



PARTNER

openSAP - Building AI and Sustainability Solutions on SAP BTP

Week5 - Collaborative Enterprise Planning with SAP Analytics Cloud

Exercise01 - Creating Public Dimensions and Planning Models in SAP Analytics Cloud

This document will guide you step by step on the process of creating a Public Dimensions and Planning Models in SAP Analytics Cloud.

THE BEST RUN



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Table of Contents

DISCLAIMER 4
OBJECTIVE 4
SCENARIO..... 4
ENVIRONMENT ACCESS – SAP ANALYTICS CLOUD 5
PREREQUISITES 5
EXERCISE STEP DETAILS..... 5

DISCLAIMER

All functionality presented here is subject to change and may be changed by SAP at any time for any reason without notice.

OBJECTIVE

The objective of this exercise is to provide the steps needed to create SAP Analytics Cloud Public Dimensions and Planning Models.

SCENARIO

This exercise follows the scenario you were introduced to in the demo Maintenance Cost & Sustainability Planning for Bagnoli & Co.

This exercise explains how to create public dimensions in SAP analytics cloud that can be used across the SAP Analytics Cloud Models.

The exercise also describes how to create SAP Analytics Cloud Planning Models utilizing the public dimensions created.

ENVIRONMENT ACCESS – SAP ANALYTICS CLOUD


Before the exercise, please set up your SAP Analytics Cloud trial account via this tutorial: [Set up your SAP Analytics Cloud Trial Account](#)

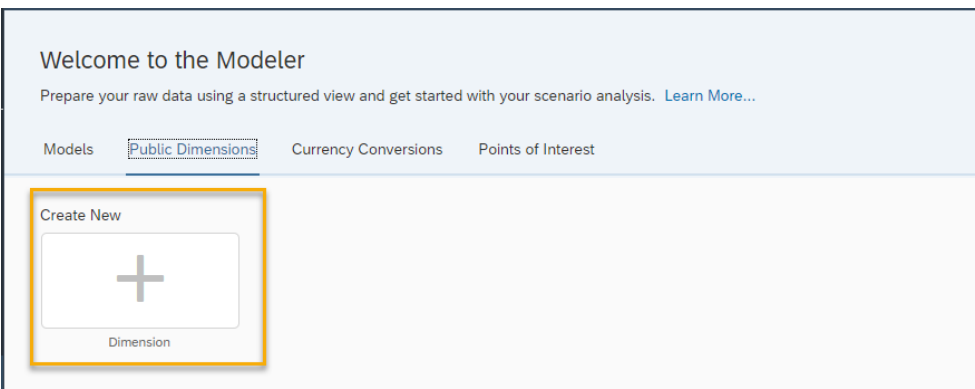
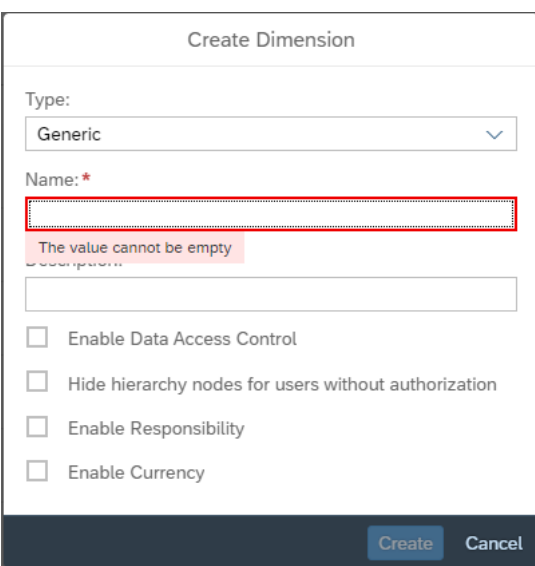
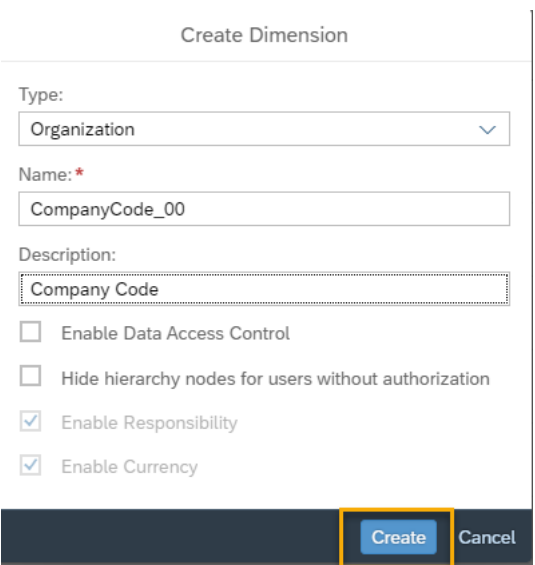
Please make sure you have already registered in order to be able to [Try SAP Analytics Cloud for free](#)

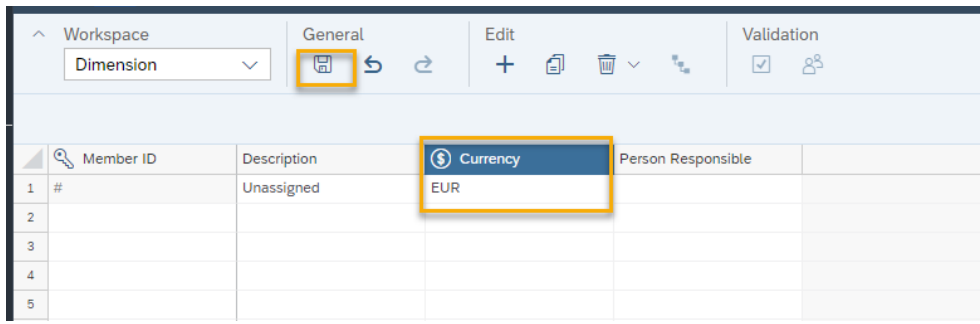
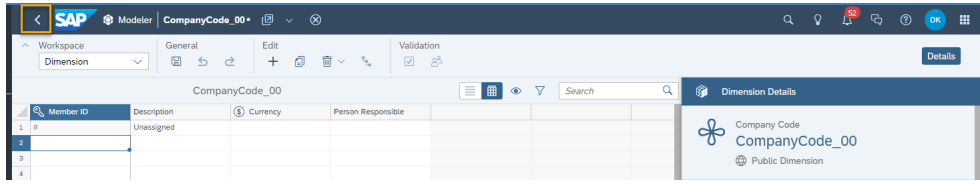
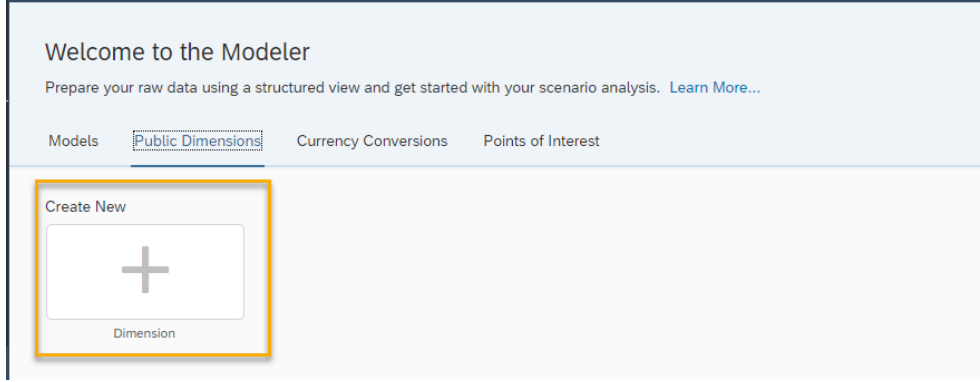
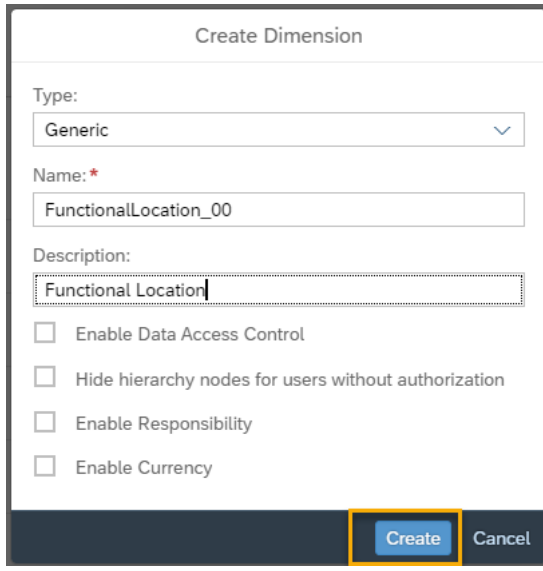
PREREQUISITES

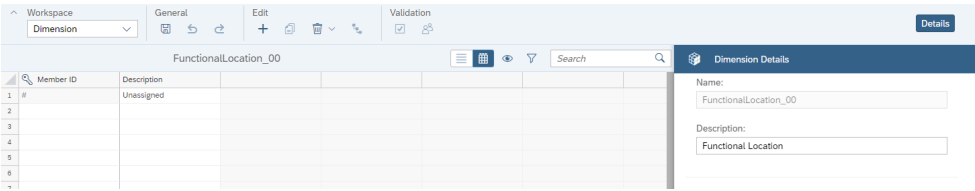
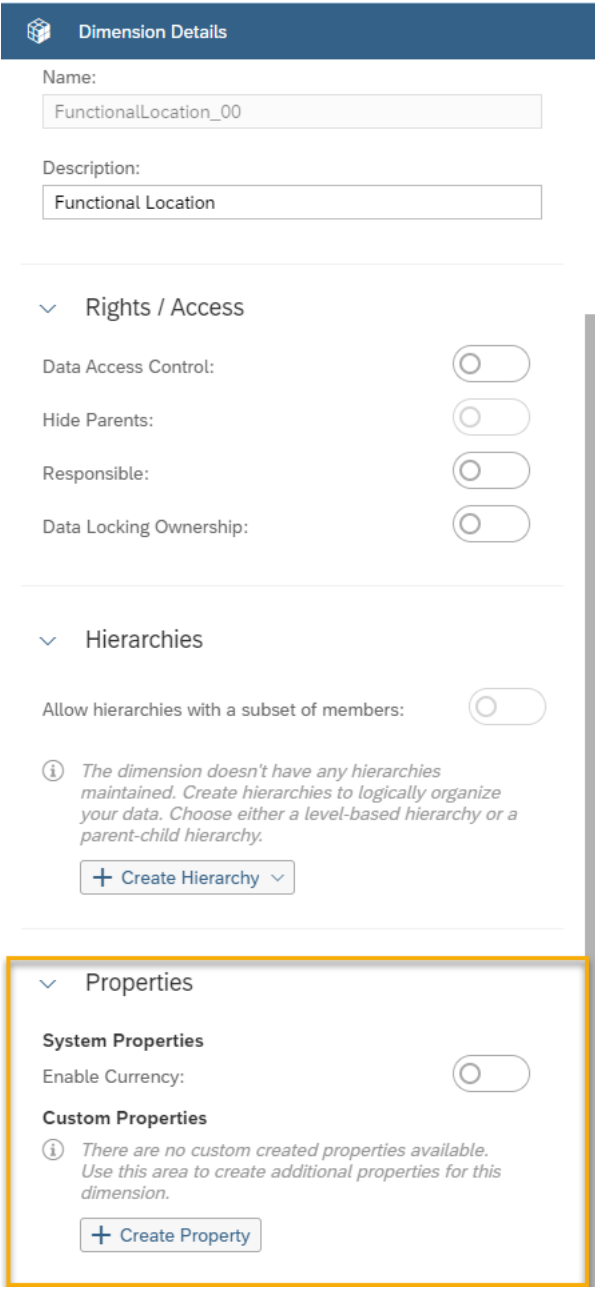
You have Access to SAP Analytics Cloud

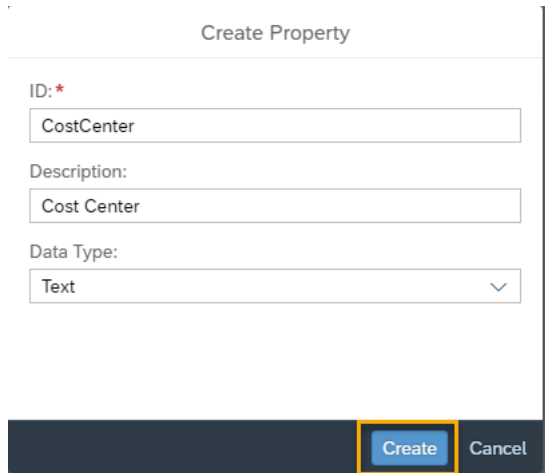
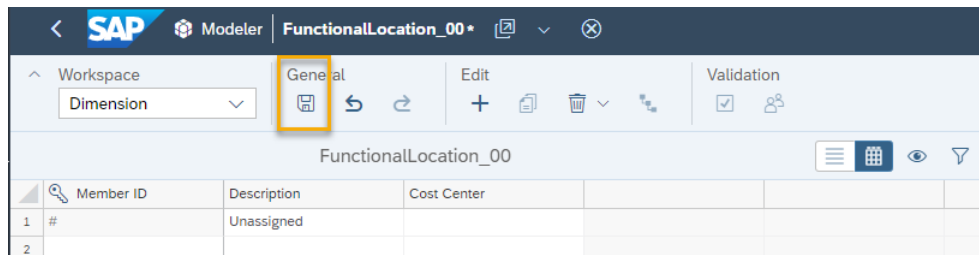
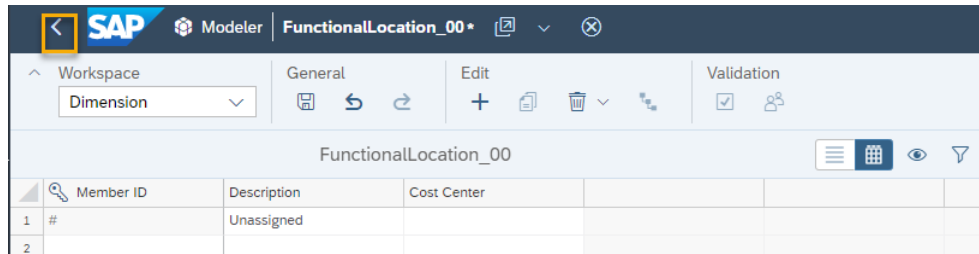
EXERCISE STEP DETAILS

