EXERCISE 01A - CREATE A CUSTOM BUSINESS OBJECT

SAP Partner Workshop



15 min

Description

In this exercise, you'll learn how

- to create a custom business object that has a simple data structure and publish it
- to define the data structure and create the database persistence of a custom business object

Target group

- Developers
- People interested in learning about S/4HANA Cloud In-App extensions.

Goal

The goal of this exercise is to create a custom business object.

Prerequisites

Below are the prerequisites for this exercise.

- Google Chrome: Please complete this exercise using the Google Chrome browser
- Authorizations: Your user needs a business role with business catalog Extensibility (ID:

Steps

- 1. Starting "Custom Business Objects" application
- 2. Creating a new Custom Business Object
- 3. Defining the data structure
- 4. Adding standard data to the structure
- 5. Creating the database persistence

Starting "Custom Business Objects" application

A several tutorials spanning example will show extensibility along custom Bonus Management applications.

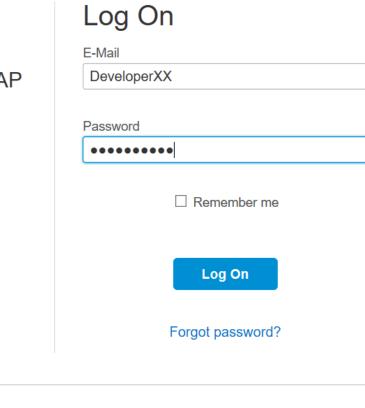
As applications are based on business objects, it all starts with custom business object creation.

In the first parts a Manager wants to define business objects "Bonus Plan" for employees. A Bonus Plan is there to save employee specific rules for bonus entitlement.

Start with checking the prerequisite role.

Logon to the S/4HANA Cloud system. The presenter will provide you the logon user and password.
 The XX is the number that you have been assigned to use for the exercise.

SAP S/4HANA Cloud for SAP Partner Solution Center



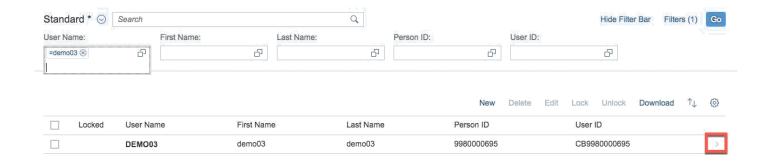
SAP Cloud Platform

Powered by

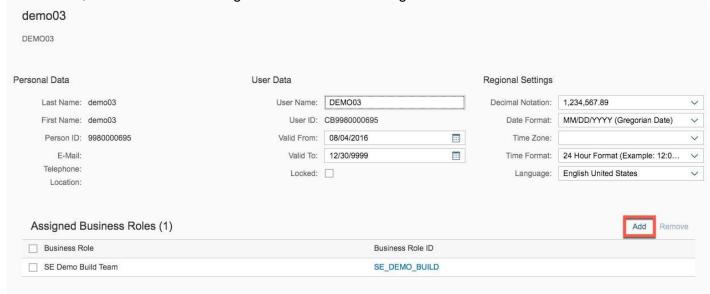
2. Click on the Maintain Business Users tile.



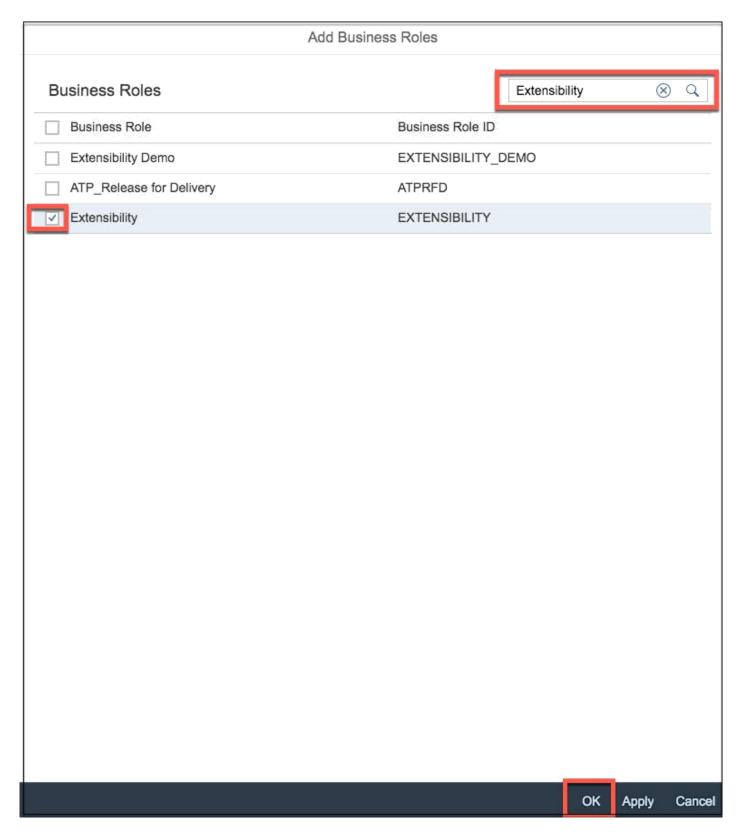
3. Type in the User in the User Name Field and hit enter to search. Your user will be displayed. Click on the error at the end of your user row to show the detail.



