



INTERNAL

## SAP Data Warehouse Cloud hands-on exercises

This document will guide you step by step on the process of creating a Dimension view using Business Builder within SAP Data Warehouse Cloud

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## DISCLAIMER

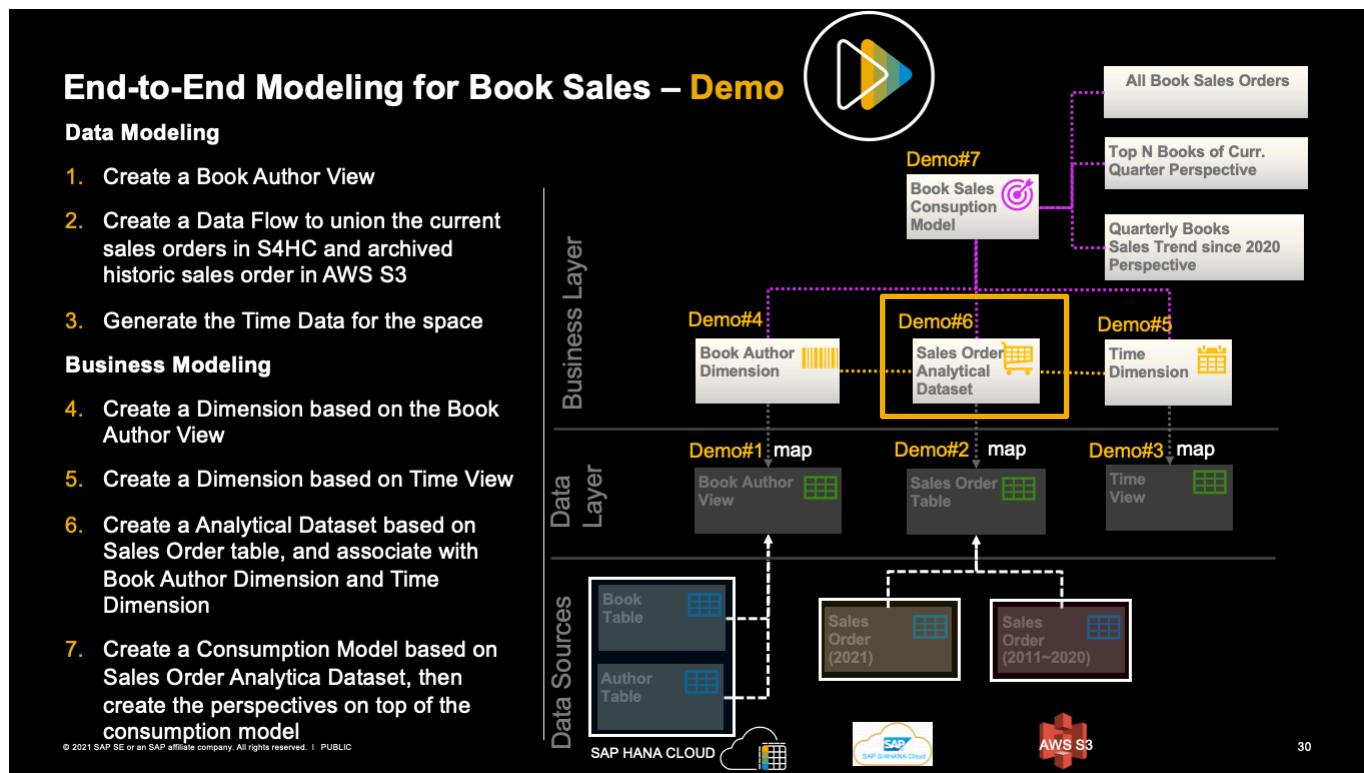
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## OBJECTIVE

The objective of this exercise is to provide the steps needed to create Analytical Dataset using Business Builder.

## SCENARIO

In this session we will use the scenario as seen in Demo #6 in the below image



In this session we will create a Analytical Dataset using Business Builder. We will use the All Book Sales Order Table created in the Data Flow demo as a source.

## ENVIRONMENT ACCESS – SAP DATA WAREHOUSE CLOUD

**Please use the Tenant details and Login Credentials provided to you**

In this session you will use,

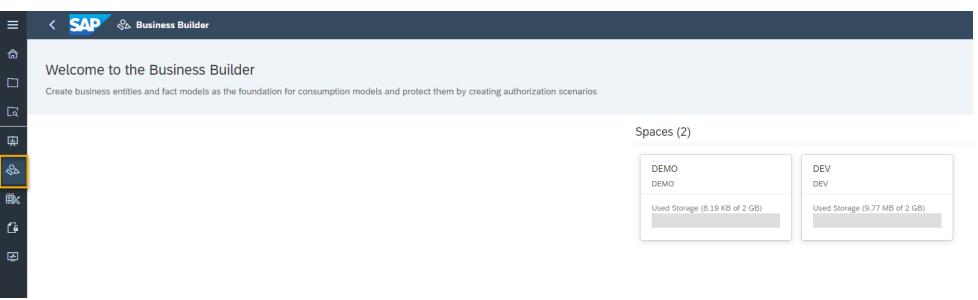
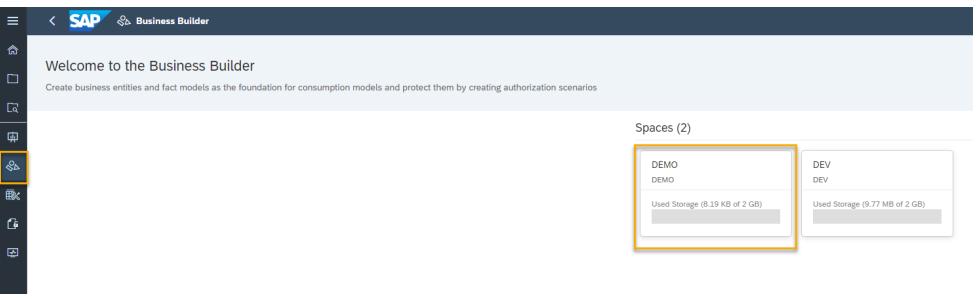
### SAP Data Warehouse Cloud

