

Creating a Custom Independent Value Set in Oracle Fusion HCM Cloud Application

By: Ashish Harbhajanka

Introduction

Before we start to demonstrate how to create a Custom Independent Value Set lets try to understand what is meant by a Value Set.

In Context of Oracle HCM Cloud Application (applicable for Oracle E-Business Suite too) a value set is a group of valid values that you assign to a flex-field segment (to control the values that are stored for business object attributes.

An end user enters a value for an attribute of a business object while using the application. The flex-field validates the value against the set of valid values that you configured as a value set and assigned to the segment.

For example, you can define a required format, such as a five-digit number, or a list of valid values, such as green, red, and blue.

In this article, we will create a very simple Independent Value Set (RECORDS_TO_SHOW which holds numeric values like 1,2,3,4,5)

Navigation

In order to create a new value set we would need to login to application with a user having appropriate login credentials (Application Implementation Administrator works for me) and choose '**Manage Value Sets**' Task under '**Setup and Maintenance**'

Navigator->Setup and Maintenance->Manage Value Sets



Creating a Custom Independent Value Set

Once we click on 'Manage Value Sets' a new page would open which would allow us to search for existing value sets as well as allow creation of new ones

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Manage Value Sets

Search

** Value Set Code

** Validation Type

** Value Data Type

** Module

** Description

Search Reset

Search Results

Actions View Format Freeze Detach Wrap Manage Values

Value Set Code	Protected	Description	Module	Validation Type	Value Data Type
No search conducted.					

Key Flexfield Usages Descriptive

View Format Freeze

Application

No data to display.

Now if we click on the (+) Icon under Search Results Section it would open up a new window

Create Value Set

Value Set Code

Description

Module

Validation Type

Value Data Type

Security enabled ☐

Data Security Resource Name

Also once you select the Module (Global Human Resources for this example) , Validation Type (Independent in this case) and Valid Data Type (Number for this case) new field would appear as shown

Create Value Set

Value Set Code

Description

Module

Validation Type

Value Data Type

Security enabled ☐

Data Security Resource Name

Definition

Precision

Scale

Minimum Value

Maximum Value

Note: Attributes prefixed by asterisk denote mandatory fields.

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We would populate the following details to create the Value Set

Attribute Name	Attribute Value
*Value Set Code	RECORDS_TO_SHOW
Description	Custom Independent Value Set of Number Type used to display the number of records to be shown
*Module	Global Human Resources
*Validation Type	Independent
*Value Data Type	Number
Security Enabled	
Data Security Resource Name	
Precision	
Scale	
Minimum Value	1
Maximum Value	9999

Once populated the UI would appear as below:

Value Set Code: RECORDS_TO_SHOW

Description:

*Module:

Validation Type:

Value Data Type:

☐ Security enabled

Data Security Resource Name: [Edit Data Security](#)

Definition

Precision:

Scale:

Minimum Value:

Maximum Value:

Next, we need to Click on 'Save' Option and the Value Set will be saved.

Creating Values for the Value Set

We need to click on the 'Manage Values' button to create new values

ORACLE HCM_IMPL

Edit Value Set: RECORDS_TO_SHOW [Manage Values](#) [Save](#) [Save and Close](#) [Cancel](#)

Value Set Code: RECORDS_TO_SHOW

Description: Custom Independent Value Set of Number Type used to display

*Module:

Validation Type:

Value Data Type:

☐ Security enabled

Data Security Resource Name: [Edit Data Security](#)

Definition

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Once we click on 'Manage Values' it would bring up the below screen