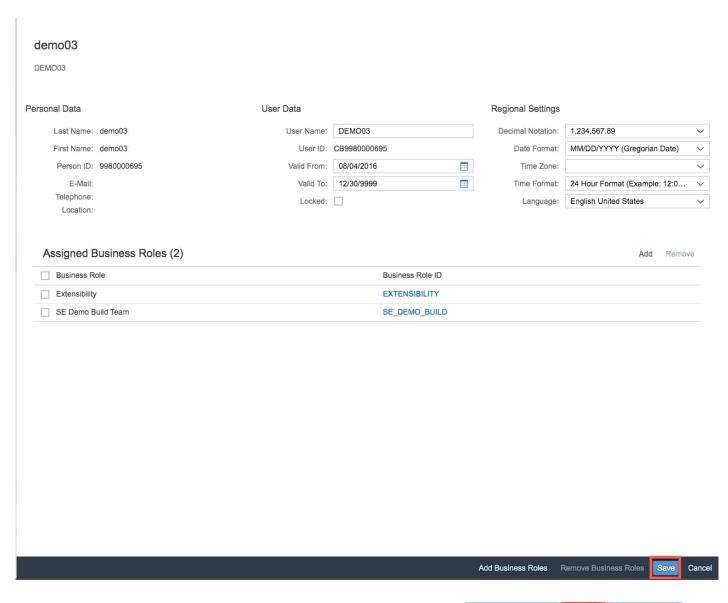
4. On the "Assigned Business Roles" session. Check if you have the Extensibility Business Role. If you don't see the role, click on "Add" at the right hand side of the "Assigned Business Roles" to add the role.



5. Search for "Extensibility". Click on the checkbox for Extensibility and click OK.



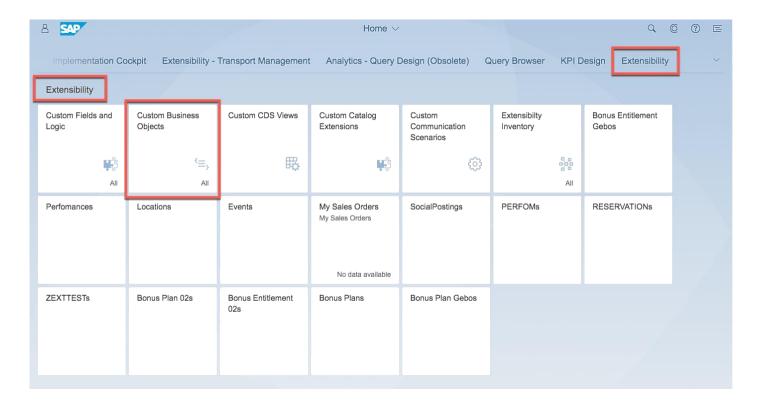
6. You will see the Extensibility business role added. Click on "Save".



7. Go back to the Launchpad Home page by clicking on the Home icon.



8. Refresh the browser. You will see more applications for the catalog of Extensibility.



Creating a new Custom Business Object

1. Create the Custom Business Object's application by clicking its tile

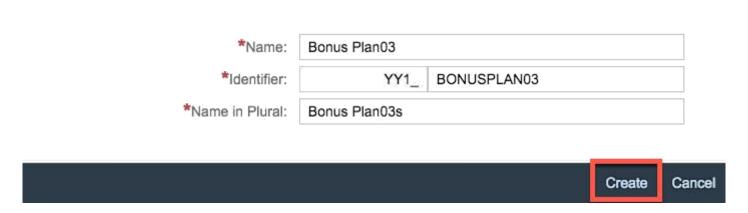


2. Press the **New** action to start creation of a Custom Business Object



3. In the opening Pop Up **fill** in the Name "Bonus PlanXX". The other editable fields will get proposals automatically but can be changed.

