



PARTNER

## **SAP BTP Data-to-Value Hands-on Exercise Series**

### **DV200 Exercise03 – Creating a Dimension with Business Builder of SAP Data Warehouse Cloud**

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

**THE BEST RUN**



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## DISCLAIMER

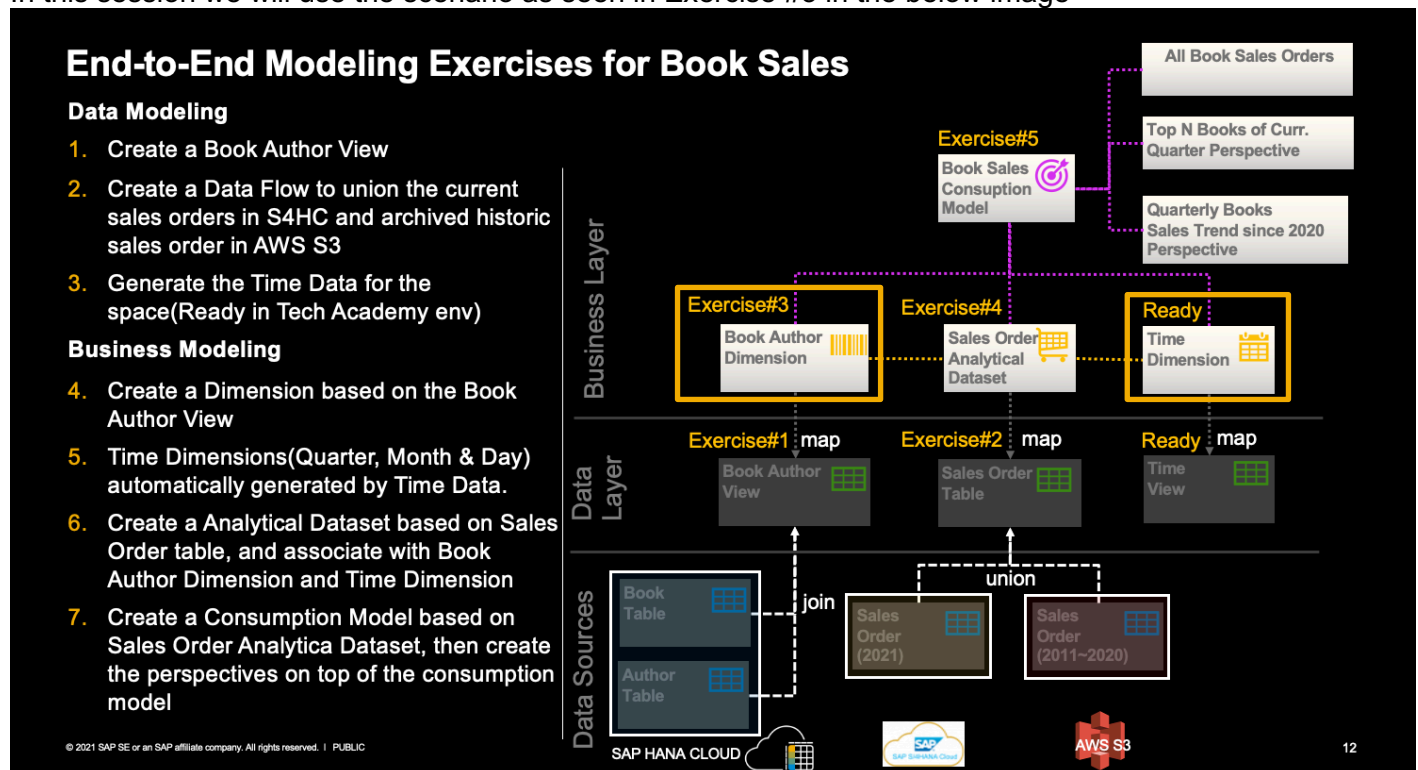
All functionality presented here is subject to change and may be changed by SAP at any time for any reason without notice.

