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Hands-On Experience on SAP Master Data Governance, Cloud Edition Exercise 4: Data Quality Management

With this exercise you explore some of the features for master data quality management offered by SAP Master Data Governance, cloud edition (MDG Cloud). You will see how data quality rules for validation of master data are managed and how you can control their usage in master data processes. You will use the Evaluation Results app to analyze the results of a data quality evaluation and see how you can fix detected errors.

Estimated time: 20 minutes.

Prerequisites

You have set up the free tier plan for SAP Master Data Governance, cloud edition as outlined in the <u>Getting</u> <u>Started Guide</u>.

The example data of your account is sufficient for this exercise. Further data that you created or modification of example data during previous exercises will influence the actual results that you see as part of this exercise.

Instructions

This exercise is split into 3 parts. It is required to perform each step after the other.

Step 1 – Define validation rules

Launch the app Display Validation Rules and define a new rule as described in this guide.

Step 2 - Analyze the evaluation results of your rule

Navigate to the evaluation results of your rule. You can either click on the score of the rule to open the app Evaluation Results with a filter applied for the rule. Alternatively, you can launch the app Evaluation Results from the home page and manually filter for the rule.

Step 3 – Correct the errors found for your rule

Either click on the business partner for which the rule evaluation results in an error, then choose Manage Business Partners – Central Governance to correct the business partner in a single request. Alternatively, you can select the erroneous business partner, plus further erroneous business partners that you might have created as part of this workshop. Having the business partners selected, you can process all of them in a mass request for fixing the errors.



Explanation	Screenshot
1. Launch the app Validation Rules Business Partners from the home page.	Data Quality Management for Business Partners Validation Rules Schedule Data Quality Evaluation Business Partners Image: Colspan="2">T81
2. Click on Create button to create a new validation rule.	Validation Rules for Products All Search Q Standard Search Q All Search Q All Search Q All Search Q All Validation Rules (23) Export Export Delete Create It Rule Base Table Checked Field Rule Owner Implementation Score Status
 Enter the header information of the rule as follows: Note: Fields Marked with red asterisk	ZDOM_SEARCH_TERMS_EQUAL Search Term should not be equal Header General Information Usage Implementation Simulations Dimensions Evaluation Additional Information Administrative Data Rule ID:* Score: Base Table: Ceneral (BUT000) Checked Field: Rule Name:* Checked Field: Search Term should not be equal Score:1000-BU_SORT1) Checked Field:

Step 1: Define validation rules



Explanation	Screenshot
4. Enter the values for fields in the	< SAP Validation Rules for Business Partners ∨ Q Д M ZDQM_SEARCH_TERMS_EQUAL 55 × Search Term should not be equal 55 ×
General Information tab as shown below	Header General Information Usage Implementation Simulations Dimensions Evaluation Additional Information Administrative Data Status: New
The tab General Information has fields which are typically filled by the rule owner. These fields provide more information about the rule and why the rule is being created. This tab also designates who the rule owner is and who is the implementation	General Information Business Details Contacts Business Description: Rule Owner: The value of search term 1 must not be equal to the value of search term 2. Implementation Expert: Business Reason: Business Contact: Business Reason: Business Contact: We don't want to store redundant information. Data Owner: Data Owner: MDM Team Scope: All active business partners. All active business partners. HDM Team Link Too Display: Corporate Standards Link URL: https://example.com
After entering the information on the general information tab click on Create. Click on the Add in Usage tab.	Usage Draft updated Create Discard Draft



Explanation	Screenshot
 5. Click on Add in Usage tab and choose Data Quality Evaluation and press Send for implementa tion In SAP Master Data Governance, cloud edition the rule usage is supported for Data Quality Evaluation, Check in Consolidation, Check in Central Governance and Check in Inbound Processes. 	Conductive Conductive Search Terms about not be equaling Conductive Conductive C
6. Once the rule usage is defined, we need to prepare the rule. Press Prepare.	ZDOM_SEARCH_TERMS_EQUAL Edit Delete C ~ 55 × Search Term should not be equal Image Implementation Simulations Dimensions Additional Information Administrative Data Image Implementation Simulations Dimensions Additional Information Administrative Data Usage Image Implementation Simulations Dimensions Additional Information Administrative Data Image Implementation Simulations Dimensions Additional Information Administrative Data Usage Image Implement the rule. Image Implement the rule. Standard ~ Add Delete Usage Status Usage Action Image Implement Data Image Implement Data
7. Press Prepare Usage	Prepare Usage Base Table: General (BUT000) Image: BRFplus preparation may take some time to finish. Once preparation is complete, the base table can no longer be changed. Prepare Usage Cancel



