



PUBLIC

How-To: Setup and Enhance the SAP HANA-Based Search for Material

Applicable Releases:
All

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Document History

Document Version	Description
1.0	First official release of this guide (August 2016)
2.0	Small corrections, layout update (February 2023)

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1. BUSINESS SCENARIO

SAP Master Data Governance provides business processes to find, create, change, and mark master data for deletion. It supports the governance of master data in a central hub and the distribution to connected operational and business intelligence systems.

The processes are workflow-driven and can include several approval and revision phases, and the collaboration of all users participating in the master data maintenance.

A users can search for materials that are stored in the active or in the staging area. The search criteria combine material attributes and classification. The search uses SAP HANA-Based Search, Enterprise Search or alternative search providers.

As of MDG 7.0 it is also possible to use SAP HANA-Based Search as search provider. If you have extended the data model MM and want to search with these new fields you have to extend the search.

This guide provides background information about the SAP HANA-Based Search and describes how to configure it if you have extended the data model.

2. GENERAL INFORMATION

Function in Detail: Material Processes

Search Options in SAP Master Data Governance

The following options are delivered:

You can use **SAP HANA-based search**.

- You can use it in a side-by-side approach or fully embedded if MDG itself runs on an SAP HANA database.
- Follow the Configuration Guide which is available on [SAP Help](#).
- With SAP HANA-based search for MDG, the federated search is not supported. If you require search capabilities across systems and beyond the MDG system, Enterprise Search can still be used.

You can use **Enterprise Search**.

- You have installed and connected Enterprise Search either in embedded or federated form.

The following option is not delivered:

You can use **Database Search** in exceptional cases if the two delivered options are not feasible.

- Database Search is not released to be used in the context of master data governance for material for live systems – it is only intended to be used as a temporary workaround for POC/Test purposes.
- Please follow the extension guide [Replace Enterprise Search by DB or alternative search provider](#) which also lists the limited capabilities.

SAP Online Help:

https://help.sap.com/docs/SAP_S4HANA_ON-PREMISE/6d52de87aa0d4fb6a90924720a5b0549/580b16faff944c77a4ac02b832e666ff.html

Guide available on the MDG Community (<https://www.sap.com/documents/2015/07/60c49158-5b7c-0010-82c7-eda71af511fa.html>)

3. COMPARISON: ENTERPRISE SEARCH AND SAP HANA SEARCH

Capabilities of the Search Options of MDG for Material

Main Features

Topic	Enterprise Search	SAP HANA-based search
Fuzzy Search	Yes	Yes
Support of Search Ranking (Score)	No (SAP Note 2284745)	Yes
Duplicate Check	Yes	Yes
Duplicate Check with Fuzziness	Yes, can't be switched off	Yes, configurable (defined by search view)
Long texts (multi languages)	Yes	Yes
Free-text	Yes	Yes
Classification	Yes	Yes
Time-Dependent Classification	Yes	No (SAP Note 2284745)
Extensibility with fields	Yes (higher effort)	Yes (lower effort)
TCO	High (additional TREX hardware)	Low (embedded), High (side-by-side)
Multiple Search Views (UI)	No	Yes

4. UPGRADE SAP HANA SEARCH

We recommend installing the highest available version of the SAP HANA database.

Note: If you use SAP HANA-Based Search for Material Master then you must run the report program `MDG_HDB_MAT_MIGRATE_LONGTEXT` to build the longtext for search after upgrade.

Note: With MDG on S/4HANA, if you use SAP HANA-Based Search for Material Master then you must run the report program `MDG_HDB_MAT_MIGRATE_LONGTEXT` to build the longtext for search before you use the SAP HANA-Based Search.

5. RESTRICTIONS

There is a restriction in class `CL_MDG_BS_MAT_HDB_SEARCH` which does not allow to use an entity which has no persistent table.

The following is a list of entities that are read-only or cannot be selected for search.

- `MLANSALES` (Tax Classification for Sales) and `MLANPURCH` (Tax Classification for Purchasing), as they do not have any persistent table, but rather use structures `STEUMM` and `STEU`
- `MATCHGMNG` (Material Change Management)
- `DRADTXT` (Document Link Test)

6. STEP BY STEP EXPLANATION

The following explanation shows you how to set up the SAP HANA-Based Search. Follow the SAP online help to set up SAP HANA-Based search.

SAP Online Help:

https://help.sap.com/docs/SAP_S4HANA_ON-PREMISE/6d52de87aa0d4fb6a90924720a5b0549/580b16faff944c77a4ac02b832e666ff.html

Configuring SAP HANA-Based Search for MDG:

https://help.sap.com/docs/SAP_S4HANA_ON-PREMISE/6d52de87aa0d4fb6a90924720a5b0549/e0de68cd46914e3797762c43cba621bd.html

6.1. Save and Generate Delivered Search Views

Select the templates Search View MDGM_MM_ORGS or MDGM_MM_ORGS_CLF (with classification), choose *Edit*, assign a SAP HANA content repository package such as `ztmp.mdg.material`, choose *Save* and *Generate*.

6.1.1. Provide the General Data Information

Select *Rule Set* checkbox only if you like to generate the rule set.

Create Search View: Step 1 (Enter General Data)

< Previous | Next > | Edit | Save | Generate | Cancel | [Icons]

1 Enter General Data | 2 Select Entities and Attributes | 3 Review and Generate

Search View : ZMM_ORGS1 | Description : | Business Object Type : Material

General Data

* Search View: ZMM_ORGS1

* Description: Material Search ZMM_OI

* Business Object Type: 194 Material

Hana Package: tmp.mdg.customobjects

Rule Set: ☒

Classification-relevant: ☐

Select the Attributes for the Search View.

Display Search View: Step 2 (Select Entities and Attributes)

< Previous | Next > | Edit | Save | Generate | Cancel | [Icons]

1 Enter General Data | 2 Select Entities and Attributes | 3 Review and Generate

Search View : MDGM_MM_ORGS_CLF | Description : HANA Search With Classification | Business Object Type : Material

Select Entities and Attributes

[Icons] | Select All | Reset | [Icons]

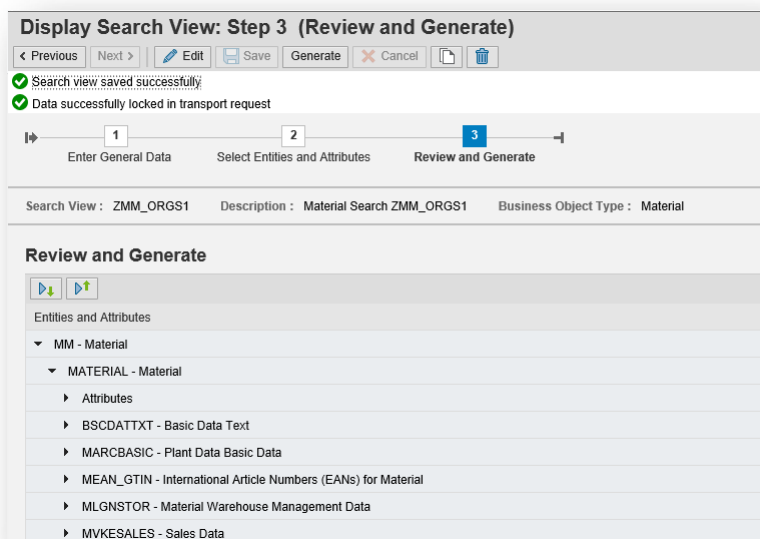
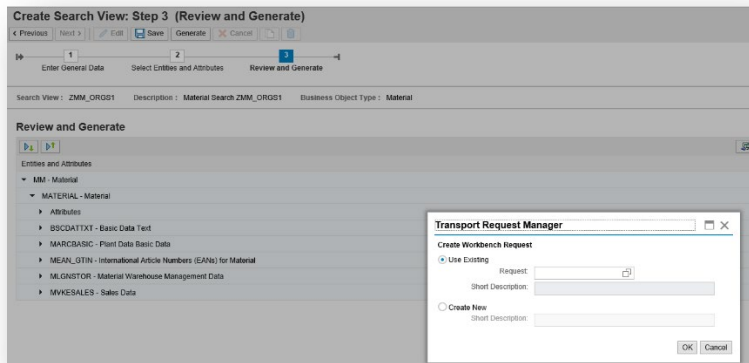
Entities and Attributes	Include in view
MM - Material	<input checked="" type="checkbox"/>
MATERIAL - Material	<input checked="" type="checkbox"/>
Attributes	<input type="checkbox"/>
BSCDATXT - Basic Data Text	<input checked="" type="checkbox"/>
CLASSASGN - Class Assignment (Classification)	<input checked="" type="checkbox"/>
INTCMNT - Internal Comment	<input checked="" type="checkbox"/>
MARAPURCH - Material Purchasing Data	<input type="checkbox"/>
MARASALES - Material Sales Data	<input type="checkbox"/>
MARCATP - Plant Data ATP	<input type="checkbox"/>
MARCBASIC - Plant Data Basic Data	<input checked="" type="checkbox"/>
Attributes	<input type="checkbox"/>
WERKS - Plant	<input checked="" type="checkbox"/>
FPRFM - Distr. profile	<input type="checkbox"/>
LOGGR - Log. handling group	<input type="checkbox"/>
MARCLVORM - DF at plant level	<input type="checkbox"/>
MMSTA - Plant-sp.matl status	<input checked="" type="checkbox"/>
MMSTD - Valid from	<input type="checkbox"/>
SERNP - Serial no. profile	<input type="checkbox"/>
XCHPF - Batch management	<input type="checkbox"/>
PRCMARCSA - Profit Center	<input type="checkbox"/>
MARCCSTNG - Plant Data Costing	<input type="checkbox"/>
MARCFRCST - Plant Data Forecasting	<input type="checkbox"/>
MARCFRSTR - Plant Data Foreign Trade	<input type="checkbox"/>
MARCFRPAR - Plant Data Forecast Parameters	<input type="checkbox"/>