New Custom Business Object



4. Execute the Create action.

Defining the data structure

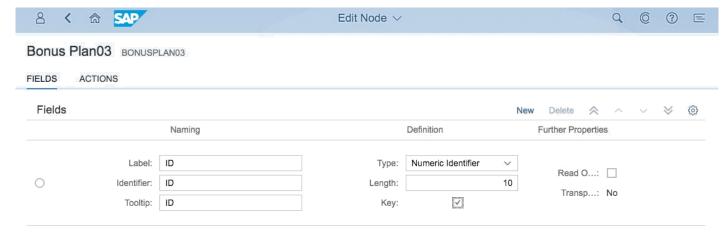
 In the following view for editing the custom business object Go to Fields and Logic of the root node "Bonus PlanXX".



2. Click on **New** to create new field for the object.



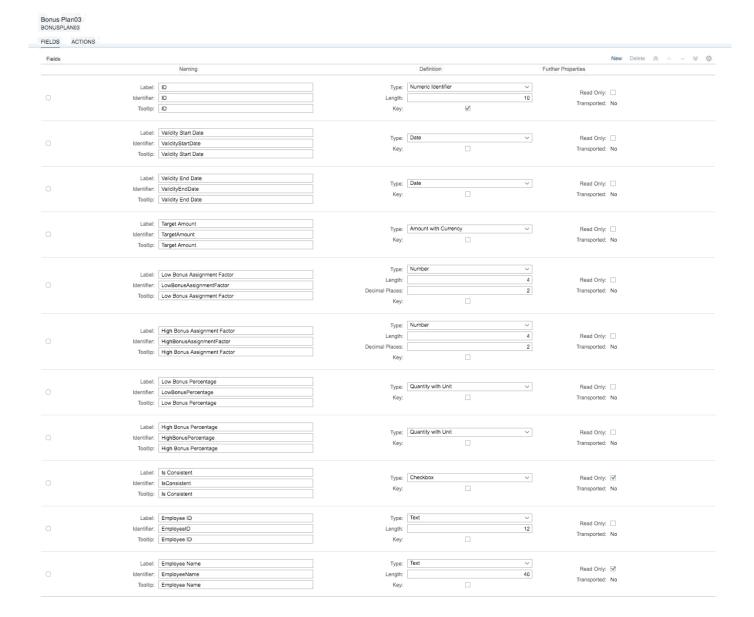
3. Enter "ID" for the Naming. Choose "Numeric Identifier" for the Type. Keep 10 for the Length. Check the Key checkbox.



4. Repeat the above 2 steps to **create** following fields by clicking on **New** for each field.

Field Name	Field Properties	Tooltip
ID	Numeric Identifier of length 10, key field	
Validity Start Date	Date	
Validity End Date	Date	
Target Amount	Amount with Currency	
Low Bonus Assignment Factor	Number of length 4, decimals 2	Actual revenue must meet target more than that many times
High Bonus Assignment Factor	Number of length 4, decimals 2	Actual revenue must meet target more than that many times
Low Bonus Percentage	Quantity with Unit	
High Bonus Percentage	Quantity with Unit	
Is Consistent	Checkbox, Read Only	
Employee ID	Text of length 12	
Employee Name	Text of length 40, Read Only	

5. The UI for maintaining fields looks as follows.



6. Go back via the application's **Back** button.



Adding standard data to the structure

1. Back in the business Object's definition overview, **check** the System Administrative Data box to add standardized fields for Created On, Created By, Last Changed On and

Last Changed By .



By checking this box the four fields also appear as uneditable in the field list. 1These fields will be filled and updated automatically, so that you do not need to implement logic for this. Logic implementations for these fields even would be ignored.

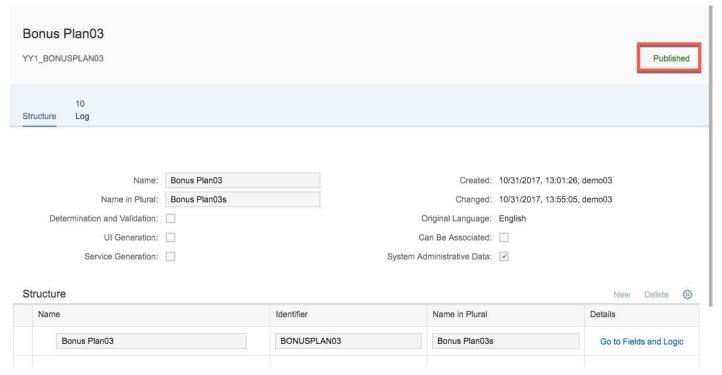
Creating the database persistence

1. Publish the Business Object Bonus PlanXX.



This creates the database persistence of the Business Object.

2. You will **Published"" in green for this object when the publishing is completed.



Summary

This concludes the exercise. You should have learned how to create a custom business object that has a simple data structure and publish it. At the end there will exist a database table for the business object. Please proceed with exercise 01B.