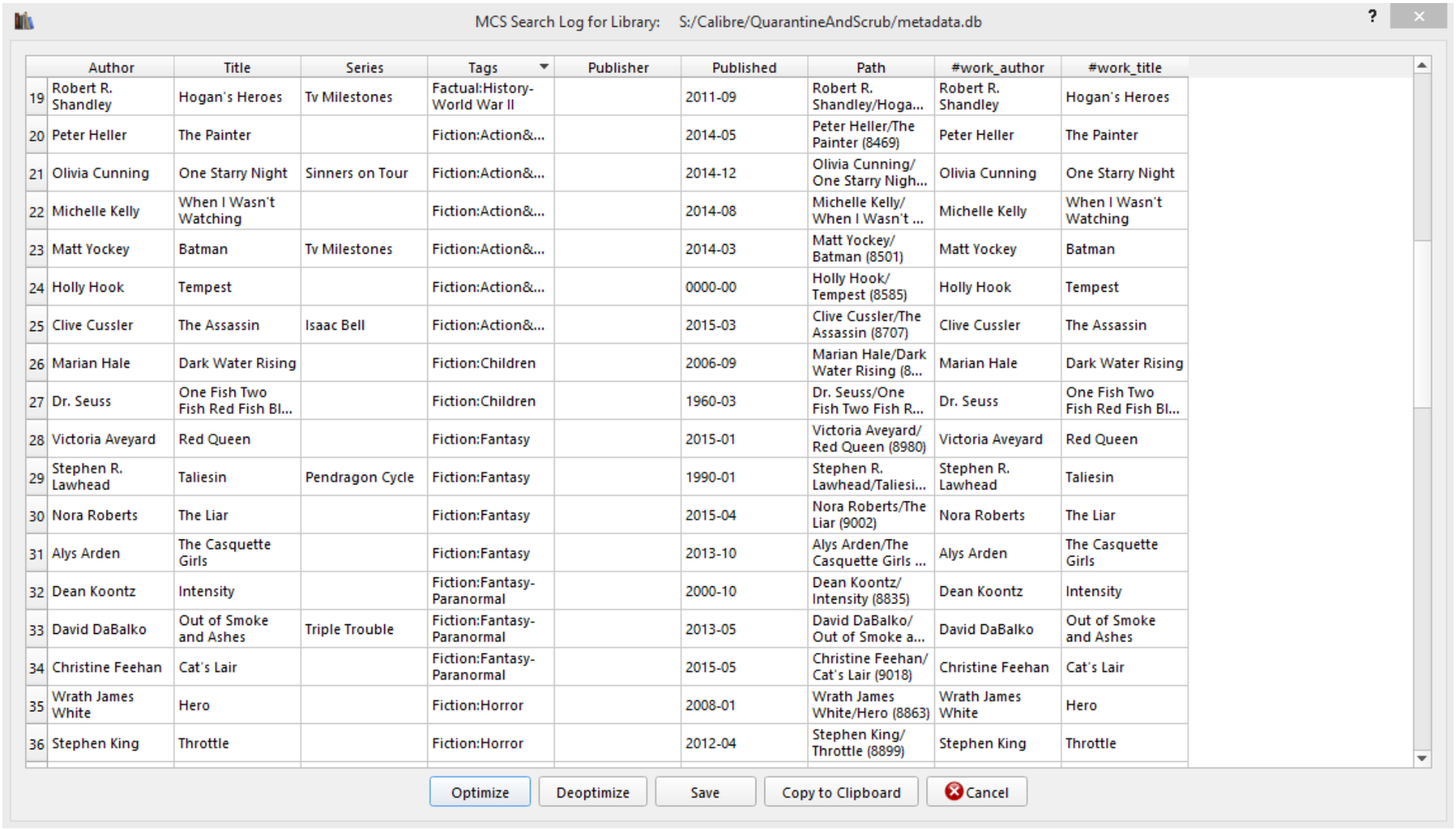
Multi-Column Search

Example of an 'Inter-Book' Search Query



Multi-Column Search

Search Results After Executing “Search Another Calibre Library: All Books”

