



Matthew Phillips

Searching via regular expressions

Episode 4 of 4

Agenda

- Searching via regex
- Editing via regex
- PCRE regex (Symphony 3.7.1)



Searching via regex

- <0> (start of field)
- . (any character)
- {###} (position of character)
- * (wildcard – zero or more occurrences)
- <~0> (end of field)

SirsiDynix Symphony Data Control

☐ Limit Search by File

☒ Table Call Number

☒ Filters Call Number (RegEx) <0> {39} *~0>

Matched 5069 records in 3.424 seconds

☐	Call Number
☐	Call Number
☐	01234567890123456789012345678901234
☐	CELEBRATE Halloween Preston, Edna Mitche
☐	IMAGINE Folk&FairyTales Hogrogian, Nonny
☐	CELEBRATE Thanksgiving Dalglish, Alice
☐	FAVORITES Classics Burton, Virginia Lee
☐	Nabokov, Vladimir Vladimirovic [Fireside
☐	Maugham, W. Somerset (William Somerset)

Searching via regex

- \ (escape character)
- [-] (range of characters)
- [^] (reverse)
- + (wildcard – one or more occurrences)

☐ Limit Search by File

Table User Address 1

USERA1 x

Filters ZIP x

Regular Expression  \a.*[0-9\-]+

Matched 3 records in 7.953 seconds

☐	User Address 1 ZIP
☐	N0M 1G0
☐	a12345
☐	3a590
☐	

Searching via regex

- () (scope)
- | (OR)
 - “NOT D OR NOT DV OR NOT DVD”

The screenshot shows a search interface with a 'Table' tab selected, displaying a MARC table. A 'Filters' section shows '245' selected. A 'Regular Expression' search box contains the regex `<0>.*\|h([^\|])D([^\|])DV([^\|])*<~0>`. Four blue arrows point to the components of this regex: the first arrow points to the opening angle bracket, the second to the pipe character, the third to the 'h' character, and the fourth to the closing angle bracket. Below the search box, a list of search results is shown, each with a checkbox and a text entry. The results are:

- ☐ 00 Macmillan early skills program|hkit /|cdeveloped by Macmillan Educational Company.
- ☐ 10 Stories to make you smile|hkit
- ☐ 10 Planes, trains, automobiles|hkit
- ☐ 10 Circus|hkit
- ☐ 10 Me and my body parts|hkit
- ☐ 10 Five senses|hkit
- ☐ 10 Amelia Bedelia and the surprise shower|hkit /|cby Peggy Parish.
- ☐ 00 Flash cards, in the garden|h[flash card]
- ☐ 00 Addition 0+12|hFlash card

Editing via regex

- `(.*)` and `$1` group #1
- *String* what to edit
- `(.*)` and `$2` group #2

☐ Limit Search by File

Table User Address 1

USERA1 x

Filters STREET x

Regular Expression

Field Name	Edit Value
STREET	☐ Insert ☒ Edit ☐ Remove Match: (*east(* Replace: \$1E\$2 ☐ Global ☒ Ignore Case Sample: 504 CECIL STREET Example: 504 E CECIL STREET

☐	User Address 1
☐	STREET
☐	504 east CECIL STREET
☐	306 EAST NEW YORK AVENUE
☐	2915 EAST PHEASANT COURT

STREET
504 E CECIL STREET
306 E NEW YORK AVENUE
2915 E PHEASANT COURT

PCRE regex (Symphony 3.7.1)

- $\wedge$ (start of field)
- $.$ (any character)
- $\{###\}$ (position of character)
- $*$ (wildcard – zero or more occurrences)
- $\$$ (end of field)