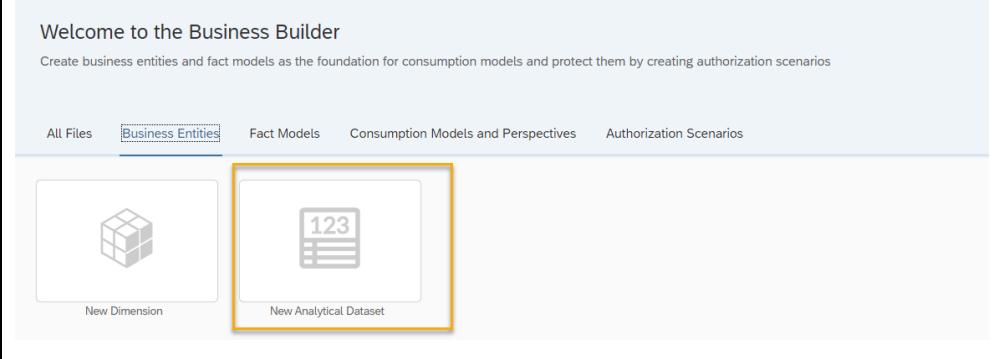
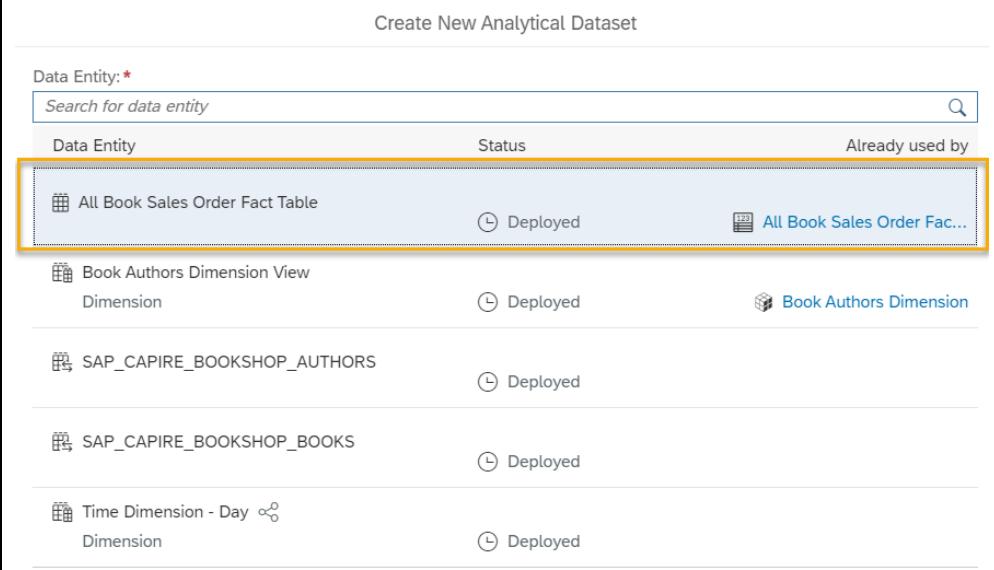
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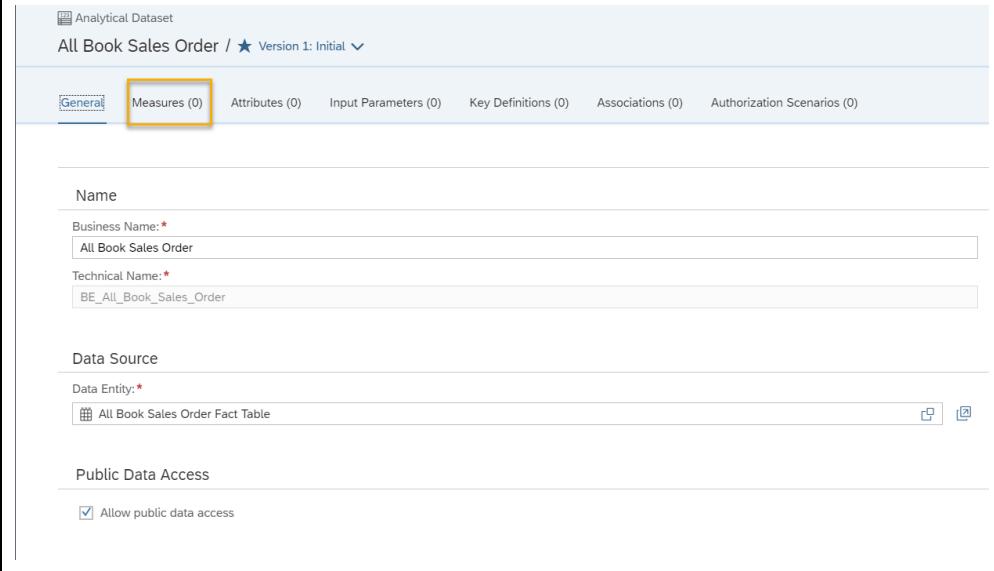
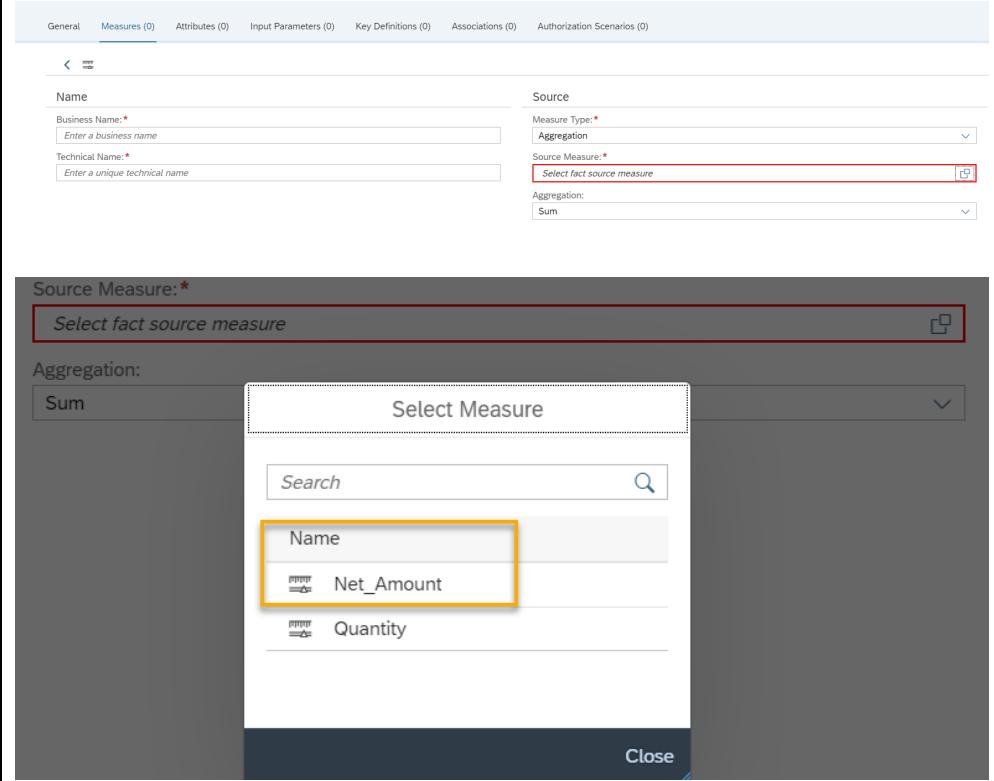
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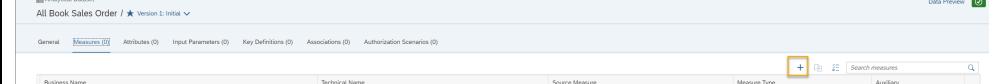
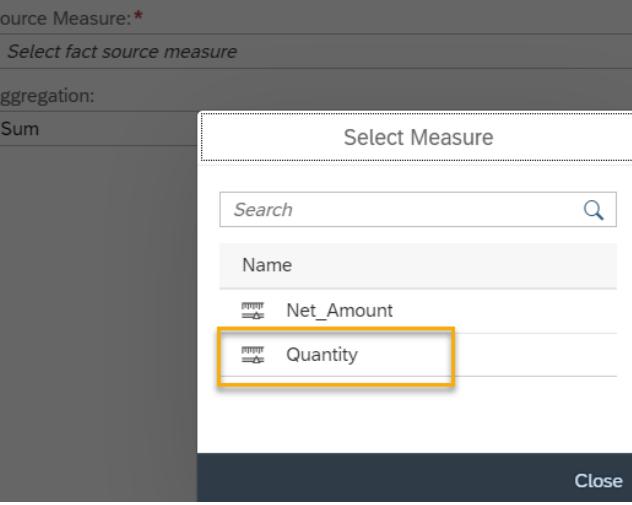
Space Name:

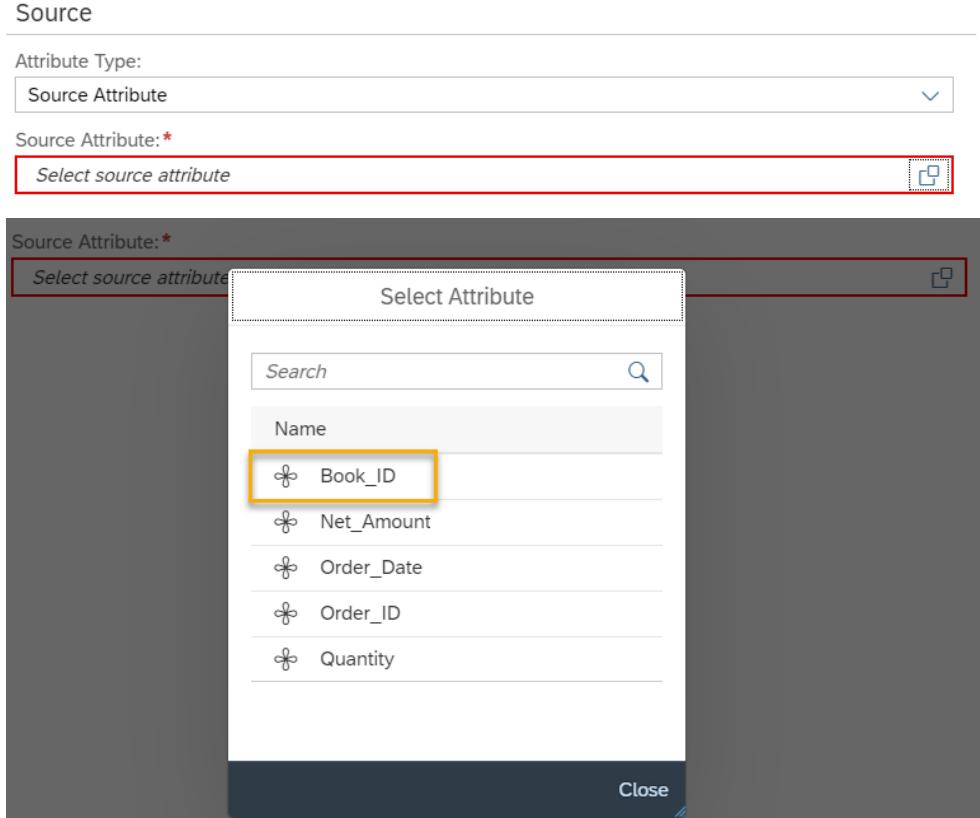
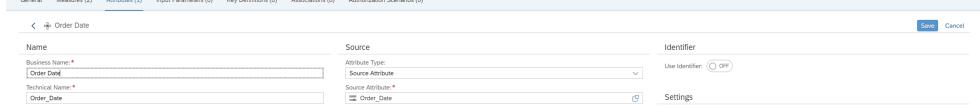
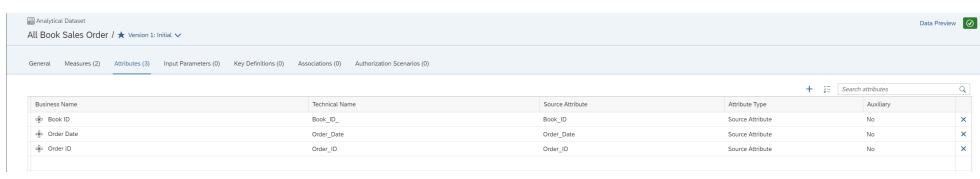
Explanation	Screenshot
You are Logged in to SAP Data Warehouse Cloud and are in the home page	
Click on the Business Builder icon, you see the space that you are assigned to.	
Click on the Space	