Check the included entities and attributes. If you need other entities or attributes, create a new search view according chapter 6.2 Create, Save and Generate new Search Views.

6.1.2. Save Search View

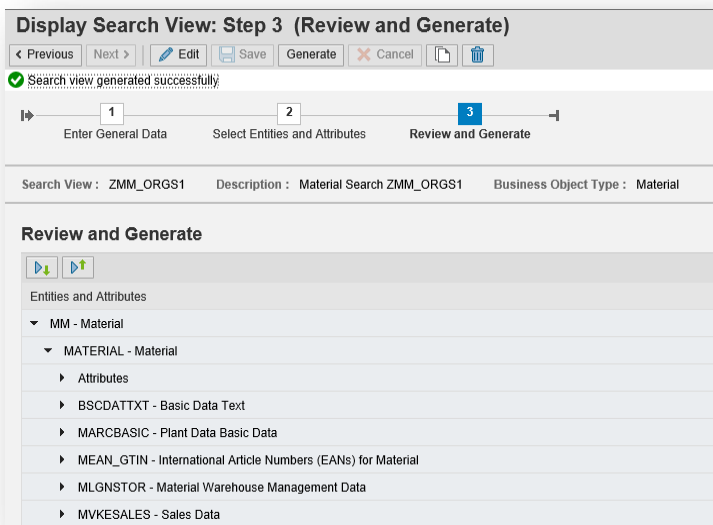
In Step 3, choose **Save** and create workbench request.

NOTE: Entities having the same key attributes cannot be selected together on the UI for rule set generation. For example, **WERKS** is a key attribute of **MARCPURCH** and **MARDSTOR**. Hence, only one such entity can be selected for rule set generation.



6.1.3. Generate

Choose the *Generate* button to generate the SAP HANA views and rule set.



After you generated the search view it can be manually edited within the SAP HANA Studio to update the search properties of an attribute. If the search view is regenerated later, the new search view overwrites the manually updated search view. That means, you have to update the attributes again manually.

You can create a search rule set during the search view generation if you want the search to be performed based on search rule sets. If you choose the create ruleset option for a reuse model, a union SQL view is created on the attribute view in SAP HANA. This search rule set can also be manually updated according to the business requirements of the users after it is generated. If the search view is edited at a later date and is regenerated, the search rule set will not be regenerated/overwritten; it has to be manually adjusted.

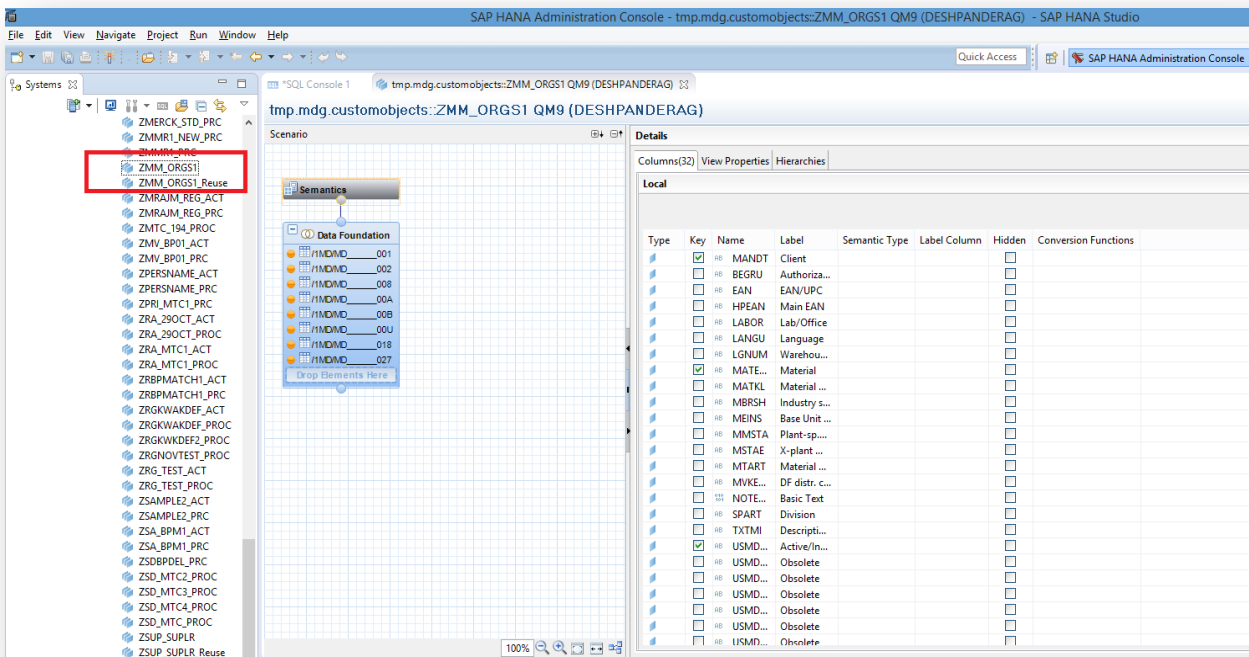
You must manually check out the generated search rule set to the Project Explorer view of the SAP HANA Studio Administration Console before it can be edited to change any parameter, such as the fuzzy value or weight of an attribute, and activate it to enable search based on this modified search rule set.

The information below provides detailed description of how to create, generate and modify SAP HANA search views and rule sets to suit your business needs.