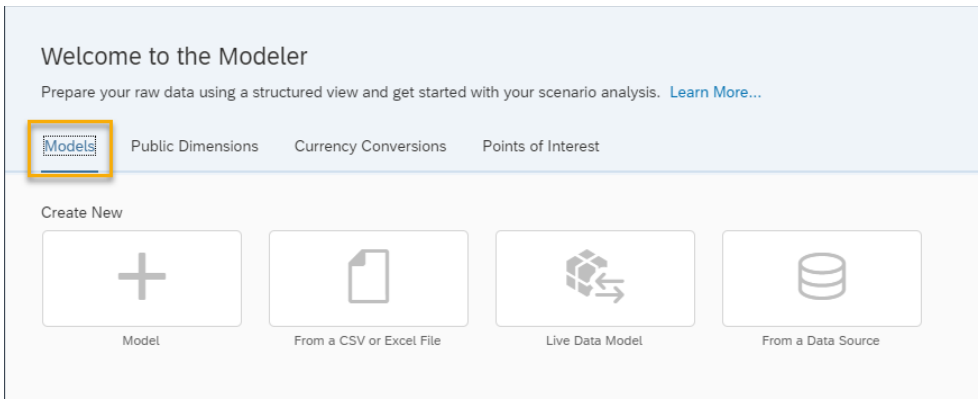
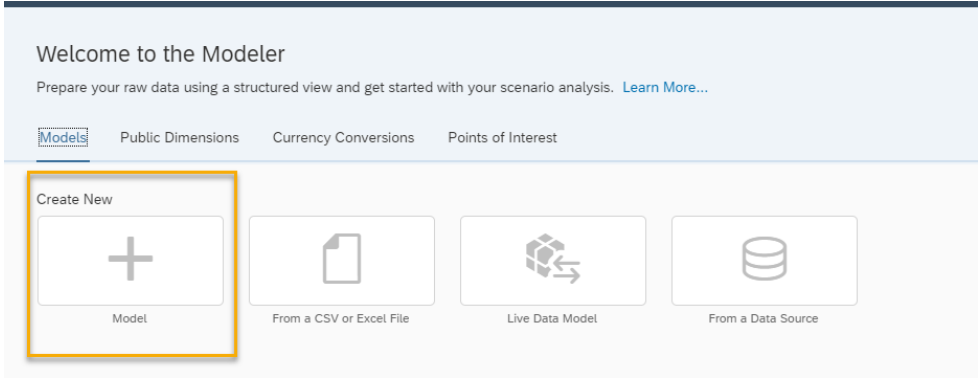
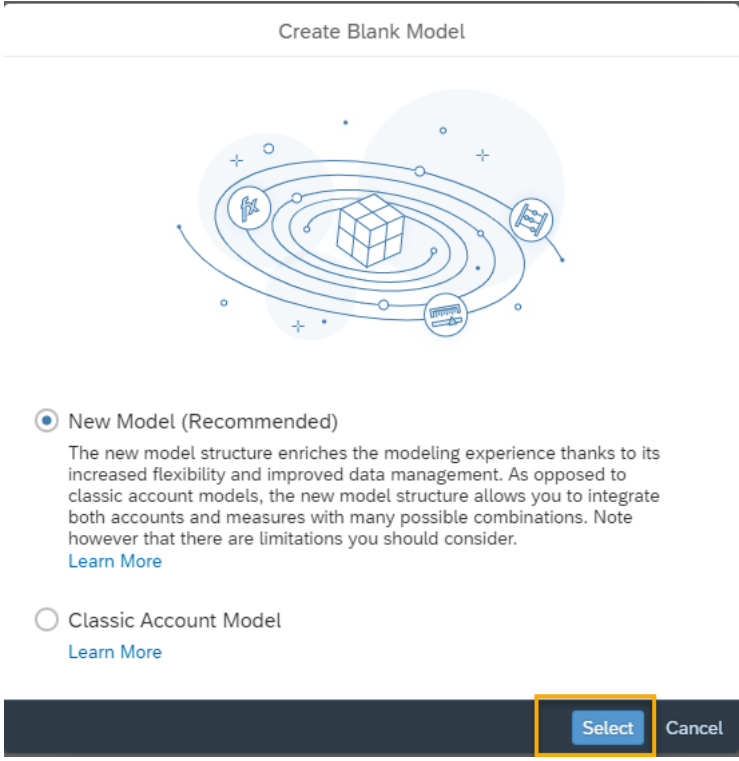
Explanation	Screenshot
<p>Log on to SAP Analytics Cloud with the given tenant URL and assigned user credential mentioned above.</p> <p>Go to the Home Screen.</p>	
<p>Click on the Modeler  Icon, the system opens SAP Analytics Cloud Modeler.</p>	
<p>Click on Public Dimensions Tab to Navigate to the Public Dimension screen</p>	

Explanation	Screenshot
Click on Create New Public Dimension	 <p>Welcome to the Modeler</p> <p>Prepare your raw data using a structured view and get started with your scenario analysis. Learn More...</p> <p>Models <u>Public Dimensions</u> Currency Conversions Points of Interest</p> <p>Create New</p> <p>+</p> <p>Dimension</p>
Pop Up to Create Public Dimension Appears	 <p>Create Dimension</p> <p>Type: Generic</p> <p>Name: *</p> <p>The value cannot be empty</p> <p>Description:</p> <p><input type="checkbox"/> Enable Data Access Control</p> <p><input type="checkbox"/> Hide hierarchy nodes for users without authorization</p> <p><input type="checkbox"/> Enable Responsibility</p> <p><input type="checkbox"/> Enable Currency</p> <p>Create Cancel</p>
<p>Provide Following Values and Click on Create</p> <ul style="list-style-type: none"> Type: Organisation Name: CompanyCode_XX (XX is the Participant ID) Description: Company Code Enable Currency and Enable Responsibility <p>Options are selected by default</p>	 <p>Create Dimension</p> <p>Type: Organization</p> <p>Name: * CompanyCode_00</p> <p>Description: Company Code</p> <p><input type="checkbox"/> Enable Data Access Control</p> <p><input type="checkbox"/> Hide hierarchy nodes for users without authorization</p> <p><input checked="" type="checkbox"/> Enable Responsibility</p> <p><input checked="" type="checkbox"/> Enable Currency</p> <p>Create Cancel</p>

Explanation	Screenshot
The Screen to define Dimension opens with a dimension member # included. Maintain currency EUR for the # company code and c Click on Save to Save the newly created dimension	
Click Back to go back to the dimension definition screen	
In the Public Dimensions Screen Click on Create new Dimension	
Provide Following Values and Click on Create <ul style="list-style-type: none"> Type: Generic Name: FunctionalLocation_XX Description: Functional Location 	

Explanation	Screenshot
<p>The Functional Location Dimension Definition screen opens</p>	 <p>The screenshot shows the 'FunctionalLocation_00' workspace. A table lists members with IDs 1 through 8, all with the description 'Unassigned'. On the right, the 'Dimension Details' sidebar is visible, showing the 'Name' as 'FunctionalLocation_00' and the 'Description' as 'Functional Location'.</p>
<p>In the Details Sections navigate down to the section Properties and click on Create Property</p>	 <p>The screenshot displays the 'Dimension Details' section for 'FunctionalLocation_00'. It includes fields for 'Name' and 'Description'. Below these are sections for 'Rights / Access' (with toggles for Data Access Control, Hide Parents, Responsible, and Data Locking Ownership) and 'Hierarchies' (with a toggle for 'Allow hierarchies with a subset of members' and a message about maintaining hierarchies). The 'Properties' section is highlighted with an orange box, showing 'System Properties' (with an 'Enable Currency' toggle) and 'Custom Properties' (with a message about creating custom properties and a '+ Create Property' button).</p>

Explanation	Screenshot																				
<p>In the Create Property Dialogue box provide following and click on Create</p> <ul style="list-style-type: none">• Name: CostCenter• Description: Cost Center• Data Type: Text																					
<p>Save the Dimension by clicking on Save</p>																					
<p>Click Back to go back to the dimension definition screen</p>																					
<p>Repeat the Dimension Creation process to create other public dimensions as described the table. (XX is the participant ID)</p>	<table><tr><th>Type</th><th>Dimension ID</th><th>Description</th><th>Property</th></tr><tr><td>Generic</td><td>CostCenter_XX</td><td>Cost center</td><td></td></tr><tr><td>Generic</td><td>Equipment_XX</td><td>Equipment</td><td>FunctionalLocation</td></tr><tr><td>Generic</td><td>MaintenanceCategory_XX</td><td>Maintenance Category</td><td></td></tr><tr><td>Generic</td><td>Plant_XX</td><td>Plant</td><td></td></tr></table>	Type	Dimension ID	Description	Property	Generic	CostCenter_XX	Cost center		Generic	Equipment_XX	Equipment	FunctionalLocation	Generic	MaintenanceCategory_XX	Maintenance Category		Generic	Plant_XX	Plant	
Type	Dimension ID	Description	Property																		
Generic	CostCenter_XX	Cost center																			
Generic	Equipment_XX	Equipment	FunctionalLocation																		
Generic	MaintenanceCategory_XX	Maintenance Category																			
Generic	Plant_XX	Plant																			
<p>Create SAP Analytics Cloud Model for Maintenance Cost Budgeting</p>																					

Explanation	Screenshot
Click on Models tab of SAP Analytics Cloud Modeler	
Click on Create New Model	
In the Model Creation popup choose New Model and click on Select	

Explanation

The system open Model Structure screen. Version and Date Dimensions are included by default

Screenshot

The screenshot displays the SAP Modeler interface for a new model. The top navigation bar includes 'Workspace', 'Modeler', and 'New Model'. The 'Model Structure' panel on the left shows a search bar and two sections: 'Measures' (with a note 'There is no element created yet.') and 'Dimensions'. Under 'Dimensions', 'Version' and 'Date' are listed as default dimensions. The 'Model Details' panel on the right shows the 'New Model' configuration, including 'Planning (Measure)', 'Preferences', 'Data Sources', and 'Related Objects'. The central workspace shows a hierarchical diagram with 'Version' at the top, followed by 'Data Foundation' (containing Measures, Calculations, and Dimensions), and 'Date' at the bottom. The 'Date' dimension is configured with a granularity of 'Month' and a default hierarchy of 'YQIM'.

Model Structure Panel:

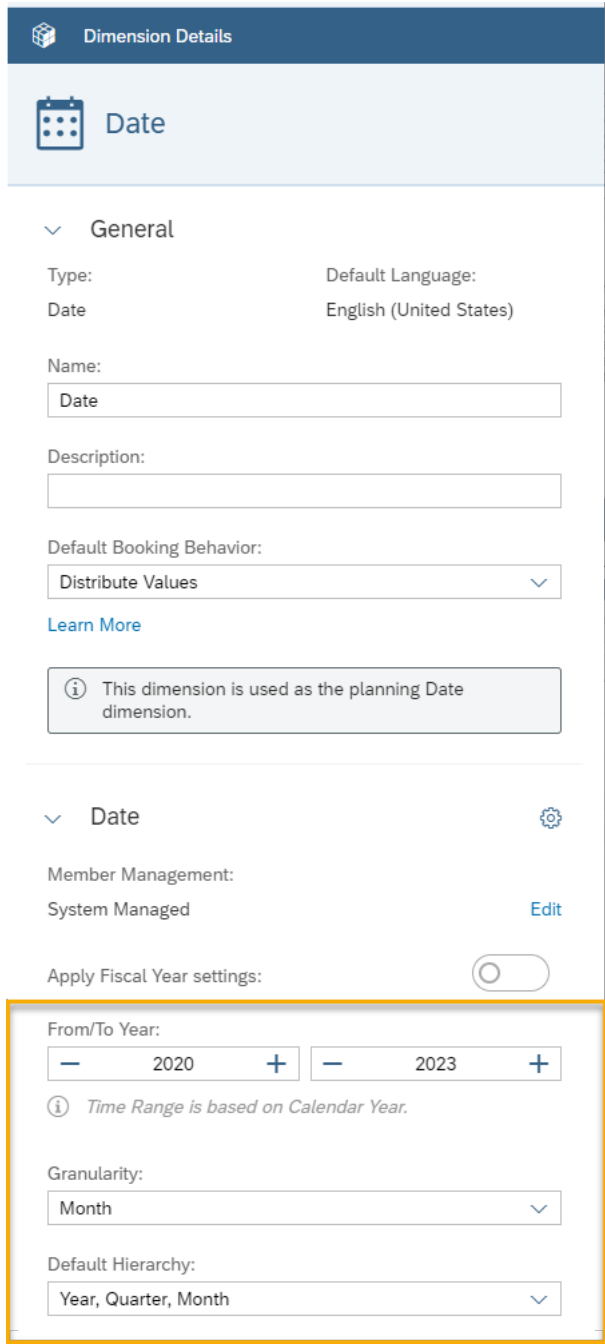
- Measures: There is no element created yet.
- Dimensions:
 - Version
 - Date


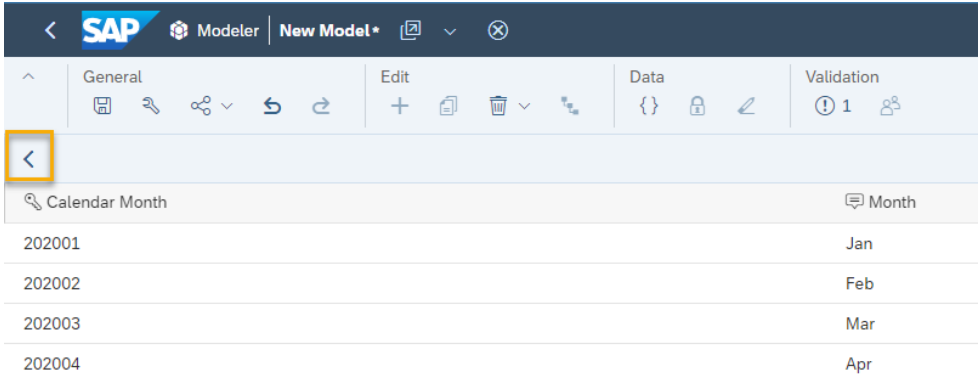

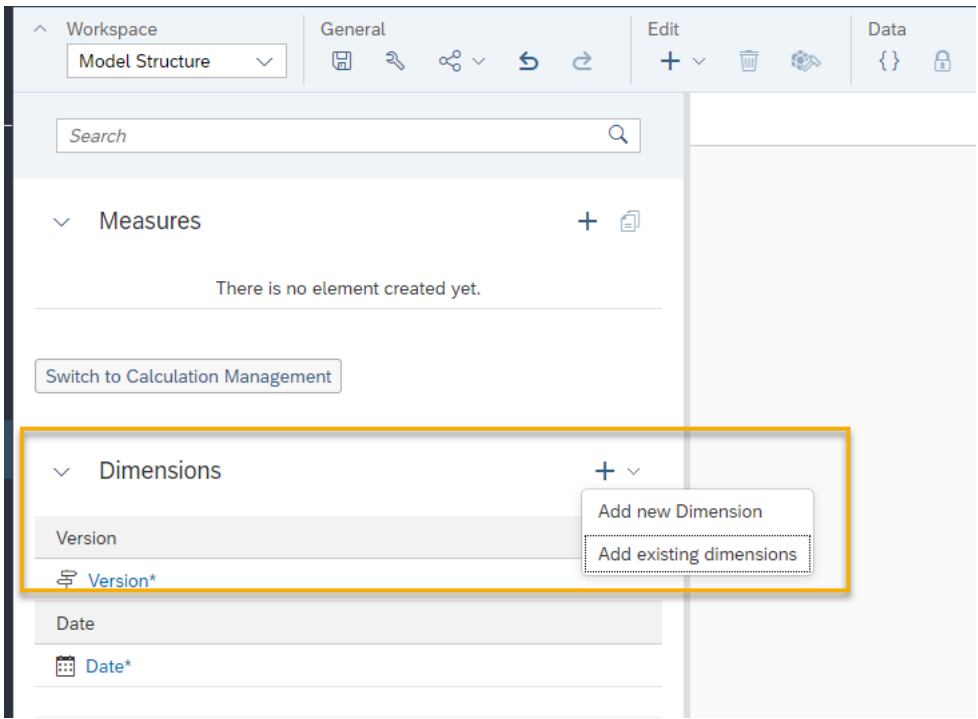
Model Details Panel:

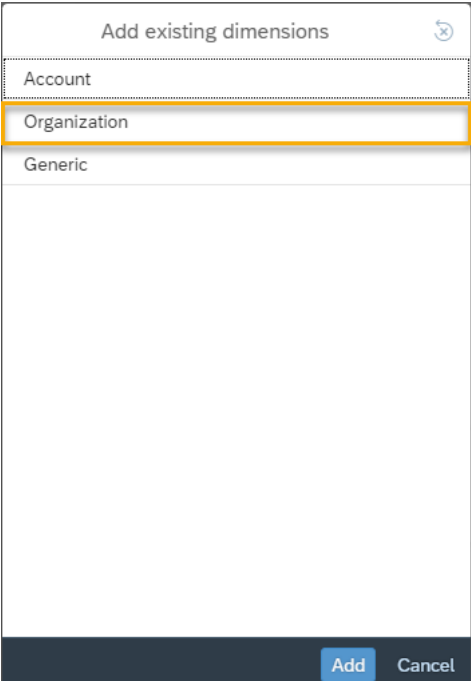

- New Model: Planning (Measure)
- Preferences: Setting, Status. The model uses only default settings.
- Data Sources: This model doesn't contain data yet. When you import a data file or set up import jobs, these data sources will appear here. Switch to Data Management to upload data.
- Related Objects: This model is currently not used in any stories or processes.


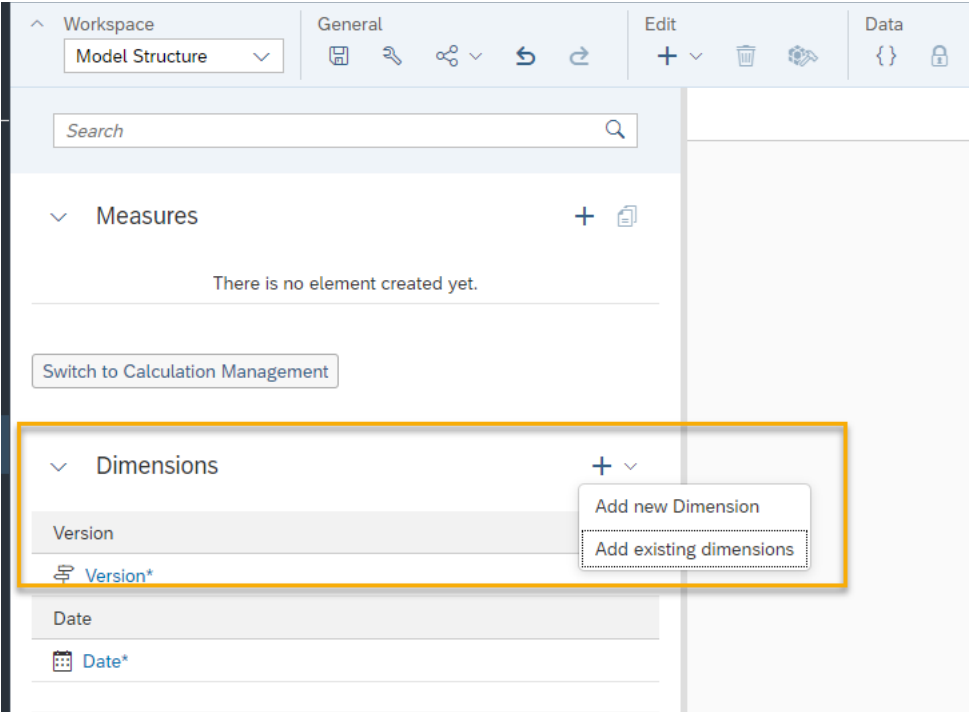
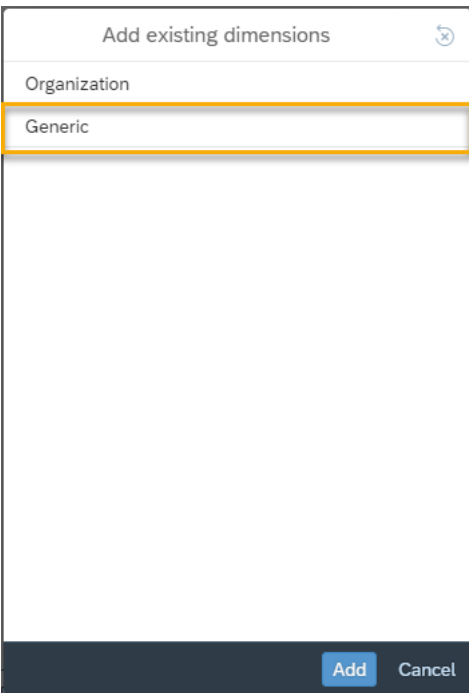
Model Diagram:

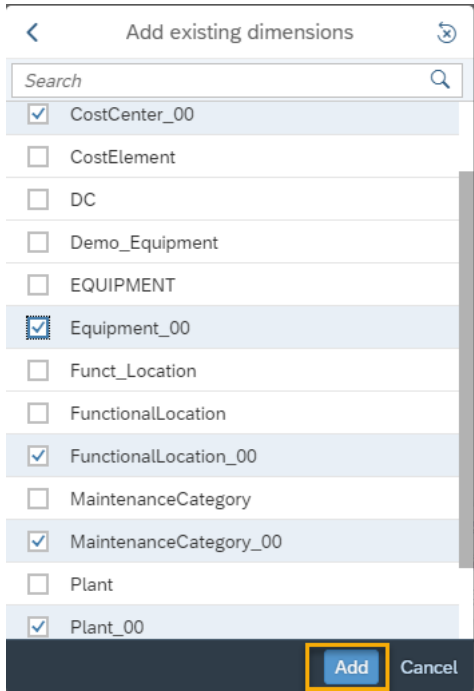
- Version: Public Versions: 1, Has private versions: No
- Data Foundation: Measures: 0, Calculations: 0, Dimensions: 2
- Date: Granularity: Month, Default Hierarchy: YQIM

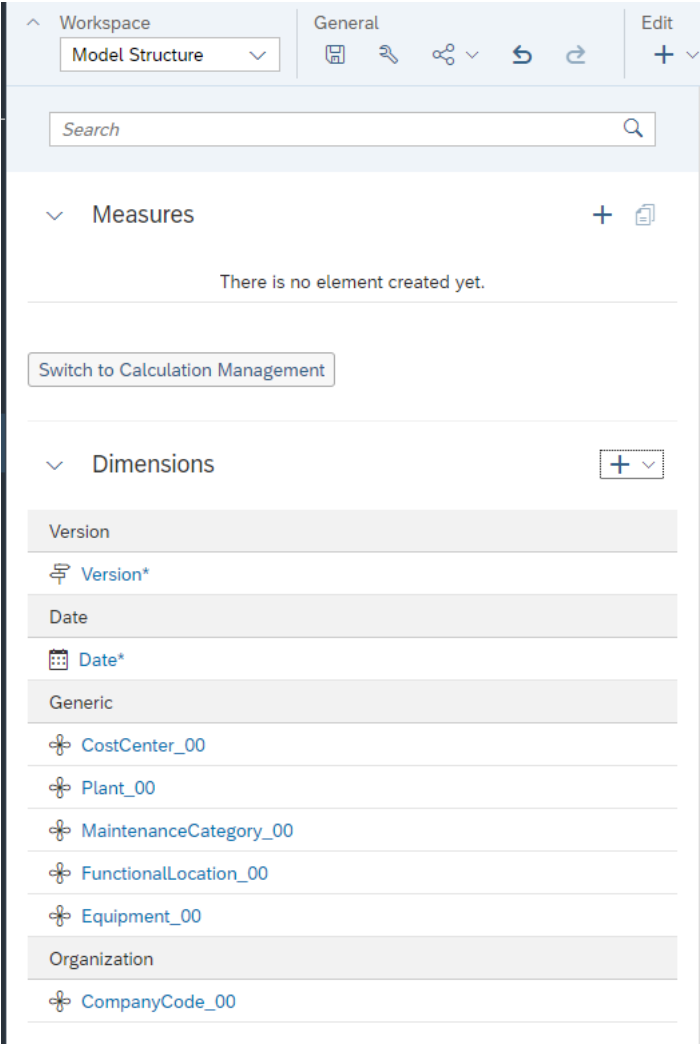
Explanation	Screenshot
<p>Click on the Date Dimension. In the Dimension Detail screen change the From/To years as 2020 - 2023</p>	 <p>The screenshot shows the 'Dimension Details' screen for the 'Date' dimension. The 'General' section includes fields for Type (Date), Default Language (English (United States)), Name (Date), Description, and Default Booking Behavior (Distribute Values). A note states: 'This dimension is used as the planning Date dimension.' The 'Date' section includes Member Management (System Managed), Apply Fiscal Year settings (toggle), and the 'From/To Year' section, which is highlighted with a yellow box. The 'From/To Year' section shows the years 2020 and 2023, with a note: 'Time Range is based on Calendar Year.' The 'Granularity' is set to 'Month' and the 'Default Hierarchy' is 'Year, Quarter, Month'.</p>


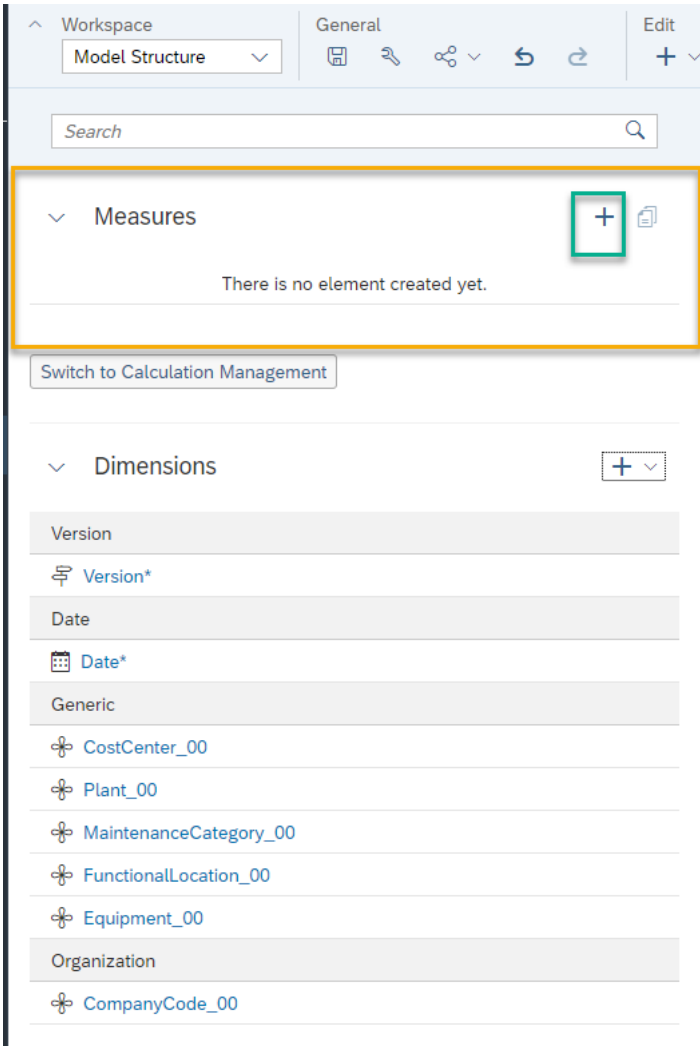
Explanation	Screenshot
Click Back  to go back to the Model Structure	
In the model structure, click  and choose Add existing dimensions to include dimensions in the model	

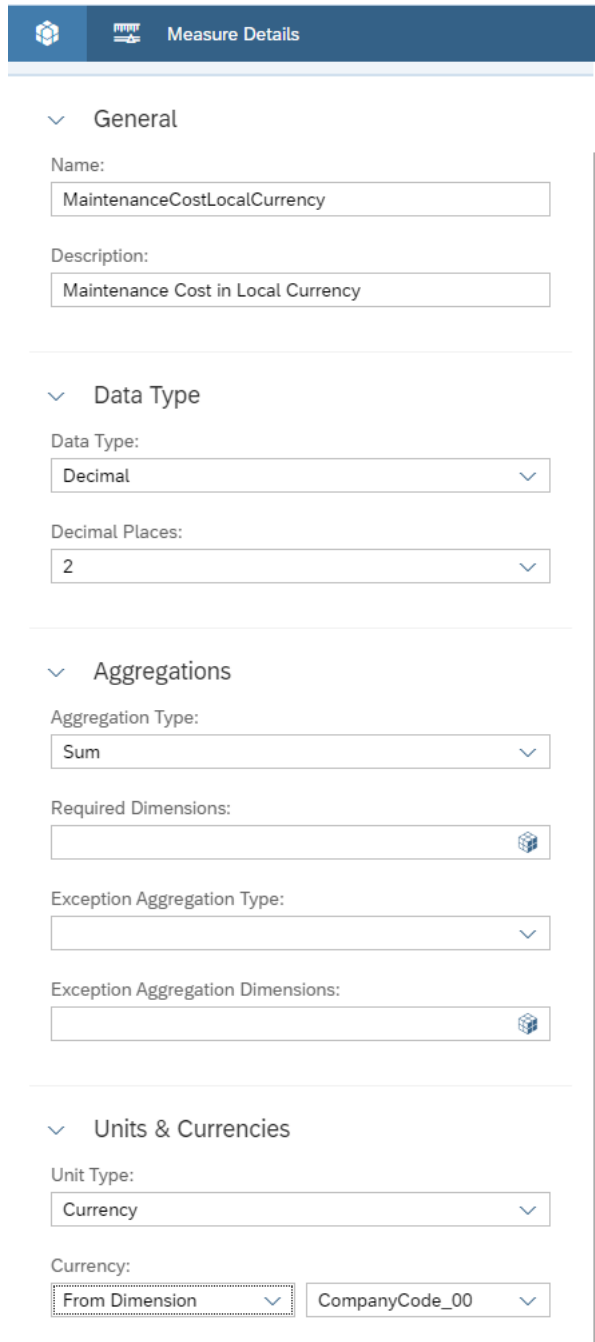
Explanation	Screenshot
Click on Organisation Dimension	 A screenshot of a mobile application dialog titled "Add existing dimensions" with a close icon in the top right corner. The dialog contains a list of dimension types: "Account", "Organization", and "Generic". The "Organization" item is highlighted with an orange border. At the bottom of the dialog are two buttons: "Add" and "Cancel".
Select Company Code Dimension created in previous exercise and click on Add. Company Code dimension gets added to the model	 A screenshot of a mobile application dialog titled "Add existing dimensions" with a back arrow and a close icon in the top left and right corners respectively. Below the title is a search bar with the placeholder text "Search" and a magnifying glass icon. Below the search bar is a list item "CompanyCode_00" which is selected, indicated by a blue circle with a white dot to its left. At the bottom of the dialog are two buttons: "Add" and "Cancel".