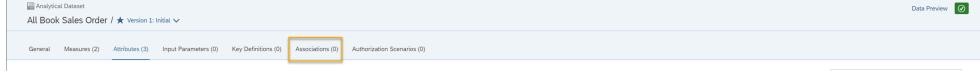
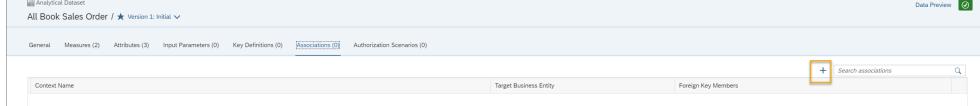
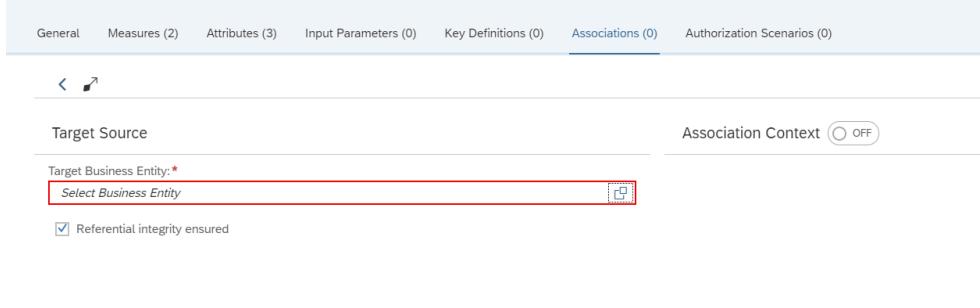
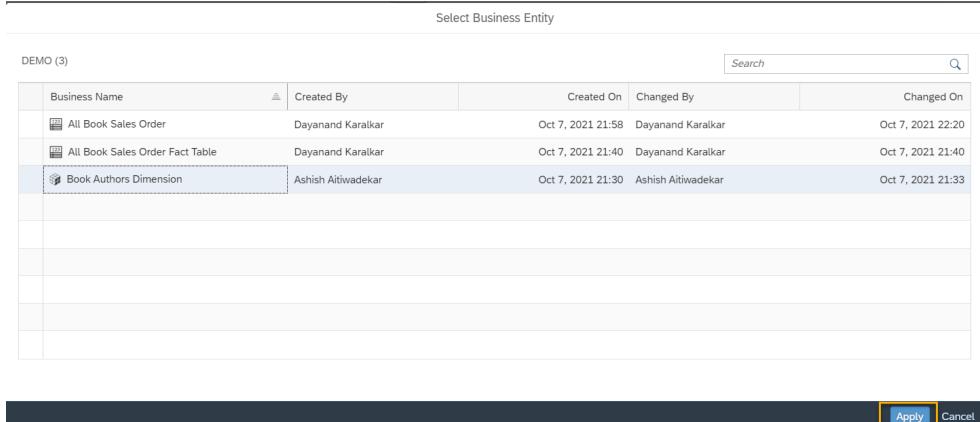
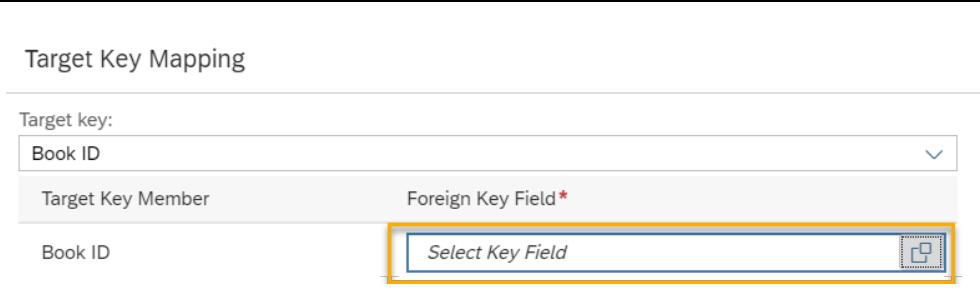
Explanation	Screenshot																		
<p><b>Click on Business Entities → Select New Analytical Dataset</b></p>	 <p>Welcome to the Business Builder</p> <p>Create business entities and fact models as the foundation for consumption models and protect them by creating authorization scenarios</p> <p>All Files   <b>Business Entities</b>   Fact Models   Consumption Models and Perspectives   Authorization Scenarios</p> <p>New Dimension   <b>New Analytical Dataset</b></p>																		
<p><b>Select the All Book Sales Order Fact Table and Click on Create</b></p>	 <p>Create New Analytical Dataset</p> <p>Data Entity: *</p> <p>Search for data entity</p> <table border="1"> <thead> <tr> <th>Data Entity</th> <th>Status</th> <th>Already used by</th> </tr> </thead> <tbody> <tr> <td><b>All Book Sales Order Fact Table</b></td> <td><b>Deployed</b></td> <td><b>All Book Sales Order Fac...</b></td> </tr> <tr> <td>Book Authors Dimension View Dimension</td> <td><b>Deployed</b></td> <td><b>Book Authors Dimension</b></td> </tr> <tr> <td>SAP_CAPIRE_BOOKSHOP_AUTHORS</td> <td><b>Deployed</b></td> <td></td> </tr> <tr> <td>SAP_CAPIRE_BOOKSHOP_BOOKS</td> <td><b>Deployed</b></td> <td></td> </tr> <tr> <td>Time Dimension - Day Dimension</td> <td><b>Deployed</b></td> <td></td> </tr> </tbody> </table>	Data Entity	Status	Already used by	<b>All Book Sales Order Fact Table</b>	<b>Deployed</b>	<b>All Book Sales Order Fac...</b>	Book Authors Dimension View Dimension	<b>Deployed</b>	<b>Book Authors Dimension</b>	SAP_CAPIRE_BOOKSHOP_AUTHORS	<b>Deployed</b>		SAP_CAPIRE_BOOKSHOP_BOOKS	<b>Deployed</b>		Time Dimension - Day Dimension	<b>Deployed</b>	
Data Entity	Status	Already used by																	
<b>All Book Sales Order Fact Table</b>	<b>Deployed</b>	<b>All Book Sales Order Fac...</b>																	
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SAP_CAPIRE_BOOKSHOP_BOOKS	<b>Deployed</b>																		
Time Dimension - Day Dimension	<b>Deployed</b>																		