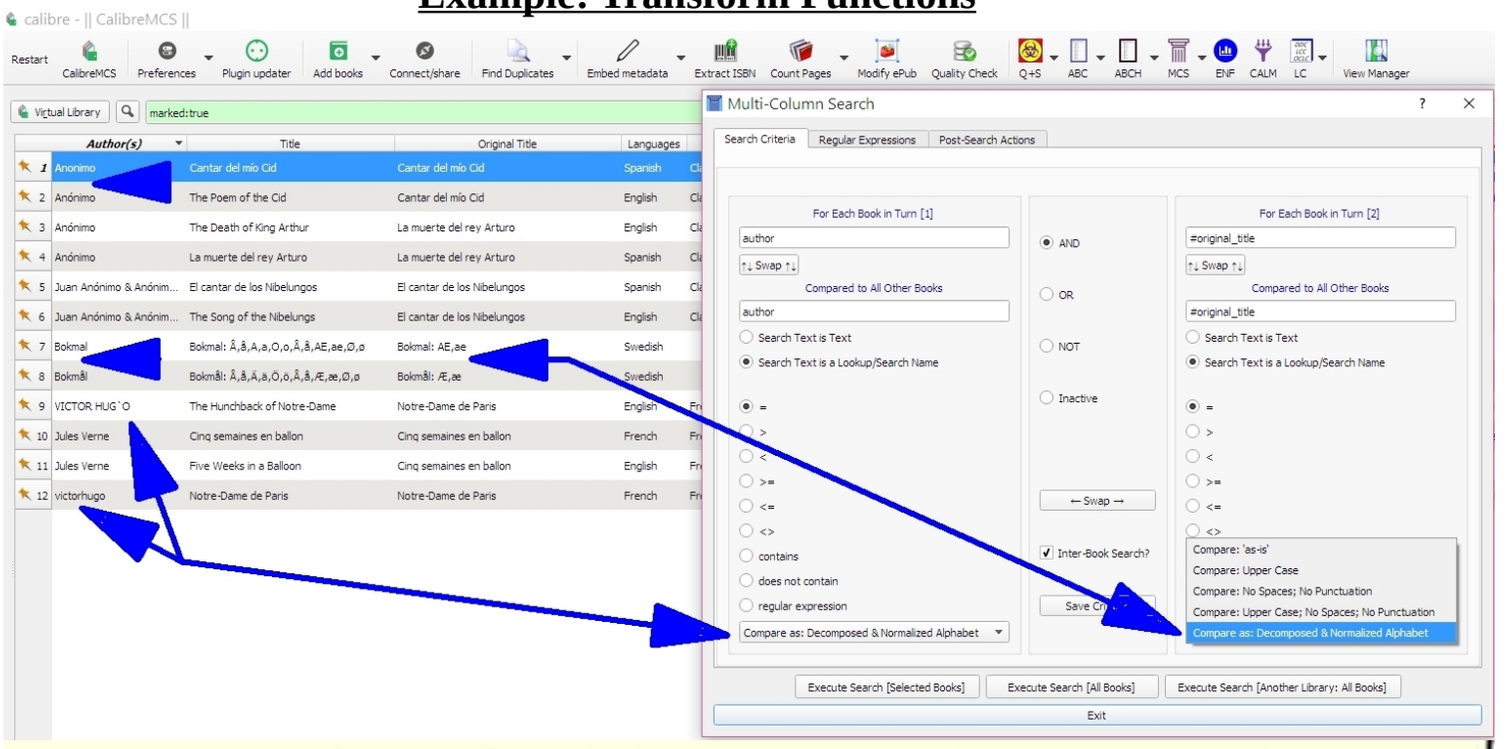


	Author	Title	Series	Tags	Publisher	Published	Path	#work_author	#work_title
19	Robert R. Shandley	Hogan's Heroes	Tv Milestones	Factual:History-World War II		2011-09	Robert R. Shandley/Hoga...	Robert R. Shandley	Hogan's Heroes
20	Peter Heller	The Painter		Fiction:Action&...		2014-05	Peter Heller/The Painter (8469)	Peter Heller	The Painter
21	Olivia Cunning	One Starry Night	Sinners on Tour	Fiction:Action&...		2014-12	Olivia Cunning/ One Starry Nigh...	Olivia Cunning	One Starry Night
22	Michelle Kelly	When I Wasn't Watching		Fiction:Action&...		2014-08	Michelle Kelly/ When I Wasn't ...	Michelle Kelly	When I Wasn't Watching
23	Matt Yockey	Batman	Tv Milestones	Fiction:Action&...		2014-03	Matt Yockey/ Batman (8501)	Matt Yockey	Batman
24	Holly Hook	Tempest		Fiction:Action&...		0000-00	Holly Hook/ Tempest (8585)	Holly Hook	Tempest
25	Clive Cussler	The Assassin	Isaac Bell	Fiction:Action&...		2015-03	Clive Cussler/The Assassin (8707)	Clive Cussler	The Assassin
26	Marian Hale	Dark Water Rising		Fiction:Children		2006-09	Marian Hale/Dark Water Rising (8...	Marian Hale	Dark Water Rising
27	Dr. Seuss	One Fish Two Fish Red Fish Bl...		Fiction:Children		1960-03	Dr. Seuss/One Fish Two Fish R...	Dr. Seuss	One Fish Two Fish Red Fish Bl...
