

Advanced Many to Many Selector Guide

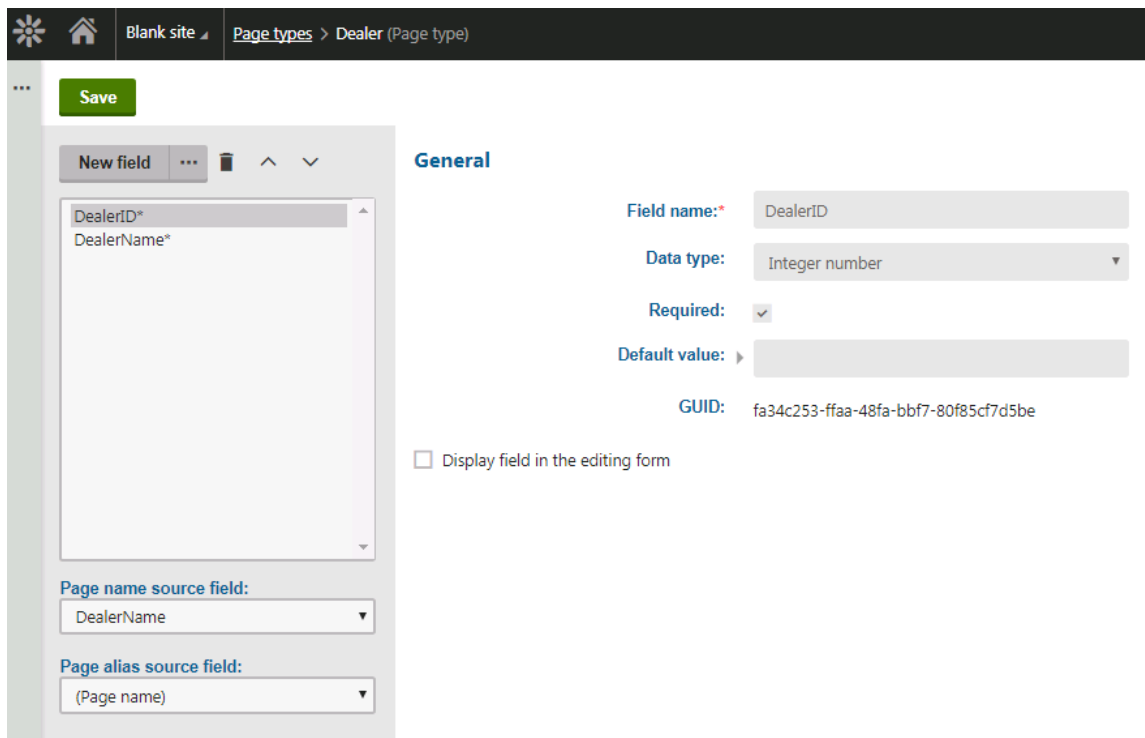
The Advanced Many-To-Many Selector tool operates as a means of associating the current item with multiple other items. These relationships are then stored in a Join Table, or a table that refers to both items it's associating.

For simplicity sake, we will be using the example of a Dealer that has multiple States they operate in.

Setup

To use this tool, once installed into Kentico, first make sure to Resign all your Macros (System -> Macros -> Signatures, Resign all Macros)

Next, we'll define our Page Type of Dealer, giving it a Dealer Name.