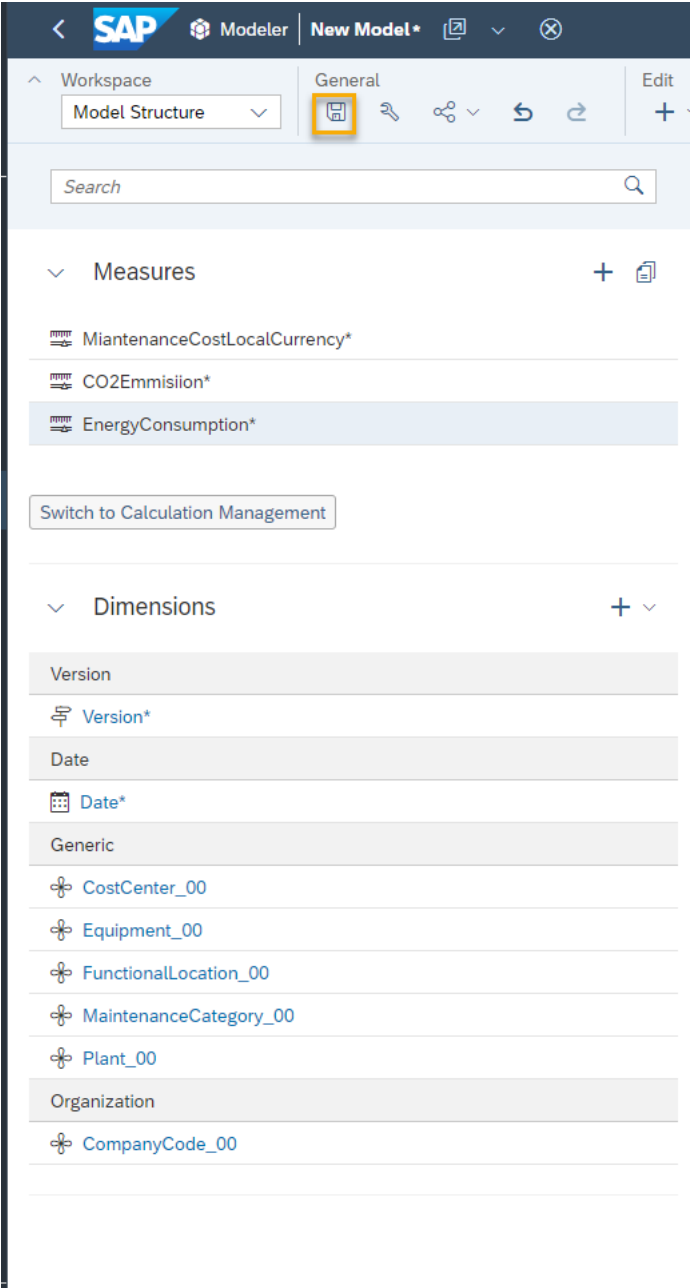
Explanation	Screenshot
<p>In the model structure, click  and choose Add existing dimensions to include dimensions in the model</p>	 <p>The screenshot shows the 'Model Structure' pane in a software application. The 'Dimensions' section is expanded, and a context menu is visible with the option 'Add existing dimensions' highlighted. The menu also includes 'Add new Dimension'. The 'Measures' section is empty, and a button 'Switch to Calculation Management' is visible below it.</p>
<p>Click on Generic</p>	 <p>The screenshot shows a dialog box titled 'Add existing dimensions'. It contains a list of options: 'Organization' and 'Generic'. The 'Generic' option is selected and highlighted with an orange box. At the bottom of the dialog, there are 'Add' and 'Cancel' buttons.</p>

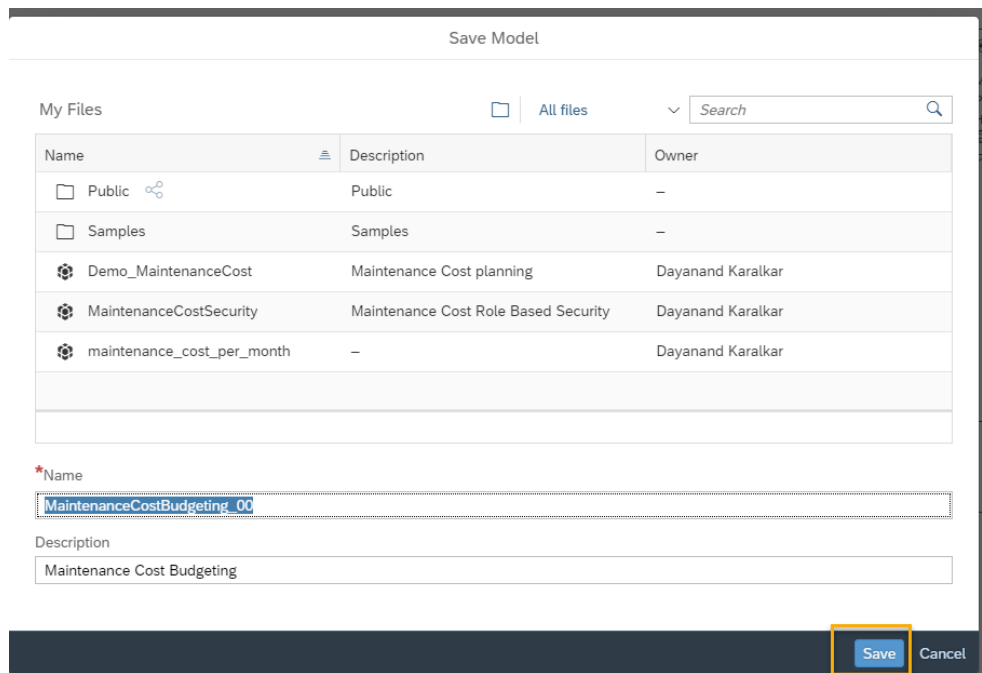
Explanation	Screenshot
<p>Select the following Generic Dimensions Created in the last Exercise and Click on Add,</p> <ul style="list-style-type: none">• Cost Center• Plant• FunctionalLocation• Equipment• MaintenanceCategory	 <p>The screenshot shows a dialog box titled "Add existing dimensions". It contains a search bar and a list of dimensions with checkboxes. The following dimensions are checked:</p> <ul style="list-style-type: none"><input checked="" type="checkbox"/> CostCenter_00<input type="checkbox"/> CostElement<input type="checkbox"/> DC<input type="checkbox"/> Demo_Equipment<input type="checkbox"/> EQUIPMENT<input checked="" type="checkbox"/> Equipment_00<input type="checkbox"/> Funct_Location<input type="checkbox"/> FunctionalLocation<input checked="" type="checkbox"/> FunctionalLocation_00<input type="checkbox"/> MaintenanceCategory<input checked="" type="checkbox"/> MaintenanceCategory_00<input type="checkbox"/> Plant<input checked="" type="checkbox"/> Plant_00 <p>The "Add" button is highlighted with a yellow box.</p>


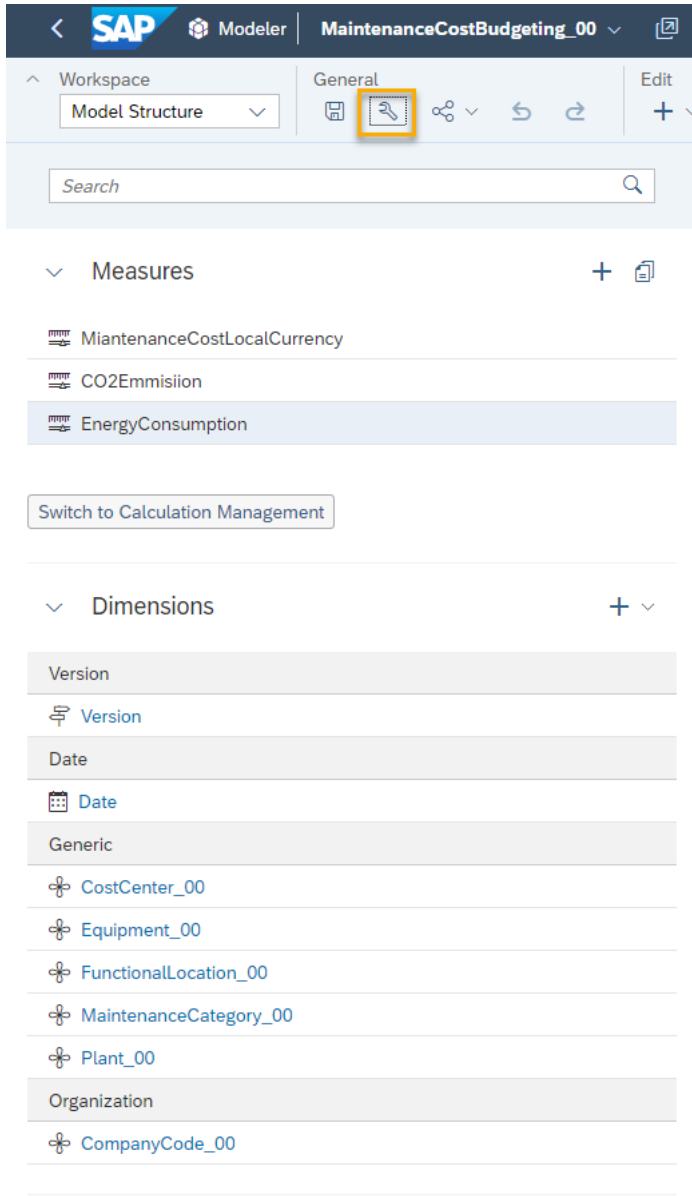
Explanation	Screenshot
Selected dimensions will be added to the Model	 <p>The screenshot displays the 'Model Structure' view in SAP S/4HANA. The 'Workspace' tab is active, showing a 'Model Structure' dropdown. The 'Measures' section is collapsed, and the 'Dimensions' section is expanded. The 'Dimensions' list includes: Version, Date, Generic, CostCenter_00, Plant_00, MaintenanceCategory_00, FunctionalLocation_00, Equipment_00, Organization, and CompanyCode_00. The 'Measures' section contains the text 'There is no element created yet.' and a 'Switch to Calculation Management' button.</p>

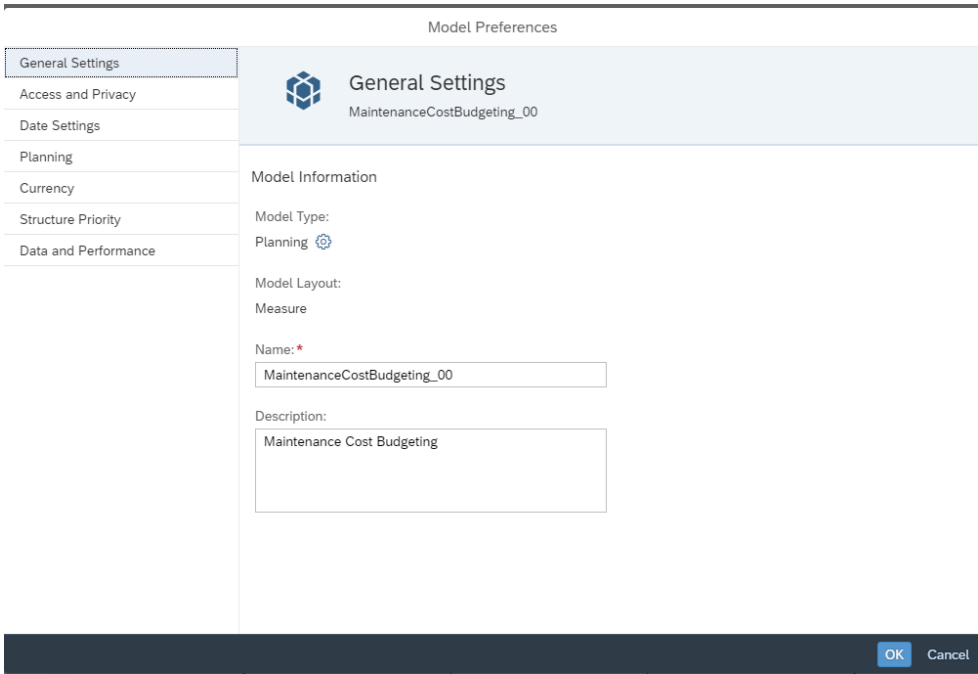
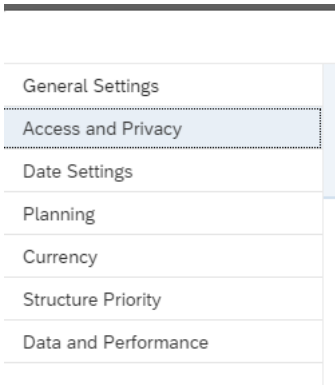
Explanation	Screenshot
Click  to add Measures to the model	 <p>The screenshot shows a software interface with a top navigation bar containing 'Workspace', 'General', and 'Edit' tabs. Below this is a search bar. The main content area is divided into sections. The 'Measures' section is highlighted with an orange border and contains a green box around a plus icon. Below the 'Measures' section is a button labeled 'Switch to Calculation Management'. The 'Dimensions' section is visible below, showing a list of dimension items: 'Version', 'Date', 'Generic', 'CostCenter_00', 'Plant_00', 'MaintenanceCategory_00', 'FunctionalLocation_00', 'Equipment_00', and 'CompanyCode_00'.</p>