28	Victoria Aveyard	Red Queen		Fiction:Fantasy		2015-01	Victoria Aveyard/ Red Queen (8980)	Victoria Aveyard	Red Queen
29	Stephen R. Lawhead	Taliesin	Pendragon Cycle	Fiction:Fantasy		1990-01	Stephen R. Lawhead/Taliesi...	Stephen R. Lawhead	Taliesin
30	Nora Roberts	The Liar		Fiction:Fantasy		2015-04	Nora Roberts/The Liar (9002)	Nora Roberts	The Liar
31	Alys Arden	The Casquette Girls		Fiction:Fantasy		2013-10	Alys Arden/The Casquette Girls ...	Alys Arden	The Casquette Girls
32	Dean Koontz	Intensity		Fiction:Fantasy-Paranormal		2000-10	Dean Koontz/ Intensity (8835)	Dean Koontz	Intensity
33	David DaBalko	Out of Smoke and Ashes	Triple Trouble	Fiction:Fantasy-Paranormal		2013-05	David DaBalko/ Out of Smoke a...	David DaBalko	Out of Smoke and Ashes
34	Christine Feehan	Cat's Lair		Fiction:Fantasy-Paranormal		2015-05	Christine Feehan/ Cat's Lair (9018)	Christine Feehan	Cat's Lair
35	Wrath James White	Hero		Fiction:Horror		2008-01	Wrath James White/Hero (8863)	Wrath James White	Hero
36	Stephen King	Throttle		Fiction:Horror		2012-04	Stephen King/ Throttle (8899)	Stephen King	Throttle

- Optimize, Deoptimize and Save refer to the current column widths.
- Search Results can be copied to the system Clipboard as tab-delimited text for pasting "special" into a spreadsheet or normal pasting into any text document.