6.1.4. SAP HANA Studio

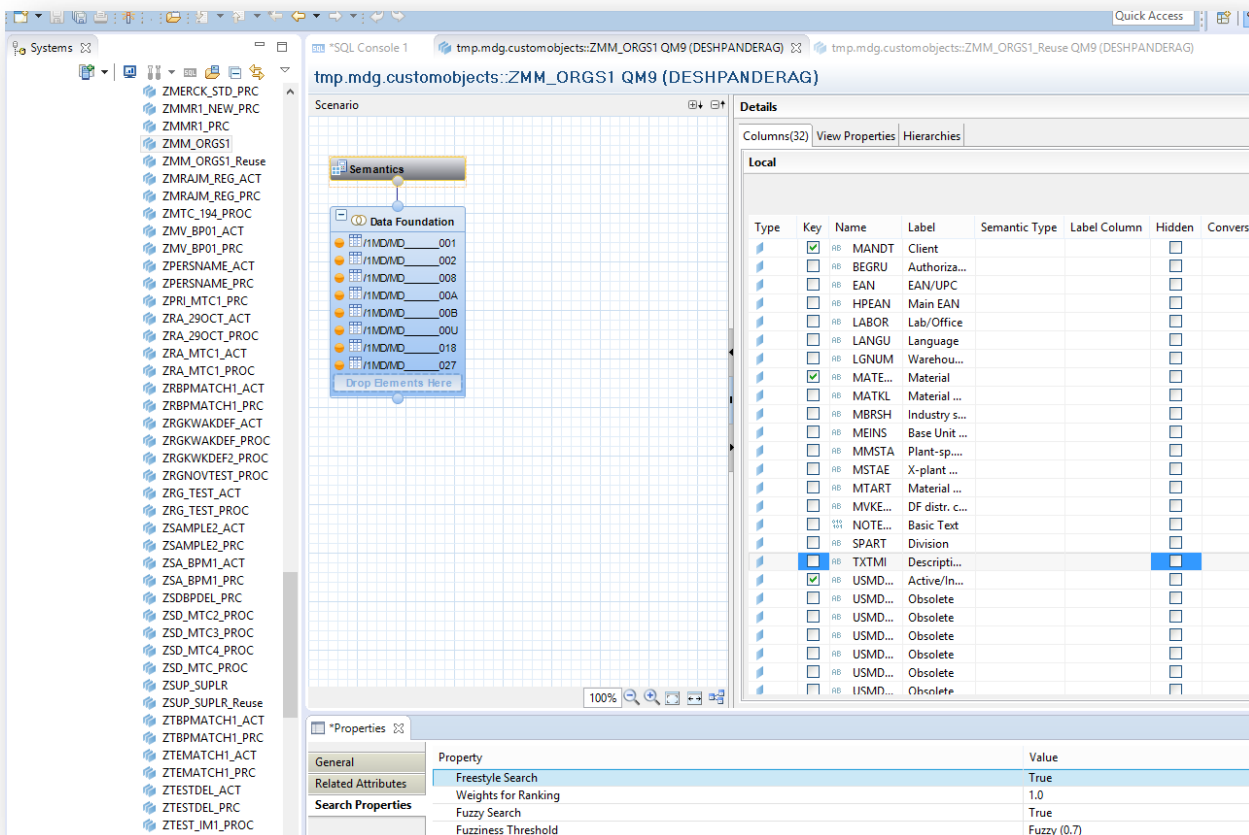
Go to the SAP HANA Studio and check the generated Views (optional step). For this, go to SAP HANA Administration Console. Go to Systems → <system name> → Content → SAP Hana Package name given above (for example ztmp → mdg → material).

You will see two attributes views.



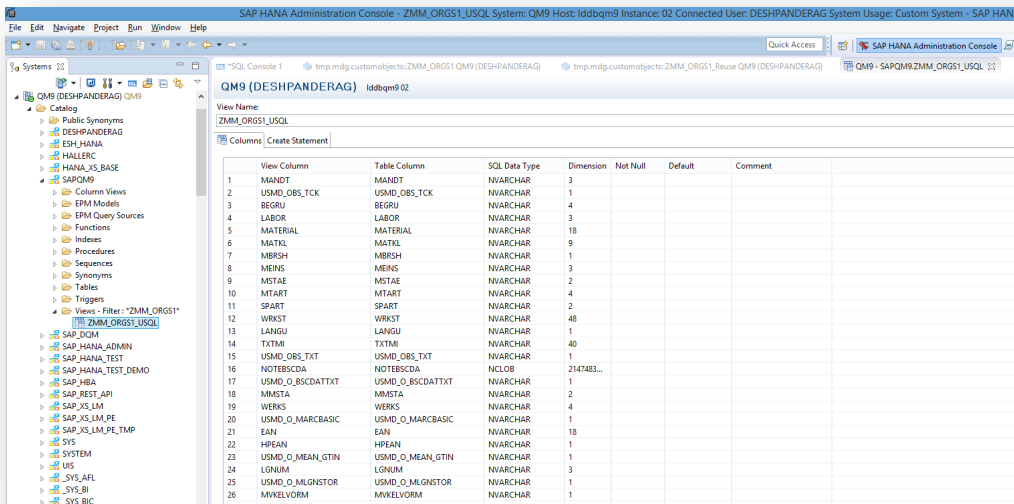
You may customize the generated views by adding fields or removing fields. You may also change the search properties of any field. Save and activate the customized view.

NOTE: If you re-generate the view within the SAP HANA Search generation UI then the manual modifications are overwritten.



Check the generated Union SQL View (optional step).

Go to Catalog → <schema name (e.g., SAPQM9)> → Views. You will see a union SQL view (for example, ZMM_ORGS1_USQL).

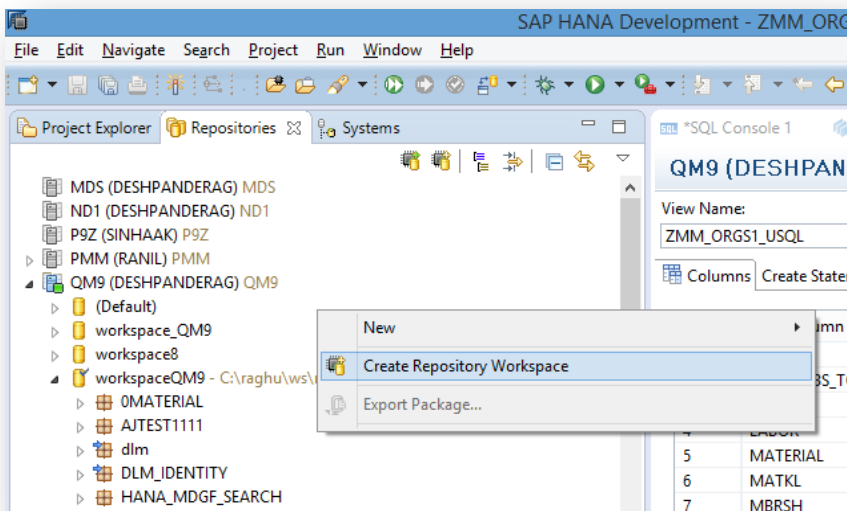


The screenshot shows the SAP HANA Administration Console interface. The left pane displays the catalog tree with the path: QM9 (DESHPANDERAG) QM9 → Views → Filter: 'ZMM_ORGS1*' → ZMM_ORGS1_USQL. The right pane shows the 'Columns' tab for this view, listing 26 columns with their respective table columns, SQL data types, dimensions, and other attributes.

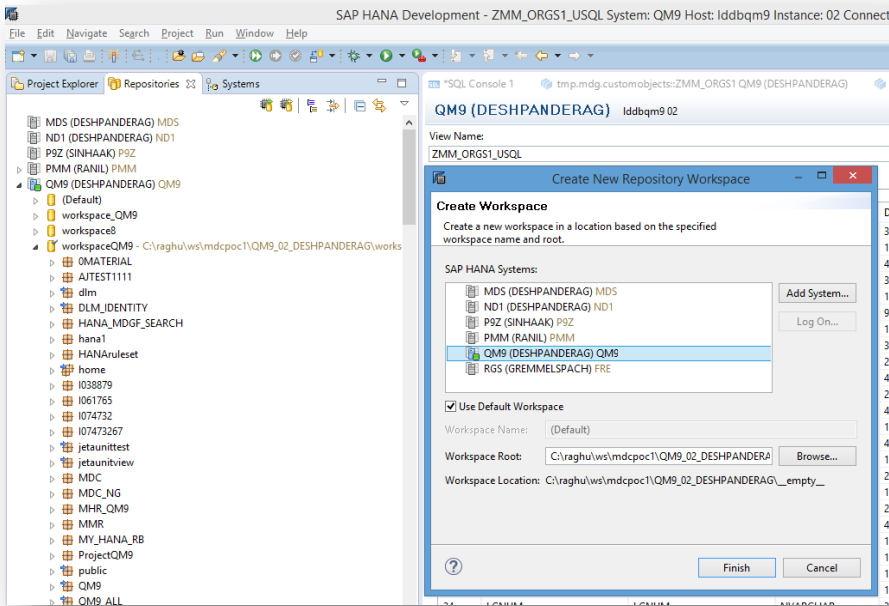
View Column	Table Column	SQL Data Type	Dimension	Not Null	Default	Comment
1 MANDT	MANDT	NVARCHAR	3			
2 USMD_OBS_TCK	USMD_OBS_TCK	NVARCHAR	1			
3 BEGRU	BEGRU	NVARCHAR	4			
4 LABOR	LABOR	NVARCHAR	3			
5 MATERIAL	MATERIAL	NVARCHAR	18			
6 MATKL	MATKL	NVARCHAR	9			
7 MBRSH	MBRSH	NVARCHAR	1			
8 MEINS	MEINS	NVARCHAR	3			
9 MSTAE	MSTAE	NVARCHAR	2			
10 MTART	MTART	NVARCHAR	4			
11 SPART	SPART	NVARCHAR	2			
12 WKST	WKST	NVARCHAR	48			
13 LANGU	LANGU	NVARCHAR	1			
14 TXTMI	TXTMI	NVARCHAR	40			
15 USMD_OBS_TXT	USMD_OBS_TXT	NVARCHAR	1			
16 NOTBSCDA	NOTBSCDA	NCLB	2147483...			
17 USMD_O_BSCDATTXT	USMD_O_BSCDATTXT	NVARCHAR	1			
18 MIMSTA	MIMSTA	NVARCHAR	2			
19 WERKS	WERKS	NVARCHAR	4			
20 USMD_O_MARCBASIC	USMD_O_MARCBASIC	NVARCHAR	1			
21 EAN	EAN	NVARCHAR	18			
22 HPEAN	HPEAN	NVARCHAR	1			
23 USMD_O_MEAN_GTIN	USMD_O_MEAN_GTIN	NVARCHAR	1			
24 LGNUM	LGNUM	NVARCHAR	3			
25 USMD_O_MLGNSTOR	USMD_O_MLGNSTOR	NVARCHAR	1			
26 MIKELVORM	MIKELVORM	NVARCHAR	1			

Check the generated Search Rule Set and update it to your business scenario, if required.