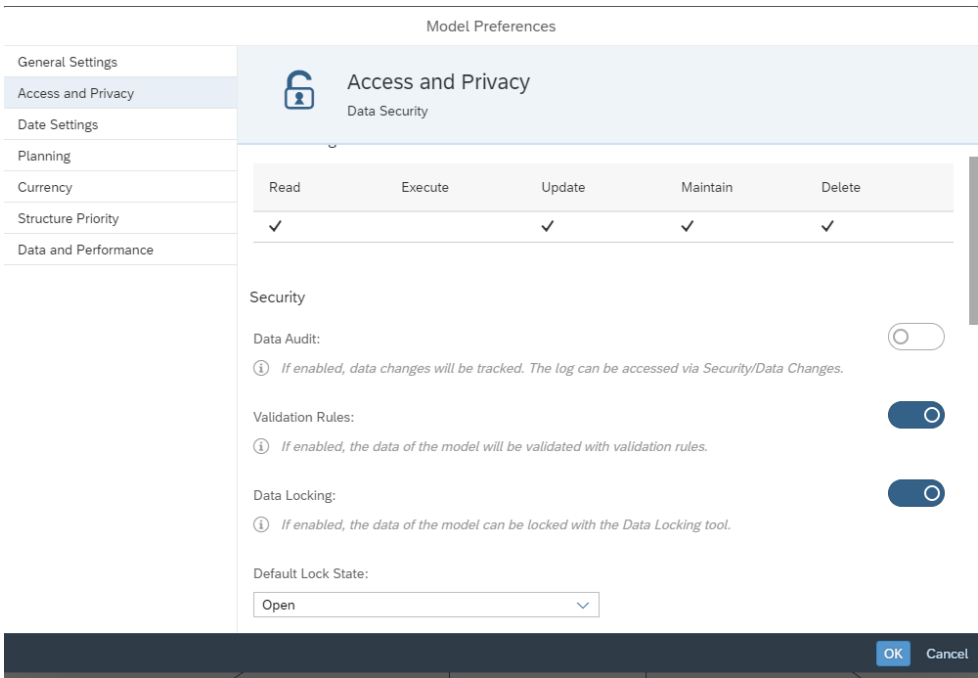
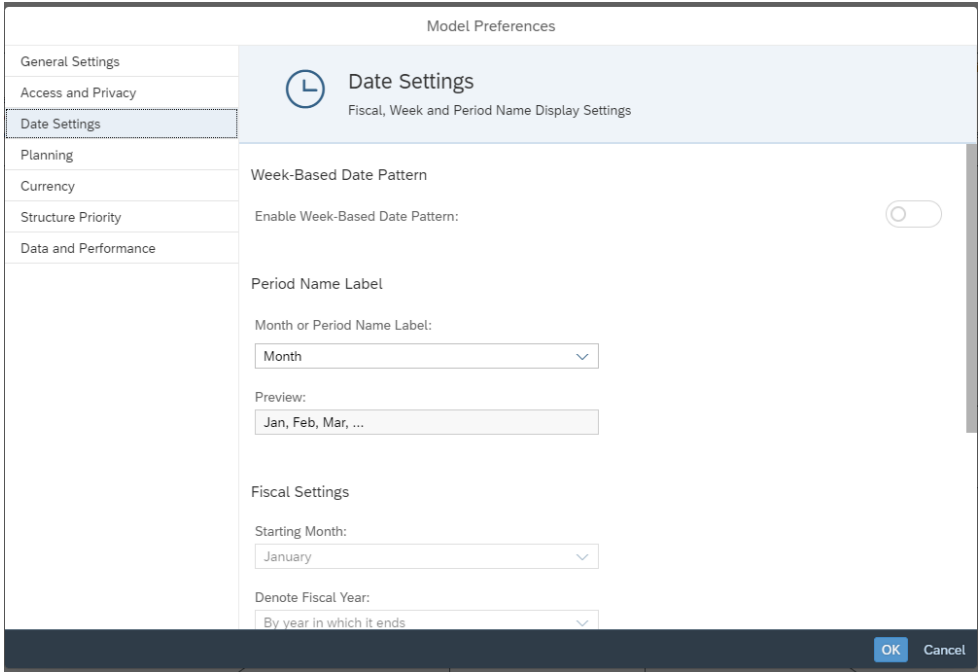
Explanation	Screenshot												
<p>Provide the Following information,</p> <ul style="list-style-type: none">• Name: MaintenanceCostLocalCurrency• Description: Maintenance Cost in Local Currency• Data Type: Decimal• Decimal:2• Aggregation: Sum• Unit Type: Currency• Currency: From Company Code	 <p>The screenshot shows the 'Measure Details' configuration page in SAP. It is divided into four main sections: General, Data Type, Aggregations, and Units & Currencies. In the General section, the Name is 'MaintenanceCostLocalCurrency' and the Description is 'Maintenance Cost in Local Currency'. In the Data Type section, the Data Type is set to 'Decimal' and Decimal Places is '2'. In the Aggregations section, the Aggregation Type is 'Sum'. In the Units & Currencies section, the Unit Type is 'Currency', and the Currency is set to 'From Dimension' with 'CompanyCode_00' as the company code.</p>												
<p>Repeat the Steps to add following new measures</p>	<table><tr><th>Name</th><th>Description</th><th>Data Type</th><th>Aggregation</th></tr><tr><td>CO2Emission</td><td>CO2 Emission in Kgs</td><td>Decimal . Decimpal Places : 2</td><td>Sum</td></tr><tr><td>EnergyConsumption</td><td>Energy Consumption in KWH</td><td>Decimal . Decimpal Places : 2</td><td>Sum</td></tr></table>	Name	Description	Data Type	Aggregation	CO2Emission	CO2 Emission in Kgs	Decimal . Decimpal Places : 2	Sum	EnergyConsumption	Energy Consumption in KWH	Decimal . Decimpal Places : 2	Sum
Name	Description	Data Type	Aggregation										
CO2Emission	CO2 Emission in Kgs	Decimal . Decimpal Places : 2	Sum										
EnergyConsumption	Energy Consumption in KWH	Decimal . Decimpal Places : 2	Sum										

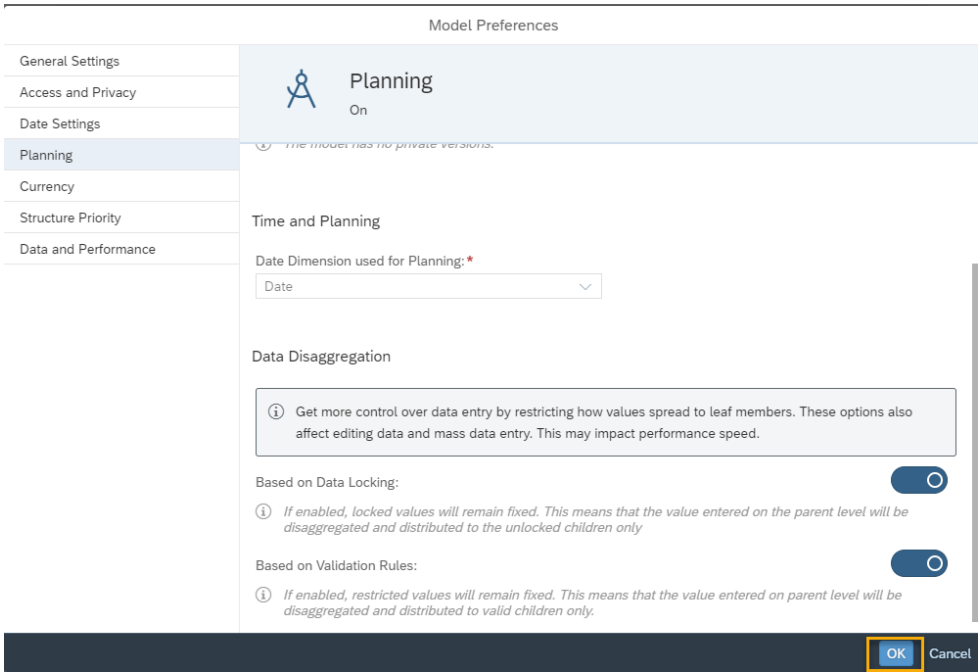
Explanation	Screenshot
<p>Click On Save to Save the Model</p>	 <p>The screenshot displays the SAP Modeler 'New Model' interface. The top navigation bar includes the SAP logo, 'Modeler', and 'New Model*'. Below this, the 'Workspace' section shows 'Model Structure' selected. The 'General' tab is active, and the 'Save' icon (a floppy disk) is highlighted with a yellow box. Other icons for search, undo, redo, and edit are also visible. The main area is divided into 'Measures' and 'Dimensions' sections. The 'Measures' section lists 'MaintenanceCostLocalCurrency*', 'CO2Emmision*', and 'EnergyConsumption*'. The 'Dimensions' section lists 'Version', 'Date', 'Generic', 'CostCenter_00', 'Equipment_00', 'FunctionalLocation_00', 'MaintenanceCategory_00', 'Plant_00', and 'CompanyCode_00'. A 'Switch to Calculation Management' button is located between the two sections.</p>

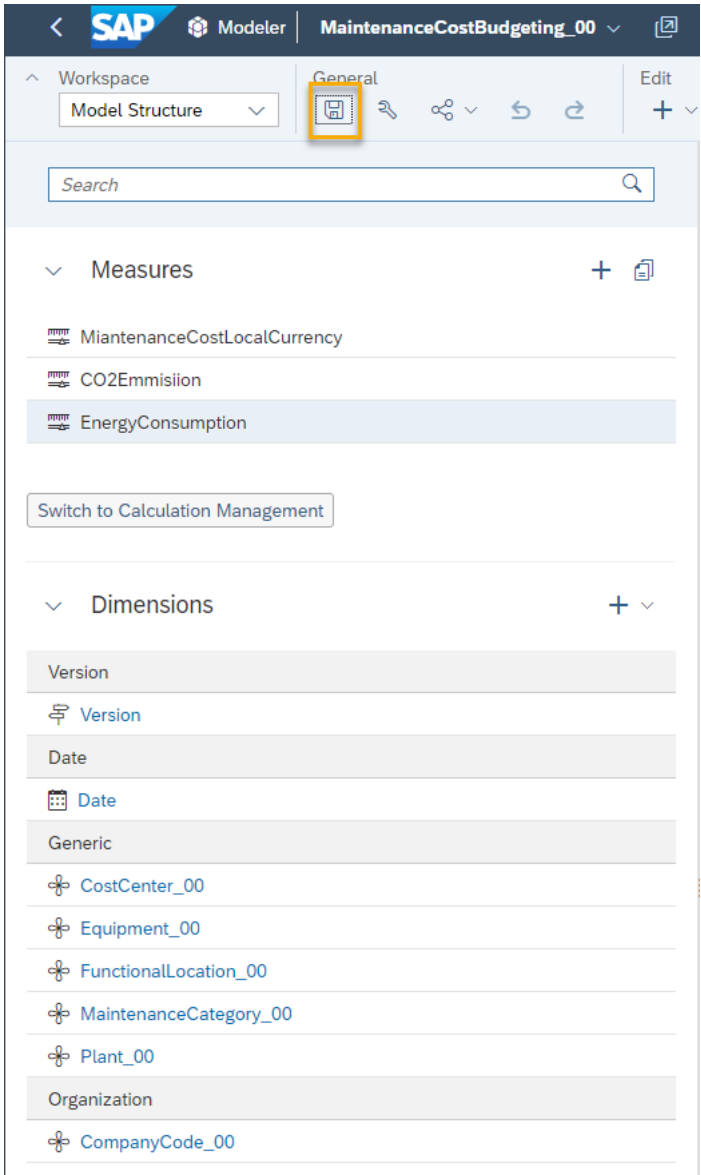
Explanation	Screenshot																		
<p>The Save Model screens opens. Provide name and description and Click on Save.</p> <p>Name: MaintenanceCostBudgeting_XX (XX is the Participant ID)</p> <p>Description: Maintenance Cost Budgeting</p>	 <p>The screenshot shows the 'Save Model' dialog box. It features a 'My Files' section with a table listing existing models. Below the table, there are input fields for 'Name' and 'Description'. The 'Name' field contains 'MaintenanceCostBudgeting_00' and the 'Description' field contains 'Maintenance Cost Budgeting'. At the bottom right, there are 'Save' and 'Cancel' buttons.</p> <table><tr><th>Name</th><th>Description</th><th>Owner</th></tr><tr><td>Public</td><td>Public</td><td>–</td></tr><tr><td>Samples</td><td>Samples</td><td>–</td></tr><tr><td>Demo_MaintenanceCost</td><td>Maintenance Cost planning</td><td>Dayanand Karalkar</td></tr><tr><td>MaintenanceCostSecurity</td><td>Maintenance Cost Role Based Security</td><td>Dayanand Karalkar</td></tr><tr><td>maintenance_cost_per_month</td><td>–</td><td>Dayanand Karalkar</td></tr></table>	Name	Description	Owner	Public	Public	–	Samples	Samples	–	Demo_MaintenanceCost	Maintenance Cost planning	Dayanand Karalkar	MaintenanceCostSecurity	Maintenance Cost Role Based Security	Dayanand Karalkar	maintenance_cost_per_month	–	Dayanand Karalkar
Name	Description	Owner																	
Public	Public	–																	
Samples	Samples	–																	
Demo_MaintenanceCost	Maintenance Cost planning	Dayanand Karalkar																	
MaintenanceCostSecurity	Maintenance Cost Role Based Security	Dayanand Karalkar																	
maintenance_cost_per_month	–	Dayanand Karalkar																	
<h3>Maintain Model Prefernce</h3>																			