Explanation	Screenshot
8. Once the preparation is complete, the BRFplus Scope expression and Condition expressions will be created and are available for rule modeling under the tab	Search Term should not be equal General Information Usage Implementation Simulations Dimensions Additional Information Administrative Data Implementation O Check and activate expressions in BRFplus. Scope Expression: ZDOM_SEARCH_TERMS_EOUAL_SCP Statu: Initial Condition Statu: Initial Condition Statu: Initial Condition Statu: Initial Statu: Initial Statu: Initial Statu: Status: Status: Status: Status: Status: Status: Status: Status: Status: Status: Status: Status: Status: Status: Status: Status: Status: Status: Status: Status:
Implementa tion. The initial status shows that rule modelling is not yet started. Press each expression to model the rule	
 9. Press <i>Edit</i> and navigate as shown in the screenshot The scope expression is used to define which records of a business object need to be considered by the rule, for example during data quality evaluation. The condition expression defines the condition that will be evaluated on in-scope records of business object. A record will be termed as Not Ok if it fails the condition defined in the condition 	<complex-block></complex-block>



Explanation	Screenshot
expression. Below we show how to define the scope expression. Press Edit	
10. With this selection criteria only active records will be checked	Boolean: ZDQM_SEARCH_TERMS_EQUAL_SCP Sack Check Save Activate Delete More General Detail Context Overview Start Simulation Boolean Logic Schema: <1> Select on Active records. If A BUT000 KArchiving Flag is initial Then Boolean is true, else it is false
11. After activating the expression in BRFplus the status of the condition expression in the data quality rule manageme nt app is shown as active.	ZDQM_SEARCH_TERMS_EQUAL Search Term Should Not be Equal General Information Usage Implementation Dimensions Additional Information Administrative Dat Implementation Implementation Implementation Implementation Implementation Implementation Implementation Implementation Implementation Implementation Implementation Implementation Implementation Implementation Implementation Scope Condition Implementation Implementation Implementation Status: ZDQM_SEARCH_TERMS_EQUAL_SCP Status: Implementation Status: Active Initial Implementation



Explanation Screenshot





Explanation	Screenshot
13. After	✓ SAP Validation Rules for Business Partners ∨ Q Ω M
successful implementa	ZDQM_SEARCH_TERMS_EQUAL Search Term should not be equal
rule, click on Send for	General Information Usage Implementation Simulations Dimensions Additional Information Administrative Data Implementation Refresh
Testing to send the rule for testing to	Scope Condition Expression: ZDOM_SEARCH_TERMS_EQUAL_SCP Expression: ZDOM_SEARCH_TERMS_EQUAL_CON Status: Active Status: Active
Tule Owner.	Simulations
	Standard ~ Search Q Create Create Simulation Total Results Not OK (Inactive V Score (Inacti Not OK (Active Ve Score (Activ
	No simulations available
	Dimensions
	No dimensions assigned.
	de in centres construistes
14. The rule owner	C SAP Validation Rules for Business Partners ~ Q Q M ZDQM_SEARCH_TERMS_EQUAL Edit Delete I ² ~ I ² ×
approve the	General Information Usage Implementation Simulations Dimensions Additional Information Administrative Data
implementa tion, so that	Expression: Expression: ZDOM_SEARCH_TERMS_EQUAL_SCP ZDOM SEARCH_TERMS_EQUAL_CON Status: Status: Active Active
usage can be enabled	Simulations
for data quality evaluation.	Standard Search Q Create Image: Create Simulation Total Results Not OK (Inactive V Score (Inacti Not OK (Active Ve Score (Activ
Note – If	Dimensions
the rule owner wants any	Dimension Category Impact
changes to the rule, the	Additional Information
rule owner can click on	Use in Central Governance:
implementa tion to send	Administrative Data Show Audit Trail
rule to implementa	Created On: 03.01.2023, 14:40:27
tion expert.	Approve Send for Implementation



Explanation	Screenshot				
15. Once the rule owner approves the rule implementa tion the status of the rule will change to Approved.	ZDQM_SEARCH_TERMS_EQUAL Search Term Should Not be Equal Base Table: General (BUT000) Status Checked Field: Search term 1 for business partner (BUT000-BU_SORT1) Approved				
16. Enable the rule for usage in Data Quality evaluation. Click on Enable under the tab Usage.	Validation Rules for Business Partners ZDQM_SEARCH_TERMS_EQUAL Search Term should not be equal General Information Usage Implementation Simulations Dimensions Additional Information Additional Mainistrative Data Usage Standard Usage Status Usage Status Usage Disabled				
 17. We get the message below when the rule usage is successfully enabled. The rule is now enabled for the usage in data quality evaluation. You can finish here or make further changes by clicking 'Send for Implementation' or 'Disable' the complete rule. 	C The usage status was changed.				
18. Trigger Data Quality Evaluation by Clicking on the link Evaluate Data Quality	Data Quality Management for Business Partners Validation Rules Schedule Data Business Partners Cuality Evaluation Image: Colspan="2">T 200 Image: Colspan="2">T 200 <t< td=""></t<>				







Step 2: Analyze the evaluation results of your rule

After an evaluation run you will see in the Validation Rule App that there is now a Score value. If you click on the score of the rule, you see the app Evaluation Results as depicted below. You can also open this app directly from the home page. In this case, the results are not filtered by rule, and you can see all results of the latest data quality evaluation.