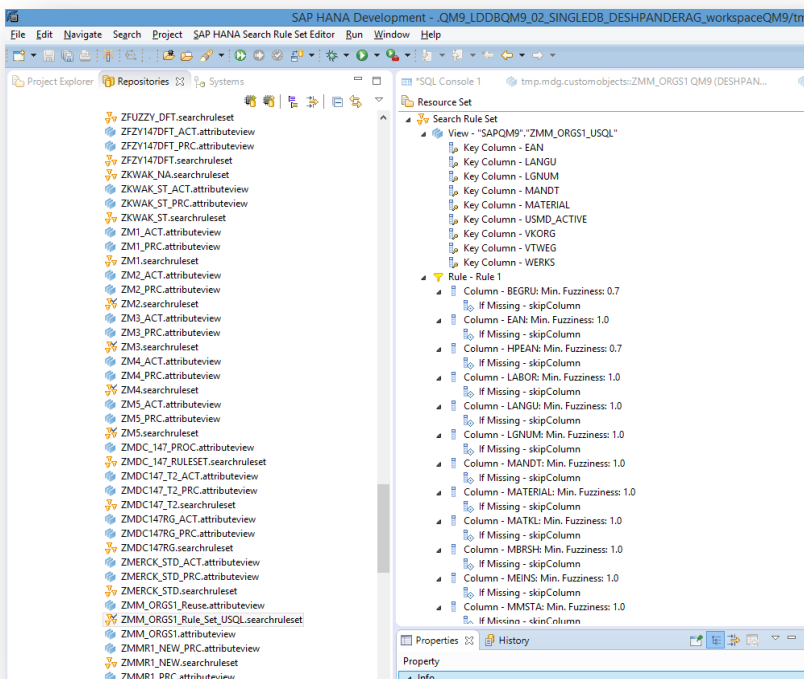
For this, go to SAP HANA Development view. Go to *Repositories* and right-click and select *Create Repository Workspace*



Select the system and provide the workspace name.

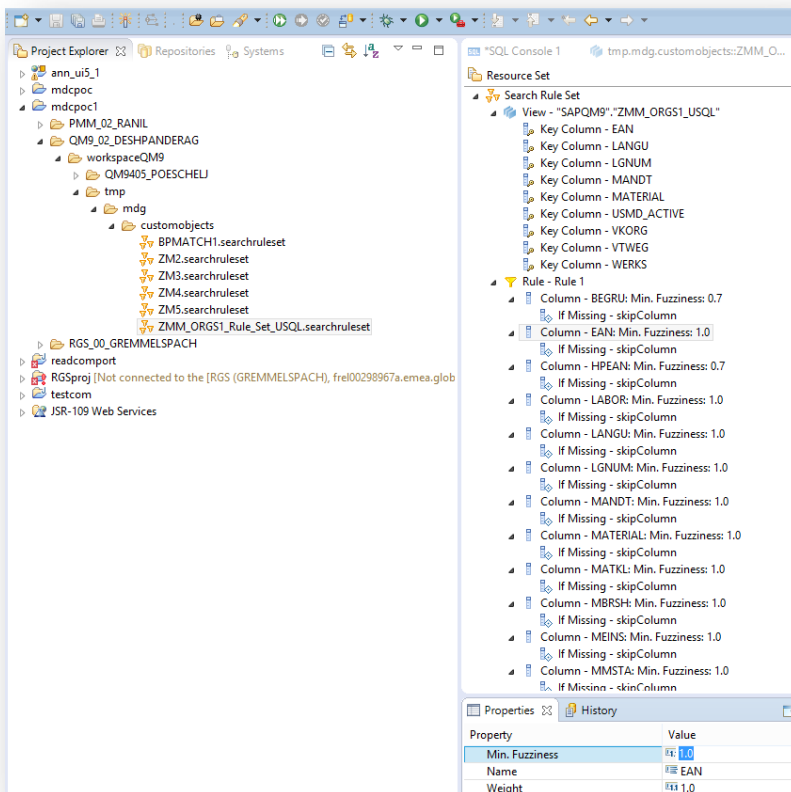


Go to your workspace folder and go to the SAP HANA package (For example, tmp → mdg → customobjects). You will see the search ruleset (For example ZMM_ORGS1_Rule_Set_USQL.searchruleset). Double-click on the rule set to check out the same.

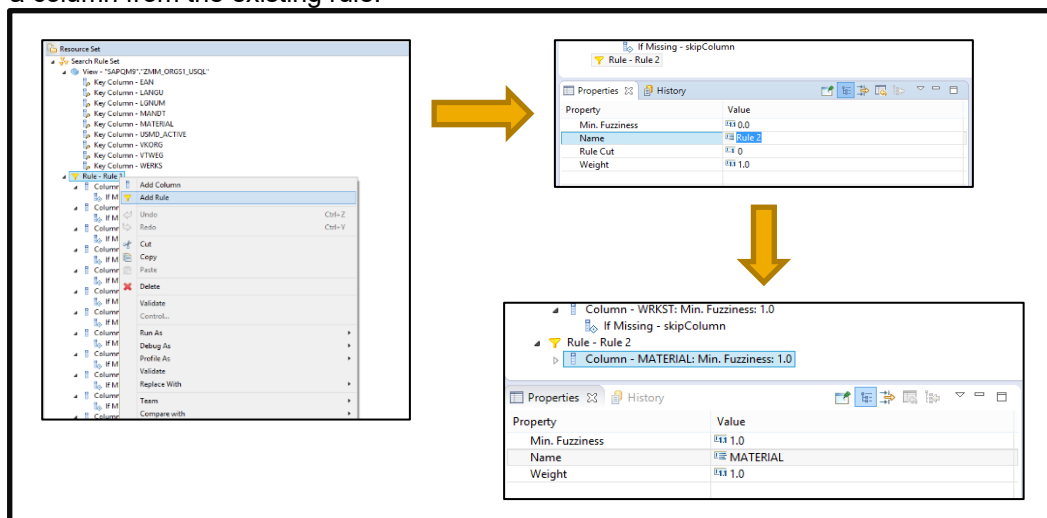


Modify the Rule Set (if required).

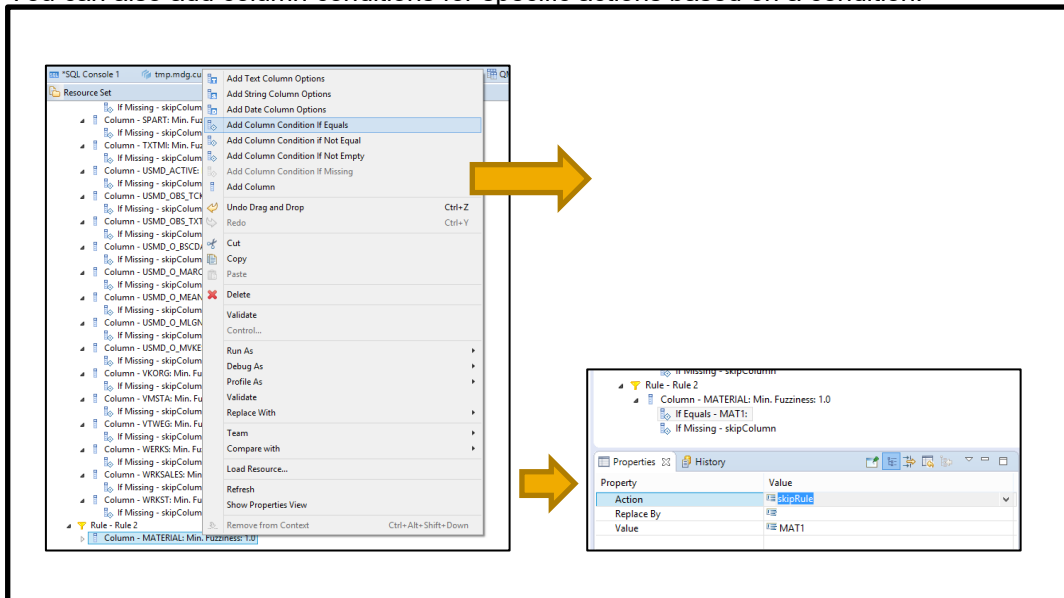
Go to Project Explorer and your workspace. Go to the SAP HANA package (For example, tmp → mdg → customobjects). Modify the properties for any attribute according to your business requirements.



