



INTERNAL

SAP Data Warehouse Cloud hands-on exercises

This document will guide you step by step on the process of creating a Graphical view in 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 a Graphical View Dimension views and database table created in the Data Warehouse Cloud.

SCENARIO

In this session we will create a Graphical View using Data Builder. We will use the consolidated Sales data table All Book Sales Order Fact table created in the data flow exercise, the Book Authors Dimension View and the Time dimension view to create the Analytical dataset.

ENVIRONMENT ACCESS – SAP DATA WAREHOUSE CLOUD

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

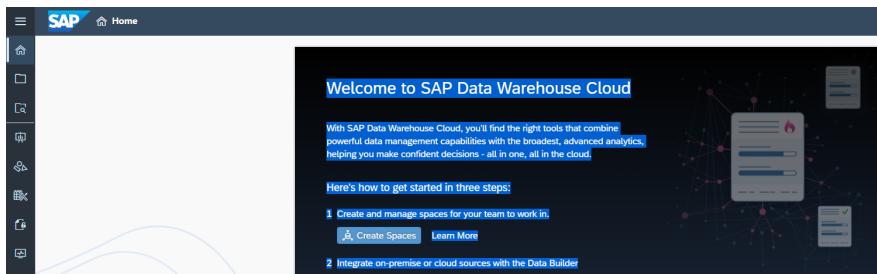
In this session you will use,
SAP Data Warehouse Cloud

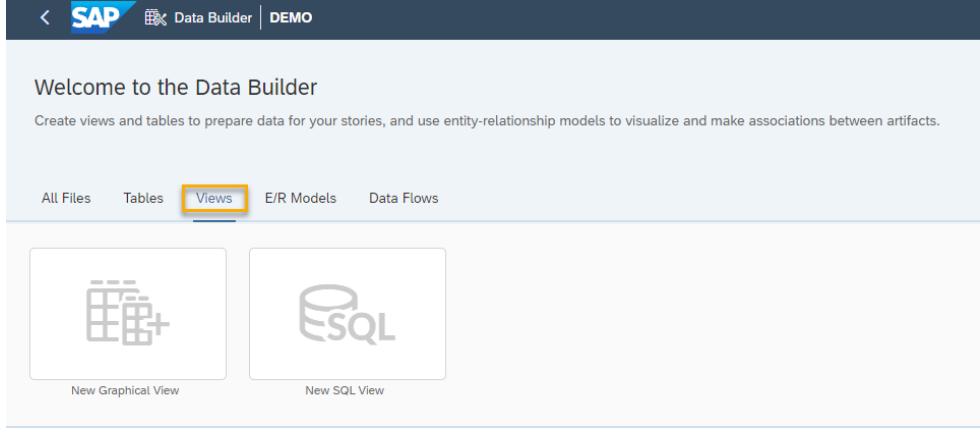
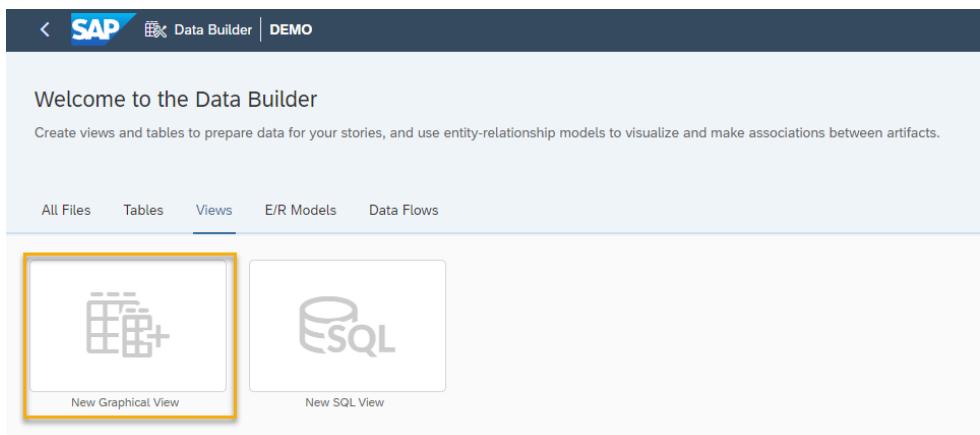
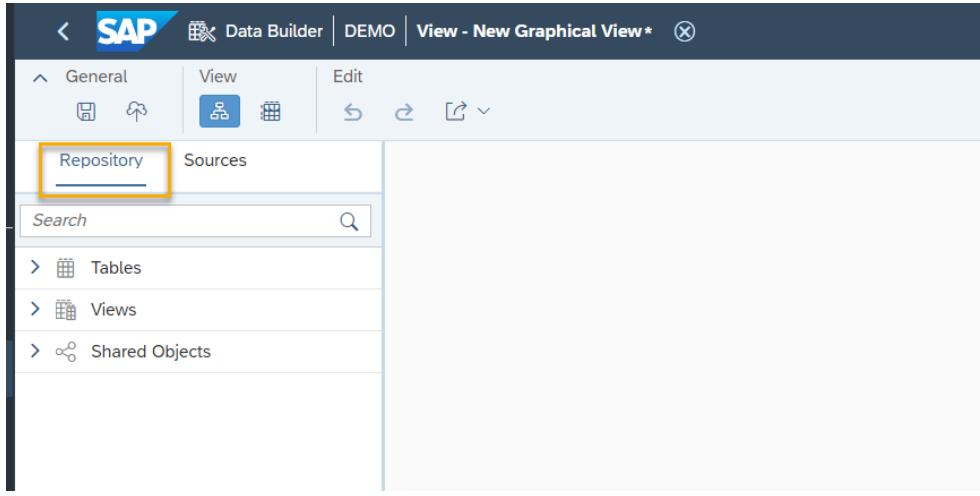
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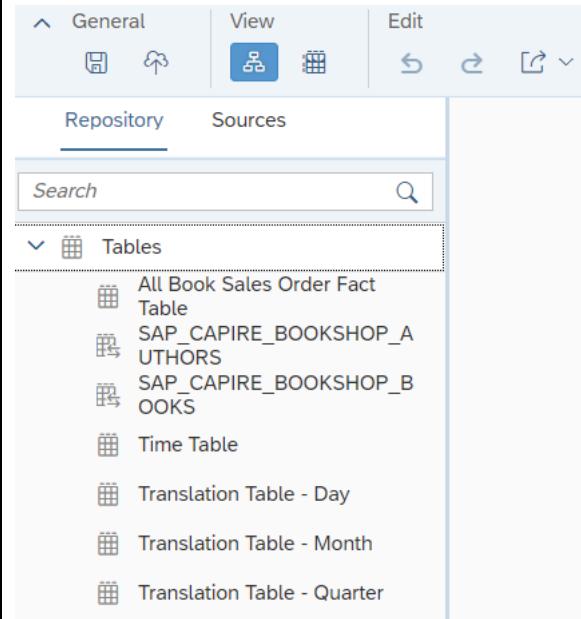
Username:

Password:

Space Name:

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

Explanation	Screenshot
Click on Views	
Select New Graphical View	
Navigate to Repository	

Explanation	Screenshot
<p>Expand the Tables</p>	 <p>The screenshot shows the SAP Data Services Repository interface. The top navigation bar includes 'General', 'View', and 'Edit' tabs, along with icons for file operations like New, Open, Save, and Delete. Below the navigation is a toolbar with 'Repository' and 'Sources' buttons. A search bar is present above the main content area. The main content area displays a tree view under the 'Tables' node, which is expanded. The visible tables include:</p> <ul style="list-style-type: none"> All Book Sales Order Fact Table SAP_CAPIRE_BOOKSHOP_AUTHORS SAP_CAPIRE_BOOKSHOP_BOOKS Time Table Translation Table - Day Translation Table - Month Translation Table - Quarter
<p>Select Table All Book Sales Order Fact Table and drag it to the canvas. The table will be linked to the output as shown.</p>	 <p>A diagram illustrating the connection between a source table and a view. On the left, a blue rounded rectangle contains the text "1 All Book Sales Order ..." followed by a small icon. An arrow points from this box to another blue rounded rectangle on the right containing the text "View 1" followed by a small icon. Both boxes have a small "5" icon below them, likely indicating the number of rows or a key value.</p>