## OBJECTIVE

The objective of this exercise is to provide the steps needed to create a Dimension view using Business Builder of SAP Data Warehouse Cloud.

## SCENARIO

In this session we will use the scenario as seen in Exercise #3 in the below image



In this session we will create a Dimension Views using Business Builder. We will use the Book Author view created in the [DV200 Exercise01](#) as a source to create Book Author Dimension including Book\_ID, Book\_Title, Author, ISBN13 etc, which will be used in Book Sales Analysis for Best-selling Books/Author etc in later exercise.

Time Dimension Day view is automatically generated by creating time data in the space, we will create Time Dimension Day based on this Time Dimension Day view, which will be used for Book Sales Analysis by Year/Quarter/Month etc in later exercise.

## ENVIRONMENT ACCESS

**Before the exercise, please obtain the Tenant details and Login Credentials of SAP Data Warehouse Cloud provided to you as instruction below.**

**SAP Data Warehouse Cloud** (To login SAP Data Warehouse Cloud and perform the exercise.)

- Tenant URL
- Username: Your assigned User ID
- Password: Your assigned User Password

For the Bootcamp participants, please use the SAP Data Warehouse tenant provided by SAP, and your assigned user id and password.

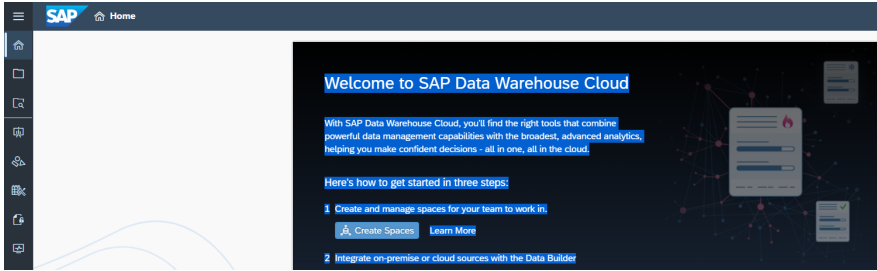

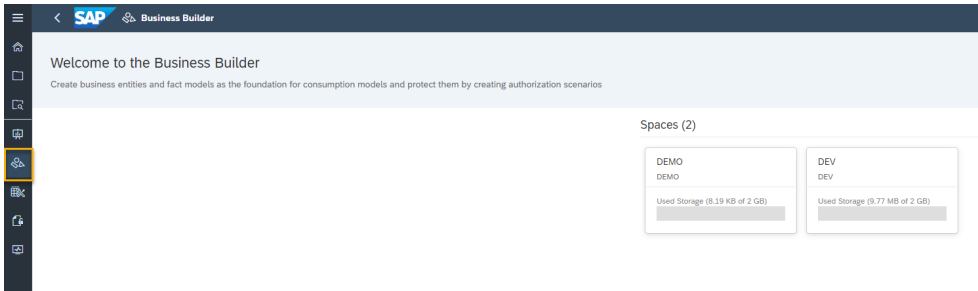
- The SAP Data Warehouse cloud tenant URL is available in the dedicated Microsoft Teams > General (Channel) > System Access (Tab) > SAP Data Warehouse Cloud (Section), which you have been invited.
- Your assigned user id and password for SAP Data Warehouse Cloud are communicated individually via email.