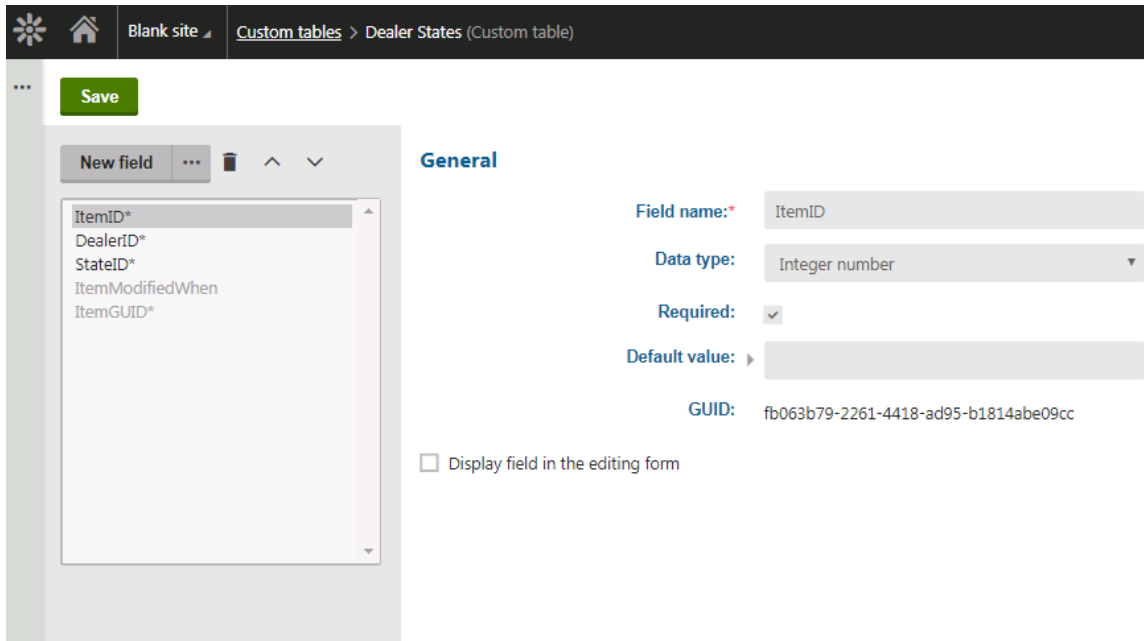
The screenshot shows the Kentico CMS interface for configuring a new field. The breadcrumb navigation at the top indicates the path: Blank site > Page types > Dealer (Page type). A green 'Save' button is visible in the top left. The 'General' configuration panel is active, showing the following details for the field 'DealerID':

- Field name:** DealerID
- Data type:** Integer number
- Required:**
- Default value:** (empty)
- GUID:** fa34c253-ffaa-48fa-bbf7-80f85cf7d5be

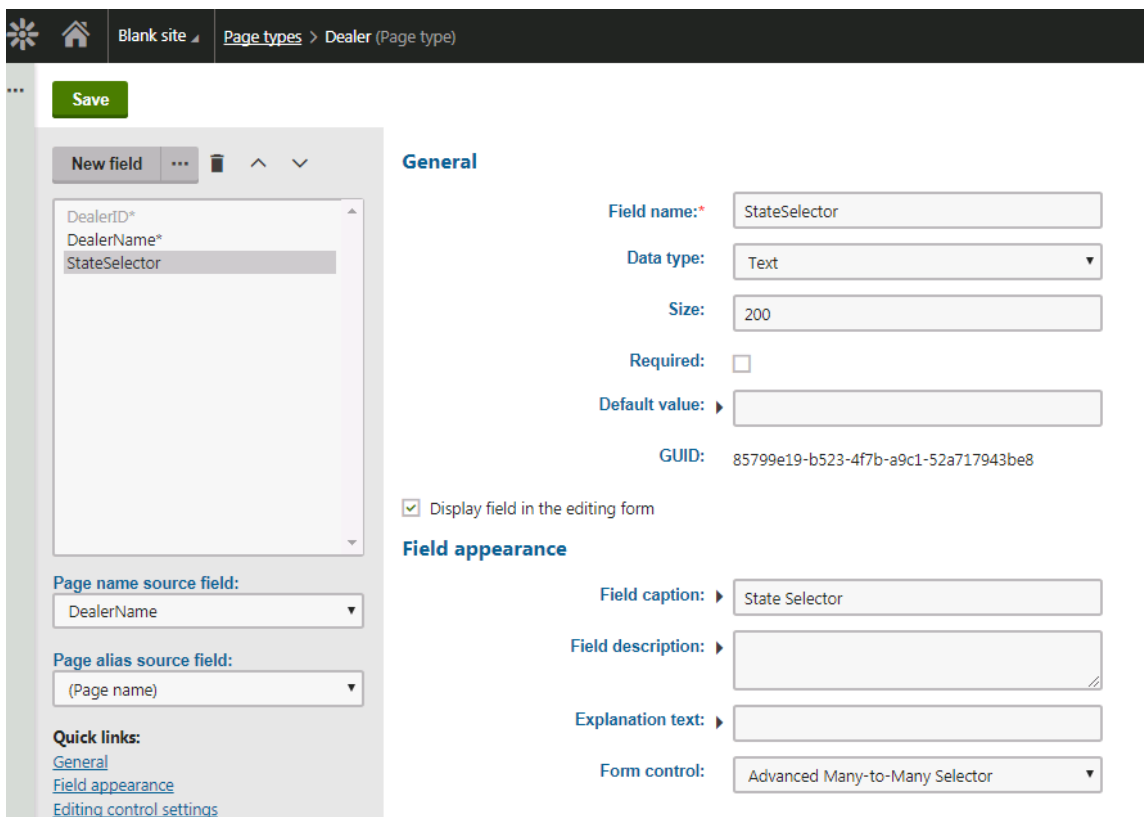
Below the field list, there is a checkbox labeled 'Display field in the editing form' which is currently unchecked. The field list on the left contains 'DealerID*' and 'DealerName*'. At the bottom of the configuration panel, there are two dropdown menus: 'Page name source field' set to 'DealerName' and 'Page alias source field' set to '(Page name)'.