You can also add a column (attribute) or add a rule and define the search criteria. You can add a column or drag/drop a column from the existing rule.



You can also add column conditions for specific actions based on a condition.



Save and activate the customized Rule Set.

6.2. Create, Save and Generate new Search Views

You can also copy an existing search view and edit it before generating the new search view. Include other entities or attributes.

You have extend your MDG Material data model (MM). There are following scenarios possible how you can extend it.

A. Extend with existing attributes (reuse):

Extend the data model with existing fields of the reuse table. Example: Fields HUTYP or ETIAR of MARA table.

B. Extend with custom attributes (reuse):

Extend the data model with custom fields that are in reuse. Example: new fields ZZBRAND and ZZPRODTYPE defined by customer in backend MARA table.

C. Extend with custom entities (reuse):

Extend the data model with a custom entity that is defined in reuse. Example: new table ZMDG_BUPA defined in reuse.

D. Extend with existing entities (based on flexible entities):

The data model is extended with a new entity but the data for this resides not in the underlying SAP database tables but in the MDG-generated tables.

See Extensibility Guides on the SAP MDG Community <https://community.sap.com/topics/master-data-governance/how-to#central-governance-of-material-data>

6.2.1. Model Extension with Attributes (Case A and B)

If you generate a new search view, the added attributes are automatically available.

If you extend the MM data model they will be visible for selection automatically in the Step 2 of the SAP HANA Search generation UI. For a new Search configuration you can select the model extended attributes for HANA search.

If you want to include the model extended attributes to an existing SAP HANA Search view then you must open the search view in edit mode and make the selection in Step 2. Saving and regenerating the search view will include the new fields into the views.

In the below screen you will see that the extended attributes are available for selection. In Step 2 perform the selection of the extended attributes.

Create Search View: Step 2 (Select Entities and Attributes)

< Previous | Next > | Edit | Save | Generate | Cancel | [Icon] | [Icon]

1 Enter General Data | **2 Select Entities and Attributes** | 3 Review and Generate

Search View : ZMM_ORGS Description : Material Search ZMM-ORGS Business Object Type : Material

NORMT - Industry Std Desc.	<input type="checkbox"/>
NRFHG - Qual f FreeGoodsDis.	<input type="checkbox"/>
NTGEW - Net Weight	<input type="checkbox"/>
NUMTP1 - EAN Category	<input type="checkbox"/>
PRDHA - Product hierarchy	<input type="checkbox"/>
PROFL - DG indicator profile	<input type="checkbox"/>
SATNR - Cross-plant CM	<input type="checkbox"/>
SERIAL - Serial No. Profile	<input type="checkbox"/>
SERLV - Serialization level	<input type="checkbox"/>
SPART - Division	<input checked="" type="checkbox"/>
VOLEHMARA - Volume unit	<input type="checkbox"/>
VOLUMMARA - Volume	<input type="checkbox"/>
WRKST - Basic material	<input checked="" type="checkbox"/>
XCHPFMARA - Batch management	<input type="checkbox"/>
XGCHPMARA - Appr batch rec. req.	<input type="checkbox"/>
ZACCP2 - ACCP	<input checked="" type="checkbox"/>
ZFLTP2 - FLTP	<input checked="" type="checkbox"/>
ZTIMS2 - Time	<input checked="" type="checkbox"/>
ZXFELD2 - ZXFELD2	<input type="checkbox"/>
EAN_MARA - EANUPC	<input type="checkbox"/>
TXTMI - Description (medium text)	<input checked="" type="checkbox"/>

In Step 3 review and save the data.

Create Search View: Step 3 (Review and Generate)

< Previous | Next > | Edit | Save | Generate | Cancel | [Icon] | [Icon]

1 Enter General Data | 2 Select Entities and Attributes | **3 Review and Generate**

Search View : ZMM_ORGS Description : Material Search ZMM-ORGS Business Object

Review and Generate

[Icon] [Icon] [Icon]

Entities and Attributes

- MM - Material
 - MATERIAL - Material
 - Attributes
 - MATERIAL - Material
 - BEGRU - Authorization Group
 - LABOR - Lab/Office
 - MATKL - Material Group
 - MBRSH - Industry sector
 - MEINS - Base Unit of Measure
 - MSTAE - X-plant matl status
 - MTART - Material Type
 - SPART - Division
 - WRKST - Basic material
 - ZACCP2 - ACCP
 - ZFLTP2 - FLTP
 - ZTIMS2 - Time
 - TXTMI - Description (medium text)
 - BSCDATTXT - Basic Data Text

On pressing Save button, select the workbench request and the configuration is saved.

Display Search View: Step 3 (Review and Generate)

< Previous Next > Edit Save Generate Cancel

✓ Search view saved successfully
✓ Data successfully locked in transport request

1 2 3
Enter General Data Select Entities and Attributes Review and Generate

Search View : ZMM_ORGS Description : Material Search ZMM-ORGS Business Object Type : Material

Review and Generate

Entities and Attributes

- MM - Material
 - MATERIAL - Material
 - Attributes
 - MATERIAL - Material
 - BEGRU - Authorization Group
 - LABOR - Lab/Office
 - MATKL - Material Group
 - MBRSH - Industry sector
 - MEINS - Base Unit of Measure
 - MSTAE - X-plant matl status
 - MTART - Material Type
 - SPART - Division
 - WRKST - Basic material
 - ZACCP2 - ACCP
 - ZFLTP2 - FLTP
 - ZTIMS2 - Time

The SAP HANA views are generated by choosing Generate.

Display Search View: Step 3 (Review and Generate)

< Previous Next > Edit Save Generate Cancel

✓ Search view generated successfully

1 2 3
Enter General Data Select Entities and Attributes Review and Generate

Search View : ZMM_ORGS Description : Material Search ZMM-ORGS Business Object Type : Material