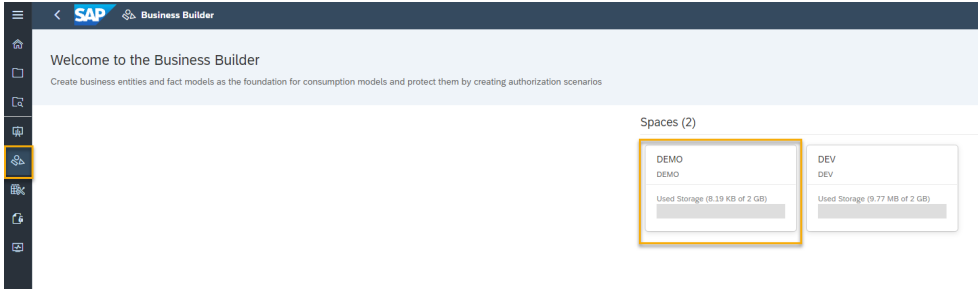
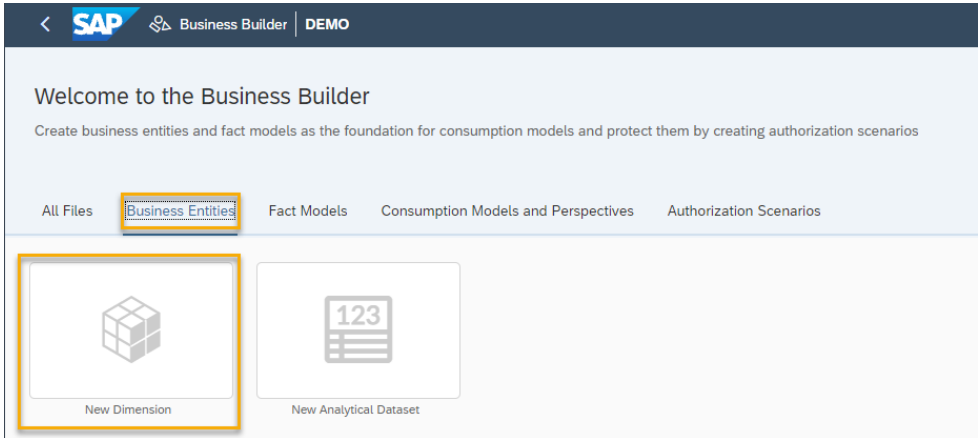
## PREREQUISITES

You have completed previous exercise.

- DV200\_Exercise01: Book\_Author\_View is created.
- Time Data is generated in Space. (Not action required for SAP BTP Data-to-Value Bootcamp participant.)

## EXERCISE STEP DETAILS

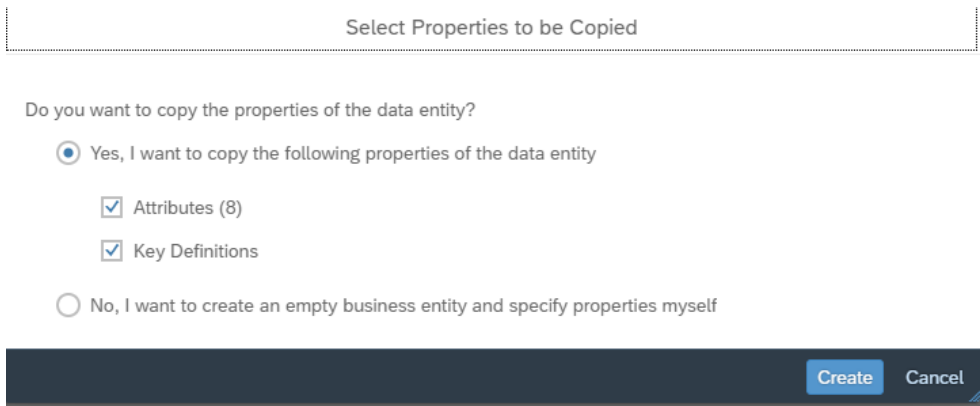
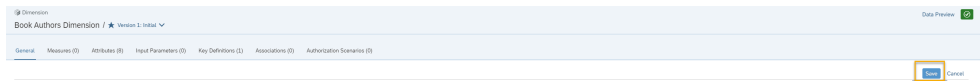