We can now click on (+) icon to create new values

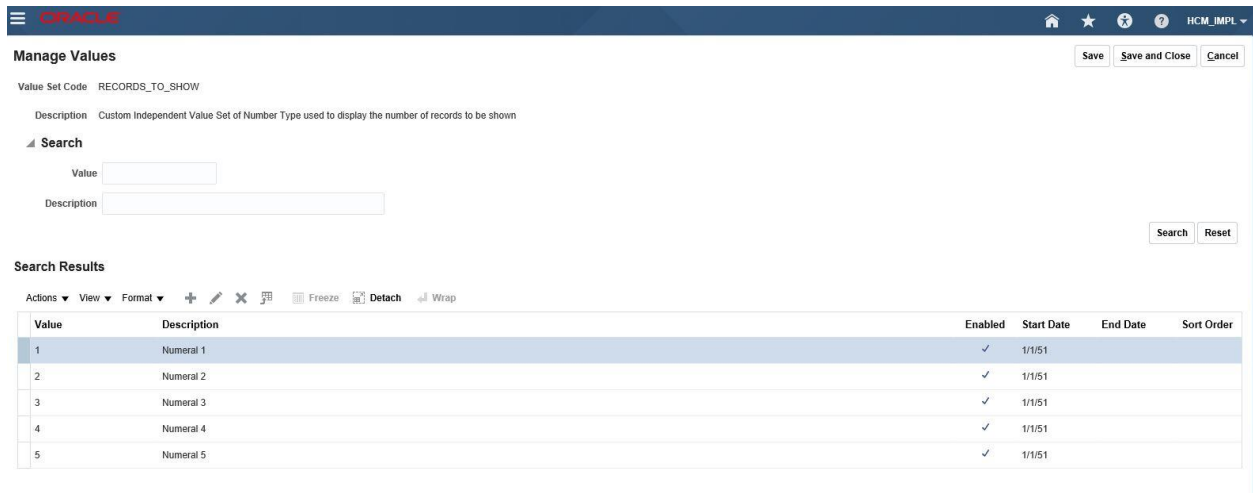
We would populate just few entries based on below info

*Value	Description	Enabled	Start Date	End Date	Sort Order
1	Numeral 1	Yes	01/01/1951		
2	Numeral 2	Yes	01/01/1951		
3	Numeral 3	Yes	01/01/1951		
4	Numeral 4	Yes	01/01/1951		
5	Numeral 5	Yes	01/01/1951		

Once the above details are populated and saved in the application the screen would appear as shown below:

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Manage Values

Value Set Code: RECORDS_TO_SHOW

Description: Custom Independent Value Set of Number Type used to display the number of records to be shown

Search

Value:

Description:

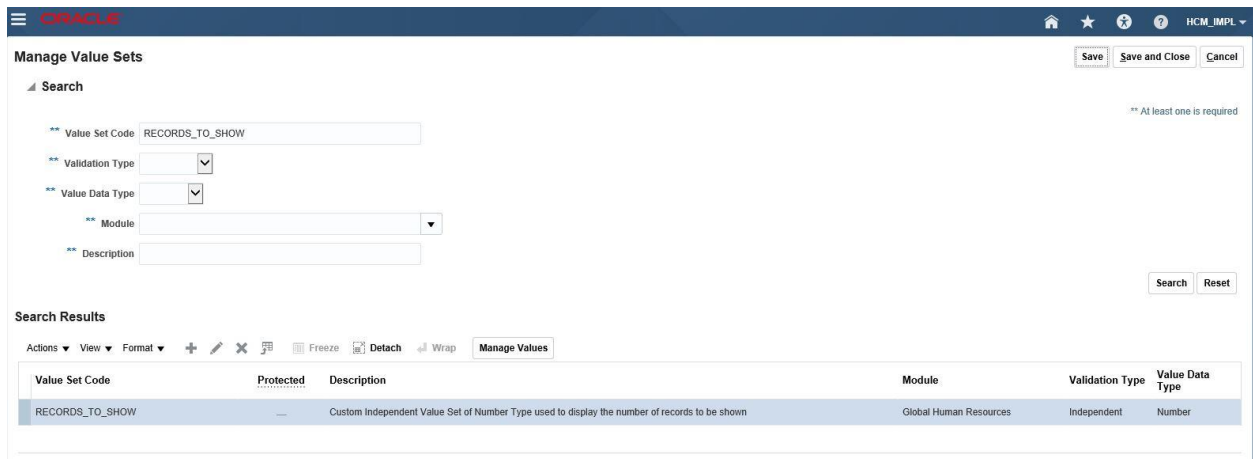
Search Results

Value	Description	Enabled	Start Date	End Date	Sort Order
1	Numeral 1	✓	1/1/51		
2	Numeral 2	✓	1/1/51		
3	Numeral 3	✓	1/1/51		
4	Numeral 4	✓	1/1/51		
5	Numeral 5	✓	1/1/51		

Now the Value Set Creation is complete

Verification

We would now try to validate whether the Value Set has been created. For this we would try to perform a search on the 'Manage Value Sets' screen using Value Set Name as **RECORDS_TO_SHOW**



Manage Value Sets

Value Set Code: RECORDS_TO_SHOW

Validation Type: Independent

Value Data Type: Number

Module: Global Human Resources

Description: Custom Independent Value Set of Number Type used to display the number of records to be shown

Search Results

Value Set Code	Protected	Description	Module	Validation Type	Value Data Type
RECORDS_TO_SHOW	—	Custom Independent Value Set of Number Type used to display the number of records to be shown	Global Human Resources	Independent	Number

Fetching Value Set Values Using Query

Now since we have a Value Set already created, some of us (techies specially) might even be interested to know whether we can fetch the Value Set values using a query.

So let-us see how to do that

We need to make use of two tables namely FND_FLEX_VALUE_SETS (holds value set property related details) and FND_FLEX_VALUES (holds actual values)

Creating a Custom Independent Value Set in Oracle Fusion HCM Cloud Application

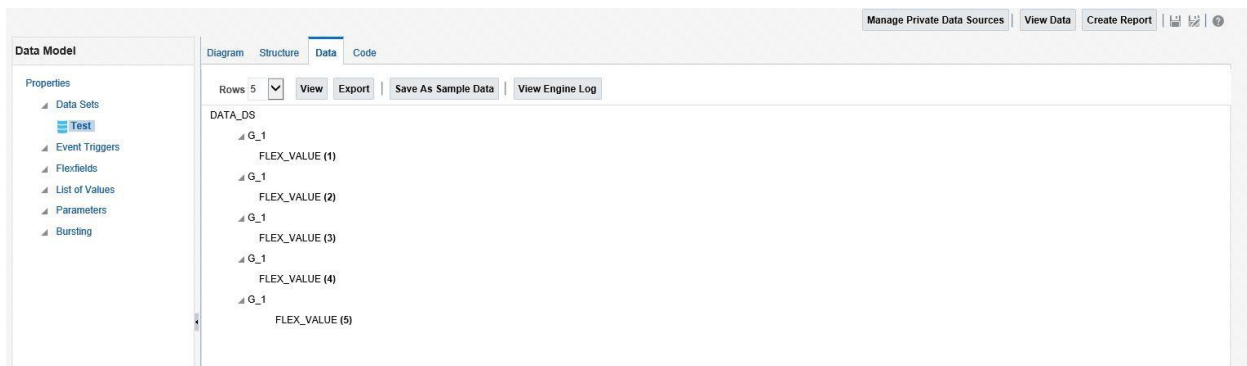
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The SQL Query to be used is:

SQL Query

```
select ffv.flex_value
from fnd_flex_value_sets ffvs,
     fnd_flex_values ffv
where ffv.flex_value_set_id = ffvs.flex_value_set_id
and ffvs.flex_value_set_name = 'RECORDS_TO_SHOW'
and ffv.enabled_flag = 'Y'
and TRUNC(SYSDATE) BETWEEN NVL(ffv.start_date_active,SYSDATE) and
NVL(ffv.end_date_active,SYSDATE+1)
```

And once we use this in a Data Model we would get the data values as output



And with this we have come to the end of the article. Hope you guys had a good time reading this article.