				< SAP Ev	raluation Results for Busin	ess Partners 🔻					
				Standard* \vee							
				Results by Outcom	e ~	Results by Bu	siness Partner Category	~			
tules for Business Par	iners *				Not OK	Organization		2			
Create	REGION_REQUIRED Region is required for a country General Information Usage Evaluation Ad	ministrative Data		0	DK 1	Person	1				
xounts >	Evaluation			Evaluation Items Base Table			De	tails Mew By 🚺	results of	all rules	nent for Business Partners (Trial)
HBAN)	Outcome	Rows in Base Table								Display Validation	Evaluation Results
· · · ·	Latest Evaluation: 13/09/2021, 19:35:06 CK:	Checked: 127 Available:	filter by rule	Address (ADRC)						Rules Socioess Partners	Business Partners
AEGION)	49 Net OK: Scare:	163		0 Results	0.5	1	15	2			6
JRT1)	38.5 D			Evaluation Items	(3)			Process in M		Hon	ne Page
				Business Partne	r Business Partner Name		Rule				
				SBP11031	ABC GmbH XYZ Corporation		Region is required for a co Region is required for a co	untry (REGION_REQ untry (REGION_REQ			
				SBP31031	Hugo Tester		Region is required for a co	untry (REGION_REQ			



Explanation	Screenshot				
1. You can launch the app <i>Evaluation Results</i> and display the results of a special rule by clicking the score in the app <i>Validation</i> <i>Rules</i>	Image: Control to the lattice for the lattice f				
2. Only if you launched the app from the home page: You will see the results from all rules. You can switch the filter bar to display compact filters and then filter by rule.	Image: Standard* > Image: Standard* > Outcome: Rule: Not dot: V Image: Standard* > Image: Standard* > Outcome: Rule: Not dot: V Image: Standard* > Image: Standard* > Outcome: Image: Standard* > Not dot: V Image: Standard* > Image: Standard* > Outcome: Image: Standard* > Image: Standard* > Image: Stan				
 With the initial example data, there are 2 business partners with an error for this rule and 1 business partner that complies with the rule. You might see different results depending on how you changed the data in previous exercises. 	Image: Standard Image: Standard				
top of the screen, click on <i>Not OK</i> to display only those business partners that are erroneous according to the rule.	Resits Evaluation Items (1) Process In Mass Report Bale Asseet Seet Seet Seet Seet Seet Seet Seet Seet Seet Seet Seet				
4. Press <i>Go</i> to apply the filter to the displayed evaluation items.	Image: Standard * V Image: Standard * V Results ty Outcome (1) Results ty Outcome (1) Results ty Outcome (1) Image: Standard * V Image: Standard * V				



Explanation	Screenshot				
5. You can also use further filters. Click on the <i>Compact Filter</i> icon.	Image: Second				
 6. A selection of further filters is displayed. For example, you could use a filter on <i>City</i> to display only evaluation items for business partners with a standard address in <i>Berlin</i>. Remark: You need to press <i>Go</i> or the <enter> key to apply the filter.</enter> 	Control Contro Control Control				
7. The app updates the display according to your filter criteria. In this example only one evaluation item remains, meaning the result of the rule being applied to the business partner SBP11031.	Controller Version Results for Business Partners Controller Controller Controller Nation Results for Business Partners Business Partner Last Instructionalization Controller Nation Results for Business Partners Controller Controller Controller Prior Results Seetes Controller Postal Code Controller Controller Prior Results Seetes Controller Postal Code Controller Controller Basic Notice Controller Controller Controller Controller Controller Maters Partner Controller Controller Controller Controller Controller Maters plottics Sint Reside North Sint Reside Sint Reside Sint Reside Maters plottics Sint Reside North Sint Reside Sint Reside Sint Reside Maters plottics Sint Reside North Sint Reside Sint Reside Sint Reside Maters plottics North Region In region In regione for a control (MEGON_MEGO_NEGO_NEGO_NEGO_NEGO_NEGO_NEGO_NEGO_N				



Explanation

Screenshot





Step 3: Correct the errors found In the previous step you have found all erroneous business partners that do not comply with the rule you have created, and you filtered for the business partners that are in your interest. In this part, you correct these business partners.

Explanation	Screenshot
 The previous part ended with displaying a selection of business partners that are erroneous. In case you want to see more information on an affected business partner, you can click on the respective ID. The quick view allows you to navigate to the app <i>Manage Business</i> <i>Partners</i>. In this app you can correct the business partner, like you have seen in the exercise on central governance. Since you have seen this already, we will not follow this path in this exercise. 	Control International Control
 Alternatively, and in case you want to correct multiple business partners in a mass process, proceed as follows: Select all relevant evaluation items. Note that you can also perform these steps if there is only one evaluation item left in your particular case. 	Address (ADRC) 0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2 executas Evaluation Items (2) Process in Mass Request @ @ @ ~ ~ ~ Business Partner Name Rule A Street ✓ SBP11031 ABC GmbH Region is required for a country (REGION_REQ Kuffridsenstrasse G SBP31031 Hugo Tester Region is required for a country (REGION_REQ Industriestrasse
3. Then press <i>Process in Mass Request</i> .	Process in Mass Request Street for a country (REGION REO

Congratulations. You have completed the exercises. <u>www.sap.com</u>.

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