Explanation

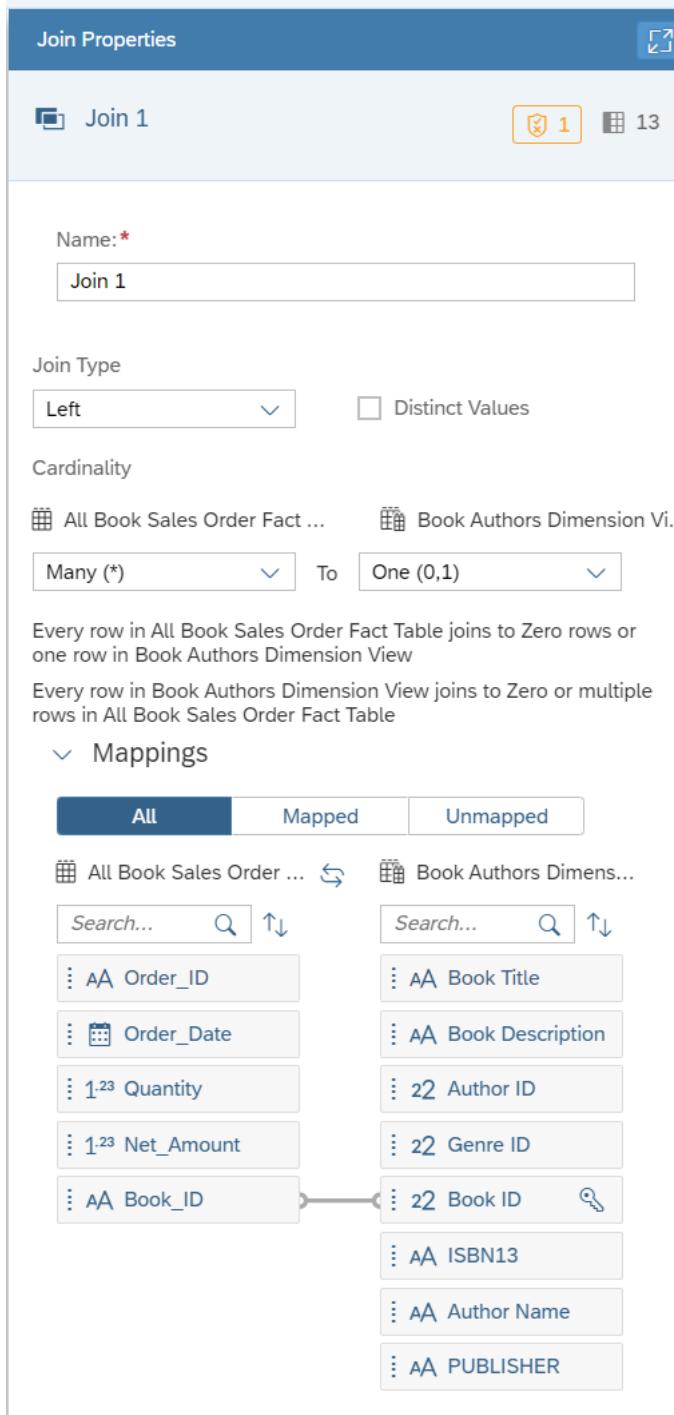
Expand the Views

Screenshot

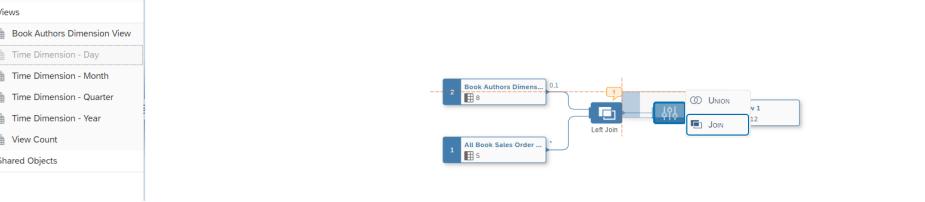
The screenshot shows the SAP Data Builder interface in the Repository view. The left sidebar has 'Tables' and 'Views' expanded. Under 'Tables', there are entries for 'All Book Sales Order Fact Table', 'SAP_CAPIRE_BOOKSHOP_AUTHORS', 'SAP_CAPIRE_BOOKSHOP_BOOKS', 'Time Table', 'Translation Table - Day', 'Translation Table - Month', and 'Translation Table - Quarter'. Under 'Views', there are entries for 'Book Authors Dimension View', 'Time Dimension - Day', 'Time Dimension - Month', 'Time Dimension - Quarter', 'Time Dimension - Year', and 'View Count'.

