## **ConfiForms Filters by example**

(1)

This is valid for ConfiForms cloud!

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This is a page to show how to use ConfiForms Filters by example

ConfiForms filters is the core component of the app and is used absolutely everywhere where you need to describe a condition, filter the dataset or setup the behaviour (field and IFTTT rules)

In this example we will be more focused on filtering the data, but will also touch the basics of a conditionally applied rules

Let's consider these forms that will, logically, build the bookshelf. Each book can be taken for reading and returned when ready. We will have a form for storing this state and couple of forms to store the data about the book and the author(s)

We have 3 forms

- bookshelf
- books
- author

linked together using smart fields (see how on the right, in data structures section)

So, one book may have multiple authors and is on a bookshelf

### Data structures:

Form: bookshelf				
book	Smart dropdown referencing form "books", and showing "book title"			
status	Dropdown field			
	ID	Label		
	avail	Available		
	lost	Lost		
	taken	Taken		
takeBook	Action button to take the book, sets			
	status=taken&takenBy=[entryuser]			
returnBo ok	Action button to return the book, sets			
	status=avail&takenBy=			
takenBy	User			

Form: books			
title	Text field holding a book title		
aut hors	Smart multi-select field referencing "authors" form and showing authors last name and first name		
	[entry.lastName], [entry.firstName]		

Form "books" has an IFTTT rule to "auto-create" a record in the "bookshelf" form when a new book is added

# 

book=[entry.id]&status=avail

No filter, showing all books in the bookshelf

## Filters by example:

To show all books, we will leave filter property empty

Book	Authors	Status
Mad About the Boy	00	Taken
Still Me	00	Availa ble
An American Marriage		Availa ble
Us Against You	00	Availa ble
Nine Perfect Strangers	00	Availa ble
An Absolutely Remarkable Thing	00	Availa ble
Killing Commendatore	000	Availa ble
There There	00	Availa ble
An Absolutely Remarkable Thing  Killing Commendatore	000	Availa ble  Availa ble  Availa

Girls Burn Brighter	00	Availa ble
All We Ever Wanted	00	Availa ble
After Dark	00	Availa ble
Colorless Tsukuru Tazaki and His Years of Pilgrimage	00	Availa ble
The Giver of Stars	00	Taken
One Plus One	00	Availa ble
The Girl You Left Behind	00	Availa ble
The Ship of Brides	00	Availa ble
Silver Bay	00	Availa ble
Three Wishes	00	Availa ble
The Husband's Secret	00	Availa ble
Truly Madly Guilty	00	Availa ble
Bridget Jones's Diary	00	Availa ble
Bridget Jones: The Edge of Reason	00	Availa ble
Cause Celeb	00	Availa ble
New Beginnings	00	Availa ble
The Untelling	00	Taken
Silver Sparrow	00	Taken
Leaving Atlanta	00	Availa ble
Pride and Prejudice	00	Availa ble
Baby Proof	00	Availa ble
Heart of the Matter	00	Availa ble
First Comes Love	00	Availa ble
Eat, Pray, Love	00	Taken
The Glass Castle		Availa ble

The Diary of a Young Girl		Availa ble
City of Girls	00	Availa ble

To show only available books we should use for filter expression: **status: avail**, where **status** is the field name of bookshelf form and **avail** is the **id** of one of the status values in dropdown list

status:avail

Book	Status
Still Me	Available
An American Marriage	Available
Us Against You	Available
Nine Perfect Strangers	Available
An Absolutely Remarkable Thing	Available
Killing Commendatore	Available
There There	Available
Girls Burn Brighter	Available
All We Ever Wanted	Available
After Dark	Available
Colorless Tsukuru Tazaki and His Years of Pilgrimage	Available
One Plus One	Available
The Girl You Left Behind	Available
The Ship of Brides	Available
Silver Bay	Available
Three Wishes	Available
The Husband's Secret	Available
Truly Madly Guilty	Available
Bridget Jones's Diary	Available
Bridget Jones: The Edge of Reason	Available
Cause Celeb	Available
New Beginnings	Available
Leaving Atlanta	Available
Pride and Prejudice	Available
Baby Proof	Available
Heart of the Matter	Available
First Comes Love	Available

The Glass Castle	Available
The Diary of a Young Girl	Available
City of Girls	Available

To show books taken only by current user, we should use for filter expression: **takenBy:[entry.\_user]**, where **takenBy** is the field name and **\_user** is built-in property of form to get value of current user

All We Ever Wanted

Colorless Tsukuru Tazaki and His Years of Pilgrimage

After Dark

One Plus One

The Girl You Left Behind

The Ship of Brides

Silver Bay

Three Wishes

The Husband's Secret

Truly Madly Guilty

3		
Book	Authors	Status
Still Me	00	Availa ble
An American Marriage	00	Availa ble
Us Against You	00	Availa ble
Nine Perfect Strangers	00	Availa ble
An Absolutely Remarkable Thing	00	Availa ble
Killing Commendatore	000	Availa ble
There There	00	Availa ble
Girls Burn Brighter	00	Availa

ble

Availa ble

Availa ble

Availa ble

Availa ble

Availa ble

Availa ble

Availa

Availa ble

Availa ble

Availa ble

ble

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takenBy:[entry.\_user]