Explanation	Screenshot
<p>Click on  (Model Preferences)</p>	

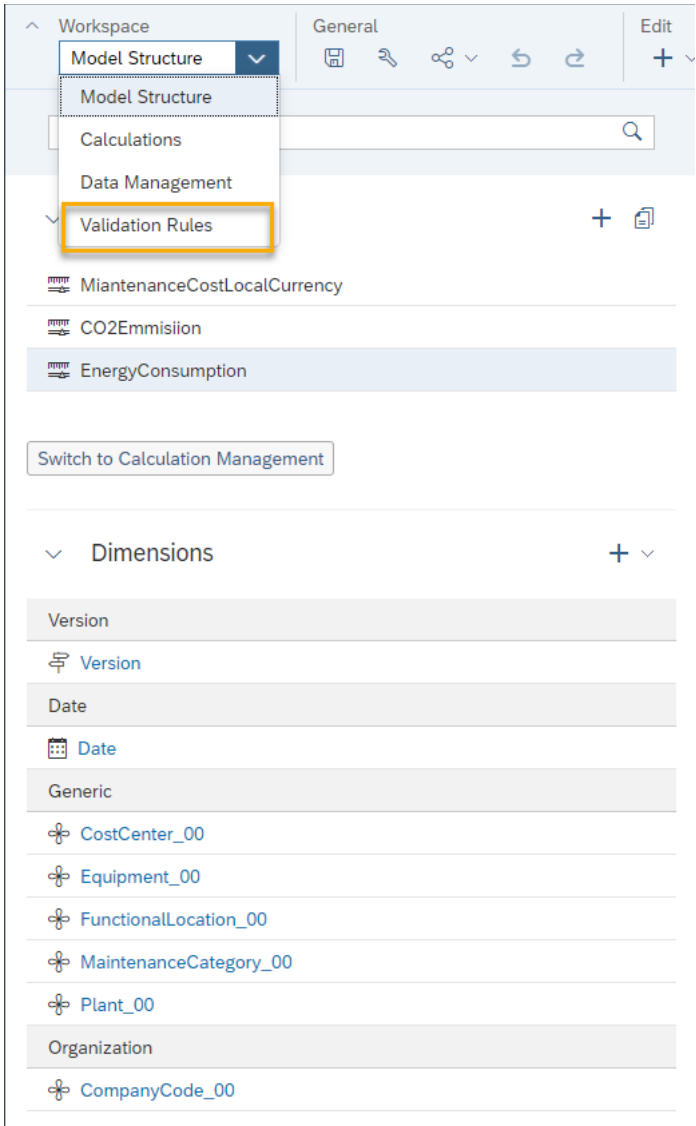
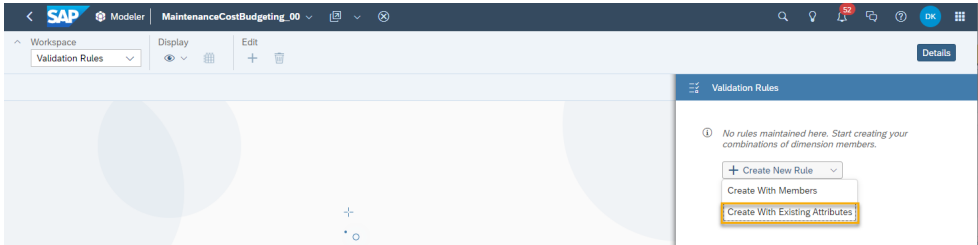
Explanation	Screenshot
The Model Preference screen opens	 <p>The screenshot shows the 'Model Preferences' window with the 'General Settings' tab selected. The left sidebar lists various settings categories: General Settings, Access and Privacy, Date Settings, Planning, Currency, Structure Priority, and Data and Performance. The main content area is titled 'General Settings' and 'MaintenanceCostBudgeting_00'. It contains a 'Model Information' section with fields for 'Model Type' (set to 'Planning'), 'Model Layout' (set to 'Measure'), 'Name' (set to 'MaintenanceCostBudgeting_00'), and 'Description' (set to 'Maintenance Cost Budgeting'). At the bottom right, there are 'OK' and 'Cancel' buttons.</p>
Click on the Access and Privacy	 <p>The screenshot shows the 'Model Preferences' window with the 'Access and Privacy' tab selected. The left sidebar lists various settings categories: General Settings, Access and Privacy, Date Settings, Planning, Currency, Structure Priority, and Data and Performance. The 'Access and Privacy' tab is highlighted in the sidebar.</p>

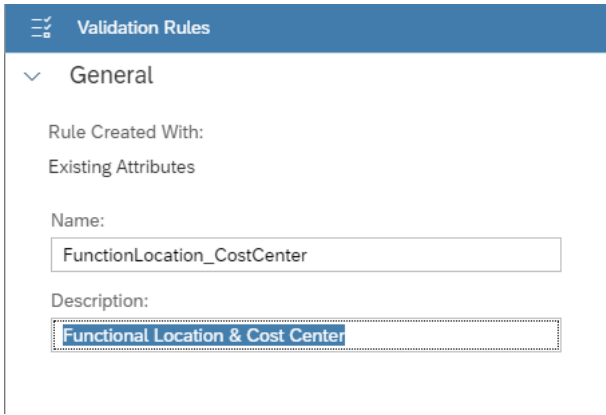

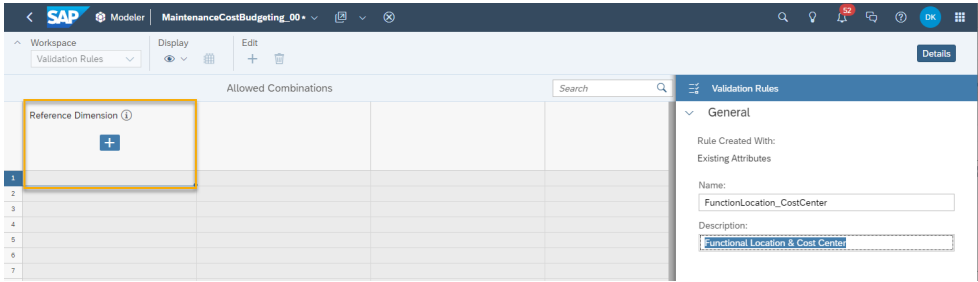
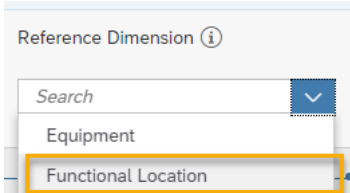

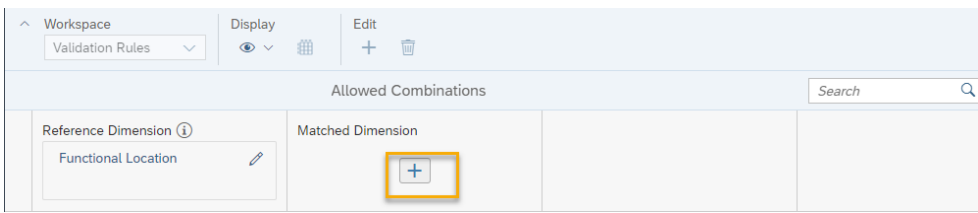
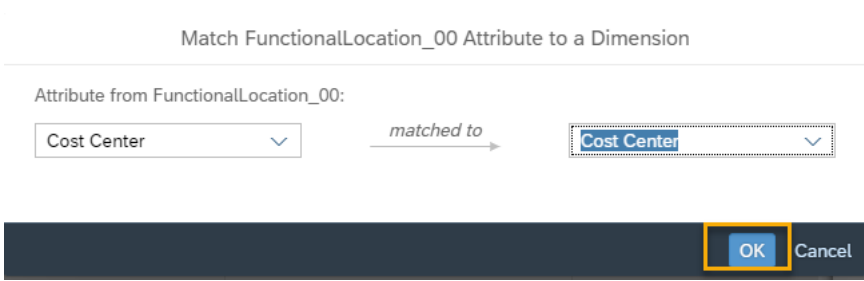
Explanation	Screenshot
<p>Make Following Settings,</p> <ul style="list-style-type: none"> • Validation Rules: On • Data Locking: on • Default Lock State Open 	
<p>Click On Date Settings and observe the values. Keep the default setting</p>	

Explanation	Screenshot
Click on Planning and observe the values. Keep the default setting and click OK	 <p>The screenshot shows the 'Model Preferences' dialog box with the 'Planning' tab selected. The 'Planning' toggle is turned 'On'. Below it, a message states 'The model has no private versions.' The 'Time and Planning' section shows 'Date Dimension used for Planning:' set to 'Date'. The 'Data Disaggregation' section contains an information box: 'Get more control over data entry by restricting how values spread to leaf members. These options also affect editing data and mass data entry. This may impact performance speed.' Below this, 'Based on Data Locking:' is enabled (toggle on), with a note: 'If enabled, locked values will remain fixed. This means that the value entered on the parent level will be disaggregated and distributed to the unlocked children only.' 'Based on Validation Rules:' is also enabled (toggle on), with a note: 'If enabled, restricted values will remain fixed. This means that the value entered on parent level will be disaggregated and distributed to valid children only.' At the bottom right, there are 'OK' and 'Cancel' buttons.</p>

Explanation	Screenshot
Click on Save to Save the Model	 The screenshot shows the SAP Modeler interface for a project named 'MaintenanceCostBudgeting_00'. The top toolbar contains several icons, with the 'Save' icon (a floppy disk) highlighted by a yellow box. Below the toolbar, the 'Workspace' section shows 'Model Structure' selected. The main area is divided into 'Measures' and 'Dimensions'. Under 'Measures', there are three items: 'MaintenanceCostLocalCurrency', 'CO2Emmision', and 'EnergyConsumption'. Under 'Dimensions', there are several items: 'Version', 'Date', 'Generic', 'CostCenter_00', 'Equipment_00', 'FunctionalLocation_00', 'MaintenanceCategory_00', 'Plant_00', and 'Organization'. A 'Switch to Calculation Management' button is also visible.

Validation Rules

Explanation	Screenshot
Click on "Validation Rules" in the "Workspace"	 <p>The screenshot shows the SAP Modeler Workspace interface. The 'Workspace' tab is active, and the 'Model Structure' dropdown menu is open. The 'Validation Rules' option is highlighted with a red rectangle. Below the menu, the 'MaintenanceCostLocalCurrency' measure is visible. The 'Dimensions' section is expanded, showing a list of dimensions: Version, Date, Generic, CostCenter_00, Equipment_00, FunctionalLocation_00, MaintenanceCategory_00, Plant_00, Organization, and CompanyCode_00.</p>
The Validation Rule definition screen opens. Click on Create New Rules-> "Create With Existing Attributes"	 <p>The screenshot shows the SAP Modeler Validation Rules definition screen. The 'Validation Rules' tab is active. The 'Create New Rule' dropdown menu is open, and the 'Create With Existing Attributes' option is highlighted with a red rectangle. The screen displays a message: 'No rules maintained here. Start creating your combinations of dimension members.'</p>

Explanation	Screenshot
Provide Name: FunctionLocation_CostCenter Description Functional Location & Cost Center	
Click  to Add Reference Dimension	
Select Functional Location	
Click  to add Matched Dimension	
Select Attribute Cost Center Matched to Dimension Cost Center and click OK	

Click on Save to Save the validation Rule

Workspace

Validation Rules

Display

Edit

Details

Allowed Combinations

Search

Reference Dimension ①

Functional Location

Matched Dimension

Cost Center

Matched via: Cost Center

Matched Dimension

1			
2			
3			
4			
5			
6			
7			
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Validation Rules

General

Rule Created With:

Existing Attributes

Name:

FunctionLocation_CostCenter

Description:

Functional Location & Cost Center

Save

Cancel

Workspace

Validation Rules

Display

Edit

Details

Allowed Combinations

Search

	Reference Dimension ①	Matched Dimension	Matched Dimension
	Functional Location	Cost Center Matched via: Cost Center	
1			
2			
3			
4			
5			
6			
7			
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Validation Rules

General

Rule Created With:

Existing Attributes

Name:

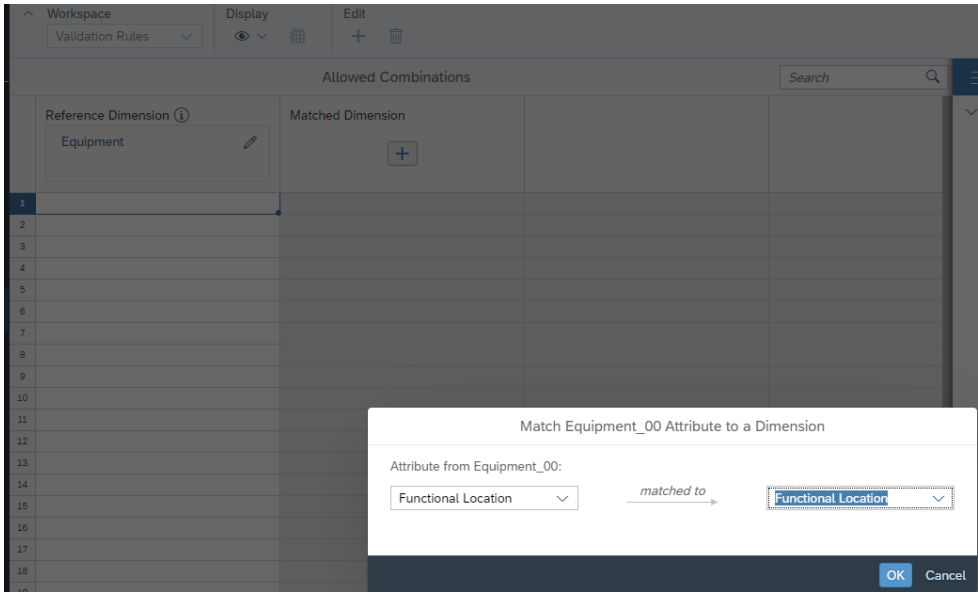
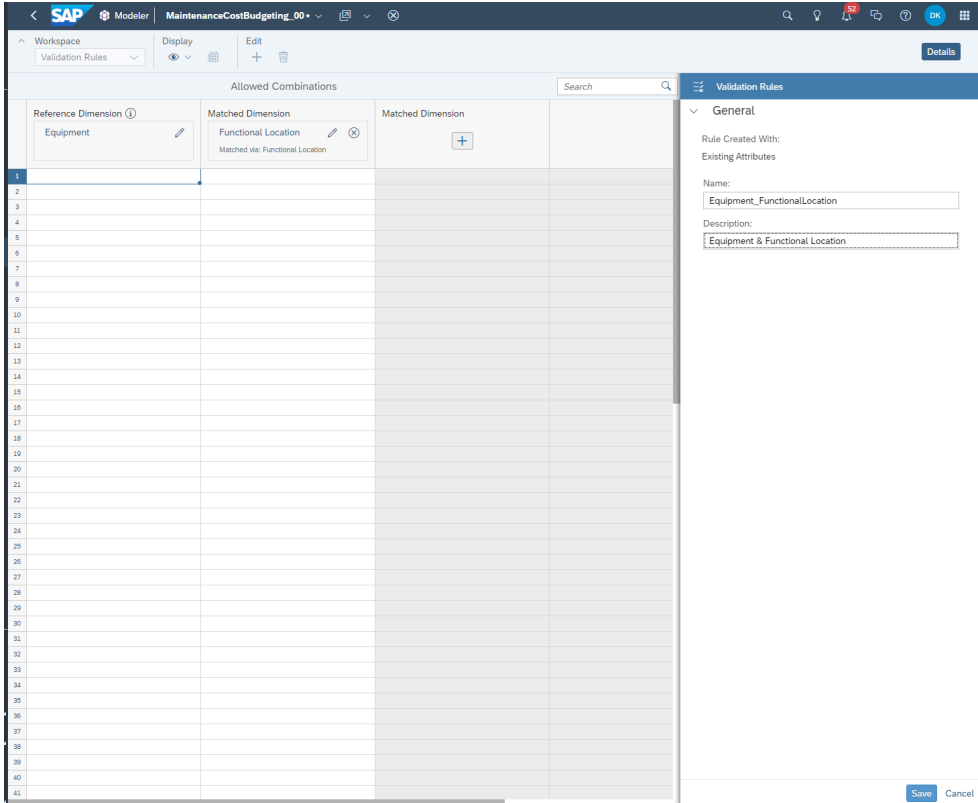
FunctionLocation_CostCenter