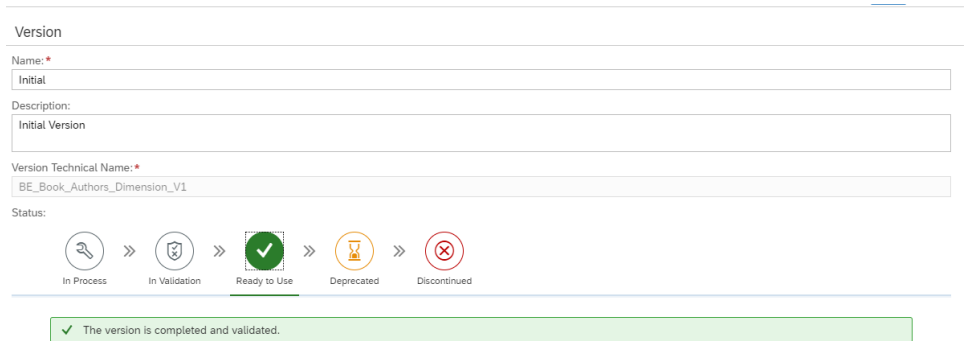
| Explanation   | Screenshot   |
|---|--|
| Log on to SAP Data Warehouse Cloud with the given tenant URL and assigned user credential mentioned above.<br><br>Go to the Home Screen.                            |  |
| Click on the Business Builder  Icon, you see the space that you are assigned to. |  |

| Explanation  | Screenshot   |
|--|--|
| Click on the Space                                   |  <p>The screenshot shows the SAP Business Builder interface. The top navigation bar includes the SAP logo and 'Business Builder'. Below the header, a welcome message is displayed. On the left, a sidebar contains icons for various functions. The main area shows 'Spaces (2)' with two cards: 'DEMO' and 'DEV'. The 'DEMO' card is highlighted with an orange box and shows 'Used Storage (8.19 KB of 2 GB)'.</p>  |
| Click on Business Entities<br>→ Select New Dimension |  <p>The screenshot shows the SAP Business Builder interface with the 'DEMO' space selected. The top navigation bar includes the SAP logo, 'Business Builder', and 'DEMO'. Below the header, a welcome message is displayed. A horizontal tab bar contains 'All Files', 'Business Entities', 'Fact Models', 'Consumption Models and Perspectives', and 'Authorization Scenarios'. The 'Business Entities' tab is highlighted with an orange box. Below the tabs, there are two main options: 'New Dimension' (represented by a cube icon) and 'New Analytical Dataset' (represented by a document icon with the number 123). The 'New Dimension' option is highlighted with an orange box.</p> |

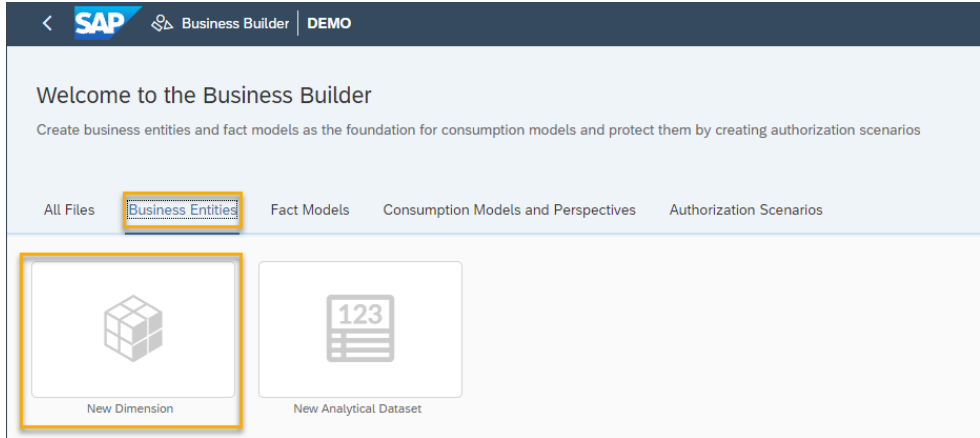
| Explanation   | Screenshot  |
|---|---|
| <p>Select the Book Authors Dimension View, which is created in one of previous exercises</p> <p><u>DV200_Exercise01</u></p> | <div><div>Create New Dimension</div><div><div>Data Entity:*</div><div>Search for data entity</div><div><div>Data Entity</div><div>Status</div><div>Already used by</div></div><div><div><div>All Book Sales Order Fact Table</div><div>Deployed</div></div><div><div>Book Authors Dimension View<br/>Dimension</div><div>Deployed</div></div><div><div>SAP_CAPIRE_BOOKSHOP_AUTHORS</div><div>Deployed</div></div><div><div>SAP_CAPIRE_BOOKSHOP_BOOKS</div><div>Deployed</div></div><div><div>Time Dimension - Day<br/>Dimension</div><div>Deployed</div></div></div><div><div>Business Name:*</div><div>Enter a business name</div><div>Technical Name:*</div><div>Enter a unique technical name</div></div><div><div>Create</div><div>Cancel</div></div></div></div> |