Bridget Jones's Diary	00	Availa ble
Bridget Jones: The Edge of Reason	00	Availa ble
Cause Celeb	00	Availa ble
New Beginnings	00	Availa ble
Leaving Atlanta	00	Availa ble
Pride and Prejudice	00	Availa ble
Baby Proof	00	Availa ble
Heart of the Matter	00	Availa ble
First Comes Love	00	Availa ble
The Glass Castle		Availa ble
The Diary of a Young Girl		Availa ble
City of Girls	00	Availa ble

To find books which title starts from word "The", we should use for filter expression:  $\mathbf{The}^{\star}$ 

Book	Status
There There	Available
The Giver of Stars	Taken
The Girl You Left Behind	Available
The Ship of Brides	Available
The Husband's Secret	Available
The Untelling	Taken
The Glass Castle	Available

book.title:The\*

To find books which any field starts from word "Bridget", we should use for filter expression:  $\bf Bridget^{\star}$ 

Book Authors Status

Bridget\*

 $\label{thm:continuity} Transformation of authors: book.authors.transform(lastName.append ([entry.firstName.prepend(, )]))$ 

Bridget Jones's Diary	[Fielding, Helen]	Available
Bridget Jones: The Edge of Reason	[Fielding, Helen]	Available

To find books which any field ends with word "love", we should use for filter expression: \*  ${f love}$ 

Book	Status
First Comes Love	Available
Eat, Pray, Love	Taken

\*love

To find books which any field contains word "and", we should use for filter expression: \*and\*  $\,$ 

Book	Status
Colorless Tsukuru Tazaki and His Years of Pilgrimage	Available
The Husband's Secret	Available
Pride and Prejudice	Available

\*and\*

To find books which authors born before 01.01.1950, we should use for filter expression: book.authors.dob.formatDate(yyyyMMdd): <19500101, where book. is the bookshelf form's field of Smart Dropdown type, which is reference to books form record and authors. in its turn is the books form's field of Smart Multiselect type, which is reference to author form record and dob is the field name of author form, which is transformed by virtual function formatDate.

Book	Status
After Dark	Available
Colorless Tsukuru Tazaki and His Years of Pilgrimage	Available

book.authors.dob.formatDate(yyyyMMdd):<19500101

To find books which status is Available and title starts with word 'The', we should use for filter expression logical operations:

#### book.title:The\* AND status:avail

Book	Authors	Status
There There	00	Available
The Girl You Left Behind	00	Available
The Ship of Brides	00	Available
The Husband's Secret	00	Available

book.title:The\* AND status:avail

The Glass Castle	Available

To find books which title starts with word 'The' or available books of Jojo Moyes, we should use for filter expression logical operations:

### book.title:The\* OR book.authors.lastName:Moyes AND status:avail

Book	Authors	Status
There There	00	Available
The Giver of Stars	00	Taken
The Girl You Left Behind	00	Available
The Ship of Brides	00	Available
The Husband's Secret	00	Available
The Untelling	00	Taken
The Glass Castle		Available
Still Me	00	Available
One Plus One	00	Available
Silver Bay	00	Available

status:avail

book.title:The\* OR book.authors.lastName:Moyes AND

Books found: 10

To find books that were registered without authors, we should use for filter expression: **book.authors:[empty]** 

Book	Authors	Status
The Glass Castle		Available
The Diary of a Young Girl		Available

book.authors:[empty]

To find books that were registered today, we should use for filter expression: **created:[today]** 

Status

You have not took any books yet

created:[today]

To find books with more than one author, we should use virtual function asCount in filter expression: book.authors.asCount:>1

Book Authors Status

 $\verb|book.authors.asCount:>1|$ 

Killing Commendatore	0000	Available
9		

To find books with only single author, we will use symbol ! to reverse the previous expression in filter: !book.authors.asCount:>1

!book.authors.asCount:>1

Book	Authors	Status
Mad About the Boy	00	Taken
Still Me	00	Availa ble
An American Marriage	00	Availa ble
Us Against You	00	Availa ble
Nine Perfect Strangers	00	Availa ble
An Absolutely Remarkable Thing	00	Availa ble
There There	00	Availa ble
Girls Burn Brighter	00	Availa ble
All We Ever Wanted	00	Availa ble
After Dark	00	Availa ble
Colorless Tsukuru Tazaki and His Years of Pilgrimage	00	Availa ble
The Giver of Stars	00	Taken
One Plus One	00	Availa ble
The Girl You Left Behind	00	Availa ble
The Ship of Brides	00	Availa ble
Silver Bay	00	Availa ble
Three Wishes	00	Availa ble
The Husband's Secret	00	Availa ble
Truly Madly Guilty	00	Availa ble
Bridget Jones's Diary	00	Availa ble
Bridget Jones: The Edge of Reason	00	Availa ble

Cause Celeb	00	Availa ble
New Beginnings	00	Availa ble
The Untelling	00	Taken
Silver Sparrow	00	Taken
Leaving Atlanta	00	Availa ble
Pride and Prejudice	00	Availa ble
Baby Proof	00	Availa ble
Heart of the Matter	00	Availa ble
First Comes Love	00	Availa ble
Eat, Pray, Love	00	Taken
The Glass Castle		Availa ble
The Diary of a Young Girl		Availa ble
City of Girls	00	Availa ble

Books found: 34

Show taken books only for logged in users

Book **Authors Status** 

You have not took any books yet

status:taken AND !\_user:""

### Books found: 0



More examples coming soon! Need help with filtering or wondering how to get the certain data from bookshelf forms? Let us know and we will be happy to help and add your example here!

Click "Get support" button on the right and send us a message!