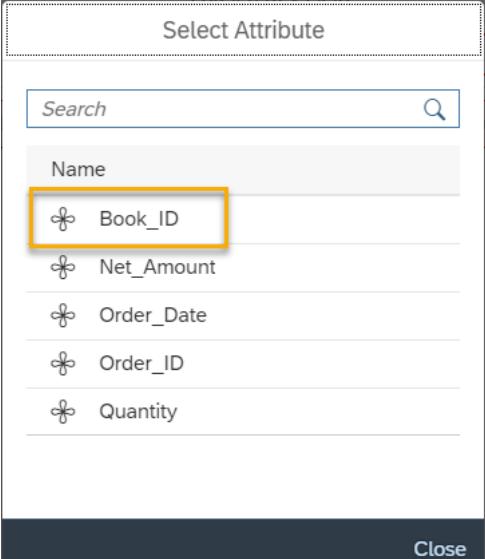
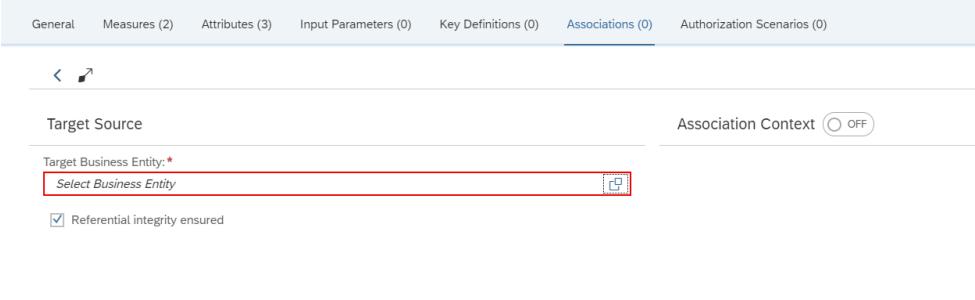
Explanation	Screenshot
<p>Enter Business Name, Technical name → Create</p>	<p>The screenshot shows the 'Create New Analytical Dataset' screen. At the top, there's a search bar labeled 'Search for data entity'. Below it is a table with columns: 'Data Entity', 'Status', and 'Already used by'. The table lists several entities:     <ul style="list-style-type: none"> <li>All Book Sales Order Fact Table (Deployed, used by All Book Sales Order Fac...)</li> <li>Book Authors Dimension View Dimension (Deployed, used by Book Authors Dimension)</li> <li>SAP_CAPIRE_BOOKSHOP_AUTHORS (Deployed)</li> <li>SAP_CAPIRE_BOOKSHOP_BOOKS (Deployed)</li> <li>Time Dimension - Day Dimension (Deployed)</li> </ul>     At the bottom, there's a form for creating a new dataset:     <ul style="list-style-type: none"> <li><b>Business Name:</b> All Book Sales Order</li> <li><b>Technical Name:</b> BE_All_Book_Sales_Order</li> <li><b>Create</b> button (highlighted with a yellow box)</li> <li><b>Cancel</b> button</li> </ul> </p>

