Using ConfiForms Field Definition Rules macro to reduce number of choices in a dropdown field based on the value selected in another field



In this tutorial you will learn how to Use ConfiForms Field Definition Rule to reduce a number of choices in a dropdown field.

We will consider 2 setups - one which uses database and another, which uses other form.

This tutorial is aplicable not only to dropdown fields, but also to:

- · radio group fields
- · advanced dropdowns
- multi-select fields
- checkbox groups fields



If you are new to ConfiForms, please take a few minutes to read the Basic concepts Guide, or go through the video tutorial on that page. $\ensuremath{\mathfrak{C}}$



Let's start with form design. It will have just 2 fields

- · a checkbox field called "includeActiveOnly"
- a dropdown field called "choices" with values loaded from
 - o a database table
 - o another form

This means that we will have 2 variants of the same form (or 2 forms you may say)

Dropdown choices from a database table

Let's start with the one which has a dropdown field with the values loaded from a database table

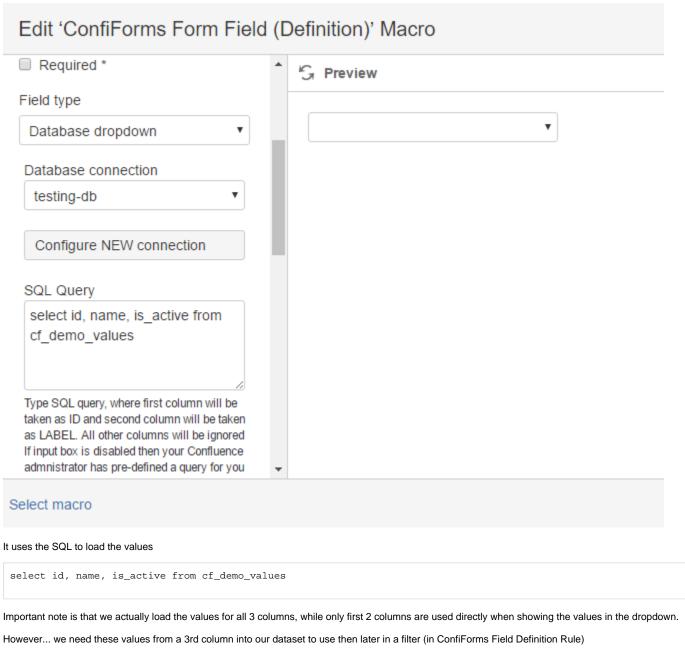
A table we connect as a dropdown source has the following structure

| ID | NAME | IS_ACTIVE |
|----|---------------|-----------|
| 1 | This one | true |
| 2 | Another | true |
| 3 | Some inactive | false |
| 4 | Quattro | true |
| 5 | Obsolete | false |

This is stored in a table called "cf_demo_values"

create table cf_demo_values (id INTEGER NOT NULL, name CHARACTER(50) NOT NULL, is_active boolean);

Our "choices" dropdown is configured as follows



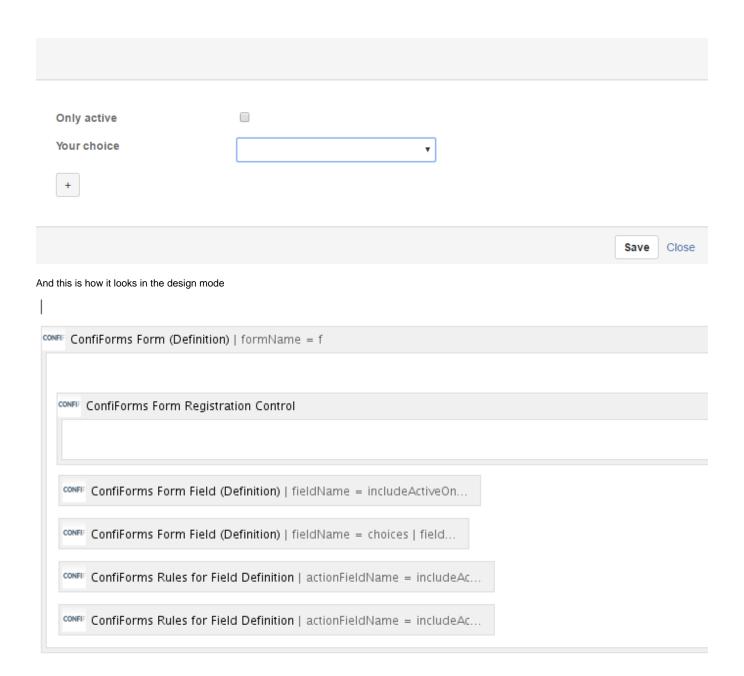


When SQL is loaded into ConfiForms the names for columns which have underscore (_) in their names are removed