Select the Book Authors Dimension view and drag it to Canvas and place it on the All Book Sales Order Fact Table. System provides option to join

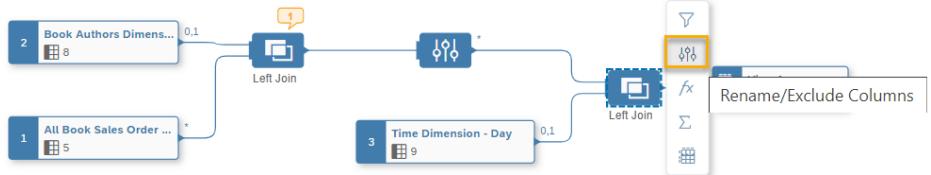
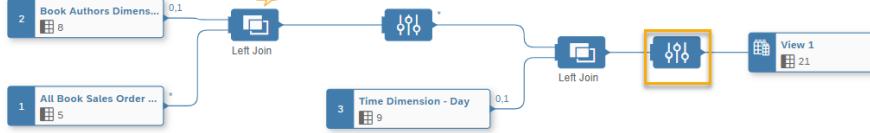
The screenshot shows the SAP Data Builder graphical view editor. On the left, the repository tree shows 'Tables' and 'Views' expanded. In the center, a graphical canvas displays a 'Join' operation between 'Book Authors Dimension View' and 'All Book Sales Order Fact Table'. The right side of the screen shows the 'Properties' panel for 'View 1', which includes fields for Business Name, Technical Name, Semantic Usage, and Relational Dataset. Below the properties are sections for 'Expose for Consumption', 'Run in Analytical Mode', 'Status', 'Search', 'Attributes (0)', 'Input Parameters (0)', and 'Persistency'.

Explanation	Screenshot
Click on the Join change the configuration as shown	 <p>The screenshot shows the 'Join Properties' dialog for 'Join 1'. The 'Name:' field is set to 'Join 1'. The 'Join Type' dropdown is set to 'Left'. The 'Cardinality' section shows 'Many (*)' on the left and 'One (0,1)' on the right. Below this, two descriptive paragraphs explain the join types: 'Every row in All Book Sales Order Fact Table joins to Zero rows or one row in Book Authors Dimension View' and 'Every row in Book Authors Dimension View joins to Zero or multiple rows in All Book Sales Order Fact Table'. The 'Mappings' section displays a grid of fields from the 'All Book Sales Order Fact Table' and the 'Book Authors Dimension View' being mapped to each other.</p>
Click on the Projection. The system has selected all fields from the Fact table and the Dimension View. The Book id field selected is from the Dimension View	

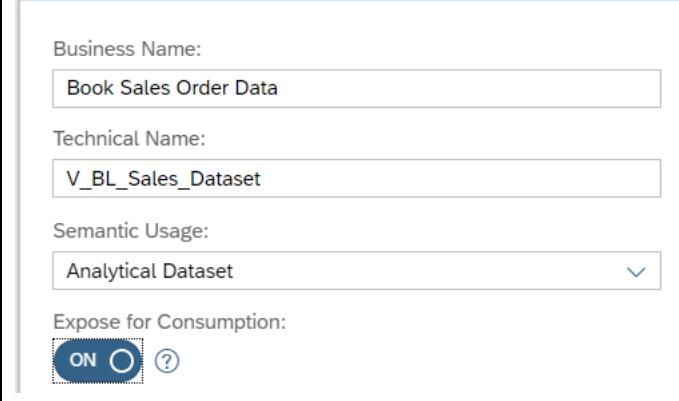
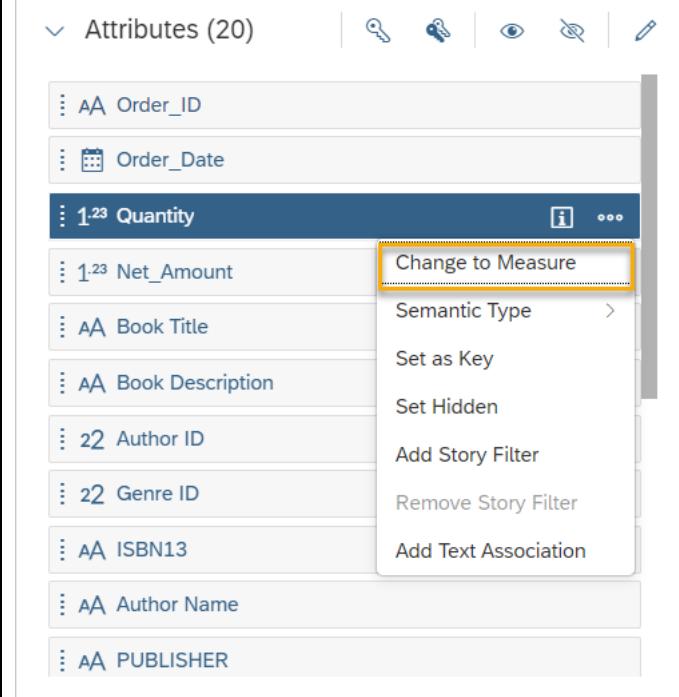
Explanation	Screenshot
	 <p>Projection 1</p> <p>Columns (13)</p> <ul style="list-style-type: none"> Order_ID Book Title Order_Date Book Description Quantity Author ID Net_Amount Genre ID Book_ID Book ID ISBN13 Author Name PUBLISHER