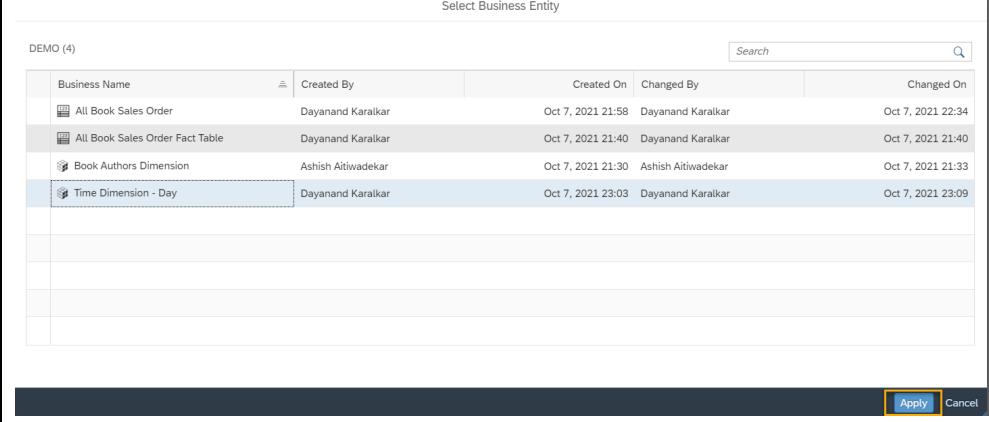
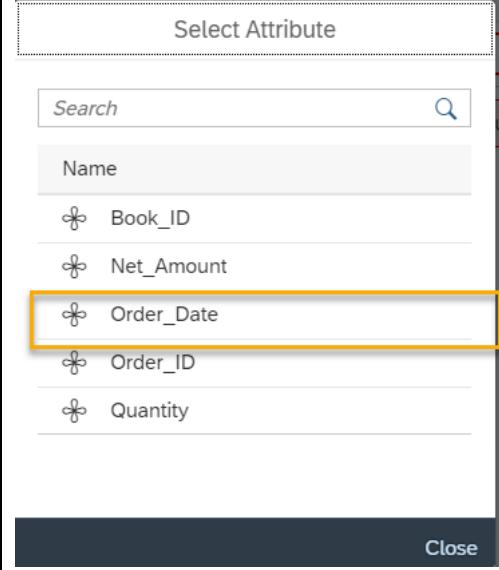
Explanation	Screenshot
Click on Measures	
Click + to add Measures	
Click on Source Measure and Select Net_Amount	

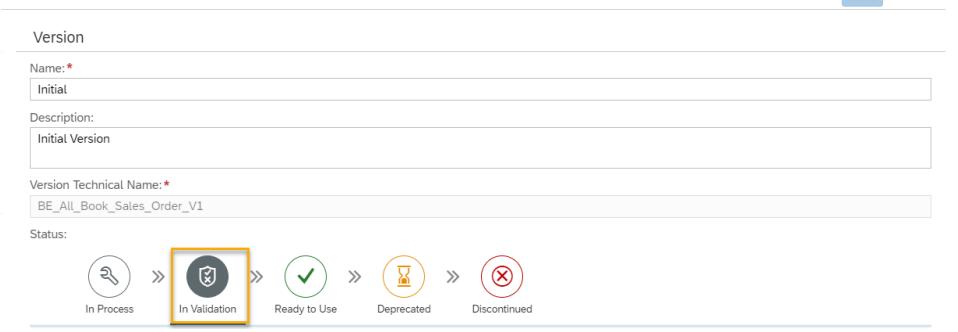
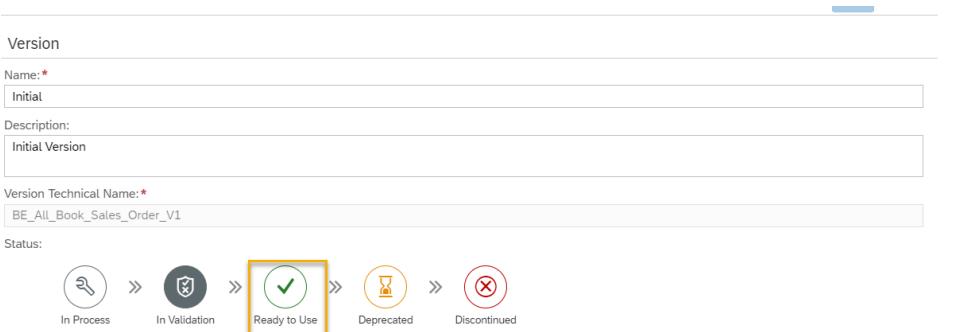
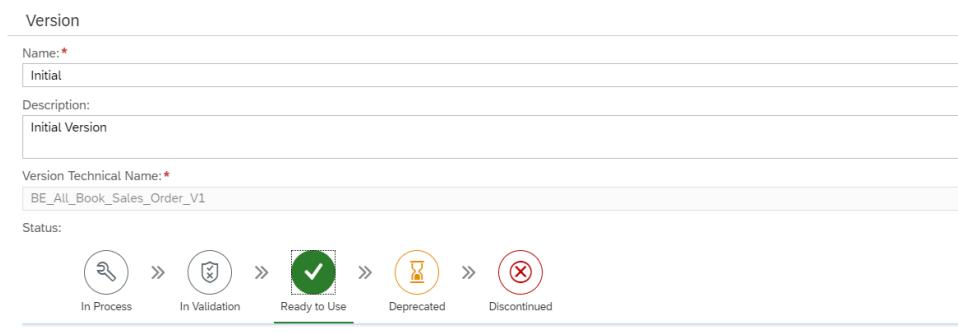
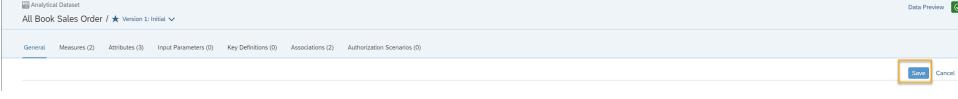
Explanation	Screenshot										
Enter Business Name, Technical Name and Click on Save	 <p>General    Measures (0)    Attributes (0)    Input Parameters (0)    Key Definitions (0)    Associations (0)    Authorization Scenarios (0)</p> <p>Name: Net_Amount</p> <p>Source:</p> <ul style="list-style-type: none"> <li>Measure Type: Aggregation</li> <li>Source Measure: Net_Amount</li> <li>Aggregation: Sum</li> </ul> <p>Currency or Unit: None</p> <p>Settings: <input type="checkbox"/> Auxiliary measure</p> <p>Save    Cancel</p>										
Click  to add Measures	 <p>All Book Sales Order / Version 1: Initial</p> <p>General    Measures (1)    Attributes (0)    Input Parameters (0)    Key Definitions (0)    Associations (0)    Authorization Scenarios (0)</p> <table border="1"> <thead> <tr> <th>Business Name</th> <th>Technical Name</th> <th>Source Measure</th> <th>Measure Type</th> <th>Auxiliary</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Data Preview </p>	Business Name	Technical Name	Source Measure	Measure Type	Auxiliary					
Business Name	Technical Name	Source Measure	Measure Type	Auxiliary							
Click on Source Measure and Select Quantity	 <p>Source Measure:*</p> <p>Select fact source measure</p> <p>Aggregation:</p> <p>Sum</p> <p>Select Measure</p> <p>Search</p> <p>Name</p> <p>Net_Amount</p> <p>Quantity</p> <p>Close</p>										
Enter Business Name, Technical Name and Click on Save	 <p>General    Measures (1)    Attributes (0)    Input Parameters (0)    Key Definitions (0)    Associations (0)    Authorization Scenarios (0)</p> <p>Name: Quantity</p> <p>Source:</p> <ul style="list-style-type: none"> <li>Measure Type: Aggregation</li> <li>Source Measure: Quantity</li> <li>Aggregation: Sum</li> </ul> <p>Currency or Unit: None</p> <p>Settings: <input type="checkbox"/> Auxiliary measure</p> <p>Save    Cancel</p>										
Click on Attributes	 <p>Analytical Dataset All Book Sales Order / Version 1: Initial</p> <p>General    Measures (2)    Attributes (0)    Input Parameters (0)    Key Definitions (0)    Associations (0)    Authorization Scenarios (0)</p>										
Click  to add Attributes	 <p>General    Measures (2)    Attributes (0)    Input Parameters (0)    Key Definitions (0)    Associations (0)    Authorization Scenarios (0)</p> <table border="1"> <thead> <tr> <th>Business Name</th> <th>Technical Name</th> <th>Source Attribute</th> <th>Attribute Type</th> <th>Auxiliary</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Search attributes </p>	Business Name	Technical Name	Source Attribute	Attribute Type	Auxiliary					
Business Name	Technical Name	Source Attribute	Attribute Type	Auxiliary							