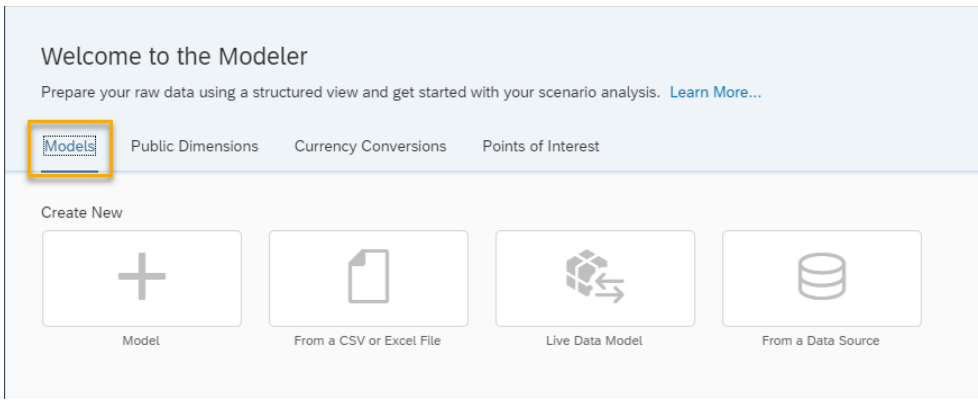
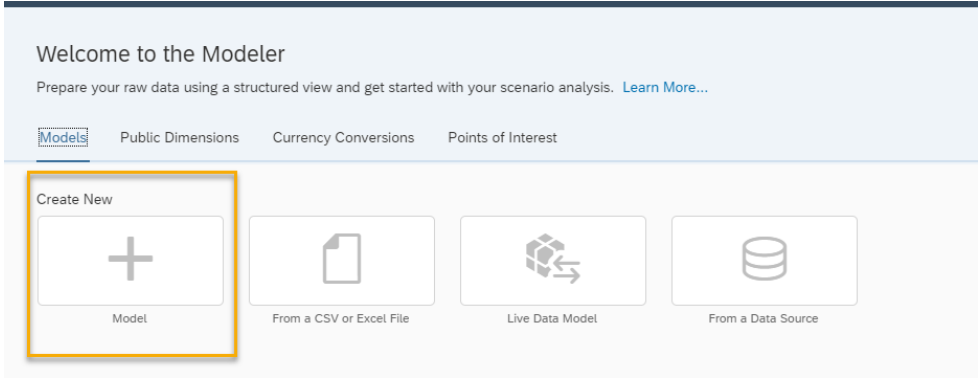
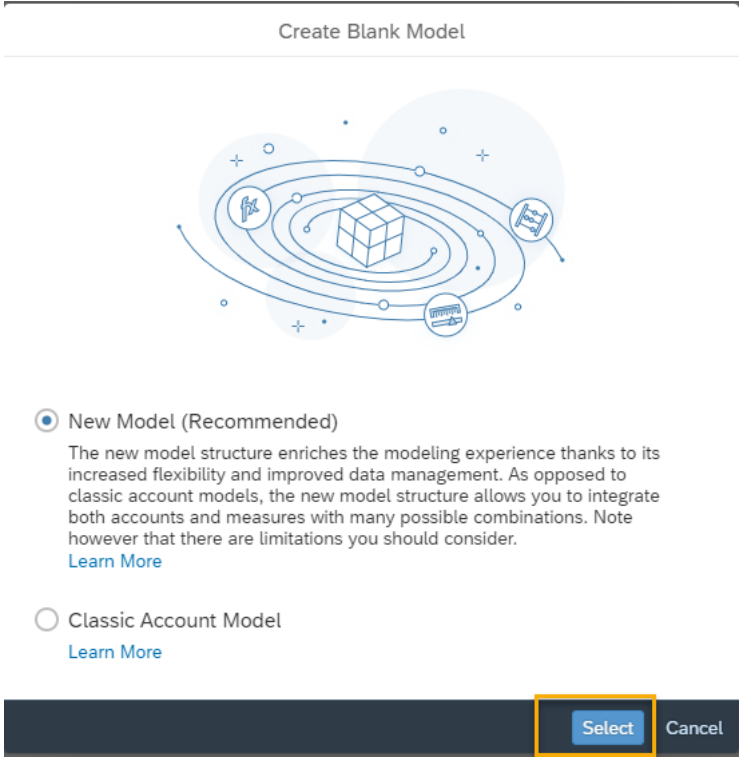
Description:

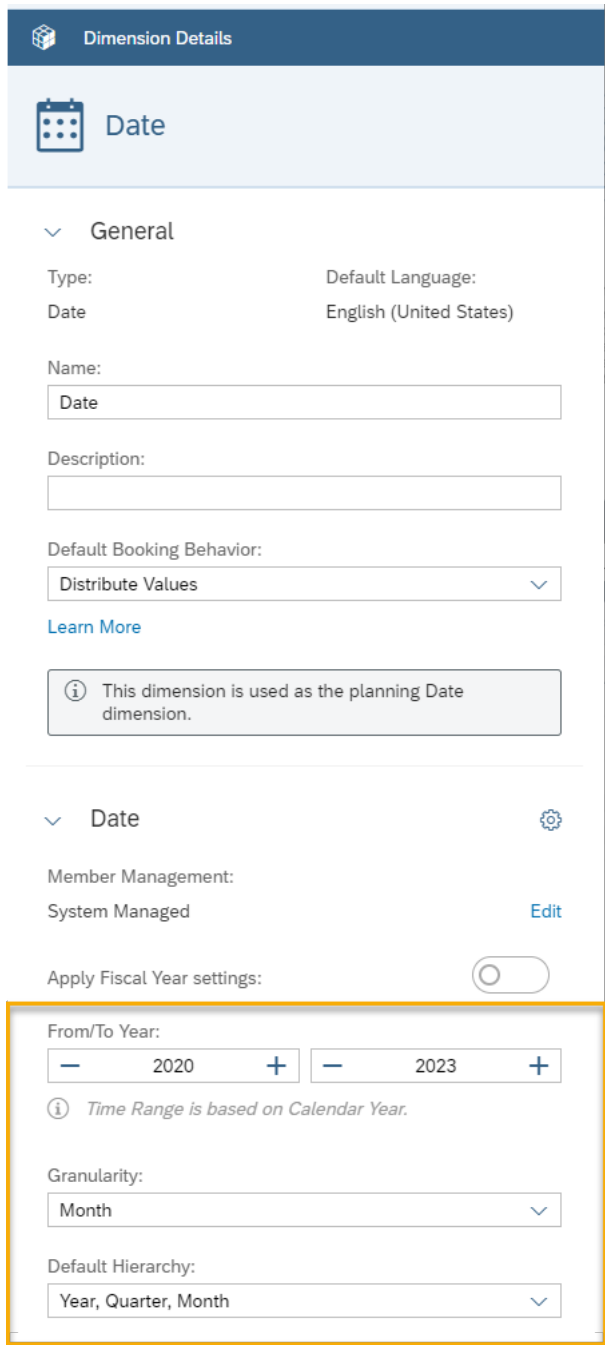
Functional Location & Cost Center


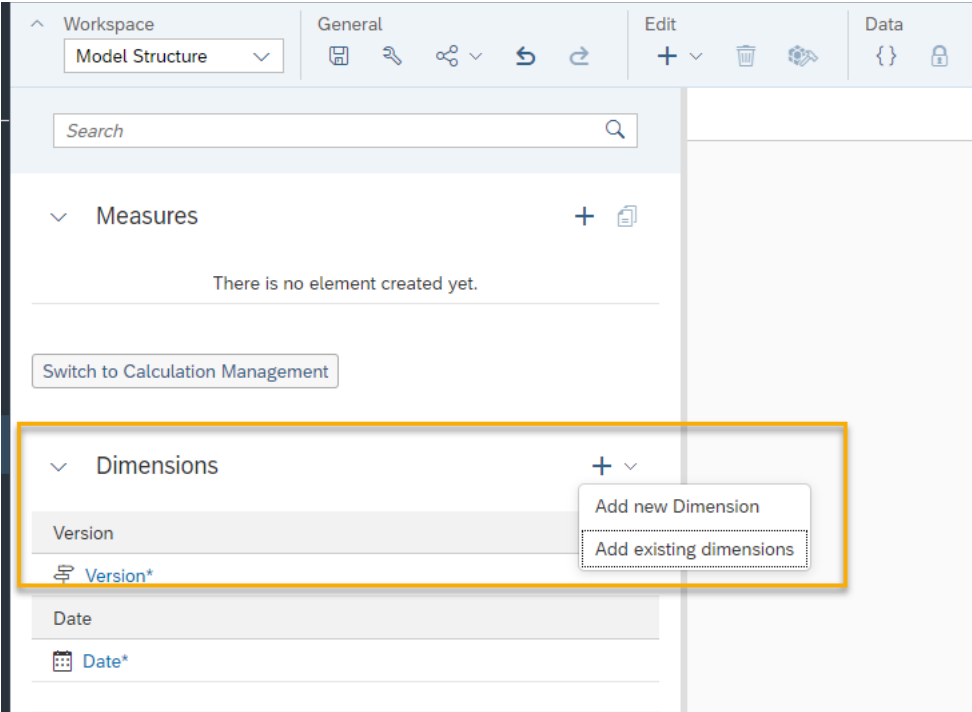
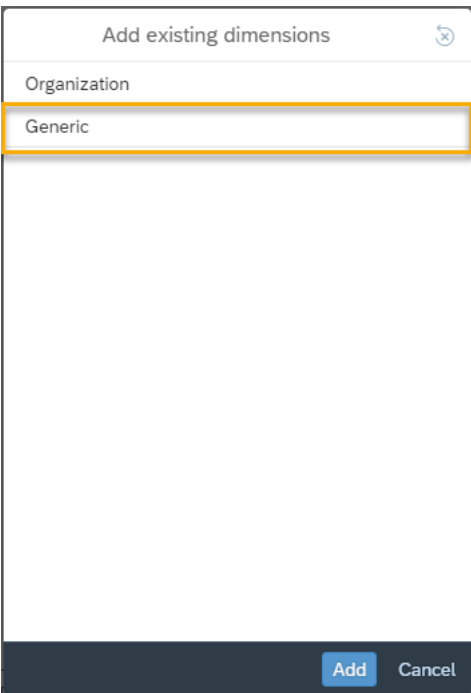
Save

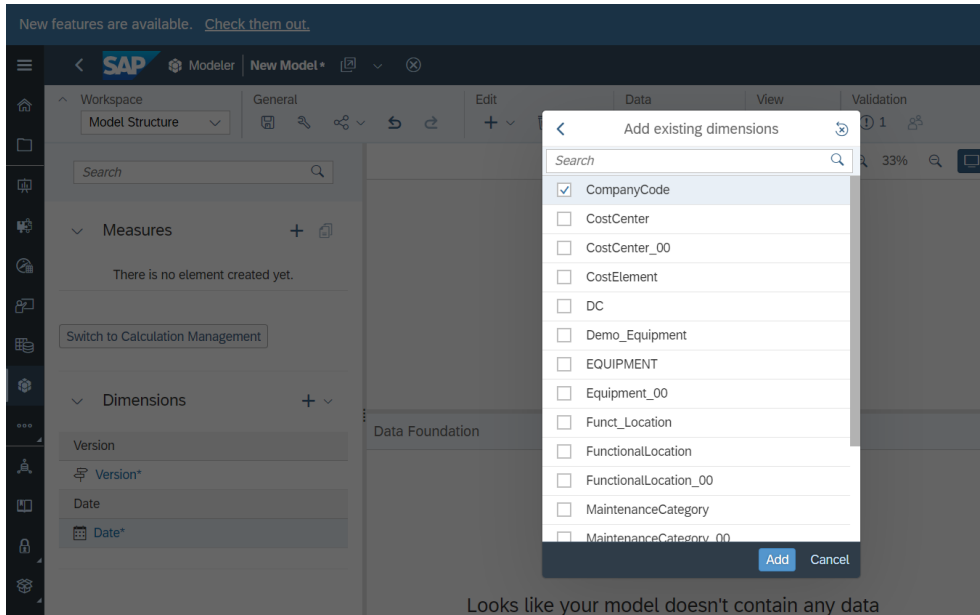
Cancel


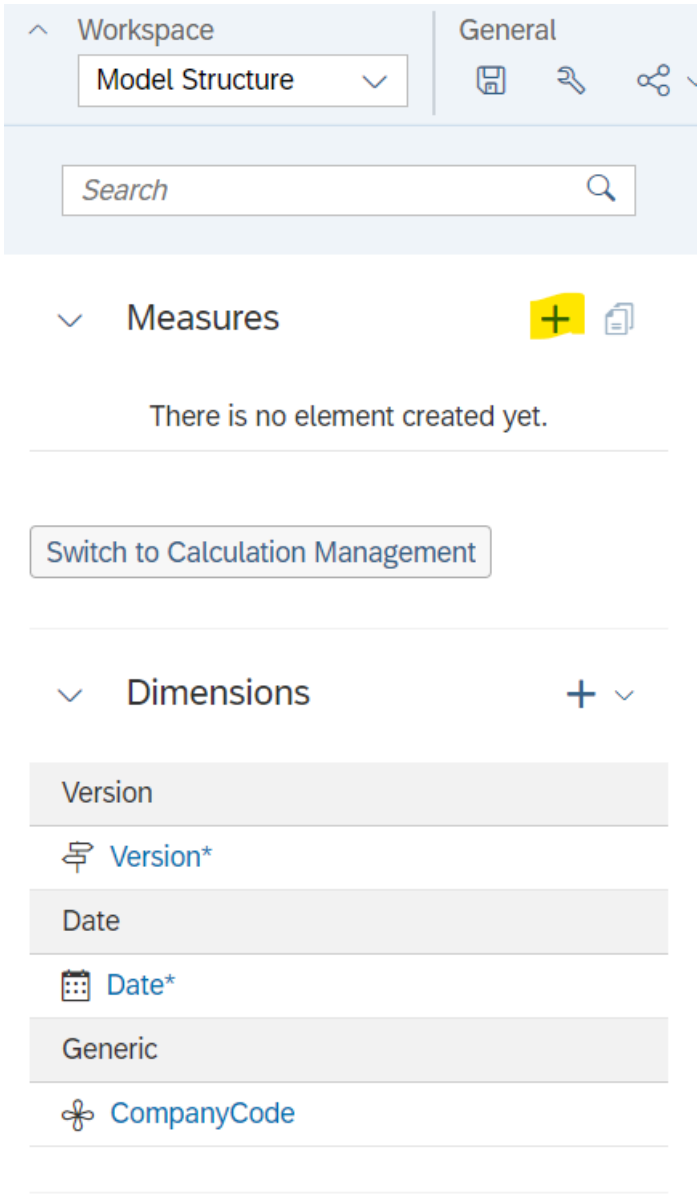
Explanation	Screenshot
Repeat the Steps to define validation rule for Equipment and Functional Location	 
Create SAP Analytics Cloud Model for Sustainability Planning	