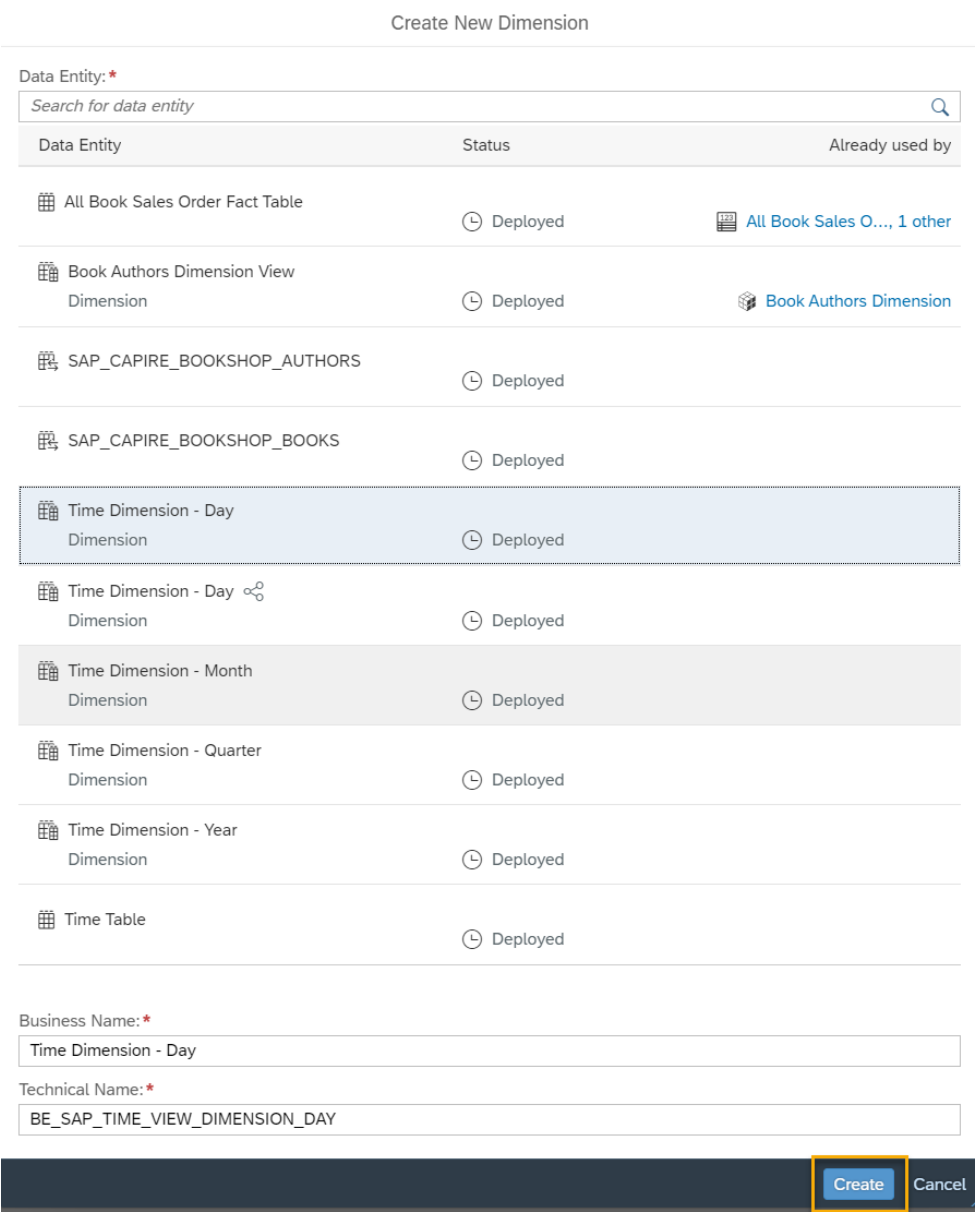
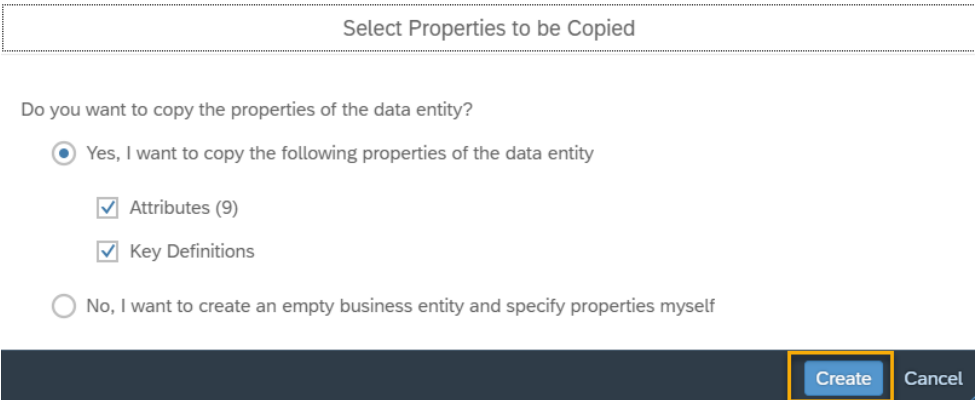
| Explanation  | Screenshot   |                 |        |                 |   |                                |  |   |                                |  |   |                                |  |   |                                |  |  |                                |  |
|--|--|-----------------|--------|-----------------|---|--------------------------------|--|---|--------------------------------|--|---|--------------------------------|--|---|--------------------------------|--|--|--------------------------------|--|
| Enter Business Name as “Book Author Dimension”, Technical name will be automatically populated, then click Create button | <div><div>Create New Dimension</div><div><div>Data Entity: *</div><div><div>Search for data entity</div><div></div></div></div><table><tr><th>Data Entity</th><th>Status</th><th>Already used by</th></tr><tr><td><div><div></div>All Book Sales Order Fact Table</div></td><td><div><div></div>Deployed</div></td><td></td></tr><tr><td><div><div></div>Book Authors Dimension View<br/>Dimension</div></td><td><div><div></div>Deployed</div></td><td></td></tr><tr><td><div><div></div>SAP_CAPIRE_BOOKSHOP_AUTHORS</div></td><td><div><div></div>Deployed</div></td><td></td></tr><tr><td><div><div></div>SAP_CAPIRE_BOOKSHOP_BOOKS</div></td><td><div><div></div>Deployed</div></td><td></td></tr><tr><td><div><div></div>Time Dimension - Day <div></div><br/>Dimension</div></td><td><div><div></div>Deployed</div></td><td></td></tr></table><div><div>Business Name: *</div><div>Book Authors Dimension</div><div>Technical Name: *</div><div>BE_Book_Authors_Dimension</div></div><div><div>Create</div><div>Cancel</div></div></div> | Data Entity     | Status | Already used by | <div><div></div>All Book Sales Order Fact Table</div> | <div><div></div>Deployed</div> |  | <div><div></div>Book Authors Dimension View<br/>Dimension</div> | <div><div></div>Deployed</div> |  | <div><div></div>SAP_CAPIRE_BOOKSHOP_AUTHORS</div> | <div><div></div>Deployed</div> |  | <div><div></div>SAP_CAPIRE_BOOKSHOP_BOOKS</div> | <div><div></div>Deployed</div> |  | <div><div></div>Time Dimension - Day <div></div><br/>Dimension</div> | <div><div></div>Deployed</div> |  |