Explanation	Screenshot																				
<p>Click on Select Source Attribute and select Book_ID</p>	 <p>Source</p> <p>Attribute Type:</p> <p>Source Attribute</p> <p>Source Attribute:*</p> <p>Select source attribute</p> <p>Select Attribute</p> <p>Search</p> <p>Name</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Book_ID</li> <li><input type="checkbox"/> Net_Amount</li> <li><input type="checkbox"/> Order_Date</li> <li><input type="checkbox"/> Order_ID</li> <li><input type="checkbox"/> Quantity</li> </ul> <p>Close</p>																				
<p>Enter Business Name, Technical name and Click on Save</p>	 <p>General Measures (2) Attributes (1) Input Parameters (0) Key Definitions (0) Associations (0) Authorization Scenarios (0)</p> <p>Business Name: Book ID</p> <p>Technical Name: Book_ID_</p> <p>Source</p> <p>Attribute Type: Source Attribute</p> <p>Source Attribute: Book_ID</p> <p>Identifier</p> <p>Use Identifier: Off</p> <p>Settings</p> <p>Auxiliary attribute</p> <p>Save Cancel</p>																				
<p>Repeat the Same steps to add Order Date and Order ID attributes</p>	 <p>General Measures (2) Attributes (1) Input Parameters (0) Key Definitions (0) Associations (0) Authorization Scenarios (0)</p> <p>Business Name: Order Date</p> <p>Technical Name: Order_Date</p> <p>Source</p> <p>Attribute Type: Source Attribute</p> <p>Source Attribute: Order_Date</p> <p>Identifier</p> <p>Use Identifier: Off</p> <p>Settings</p> <p>Auxiliary attribute</p> <p>Save Cancel</p>  <p>General Measures (2) Attributes (2) Input Parameters (0) Key Definitions (0) Associations (0) Authorization Scenarios (0)</p> <p>Business Name: Order ID</p> <p>Technical Name: Order_ID</p> <p>Source</p> <p>Attribute Type: Source Attribute</p> <p>Source Attribute: Order_ID</p> <p>Identifier</p> <p>Use Identifier: Off</p> <p>Settings</p> <p>Auxiliary attribute</p> <p>Save Cancel</p>																				
<p>We have added 3 Attributes to our analytical Dataset</p>	 <p>Analytical Dataset</p> <p>All Book Sales Order / Version 1: Initial</p> <p>Data Preview</p> <table border="1"> <thead> <tr> <th>Business Name</th> <th>Technical Name</th> <th>Source Attribute</th> <th>Attribute Type</th> <th>Auxiliary</th> </tr> </thead> <tbody> <tr> <td>Book ID</td> <td>Book_ID_</td> <td>Book_ID</td> <td>Source Attribute</td> <td>No</td> </tr> <tr> <td>Order Date</td> <td>Order_Date</td> <td>Order_Date</td> <td>Source Attribute</td> <td>No</td> </tr> <tr> <td>Order ID</td> <td>Order_ID</td> <td>Order_ID</td> <td>Source Attribute</td> <td>No</td> </tr> </tbody> </table>	Business Name	Technical Name	Source Attribute	Attribute Type	Auxiliary	Book ID	Book_ID_	Book_ID	Source Attribute	No	Order Date	Order_Date	Order_Date	Source Attribute	No	Order ID	Order_ID	Order_ID	Source Attribute	No
Business Name	Technical Name	Source Attribute	Attribute Type	Auxiliary																	
Book ID	Book_ID_	Book_ID	Source Attribute	No																	
Order Date	Order_Date	Order_Date	Source Attribute	No																	
Order ID	Order_ID	Order_ID	Source Attribute	No																	

