

Multi-Attribute selection and filtering from the form view

When the form is changed into “multi-attribute search mode” all widgets will be set to empty state - any value that is filled in will be used and treated as an "AND" filter.

Then, you would have "set as selection" and "add (/remove) to (/from) selection" buttons. Add to selection would be the way of creating "OR" filters.

It should be possible to use the following operators:

- <, >, <=, >= for numeric or date values
- IN and NOT IN operator for strings and integer data (value relations, relation reference widgets)
- LIKE|ILIKE operator for string based columns
- Fuzzy search
- Option to search for null values
- Allow QGIS expression functions in the search, e.g. doing a calculation in the search (will be postponed to a second iteration (improvement) of the multi-attribute search function)
- A dropdown box next to the widget will expose the various possible operators. They will be filtered by data type.

We should allow to either **filter** the data (narrow down the available records) or do a **selection**. There should be tool buttons (drop-down buttons with an arrow on the right) exposing the different modes like “add to current selection”, “remove from current selection” or “add to current filter” and “remove from current filter”. Tools to work on the selection or on the filter are already in the toolbars at the top/bottom of the form.

[pcav]

I would suggest to add a Search entry for each layer, besides the Filter one, in the legend > Right click. Then show a form (with the dropdowns etc., as defined for the layer) where the user can select or type (with autocompletion and automatic selection of ranges) the search criteria, and automatically zoom to selected items.

Note: care should be taken for large data bases. At least for PostGIS, Oracle, possibly MS SQL server etc., filtering should be done as much as possible on the server side, for performance reasons.