Since States already exist in the CMS_State table, we won't need to create or modify that.

Lastly we need a Joining Table. Although Custom Module Classes that are Binding Classes work best, for this example we will use a Custom Table, called "DealerStates." This will have a DealerID, and a StateID. These two columns will reference of course the Dealer and State tables to join them.

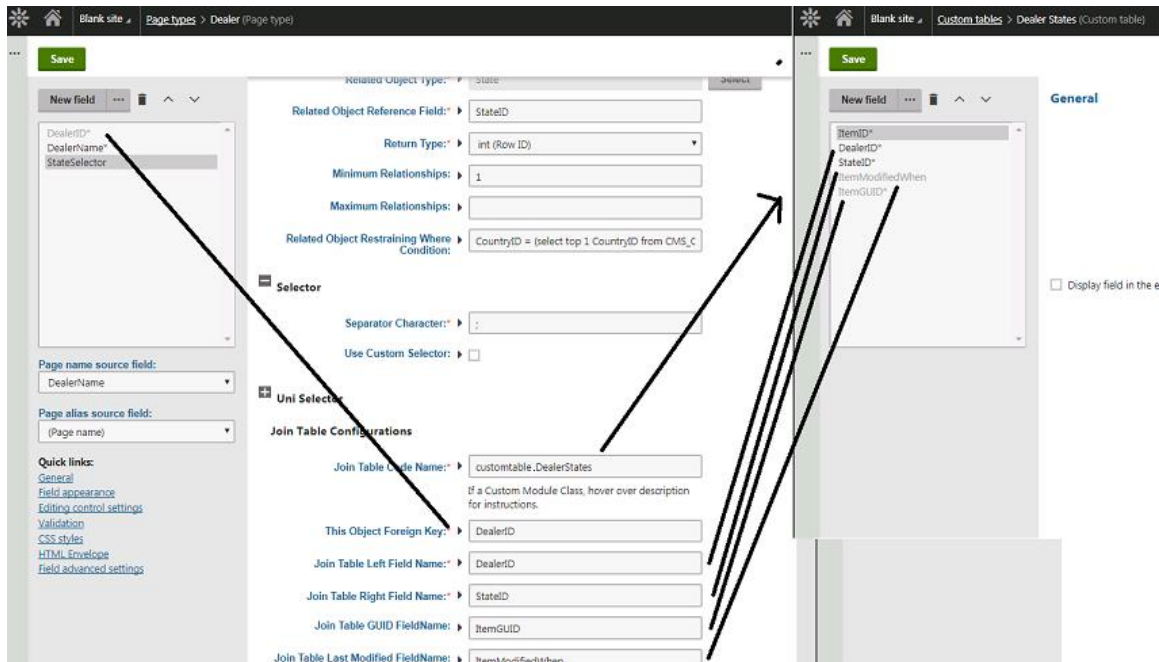


Next we will add a Field without Database Representation to our Dealer Page Type, and set the Control to the Advanced Many to Many Selector.



The configuration for this will be as followed:

- **Related Object Type:** State (that is what we are joining to Dealers)
- **Related Object Reference Field:** StateID (What field from the CMS_State table we are pulling the reference from)
- **Return Type:** Int (since the key we are referencing is their row ID which is an Integer. Can use GUIDs and CodeNames as well)
- **Related Object Restraining Where Condition:** A limit that only US States are valid: CountryID = (select top 1 CountryID from CMS_Country where CountryTwoLetterCode = 'US')
- **Join Table Code Name:** The code name of the Dealer States Joining Custom Table (customtable.dealerstates)
- **This Object Foreign Key:** The Identifier for the Dealer Object (DealerID)
- **Join Table Left Field Name:** The Field Name on the join table that will hold the "Left" relationship (DealerID)
- **Join Table Right Field Name:** The Field name on the join table that will hold the "Right" relationship (StateID)
- **Join Table GUID Field Name:** Only enter if the Join Table class has an auto generated GUID (ItemGUID)
- **Join Table Last Modified Field Name:** Only enter if the Join class has an auto generated Last Modified (ItemModified)
- **Join Table Code Name Field Name:** Only enter if the Join Class has a Code Name, this one doesn't.
- **Join Table Site ID Field Name:** Only enter if the Join Class has a Site ID field, this one doesn't.