Explanation	Screenshot
Click on Associations	
Click + to add Association	
In the Target Source section click on the Select Business Entity	
Select the Book Authors Dimension and click Apply	
In the Target Key Mapping under the Foreign Key Field , click on the Select Key Field	

Explanation	Screenshot
Select Book_ID	 <p>Select Attribute</p> <p>Search <input type="text"/></p> <p>Name</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Book_ID</li> <li><input type="checkbox"/> Net_Amount</li> <li><input type="checkbox"/> Order_Date</li> <li><input type="checkbox"/> Order_ID</li> <li><input type="checkbox"/> Quantity</li> </ul> <p>Close</p>
Click Save to save the association	 <p>Analytical Dataset All Book Sales Order / Version 1: Initial</p> <p>General Measures (2) Attributes (2) Input Parameters (0) Key Definitions (0) Associations (1) Authorization Scenarios (0)</p> <p>All Book Sales Order to Book Authors Dimension</p> <p>Target Source Target Key Mapping Association Context (OFF)</p> <p>Target Business Entity: Book Authors Dimension</p> <p>Target key: Book ID</p> <p>Target Key Member Foreign Key Field: Book_ID</p> <p>Book ID Book_ID</p> <p>Referential integrity ensured</p> <p>Save Cancel</p>
Click + to add Association	 <p>Analytical Dataset All Book Sales Order / Version 1: Initial</p> <p>General Measures (2) Attributes (2) Input Parameters (0) Key Definitions (0) Associations (0) Authorization Scenarios (0)</p> <p>Associations</p> <p>Context Name Target Business Entity Foreign Key Members</p> <p>+ Search associations</p>
In the Target Source section click on the Select Business Entity	 <p>General Measures (2) Attributes (3) Input Parameters (0) Key Definitions (0) Associations (0) Authorization Scenarios (0)</p> <p>Target Source Association Context (OFF)</p> <p>Target Business Entity:*</p> <p>Select Business Entity</p> <p>Referential integrity ensured</p>

Explanation	Screenshot				
<p>Select the Time Dimension Day and click Apply</p>					
<p>In the Target Key Mapping under the Foreign Key Field , click on the Select Key Field</p>	<p>Target Key Mapping</p> <p>Target key:</p> <p>Date</p> <table border="1"> <tr> <td>Target Key Member</td> <td>Foreign Key Field*</td> </tr> <tr> <td>Date</td> <td>Select Key Field</td> </tr> </table> <p>(i) All target key fields have to be mapped to a valid field of the current business entity.</p>	Target Key Member	Foreign Key Field*	Date	Select Key Field
Target Key Member	Foreign Key Field*				
Date	Select Key Field				
<p>Select Order_Date</p>					
<p>Click Save to save the association</p>					

Explanation	Screenshot
<p>Click on General . In Status</p>  <p>In Validation</p> <p>Click</p>	 <p>Version</p> <p>Name: * Initial</p> <p>Description: Initial Version</p> <p>Version Technical Name: * BE_All_Book_Sales_Order_V1</p> <p>Status:</p> <ul style="list-style-type: none"> <li> »</li> <li> »</li> <li> »</li> <li></li> <li></li> </ul>
<p>Click on Save</p> 	 <p>Analytical Dataset All Book Sales Order / ★ Version 1: Initial</p> <p>Data Preview </p> <p>General Measures (2) Attributes (3) Input Parameters (0) Key Definitions (0) Associations (2) Authorization Scenarios (0)</p> <p><b>Save</b> Cancel</p>
<p>Click on Ready to Use</p> 	 <p>Version</p> <p>Name: * Initial</p> <p>Description: Initial Version</p> <p>Version Technical Name: * BE_All_Book_Sales_Order_V1</p> <p>Status:</p> <ul style="list-style-type: none"> <li> »</li> <li></li> <li> »</li> <li></li> <li></li> </ul> <p>The version is technically built but requires a business validation to ensure correctness and consistency of data.</p>
<p>The version is Validated</p>	 <p>Version</p> <p>Name: * Initial</p> <p>Description: Initial Version</p> <p>Version Technical Name: * BE_All_Book_Sales_Order_V1</p> <p>Status:</p> <ul style="list-style-type: none"> <li> »</li> <li></li> <li> »</li> <li></li> <li></li> </ul> <p>The version is completed and validated.</p>
<p>Click on Save</p>	 <p>Analytical Dataset All Book Sales Order / ★ Version 1: Initial</p> <p>Data Preview </p> <p>General Measures (2) Attributes (3) Input Parameters (0) Key Definitions (0) Associations (2) Authorization Scenarios (0)</p> <p><b>Save</b> Cancel</p>