| Data Entity  | Status   | Already used by |        |                 |   |                                |  |   |                                |  |   |                                |  |   |                                |  |  |                                |  |
| <div><div></div>All Book Sales Order Fact Table</div>  | <div><div></div>Deployed</div>   |                 |        |                 |   |                                |  |   |                                |  |   |                                |  |   |                                |  |  |                                |  |
| <div><div></div>Book Authors Dimension View<br/>Dimension</div>  | <div><div></div>Deployed</div>   |                 |        |                 |   |                                |  |   |                                |  |   |                                |  |   |                                |  |  |                                |  |
| <div><div></div>SAP_CAPIRE_BOOKSHOP_AUTHORS</div>  | <div><div></div>Deployed</div>   |                 |        |                 |   |                                |  |   |                                |  |   |                                |  |   |                                |  |  |                                |  |
| <div><div></div>SAP_CAPIRE_BOOKSHOP_BOOKS</div>  | <div><div></div>Deployed</div>   |                 |        |                 |   |                                |  |   |                                |  |   |                                |  |   |                                |  |  |                                |  |
| <div><div></div>Time Dimension - Day <div></div><br/>Dimension</div>   | <div><div></div>Deployed</div>   |                 |        |                 |   |                                |  |   |                                |  |   |                                |  |   |                                |  |  |                                |  |