Set the Selector

The Advanced Many To Many Selector by default leverages the CMS Uni Selector. However, using the "Use Custom Selector" you can select any form control that would return the identifier values, separated by the delimiter specified. We will not cover this as it's rare that you will need this, and instead show the basic configuration of the Uni Selector for our example.

- **Return Column Name:** The Column name that the Uni Selector will return for its values, in this case the StateID
- **Object Site Name:** Optional, the Site Name to use for showing items, #currentsite defaults to the current site.
- **Display Name Format:** Using macros, can set what shows in the Uni Selector Dialog
- **Selection Mode:** The Uni Selector mode. Multiple Textbox is a good one that allows multiple items to be selected.
- **Where Condition:** A limit that only US States are valid: CountryID = (select top 1 CountryID from CMS_Country where CountryTwoLetterCode = 'US')
- **Order By:** The Order By for the Items shown.

StateSelector

Page name source field:
DealerName

Page alias source field:
(Page name)

Quick links:
[General](#)
[Field appearance](#)
[Editing control settings](#)

Uni Selector

Return column name: StateID

Object site name: #currentsite

Display name format: {% StateDisplayName %}

Selection mode: Multiple text box

Additional columns:

Where condition: CountryID = (select top 1 CountryID from CMS_Country where CountryTwoLetterCode

Order by: StateDisplayName

Enabled column name:

Allow edit text box:

That's it, now our tool is configured! Now let's add a new Dealer:

The screenshot shows a web application interface for adding a new dealer. At the top, there's a navigation bar with 'Blank site' and 'Pages > New Dealer'. Below that are buttons for 'Save', 'Save and create another', and 'Spell check'. The main form has three fields: 'Dealer Name' with the value 'My Dealer', 'State Selector' (which is currently empty), and 'Publish from' with a 'Now' button. To the right of the 'State Selector' field are 'Select' and 'Clear' buttons. A modal window titled 'Select item' is open in the foreground, showing a search bar, a 'Search' button, and a list of states with checkboxes. The states 'Alaska', 'California', and 'Connecticut' are checked. At the bottom of the modal is a 'Select' button. An arrow points from the 'Select' button in the modal to the 'State Selector' field in the main form.

And once saved, the relationship table is populated and ready for you to leverage.

The screenshot displays the Kentico CMS interface. The top navigation bar shows 'Blank site' and 'Pages > My Dealer (Page)'. The main area is divided into a left sidebar with a tree view and a right form configuration area. The tree view includes 'Blank site', 'Google', 'Html-Module-Test', 'Test Multi Children form', 'Testing', 'Class Form Test', 'My Dealer', and 'Test'. The form configuration area has tabs for 'Page', 'Design', 'Form', 'Properties', 'Analytics', and 'Test'. The 'Form' tab is active, showing fields for 'Dealer Name' (My Dealer), 'State Selector' (69;73;75), 'Publish from', and 'Publish to'. Below the form, a browser address bar shows the URL: 'kentic10.avastonetest.com/Admin/CMSAdministration.aspx#5eddc608-1b8a-4a53-9967-f501e1415d9d'. The bottom section shows 'Custom tables > Dealer States (Custom table)'. A sidebar on the left lists 'General', 'Fields', 'Layout', 'Transformations', 'Queries', 'Sites', and 'Alternative forms'. The main area of this section has a 'New item' button and a 'Select displayed fields' button. A message box states: 'The first 5 columns are displayed by default. Click 'Select displayed fields' button to modify the filter.' Below this is a table with the following data:

Actions	ItemID	Dealer	State	Modified when	GUID
	1	1	69	10/26/2017 9:05:01 PM	c796981a-ffcd-4f3d-9000-6a4028057b41
	2	1	73	10/26/2017 9:05:01 PM	a82a9082-d24d-4f99-ab3e-46e4c90b4064
	3	1	75	10/26/2017 9:05:01 PM	e8350d63-270d-4b1c-8cda-0150d03c4888