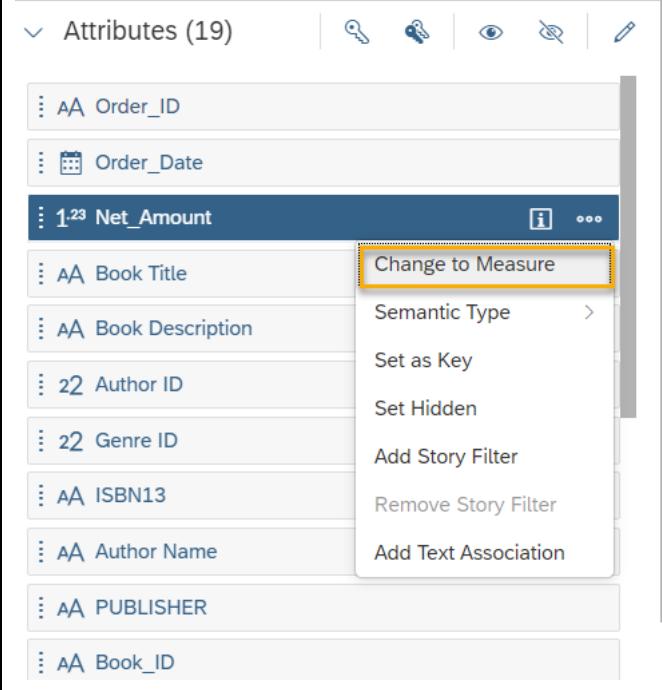
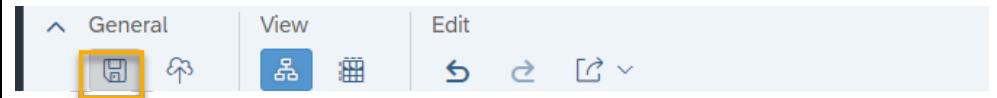
Explanation	Screenshot
<p>Select the Hidden Book_ID field and click on  . Select Restore Column</p>	 <p>The screenshot shows the dimension view configuration. The 'Book_ID' field is highlighted in blue. A context menu is open with the 'Restore Column' option selected.</p>
<p>Follow the above steps for the Book_ID column selected from the Dimension view and exclude it</p>	 <p>The screenshot shows the dimension view configuration. The 'Book_ID' field is highlighted in blue. A context menu is open with the 'Exclude Column' option selected.</p>
<p>From the View list select the view Time Dimension – Day and drag it on the canvas and place it on top of the Projection. System provides option to join</p>	 <p>The screenshot shows the 'Views' section of the interface, listing various views like 'Book Authors Dimension View', 'Time Dimension - Day', etc. On the right, a projection diagram shows two tables being joined: 'Book Authors Dimensions' and 'All Book Sales Order'. The 'Time Dimension - Day' view is being added to the projection.</p>