Multi-Column Search

Example: Transform Functions



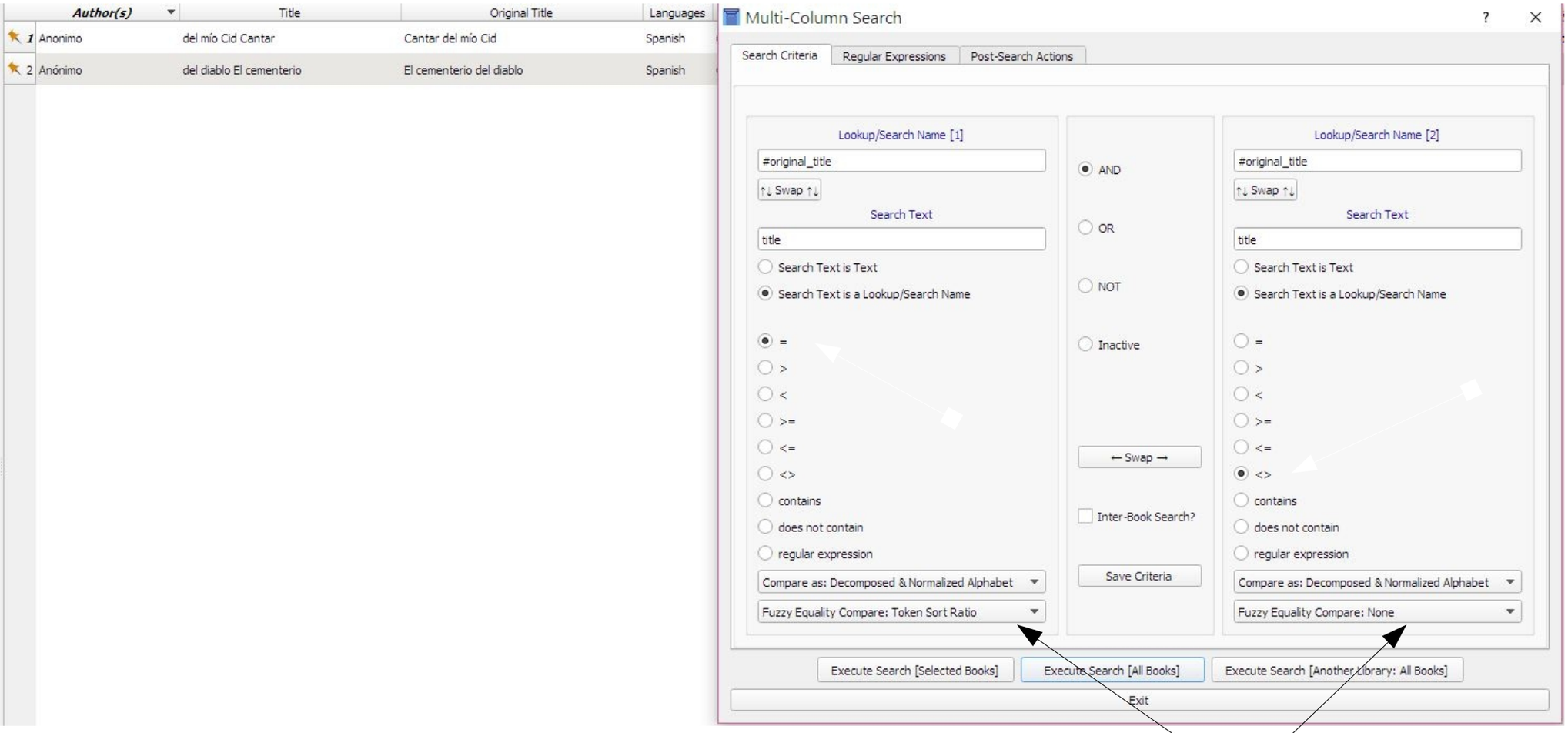
Functions to 'transform' the values to be compared prior to comparison.

'Decompose and Normalize Alphabet' allows searching for non-English metadata that may or may not have been mangled into something English-like. Basically, it changes complex letters into simple letters, removes diacritics, removes spaces, and removes punctuation. Then, the values are compared.

These Transform Functions are **not** used by Cross-Library searches.

