

Calculating Age Dynamically in MDM



Applies to:

SAP NetWeaver Master Data Management (MDM) SP04, SP05 and SP06

For more information, visit the [Master Data Management homepage](#).

Summary

This article provides the procedure to calculate age dynamically with the given date of Birth.

Author: Sravan Velamury

Company: Satyam

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Author Bio



Sravan Velamury is working for Satyam for the last two and a half years. He has been a part of SAP-MDM core competency and worked extensively on different Business cases.

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Business Scenario

In an insurance domain, when the customer wishes to take a new policy, he/she has to fill up an application form with his details in which DOB is one of the details required. The assured amount depends on the Age of the customer and the premium being paid. So if the data is being maintained in MDM, it is the responsibility of MDM to calculate age with the provided DOB.

Methods:

There are two methods that can be used to calculate the age in MDM.

1. Marking the field “Age” as a calculated field in console
2. Using Assignments

1. Marking the Field “Age” as a Calculated Field in Console

1. Create a field with the name “Age”.
2. In the field details pane, mark the calculated column as “Yes”.

The screenshot shows the SAP MDM Console interface. On the left is the 'Console Hierarchy' tree with various categories like Products, Business Partners, City, Countries, etc. The main area is divided into 'Fields' and 'Field Detail'.

Fields Table:

Pos.	Name	Type	Keyword
[1]	Cust ID	Integer	None
[2]	Cust Name	Name	None
[3]	DOB	Literal Date	None
[4]	Age	Integer	None

Field Detail for 'Age':

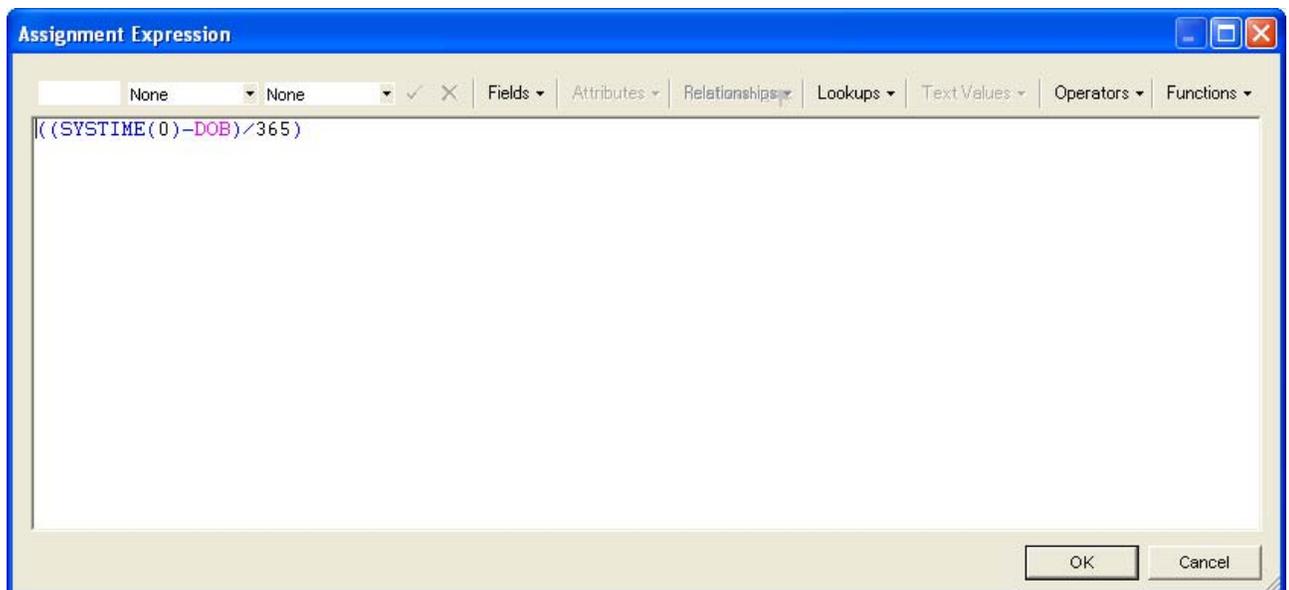
Name	Age
Code	Age_of_cust
Description	Age of the customer
Type	Integer
Required	No
Writable Once	No
Matrix	Normal
Multi-Lingual	
Keyword	None
Display Field	No
Unique Field	No
Sort Index	Normal
Calculated	Yes
Calculation	[Calculation Expression]

3. Click on the calculation property and a text box will appear where we can write a formula for the calculation.

- In the Data manager create a new assignment.

Record Detail	Validations	Assignments	Workflows	Search Selections
Assignments		Properties		
Age		Name	Value	
		Name	Age	
		Description		
		Table	Products	
		Branch Value		
		Assignment	[Assignment Expression]	
		Table Field	Age	

- Double click on the assignment expression and a text box will be opened where we need to type the expression “((SYSTIME (0)-DOB)/365)”.



The image shows a dialog box titled "Assignment Expression". It has a blue title bar with standard window controls. Below the title bar, there are two dropdown menus, both set to "None", followed by checkmark and close icons. A menu bar contains "Fields", "Attributes", "Relationships", "Lookups", "Text Values", "Operators", and "Functions". The main area is a text box containing the expression: `((SYSTIME(0)-DOB)/365)`. At the bottom right, there are "OK" and "Cancel" buttons.

- Once the assignment is created, select all the records in the Data Manager and execute the assignment.

The screenshot shows the SAP Data Manager interface. A context menu is open over the 'Age' field in the 'Records' table. The menu items are: Add, Add Master, Delete, Duplicate, Copy (Ctrl+C), Add to Mask, Remove from Mask, Replace in Mask, Protection, Check In/Out, Validations, Assignments (selected), Workflows, Matching, Compare Records... (Compare with Original), Merge Records... (Merge Into), Reimport..., and Replace... The 'Assignments' sub-menu is open, showing 'Add Branch' and 'Execute' (with 'Age' selected).

- Once the execution is done, the age is calculated as per the assignment expression and the value gets reflected in the "Age" field.
- The result after the execution of the assignment will be as in the below figure:

Records							
	🔒	📄	[Age]	Cust ID	Cust Name	DOB	
▶			✓	123	Shinde	10/16/1984	24
▶			✓	234	Agarwal	02/16/1980	29

Note: when using assignments the field "Age" should be taken as data type "Integer". If the data type is taken as "text" or "Real" we may get results like 24.356754 which is not the ideal way to calculate age.

This is how age can be calculated in MDM.

Related Content

For more information, visit the [Master Data Management homepage](#).

References

<http://www.help.sap.com>

<http://www.sdn.sap.com>

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