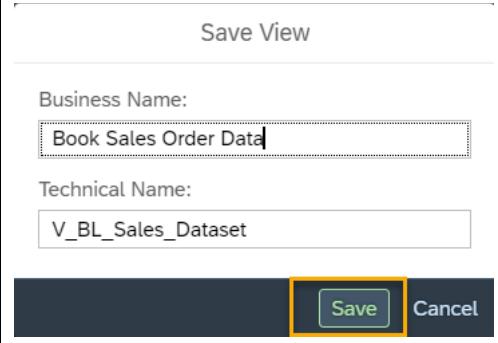
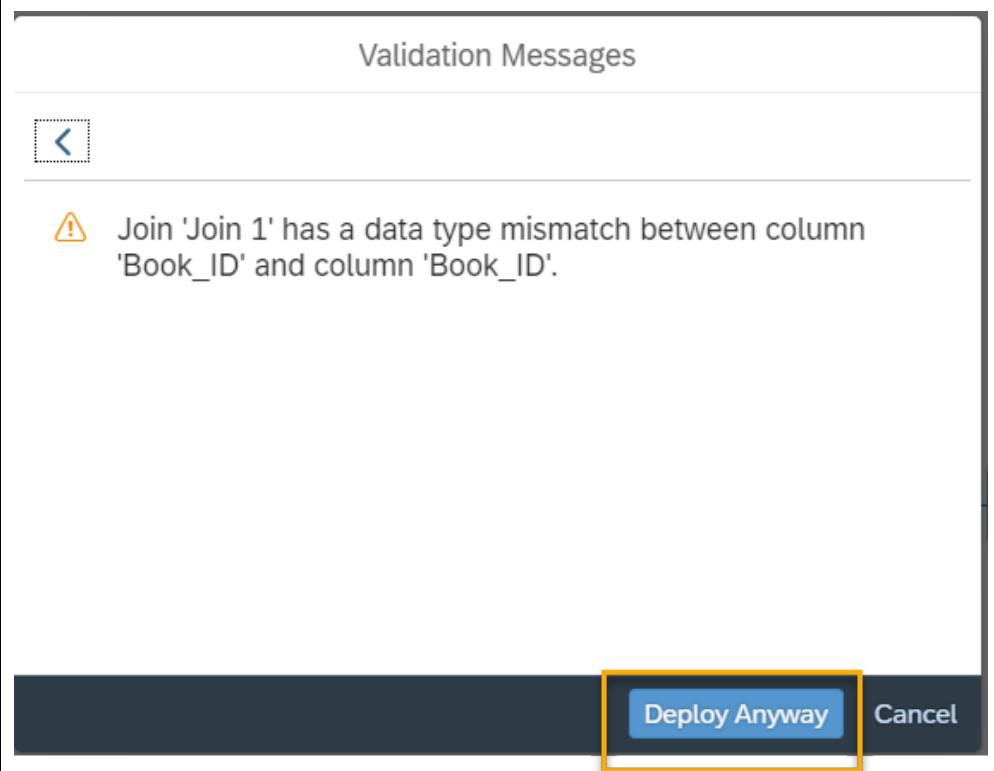
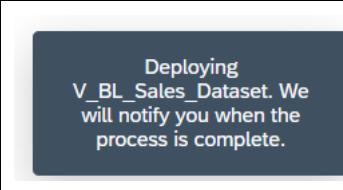
Explanation	Screenshot																																							
<p>Click on the Join and configure the join as shown</p>	<p>Join Properties</p> <p>Join 2</p> <p>Name: * Join 2</p> <p>Join Type: Left <input checked="" type="checkbox"/> Distinct Values</p> <p>Cardinality: Many (*) To One (0,1)</p> <p>Every row in Projection 1 joins to Zero rows or one row in Time Dimension - Day</p> <p>Every row in Time Dimension - Day joins to Zero or multiple rows in Projection 1</p> <p>Mappings</p> <table border="1"> <thead> <tr> <th>All</th> <th>Mapped</th> <th>Unmapped</th> </tr> </thead> <tbody> <tr> <td>Projection 1 (12)</td> <td>Time Dimension - Da...</td> <td></td> </tr> <tr> <td>Search... <input type="text"/> <input type="button" value=""/></td> <td>Search... <input type="text"/> <input type="button" value=""/></td> <td></td> </tr> <tr> <td>AA Order_ID</td> <td>AA Date</td> <td></td> </tr> <tr> <td>AA Book Title</td> <td>AA Date (String)</td> <td></td> </tr> <tr> <td>AA Order Date</td> <td>AA Day of Week</td> <td></td> </tr> <tr> <td>AA Book Description</td> <td>AA Calendar