SirsiDynix Symphony Data Control

☐ Limit Search by File

Table

Filters

```
selcallnum -I'^.{39}.*$' --PCRE -on | selascii -iR -oF1
```

☐	Call Number
☐	Call Number
☐	SBDC5 650.13 MADDUX 1988 REQUEST FROM CA
☐	SBDC5 658.42 MAUL 1990 REQUEST FROM CAMP
☐	WYDOCS ED 3.4 2:1990-92 PROPOSED AMEND.
☐	SBDC5 VIDEO 658.041 HOW 1987 REQUEST FRO
☐	SBDC VHS 658.022 MARK (WELLS FARGO BLDG)
☐	978.752 PHOTOGRAPHIC COMPREHENSIVE 1971+
☐	SBDC5 332.024 LEZA 1987 REQUEST FROM CAM

PCRE regex (Symphony 3.7.1)

- \ (escape character)
- [-] (range of characters)
- [^] (reverse)
- + (wildcard – one or more occurrences)

☐ Limit Search by File

☒ Table User Address 1

☒ FILTERS ZIP x

Regular Expression

```
served -f'USERA1' -e'ZIP' -r'|a.*[^0-9\\-]+' --PCRE -o
```

☐	User Address 1 ZIP
☐	NOM 1G0
☐	a12345
☐	3a590
☐	

PCRE regex (Symphony 3.7.1)

- () (scope)
- ?! (NOT)
- (?!DVD) = "NOT DVD"

Limit Search by File

Table: MARC

Filters: 245 x

Regular Expression: `^(?!DVD(\\|h)).*$`

Matched 7:

- ☐ MARC 245
- ☐ 00 Macmillan early skills program|hkit /|cdeveloped by Macmillan Educational Company.
- ☐ 10 Circus|hkit
- ☐ 10 Me and my body parts|hkit
- ☐ 10 Five senses|hkit
- ☐ 10 Amelia Bedelia and the surprise shower|h[kit] /|cby Peggy Parish.
- ☐ 00 Flash cards, in the garden|h[flash card]
- ☐ 00 Addition 0+12|hFlash card

```
selved -f'VM' -e'245' -r'^((?!DVD(\\|h)).)*$' --PCRE -E245 -oVM | selascii -iR -oF1F2
```

☐ Limit Search by File

	Table	MARC	▼	⊖ ⊕
		VM	×	▼
	Filters	245	×	
		Regular Expression	▼	
		^((?!DVD(\ h).)*\$		
				Indicators
				⊖ ⊕



More information

- [Formal trainings](#)
- [Training guide](#)
- [Regex resources](#)
- [Listserv](#)



**SymAPI-2200 - Symphony Data Control Regional Workshop**

API Subscription Required (register via Mentor) Are you as excited by the new Symphony Data Control product as we are?! This new course teaches SirsiDynix' new Data Control interface. You do not need to have any API...

Type: Instructor Led | Days: 1 | Hours: 6.00

**SymAPI-2300 - Data Control Queries**

The Symphony Data Control Queries class teaches how to select data in the new browser based Data Control interface. Topics covered include: How records in Symphony connect to one another How to use selection fields in the...

Type: Instructor Led | Days: 1 | Hours: 7.00

**SymAPI-2400 - Data Control Edits**

The Symphony Data Control Edits class teaches how to edit data in the new browser based Data Control interface. Topics covered include: • How to modify records individually or in batch *Pre-Requisites: *...

Type: Instructor Led | Days: 1 | Hours: 7.00

**SymAPI-2500 - Data Control Q&A**

Periodic Question and Answer sessions hosted by a SirsiDynix Consultant for sites with Symphony Data Control. Bring any database queries or edits that you need help setting up in the web-based API.

Type: Instructor Led | Days: 1 | Hours: 3.00

API Lists



API



Data Control

*Thank You for
Attending*





Watch all episodes in the series to become a Data Control Royal

1 of 4

**Search strategies
for examining your
data**

Sept 10 – 1pm ET
Matthew Phillips

2 of 4

Making basic edits

Oct 8 – 1pm ET
Kat Stephens

3 of 4

**Setting up access to
Data Control**

Nov 5 – 1pm ET
Adam Viator

4 of 4

**Searching via regular
expressions**

Dec 3 – 1pm ET
Matthew Phillips

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