| Explanation  | Screenshot  |
|--|---|
| Confirm the Copy of Properties from source Data Entity to target Business Entity |   |
| Click Save   |   |
| Check Status   |    |
| The view is now saved and ready to use   |  |

## Create Time Dimension View

|  |  |
|--|--|
| Click on Business Entities<br>→ Select New Dimension |  |
|--|--|

| Explanation   | Screenshot   |
|---|--|
| <p>Select the Time Dimension – Day and click create</p>                                 |  <p>The screenshot shows the 'Create New Dimension' dialog. At the top, it says 'Create New Dimension'. Below that is a search bar for 'Data Entity: *'. A table lists various data entities and their status. The 'Time Dimension - Day' entity is selected and highlighted. Below the table, there are fields for 'Business Name: *' (filled with 'Time Dimension - Day') and 'Technical Name: *' (filled with 'BE_SAP_TIME_VIEW_DIMENSION_DAY'). At the bottom right, there are 'Create' and 'Cancel' buttons, with the 'Create' button highlighted by a yellow box.</p>     |
| <p>Confirm the Copy of Properties from source Data Entity to target Business Entity</p> |  <p>The screenshot shows the 'Select Properties to be Copied' dialog. It asks 'Do you want to copy the properties of the data entity?'. There are two radio button options: 'Yes, I want to copy the following properties of the data entity' (which is selected) and 'No, I want to create an empty business entity and specify properties myself'. Under the 'Yes' option, there are two checked checkboxes: 'Attributes (9)' and 'Key Definitions'. At the bottom right, there are 'Create' and 'Cancel' buttons, with the 'Create' button highlighted by a yellow box.</p> |

| Explanation   | Screenshot  |
|---|---|
| <div>Click on </div> <div>The view is now saved and ready to use</div> | <div><div>Version</div><div>Name: *<br/>Initial</div><div>Description:<br/>Initial Version</div><div>Version Technical Name: *<br/>BE_SAP_TIME_VIEW_DIMENSION_DAY_V1</div><div>Status:<br/><div><div>In Process</div><div>In Validation</div><div>Ready to Use</div><div>Deprecated</div><div>Discontinued</div></div></div><div><div>✓ The version is completed and validated.</div></div></div> |
| <div>Click Save</div>   | <div><div>Dimension<br/>Time Dimension - Day / Version 1: Initial</div><div>General Measures (0) Attributes (0) Input Parameters (0) Key Definitions (1) Associations (0) Authorization Scenarios (0)</div><div><div>Save</div><div>Cancel</div></div></div>  |