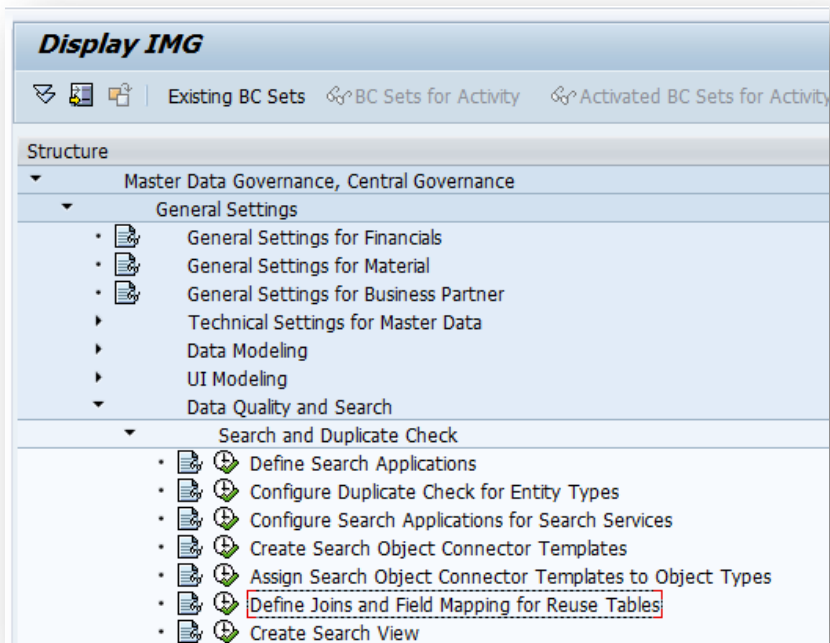
Review and Generate

Entities and Attributes

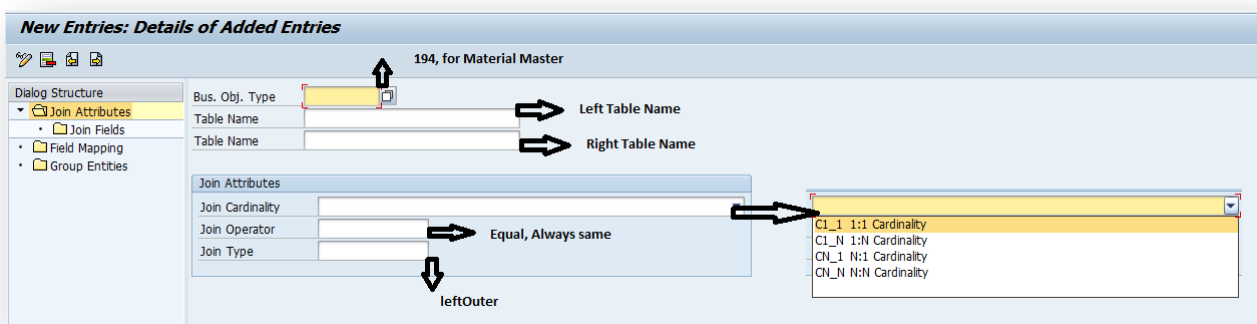
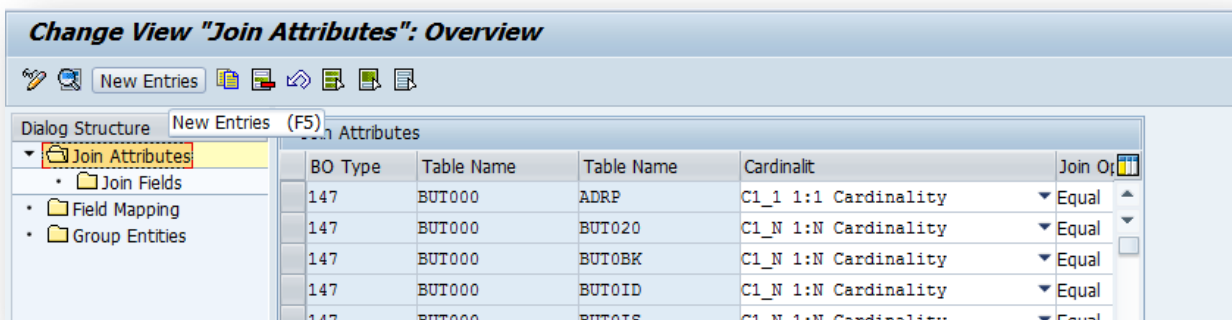
- MM - Material
 - MATERIAL - Material
 - Attributes
 - MATERIAL - Material
 - BEGRU - Authorization Group
 - LABOR - Lab/Office
 - MATKL - Material Group
 - MBRSH - Industry sector
 - MEINS - Base Unit of Measure
 - MSTAE - X-plant matl status
 - MTART - Material Type
 - SPART - Division
 - WRKST - Basic material
 - ZACCP2 - ACCP
 - ZFLTP2 - FLTP
 - ZTIMS2 - Time
 - TXIMI - Description (medium text)

6.2.2. Model Extension with Reuse Entity (Case C)

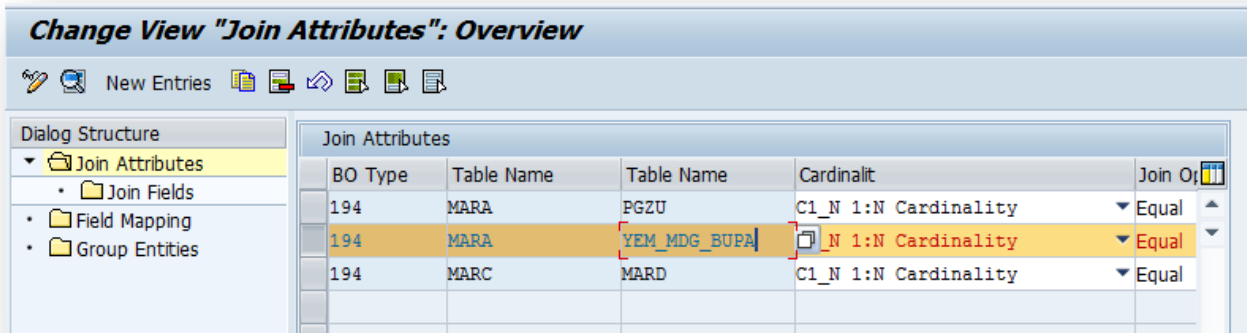
Maintain entries in *Define Joins and Field Mapping for Reuse Tables*.



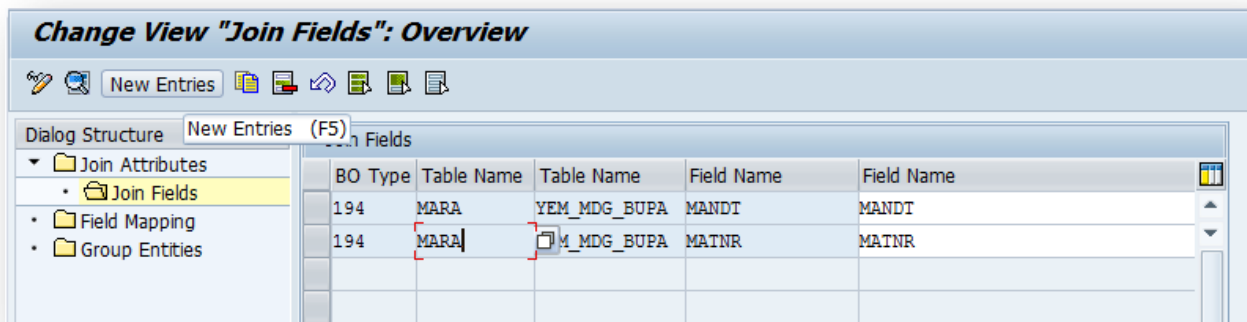
Execute activity *Define Joins and Field Mapping for Reuse Tables*. Select *Join Attributes*, choose *New Entries*.



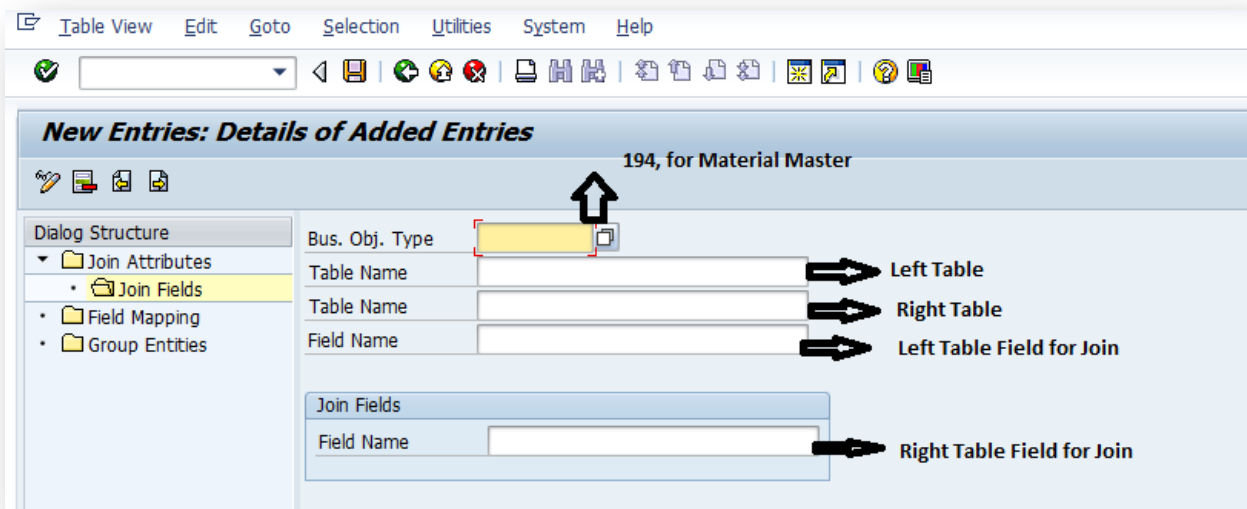
Select *Join Attributes* to maintain *Join Fields*.