So, in our case the column "is_active" becomes "isactive"

This is very important when you use it in a filter later, see below

Then form in the view mode looks like this



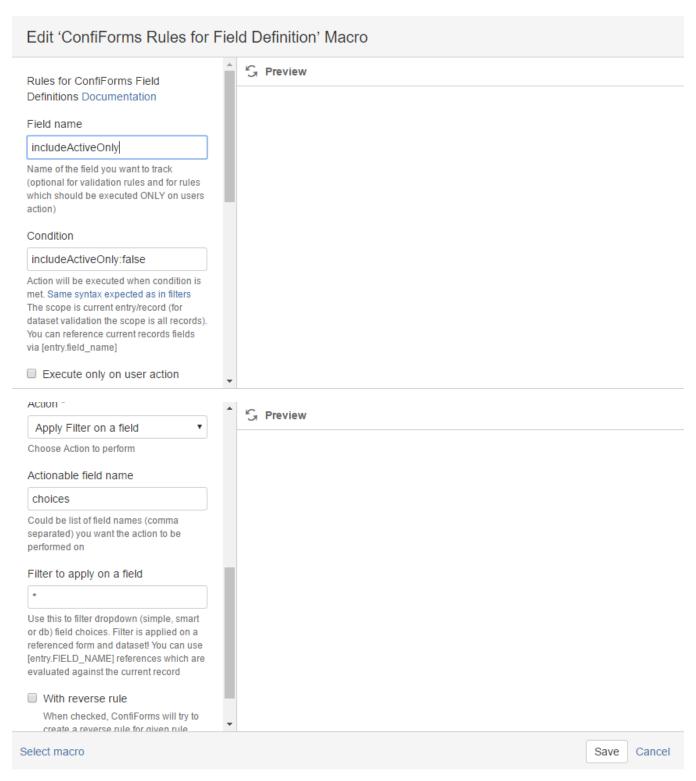
Let's see how the 2 last macros (Field Definition Rules) are configured

Edit 'ConfiForms Rules for Field Definition' Macro S Preview Rules for ConfiForms Field **Definitions Documentation** Field name includeActiveOnly Name of the field you want to track (optional for validation rules and for rules which should be executed ONLY on users action) Condition includeActiveOnly:true Action will be executed when condition is met. Same syntax expected as in filters The scope is current entry/record (for dataset validation the scope is all records). You can reference current records fields via [entry.field_name] Execute only on user action S Preview Action * Apply Filter on a field Choose Action to perform Actionable field name choices Could be list of field names (comma separated) you want the action to be performed on Filter to apply on a field isactive:true Use this to filter dropdown (simple, smart or db) field choices. Filter is applied on a referenced form and dataset! You can use [entry.FIELD_NAME] references which are evaluated against the current record With reverse rule When checked. ConfiForms will try to Select macro Save Cancel

See an important bit on the filter field - we take only "active" rows. This "isactive" field value comes from an SQL, from a field "is_active"

This rule fires when checkbox is checked

Here is how the 2nd Rule is configured



In a filter we tell it to take ALL (this rule fires when checkbox is not checked)

Dropdown choices from another form

This is a 2 version of the form, when your dropdown field is actually takes the values from another ConfiForms Form (using a "smart" field, a "smart" dropdown)

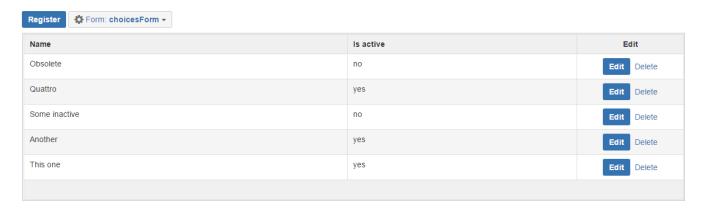
In the edit mode the form looks exactly the same as in the 1st version.