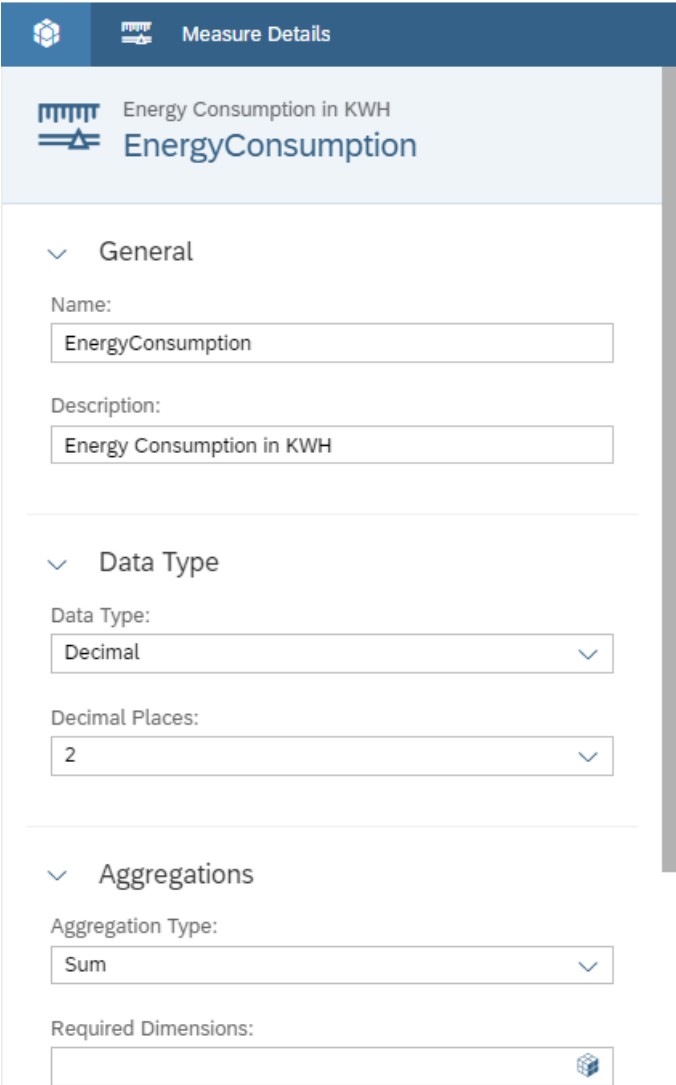
Explanation	Screenshot
Click on Models tab of SAP Analytics Cloud Modeler	
Click on Create New Model	
In the Model Creation popup choose New Model and click on Select	

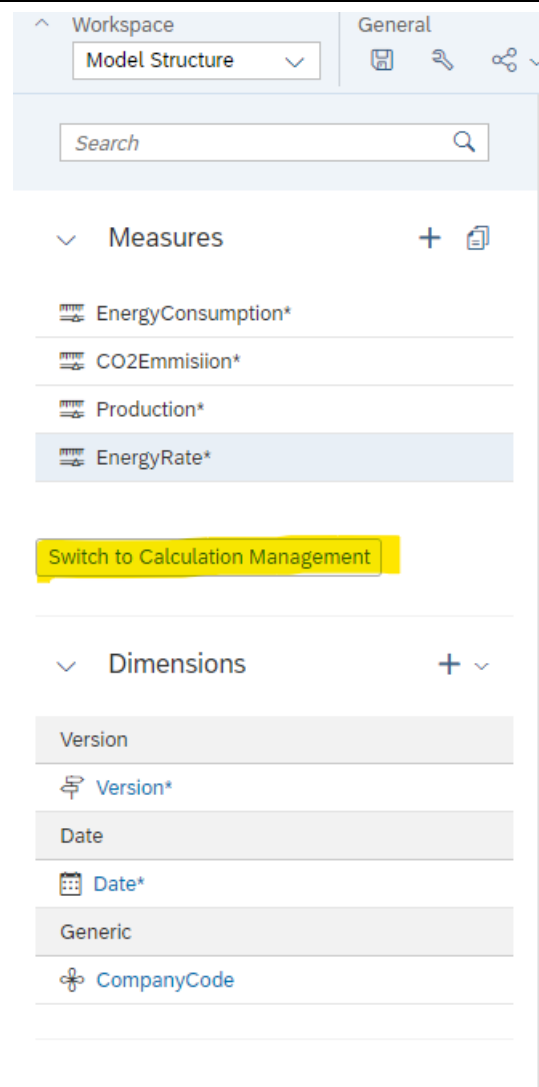
Explanation	Screenshot
<p>Click on the Date Dimension. In the Dimension Detail screen change the From/To years as 2020 - 2023</p>	 <p>The screenshot shows the 'Dimension Details' screen for the 'Date' dimension. The 'General' section includes fields for Type (Date), Default Language (English (United States)), Name (Date), Description, and Default Booking Behavior (Distribute Values). A note states: 'This dimension is used as the planning Date dimension.' The 'Date' section includes Member Management (System Managed), Apply Fiscal Year settings (toggle), and the 'From/To Year' section, which is highlighted with a yellow box. The 'From/To Year' section shows the years 2020 and 2023, with a note: 'Time Range is based on Calendar Year.' The 'Granularity' is set to 'Month' and the 'Default Hierarchy' is 'Year, Quarter, Month'.</p>


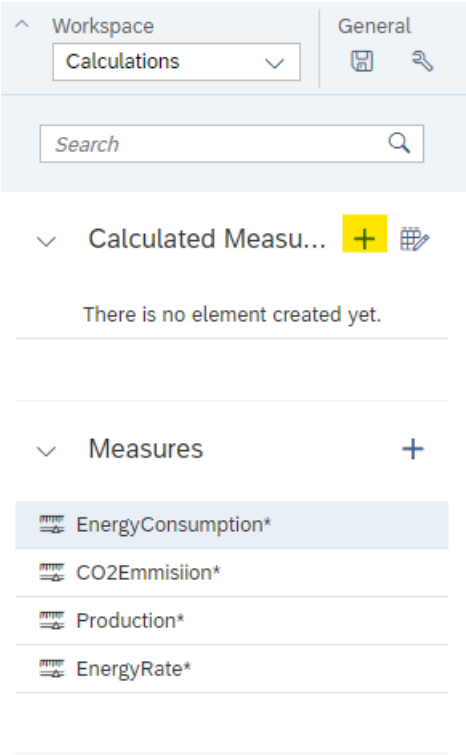
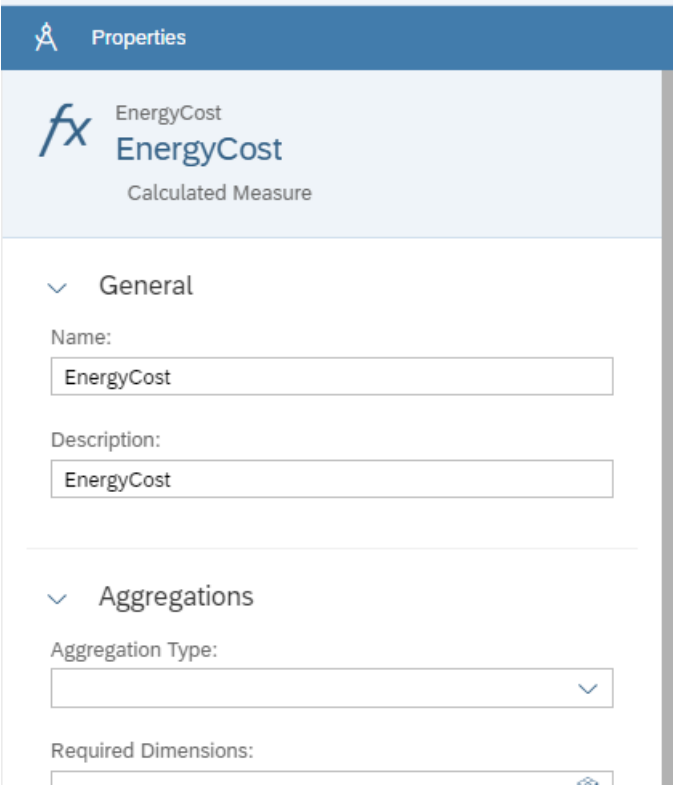
Explanation	Screenshot
<p>In the model structure, click  and choose Add existing dimensions to include dimensions in the model</p>	
<p>Click on Generic</p>	

Explanation	Screenshot
<p>Select the following Dimensions Created in the previous Exercise and click on Add:</p> <ul style="list-style-type: none"> • Company Code 	 <p>The screenshot shows the SAP Modeler interface. A dialog box titled 'Add existing dimensions' is open, displaying a list of dimensions. The 'CompanyCode' dimension is selected with a checkmark. Other dimensions listed include CostCenter, CostCenter_00, CostElement, DC, Demo_Equipment, EQUIPMENT, Equipment_00, Funct_Location, FunctionalLocation, FunctionalLocation_00, MaintenanceCategory, and MaintenanceCategory_00. The 'Add' button is highlighted in blue. In the background, the 'Dimensions' section of the workspace is visible, showing 'Version' and 'Date' dimensions. A message at the bottom of the dialog states 'Looks like your model doesn't contain any data'.</p>

Explanation	Screenshot
Click  to add Measures to the model	

Explanation	Screenshot																
<p>Provide the Following information,</p> <ul style="list-style-type: none">• Name: EnergyConsumption• Description: Energy Consumption in KWH• Data Type: Decimal• Decimal:2• Aggregation: Sum																	
<p>Repeat the Steps to add following new measures</p>	<table><tr><th>Name</th><th>Description</th><th>Data Type</th><th>Aggregation</th></tr><tr><td>CO2Emission</td><td>CO2 Emission in Kgs</td><td>Decimal . Decimpal Places : 2</td><td>Sum</td></tr><tr><td>Production</td><td>Production</td><td>Decimal . Decimpal Places : 2</td><td>Sum</td></tr><tr><td>EnergyRate</td><td>Energy Rate per KWH</td><td>Decimal . Decimpal Places : 2</td><td>Sum</td></tr></table>	Name	Description	Data Type	Aggregation	CO2Emission	CO2 Emission in Kgs	Decimal . Decimpal Places : 2	Sum	Production	Production	Decimal . Decimpal Places : 2	Sum	EnergyRate	Energy Rate per KWH	Decimal . Decimpal Places : 2	Sum
Name	Description	Data Type	Aggregation														
CO2Emission	CO2 Emission in Kgs	Decimal . Decimpal Places : 2	Sum														
Production	Production	Decimal . Decimpal Places : 2	Sum														
EnergyRate	Energy Rate per KWH	Decimal . Decimpal Places : 2	Sum														

Explanation	Screenshot
<p>Click on</p> <div>Switch to Calculation Management</div> <p>to create calculations</p>	 <p>The screenshot displays a software interface with a top navigation bar containing 'Workspace' and 'General' tabs. Below the navigation bar is a search bar labeled 'Search'. The main content area is divided into two sections: 'Measures' and 'Dimensions'. The 'Measures' section is expanded, showing a list of measures: 'EnergyConsumption*', 'CO2Emmisiion*', 'Production*', and 'EnergyRate*'. The 'EnergyRate*' measure is highlighted. Below the 'Measures' section is a yellow button labeled 'Switch to Calculation Management'. The 'Dimensions' section is also expanded, showing a list of dimensions: 'Version', 'Date', and 'Generic'. The 'Version' dimension is highlighted. Below the 'Dimensions' section is a list of dimensions: 'Version*', 'Date*', and 'CompanyCode'.</p>

Explanation	Screenshot
<p>Click on  next to Calculated Measures to add new Calculation</p>	 <p>The screenshot shows a software interface with a 'Workspace' tab and a 'General' tab. Under 'Workspace', there is a dropdown menu set to 'Calculations' and a search bar. Below this, the 'Calculated Measures' section is expanded, showing a list of measures: 'EnergyConsumption*', 'CO2Emmisiion*', 'Production*', and 'EnergyRate*'. A yellow plus icon is visible next to the 'Calculated Measures' header, indicating where to click to add a new calculation.</p>
<p>Provide the Following information,</p> <ul style="list-style-type: none"> • Name: EnergyCost • Description: Energy Cost 	 <p>The screenshot shows the 'Properties' dialog for a calculated measure named 'EnergyCost'. The dialog has a blue header with the 'fx' icon and the text 'EnergyCost Calculated Measure'. Below the header, there are two sections: 'General' and 'Aggregations'. In the 'General' section, the 'Name' field is set to 'EnergyCost' and the 'Description' field is set to 'EnergyCost'. In the 'Aggregations' section, the 'Aggregation Type' is set to a dropdown menu, and the 'Required Dimensions' field is empty.</p>

Explanation	Screenshot									
<p>In formula area type dimensions</p> <p>EnergyCunsumption * EnergyRate</p> <p>Note: Typing dimensions name will auto fill for selection</p>										
<p>Repeat and add following Calculated Measures and Formulas</p>	<table><tr><th>Name</th><th>Description</th><th>Formula</th></tr><tr><td>EnergyConsumptionPerProduct</td><td>Energy Consumption Per product</td><td>[EnergyConsumption] / [Production]</td></tr><tr><td>CO2EmissionPerProduct</td><td>CO2 Emission Per Product</td><td>[CO2Emission] / [Production]</td></tr></table>	Name	Description	Formula	EnergyConsumptionPerProduct	Energy Consumption Per product	[EnergyConsumption] / [Production]	CO2EmissionPerProduct	CO2 Emission Per Product	[CO2Emission] / [Production]
Name	Description	Formula								
EnergyConsumptionPerProduct	Energy Consumption Per product	[EnergyConsumption] / [Production]								
CO2EmissionPerProduct	CO2 Emission Per Product	[CO2Emission] / [Production]								
<p>Click On Save to Save the Model</p>										

Explanation	Screenshot
<p>The Save Model screens opens. Provide name and description and Click on Save.</p> <p>Name: Sustainability Planning_XX (XX is the Participant ID)</p> <p>Description: Sustainability Planning Model</p>	