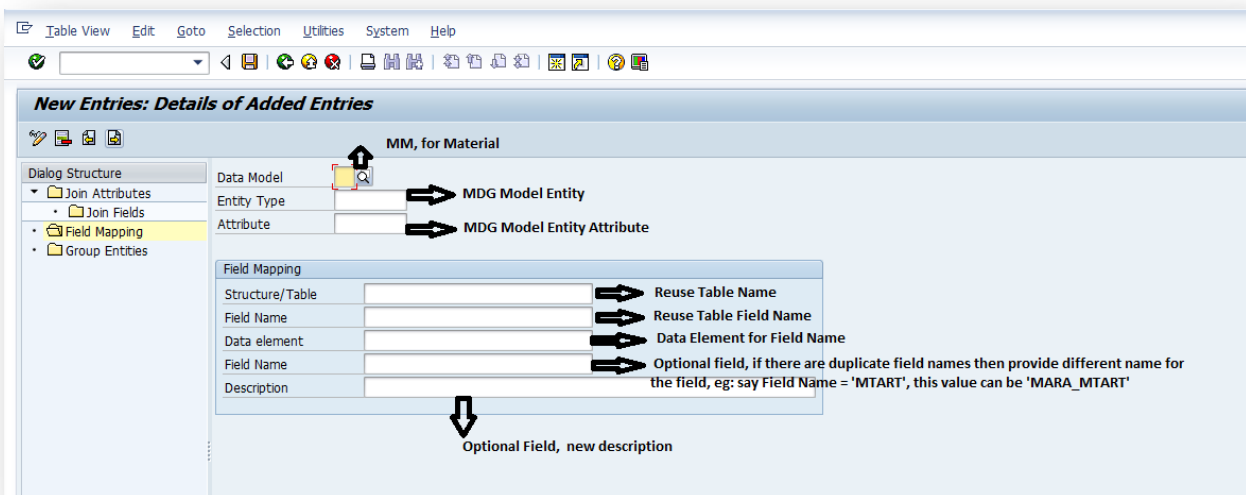
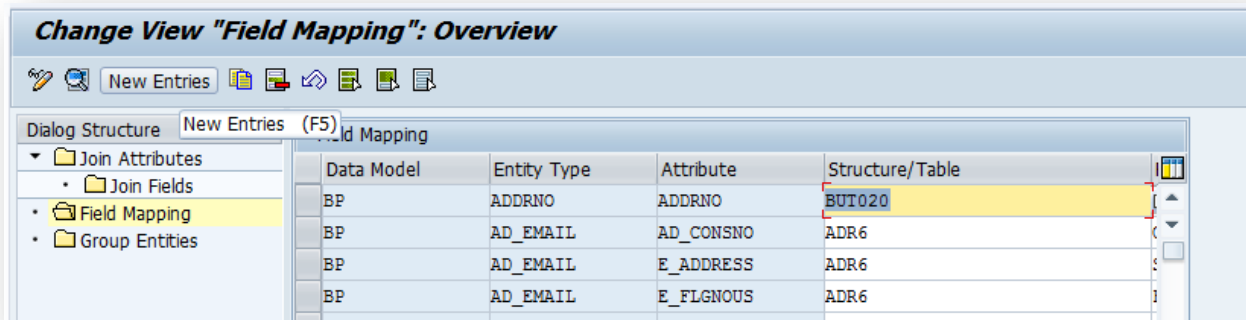
Choose *Join Fields* on the left side of the tree for the selected *Join Attributes*. Choose *New Entries*.



Maintain *Join Fields*.



Maintain *Field Mappings*. Choose *New Entries*.



For creating a search view refer to section above.

The extended entities and attributes of the MM data model will be visible for selection automatically in the Step 2 of the SAP HANA Search generation UI. For a new Search configuration you can select the model extended attributes for SAP HANA search.

If you want to include the model extended attributes to an existing SAP HANA Search view then you must open the search view in edit mode and make the selection in Step 2. Saving and regenerating the search view will include the new fields into the views.

In the below screen you will see that the extended entities YBUPA and YEQUIP and attributes in them are available for selection.

In Step 2, perform the selection of the extended entities and attributes.

Create Search View: Step 2 (Select Entities and Attributes)

< Previous Next > Edit Save Generate Cancel

1 Enter General Data 2 Select Entities and Attributes 3 Review and Generate

Search View : ZMM_ORGS1 Description : Material Search ZMM_ORGS1 Business Object Type : Material

▶ MLGNSTOR - Material Warehouse Management Data	<input checked="" type="checkbox"/>
▶ MLGTSTOR - Material Storage Type Data	<input type="checkbox"/>
▶ MPGDPROD - Material Data for Product Group	<input type="checkbox"/>
▶ MRPTXT - Material MRP Text	<input type="checkbox"/>
▶ MVKEGRPNG - Sales Grouping	<input type="checkbox"/>
▶ MVKESALES - Sales Data	<input checked="" type="checkbox"/>
▶ PURCHTXT - Material Purchasing Text	<input type="checkbox"/>
▶ QINSPTXT - Material Quality Inspection Text	<input type="checkbox"/>
▶ QMATBASIC - Parameters for Inspection Type	<input type="checkbox"/>
▶ SALESTXT - Material Sales Text	<input type="checkbox"/>
▶ UNITOFMSR - Units of Measure for Material	<input type="checkbox"/>
▼ YBUPA - Business Partner	<input checked="" type="checkbox"/>
▼ Attributes	<input checked="" type="checkbox"/>
ZBUPA03 - Business Partner	<input checked="" type="checkbox"/>
NICKNAME - Nickname/name used	<input checked="" type="checkbox"/>
▼ YEQUIP - Equipment	<input checked="" type="checkbox"/>
▼ Attributes	<input type="checkbox"/>
YEQUNR - Equipment MDG	<input checked="" type="checkbox"/>
YYBAUJJ - Construction year MDG	<input checked="" type="checkbox"/>
YYBAUMM - Construction mth MDG	<input checked="" type="checkbox"/>
YYHERLD - Country of manu. MDG	<input type="checkbox"/>

In Step 3, review and save the data.

Create Search View: Step 3 (Review and Generate)

< Previous Next > Edit Save Generate Cancel

1 Enter General Data 2 Select Entities and Attributes 3 Review and Generate

Search View : ZMM_ORGS1 Description : Material Search ZMM_ORGS1 Business Object Type : Material

Review and Generate

Entities and Attributes

- ▼ MM - Material
 - ▼ MATERIAL - Material
 - Attributes
 - BSCDATTXT - Basic Data Text
 - MARCBASIC - Plant Data Basic Data
 - MEAN_GTIN - International Article Numbers (EANs) for Material
 - MLGNSTOR - Material Warehouse Management Data
 - MVKESALES - Sales Data
 - ▼ YBUPA - Business Partner
 - Attributes
 - ZBUPA03 - Business Partner
 - NICKNAME - Nickname/name used
 - ▼ YEQUIP - Equipment
 - Attributes
 - YEQUNR - Equipment MDG
 - YYBAUJJ - Construction year MDG
 - YYBAUMM - Construction mth MDG

On pressing **Save**, select the workbench request and the configuration is saved.

Display Search View: Step 3 (Review and Generate)

< Previous Next > Edit Save Generate Cancel [Icon] [Icon]

✓ Search view saved successfully
✓ Data successfully locked in transport request

1 2 3

Enter General Data Select Entities and Attributes Review and Generate

Search View : ZMM_ORGS1 Description : Material Search ZMM_ORGS1 Business Object Type : Material

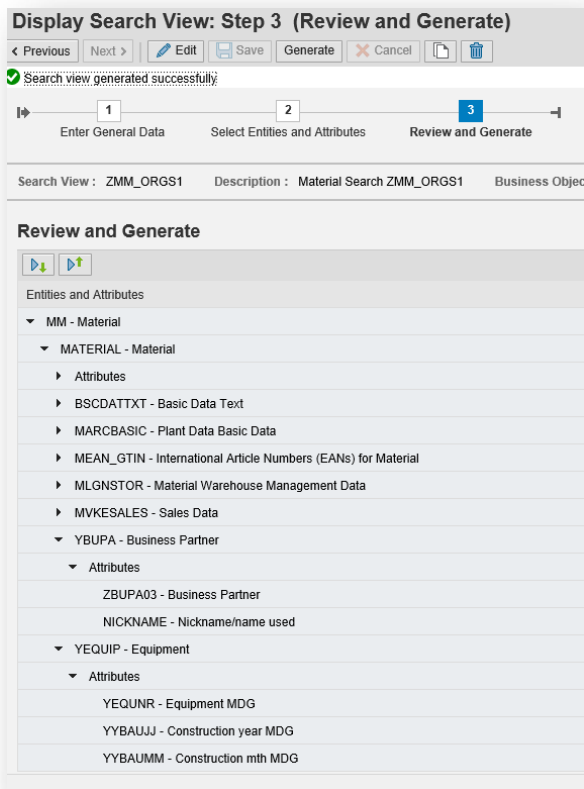
Review and Generate

[Icon] [Icon]

Entities and Attributes

- MM - Material
 - MATERIAL - Material
 - Attributes
 - BSCDATTXT - Basic Data Text
 - MARCBASIC - Plant Data Basic Data
 - MEAN_GTIN - International Article Numbers (EANs) for Material
 - MLGNSTOR - Material Warehouse Management Data
 - MVKESALES - Sales Data
 - YBUPA - Business Partner
 - Attributes
 - ZBUPA03 - Business Partner
 - NICKNAME - Nickname/name used
 - YEQUIP - Equipment
 - Attributes
 - YEQUNR - Equipment MDG
 - YYBAUJJ - Construction year MDG

The SAP HANA views are generated when you choose **Generate**.