Multi-Column Search

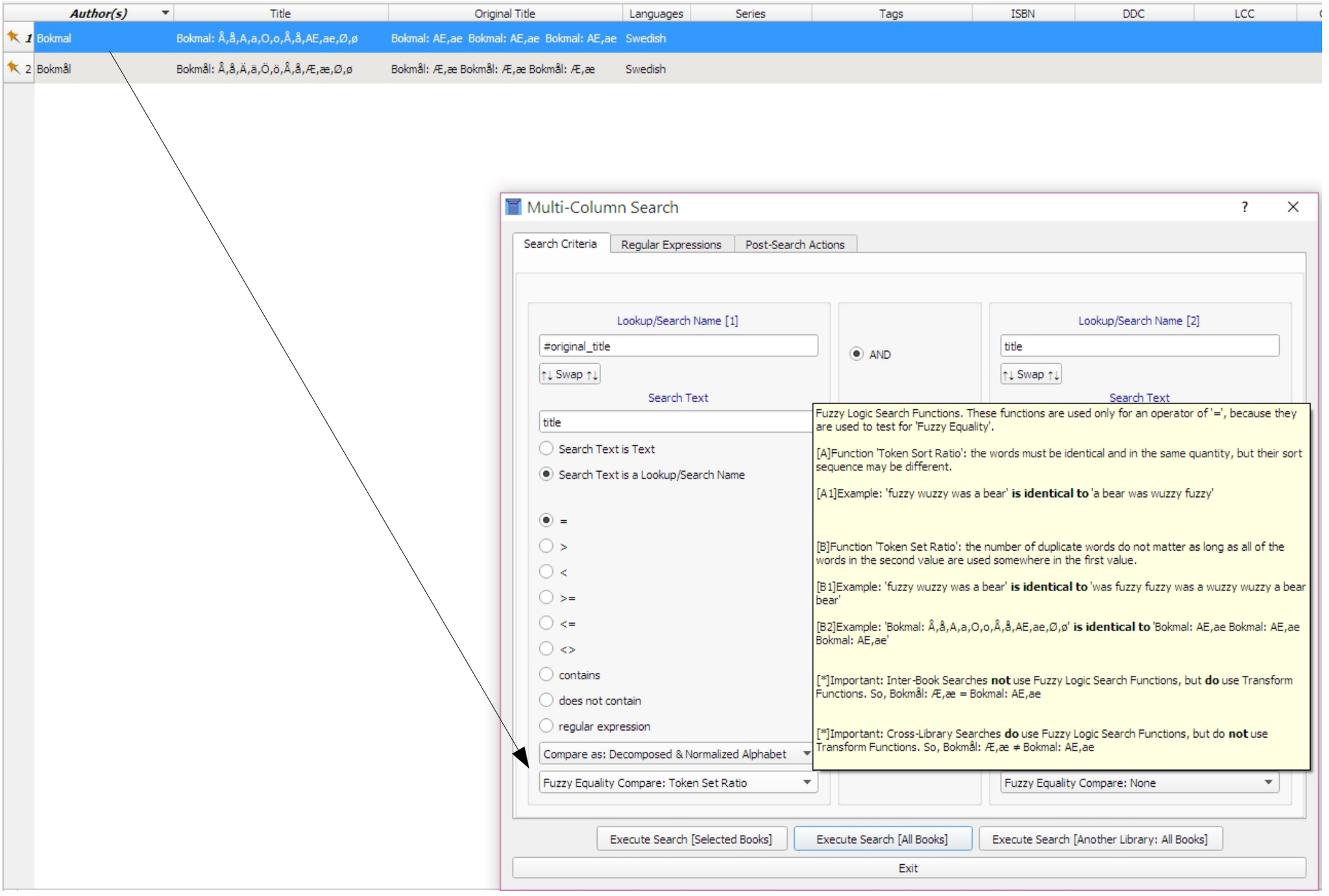
Example: Fuzzy Equality – Token Sort Ratio



Notice that the same 2 columns, Title and Original Title, have MCS search rules. The left rule matches on '='. The right rule matches on '<>'. How? The Fuzzy Equality Compare function used in the left rule makes the truly 'unequal' Title and Original Title values 'equal' because they 'passed' the Token Sort Ratio comparison.