But the difference is in how the "choices" field is configured

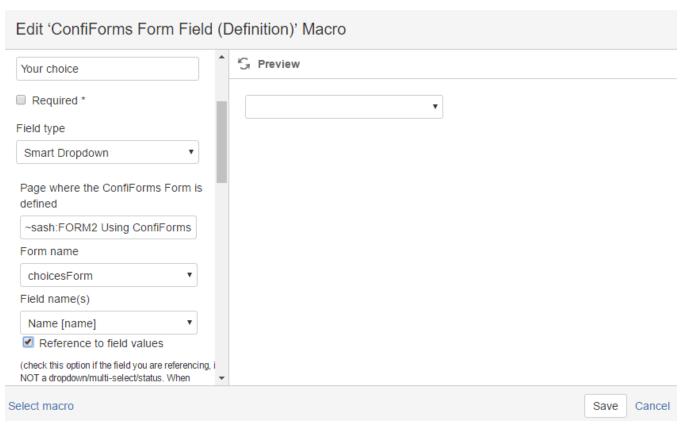
It is configured to take the vlues from another ConfiForms Form with the following structure

- Field to store name (field types is "text")
- Field to store the status (active or inactive), with field type "checkbox"

Same set of values as in the database version



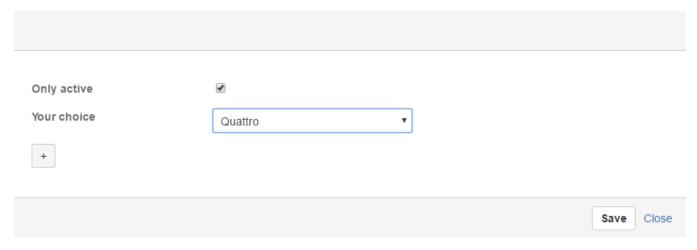
And the "choices" field is configured like this:



Taking the values from a "choiceForm" and showing those in teh dropdown

As we have the same field name to show if the choice is active or not the Field Definition Rules stay the same as in the version 1 of the form.

Giving us the same result in the end



Showing only active choices and serving them from another ConfiForms Form $\,$

Complete solution for version 1 of the form

```
<ac:structured-macro ac:macro-id="29ea6581-a183-4fac-b595-8161170b3d06" ac:name="confiform" ac:schema-version="
1">
   <ac:parameter ac:name="formName">f</ac:parameter>
   <ac:rich-text-body>
       \verb|\ac:structured-macro| ac:macro-id="ec132d3d-37c5-48d8-8a11-afc352b2e01a" ac:name="confiform-entry-register"| ac:macro-id="ec132d3d-37c5-48d8-8a11-afc352b2e01a" ac:macro-id="confiform-entry-register"| ac
ac:schema-version="1">
          <ac:rich-text-body>

          </ac:rich-text-body>
       </ac:structured-macro>
          <ac:structured-macro ac:macro-id="a35a3f59-9af3-4b51-a083-e3666d6e033a" ac:name="confiform-field-
definition" ac:schema-version="1">
              <ac:parameter ac:name="fieldName">includeActiveOnly</ac:parameter>
              <ac:parameter ac:name="fieldLabel">Only active</ac:parameter>
              <ac:parameter ac:name="type">checkbox</ac:parameter>
          </ac:structured-macro>
       >
           <ac:structured-macro ac:macro-id="94905715-ee3a-440c-9556-86db790db4a9" ac:name="confiform-field-
definition" ac:schema-version="1">
              <ac:parameter ac:name="fieldName">choices</ac:parameter>
              <ac:parameter ac:name="fieldLabel">Your choice</ac:parameter>
              <ac:parameter ac:name="values">select id, name, is_active from cf_demo_values</ac:parameter>
              <ac:parameter ac:name="extras">7422036e-9a6f-4455-92d9-7140131fb9da</ac:parameter>
              <ac:parameter ac:name="type">dbselect</ac:parameter>
          </ac:structured-macro>
       <a>>
           <ac:structured-macro ac:macro-id="afcef165-b323-4b02-adb0-9cfd00d61da2" ac:name="confiform-field-
definition-rules" ac:schema-version="1">
              <ac:parameter ac:name="condition">includeActiveOnly:true</ac:parameter>
              <ac:parameter ac:name="fieldName">choices</ac:parameter>
              <ac:parameter ac:name="values">isactive:true</ac:parameter>
              <ac:parameter ac:name="action">Apply Filter on a field</ac:parameter>
              <ac:parameter ac:name="actionFieldName">includeActiveOnly</ac:parameter>
          </ac:structured-macro>
       <ac:structured-macro ac:macro-id="310c818c-9460-4d7b-a780-ba66ba4c5dda" ac:name="confiform-field-
definition-rules" ac:schema-version="1">
              <ac:parameter ac:name="condition">includeActiveOnly:false</ac:parameter>
              <ac:parameter ac:name="fieldName">choices</ac:parameter>
               <ac:parameter ac:name="values">*</ac:parameter>
              <ac:parameter ac:name="action">Apply Filter on a field</ac:parameter>
              <ac:parameter ac:name="actionFieldName">includeActiveOnly</ac:parameter>
          </ac:structured-macro>
       </ac:rich-text-body>
</ac:structured-macro>
```