Week</td> <td></td> </tr> <tr> <td>1²³ Quantity</td> <td>AA Calendar Month</td> <td></td> </tr> <tr> <td>2² Author ID</td> <td>AA Month</td> <td></td> </tr> <tr> <td>1²³ Net_Amount</td> <td>AA Calendar Quarter</td> <td></td> </tr> <tr> <td>2² Genre ID</td> <td>AA Quarter</td> <td></td> </tr> <tr> <td>AA Book_ID</td> <td>AA Year</td> <td></td> </tr> <tr> <td>AA ISBN13</td> <td></td> <td></td> </tr> </tbody> </table>	All	Mapped	Unmapped	Projection 1 (12)	Time Dimension - Da...		Search... <input type="text"/> <input type="button" value=""/>	Search... <input type="text"/> <input type="button" value=""/>		AA Order_ID	AA Date		AA Book Title	AA Date (String)		AA Order Date	AA Day of Week		AA Book Description	AA Calendar Week		1 ²³ Quantity	AA Calendar Month		2 ² Author ID	AA Month		1 ²³ Net_Amount	AA Calendar Quarter		2 ² Genre ID	AA Quarter		AA Book_ID	AA Year		AA ISBN13		
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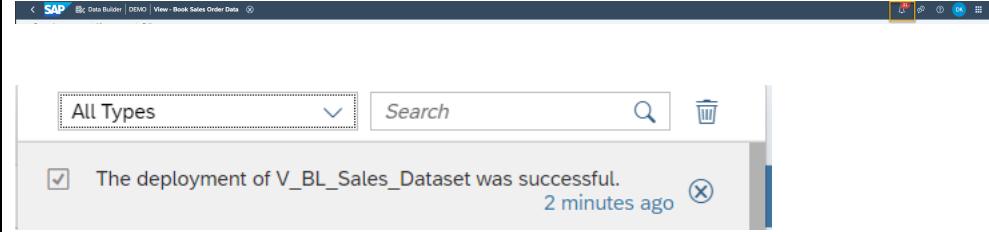
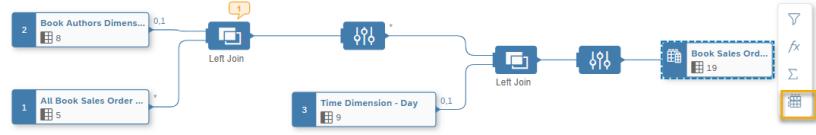
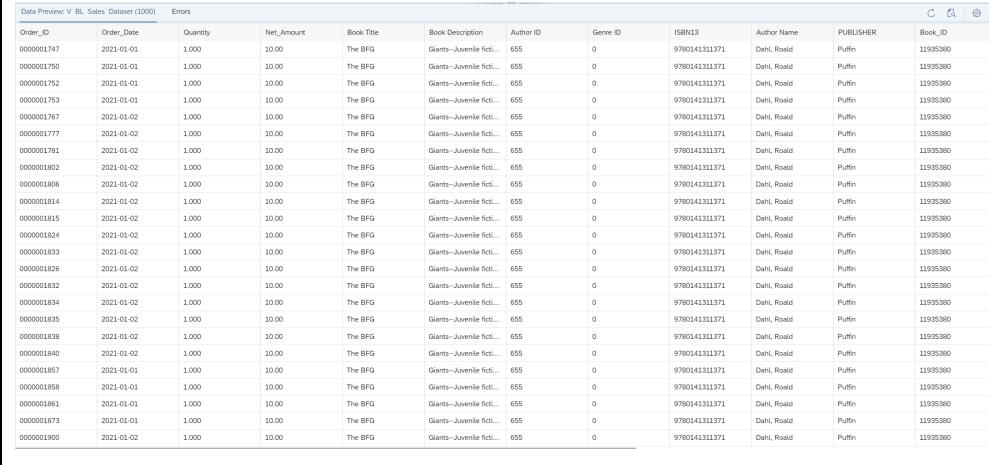
Explanation	Screenshot
<p>Click on the Jon Node in the canvas and Click on </p>	
<p>Click on  to open the configuration of the second projection</p>	