6.2.3. Model Extension with Flex Entity (Case D)

SAP HANA Search supports Flex Entities at Main Entity Level only, also including multiple levels.

Model: MM Main Entity: MATERIAL

Supported Scenarios:

Scenario 1:

```

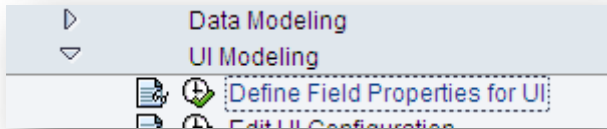
MATERIAL
  FLEX_ENTITY_1
  ...
  FLEX_ENTITY_n
  
```

Scenario 2:

```

MATERIAL
  FLEX_ENTITY_1
    FLEX_ENTITY_2
      ...
        FLEX_ENTITY_n
      ...
    FLEX_ENTITY_11
  
```

6.3. Customizing for search attributes



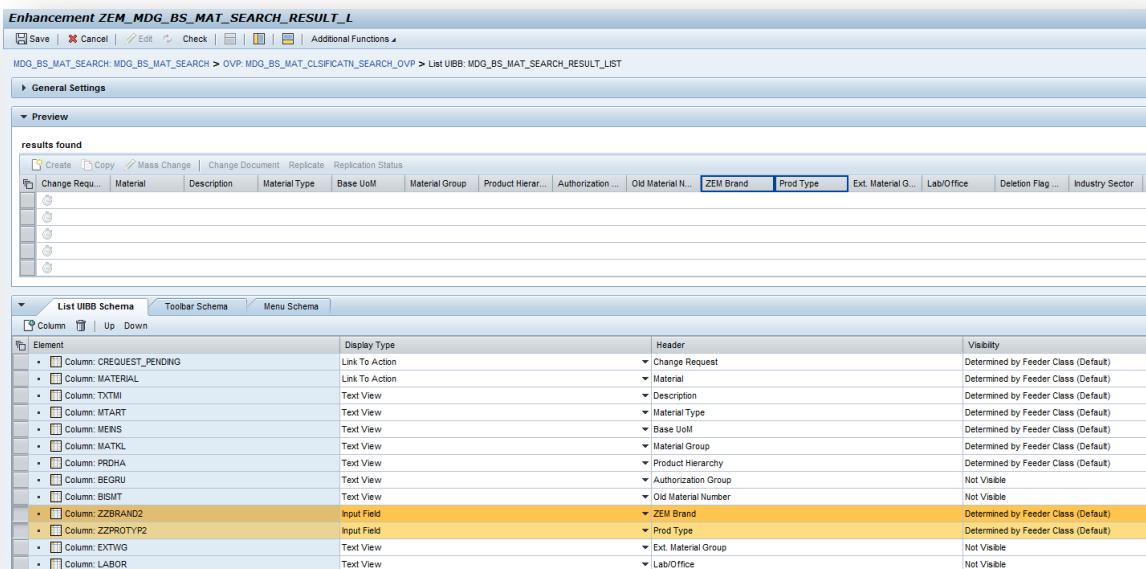
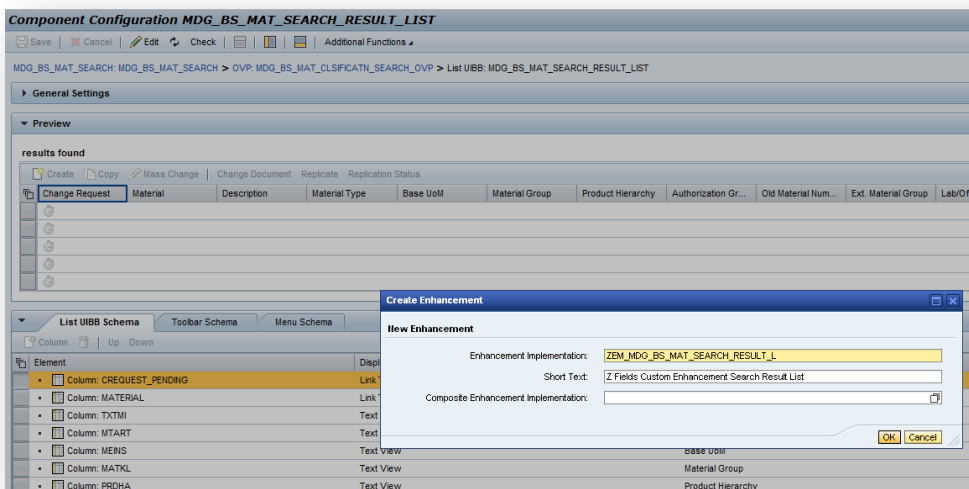
You can customize the fields in the drop down of the search attributes. Check that the new fields are not disabled for search in this Customizing; the check boxes for *No Selection* are unchecked.

6.4. Enhance UIBB MDG_BS_MAT_SEARCH_RESULT_LIST

Scenario:

You want to see the added fields in the search results list.

You can choose in the Floorplan Manager (FLUID) all attributes from entities with relation 1:1 to entity MATERIAL.



7. ADDITIONAL INFORMATION

7.1. Further Reading

Information on SAP MDG on SAP S/4HANA

- Exchange knowledge: [SAP Community](#) | [Q&A](#) | [Blog](#)
- Try SAP Master Data Governance on S/4HANA for free: [Trial Version](#)
- Learn more: [Latest Release](#) | [Webinars](#) | [Help Portal](#) | [How-to Information](#) | [Key Presentations](#)

SAP Roadmap Explorer

- Please see the [roadmap for SAP Master Data Governance](#)

Related Information

- Learn more: [Floorplan Manager for Web Dynpro ABAP](#) | [How to Adapt FPM](#) | [FPM Blog](#) | [How-to Information](#) | [Service Mapping Tool](#) | [SAP S/4HANA Cookbook CVI](#)

7.2. SAP Notes

In addition to the detailed explanations written in this document, please see the following SAP Notes for further important information.

<u>Note Number</u>	Note Description
3194967	MDG Customer Connection 2021 for S/4HANA 2022
3043582	MDG Customer Connection 2020
3134600	MDG-M: Supported fields in Data Model MM
1806108	Functional restrictions in MDG-M in MDG7 (incl. SP02)
2129261	Functional restrictions in MDG-M in MDG8
2284745	Functional Restrictions in MDG for Material with SAP Master Data Governance 9.0
2461516	Functional Restrictions in MDG for Material with SAP Master Data Governance 9.1
2656693	Functional Restrictions in MDG for Material in SAP Master Data Governance 9.2 and on SAP S/4HANA 1809
2816571	Functional Restrictions in MDG for Material on SAP S/4HANA 1909
2948873	Functional Restrictions in MDG for Material on SAP S/4HANA 2020
3070012	Functional Restrictions in MDG for Material on SAP S/4HANA 2021
3219945	Functional Restrictions in MDG for Material on SAP S/4HANA 2022
2479869	Usage of Lean Classification with SAP Master Data Governance
1619534	How to Create, Enhance and Adapt FPM Applications
2339846	Missing Switch BC Set Entries for Material Search Views

2281401	Decoupling MDG Material from Enterprise Search as provider
2302716	SEARCH: Set default search method
2338571	Dump when starting MDG material applications using HANA search provider
2336787	Search: COPY function results in navigation to wrong target or to termination o
2334229	SEARCH: Program termination when clicking on change request icon in search result
2319339	SEARCH: Class type not reset if warning popup is closed
2302716	SEARCH: Set default search method
2338571	Dump when starting MDG material applications using HANA search provider
2336787	Search: COPY function results in navigation to wrong target or to termination o
2334229	SEARCH: Program termination when clicking on change request icon in search result
2319339	SEARCH: Class type not reset if warning popup is closed
2301378	Search: Application inadvertently closed
2287809	SEARCH: Value help vanishes for some fields after changing search method
2287775	SEARCH: Not all saved searches displayed after RESET
2284453	SELECT: Disable buttons if search does not return results
2274076	SEARCH: Minor correction for search UI
2245830	SEARCH: 'Search Criteria' panel displayed two times

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