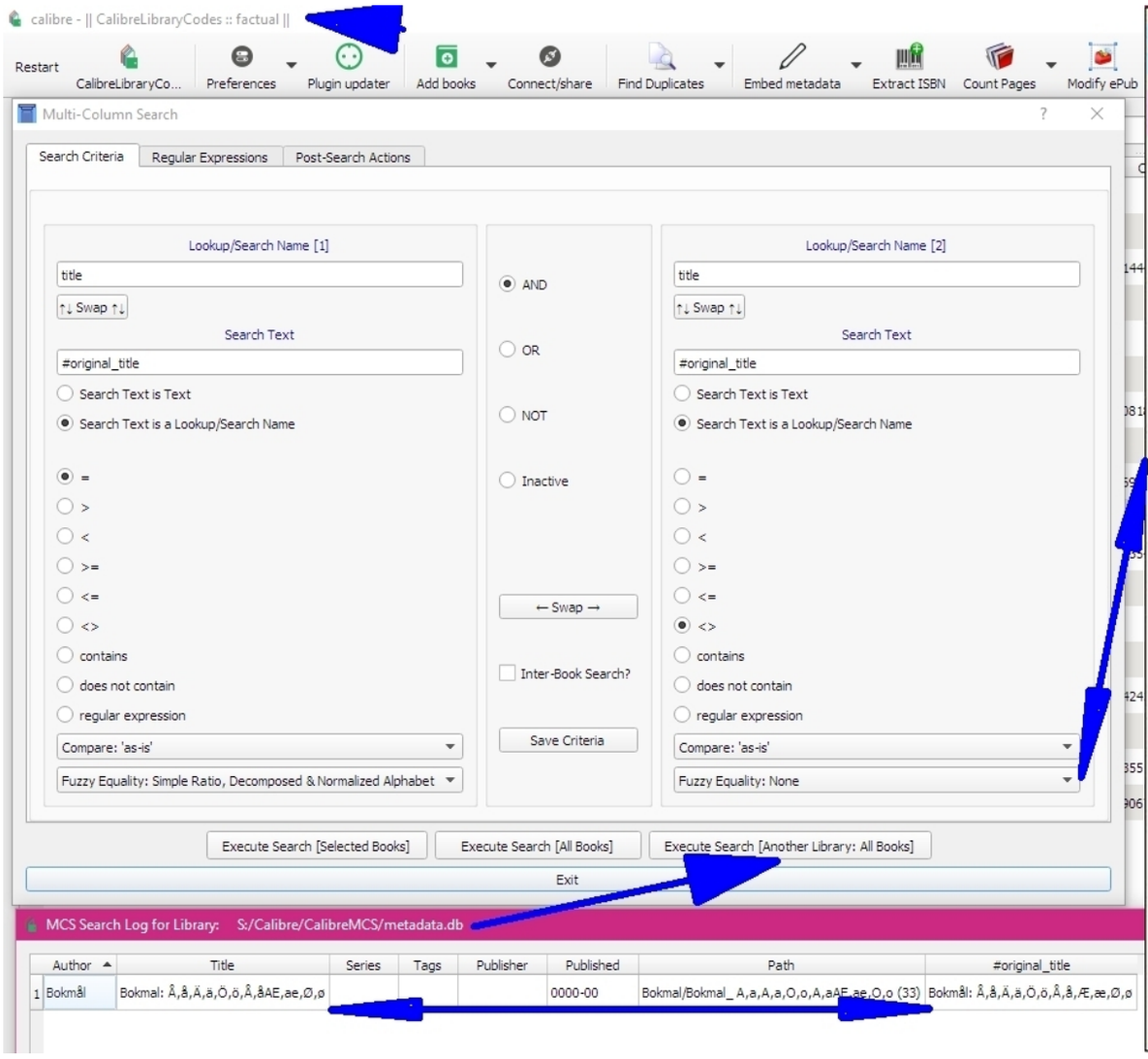
Multi-Column Search

Example: Fuzzy Equality – Token Set Ratio



Multi-Column Search

Example: Cross-Library Use of Fuzzy Equality Functions



Fuzzy Logic Search Functions. These functions are used **only for an operator of '='**, because they are used to test for 'Fuzzy **Equality**'.

[A]Function 'Token Sort Ratio': the words must be identical and in the same quantity, but their sort sequence may be different.

[A1]Example: 'fuzzy wuzzy was a bear' **is identical to** 'a bear was wuzzy fuzzy'

[B]Function 'Token Set Ratio': the number of duplicate words do not matter as long as all of the words in the second value are used somewhere in the first value.

[B1]Example: 'fuzzy wuzzy was a bear' **is identical to** 'was fuzzy fuzzy was a wuzzy wuzzy a bear bear'

[B2]Example: 'Bokmal: Å,å,A,a,O,o,Å,å,AE,ae,Ø,ø' **is identical to** 'Bokmal: AE,ae Bokmal: AE,ae Bokmal: AE,ae'

[C]Function 'Simple Ratio, No Punctuation, Upper Case': the words are compared with all punctuation first removed and then converted to upper case.

[C1]Example: 'fuzzy wuzzy was a bear…' **is identical to** 'fuzzy wuzzy was a bear?'

[D]Function 'Simple Ratio': Decomposed and Normalized Alphabet' allows searching for non-English metadata that may or may not have been mangled into something English-like. Basically, it changes complex letters into simple letters, removes diacritics, removes spaces, and removes punctuation. Then, the values are compared.\

[D1]Example: "Bokmal: AE,ae **is identical to** Bokmål: Æ,æ"

[*]Important: Inter-Book Searches **do not** use Fuzzy Logic Search Functions, but **do** use Transform Functions.

[*]Important: Cross-Library Searches **do** use Fuzzy Logic Search Functions, but do **not** use Transform Functions.

[*]Important: Intra-Book Searches use **both** Fuzzy Logic Search Functions **and** Transform Functions.