Explanation	Screenshot
<p>System has selected all columns from the Time Dimension view. We do not need the Date column from the time dimension view as we have order date.</p> <p>Select the Date column and click on . Select Exclude Column. Repeat the same steps to exclude Date (String) column</p>	<p>The screenshot shows the 'RenameElements Properties' dialog for 'Projection 2'. The 'Name:' field contains 'Projection 2'. Below it, the 'Columns (21)' section lists various columns. The 'Date' column is highlighted, and a context menu is open next to it, showing 'Exclude Column' and 'Change Name' options.</p>
<p>Click on the View 1 in the Canvas to configure the output</p>	<p>The screenshot shows a data flow diagram on the canvas. It consists of three tables: 'Book Authors Dimensions' (2), 'All Book Sales Order ...' (1), and 'Time Dimension - Day' (3). Relationships are shown with arrows: a 'Left Join' arrow from table 1 to table 2, another 'Left Join' arrow from table 1 to table 3, and a third 'Left Join' arrow from table 3 to table 2. A fourth arrow points from table 2 to 'View 1'. The 'View 1' box is highlighted with a yellow border.</p>

Explanation	Screenshot
<p>Enter Business Name Technical Name . And change the Semantic Usage to Analytical DataSet Set the Expose for Consumption ON</p>	
<p>In the attribute section select Quantity and click on  and select Change to Measure</p>	

Explanation	Screenshot
Repeat the same steps to Change Net_Amount as Measure	
Click  to Save the view	
The system provides a warning message about the data type mismatch in the fact table and dimension view for Book_ID column. For this exercise ignore the warning message and click on Save Anyway	<p data-bbox="509 1129 1269 1241"> Validation Messages [empty] </p> <p data-bbox="509 1241 1269 1389"> ⚠ Join 'Join 1' has a data type mismatch between column 'Book_ID' and column 'Book_ID'. </p> <div data-bbox="509 1657 1269 1746" style="background-color: #2e3436; color: white; display: flex; justify-content: space-around; align-items: center;"> Save Anyway Cancel </div>

Explanation	Screenshot
Confirm the Business Name and Technical name and click on Save	 <p>Save View</p> <p>Business Name: Book Sales Order Data</p> <p>Technical Name: V_BL_Sales_Dataset</p> <p>Save Cancel</p>
Click on  to deploy the view	 <p>General View Edit</p> <p>Deploy</p>
System will give us the warning of data mismatch. Select Deploy Anyway	 <p>Validation Messages</p> <p>Validation Messages</p> <p>Join 'Join 1' has a data type mismatch between column 'Book_ID' and column 'Book_ID'.</p> <p>Deploy Anyway Cancel</p>
System provides the information that the View is getting deployed.	 <p>Deploying V_BL_Sales_Dataset. We will notify you when the process is complete.</p>

Explanation	Screenshot																																																																																																																																																																																																																																																																																																												
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<p>The data preview shows data for the attributes and measures available</p>	 <table border="1"> <thead> <tr> <th>Order_ID</th> <th>Order_Date</th> <th>Quantity</th> <th>Net_Amount</th> <th>Book Title</th> <th>Book Description</th> <th>Author ID</th> <th>Genre ID</th> <th>ISBN13</th> <th>Author Name</th> <th>PUBLISHER</th> <th>Book_ID</th> </tr> </thead> <tbody> <tr><td>0000001747</td><td>2021-01-01</td><td>1.000</td><td>10.00</td><td>The BFG</td><td>Giants-Juvenile fict...</td><td>655</td><td>0</td><td>9780141311371</td><td>Dahl, Roald</td><td>Puffin</td><td>11935380</td></tr> <tr><td>0000001750</td><td>2021-01-01</td><td>1.000</td><td>10.00</td><td>The BFG</td><td>Giants-Juvenile fict...</td><td>655</td><td>0</td><td>9780141311371</td><td>Dahl, Roald</td><td>Puffin</td><td>11935380</td></tr> <tr><td>0000001752</td><td>2021-01-01</td><td>1.000</td><td>10.00</td><td>The BFG</td><td>Giants-Juvenile fict...</td><td>655</td><td>0</td><td>9780141311371</td><td>Dahl, 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