SAP Data Warehouse Cloud hands-on exercises

This document will guide you step by step on the process of creating a consumption model and perspective using Business Builder within SAP Data Warehouse Cloud

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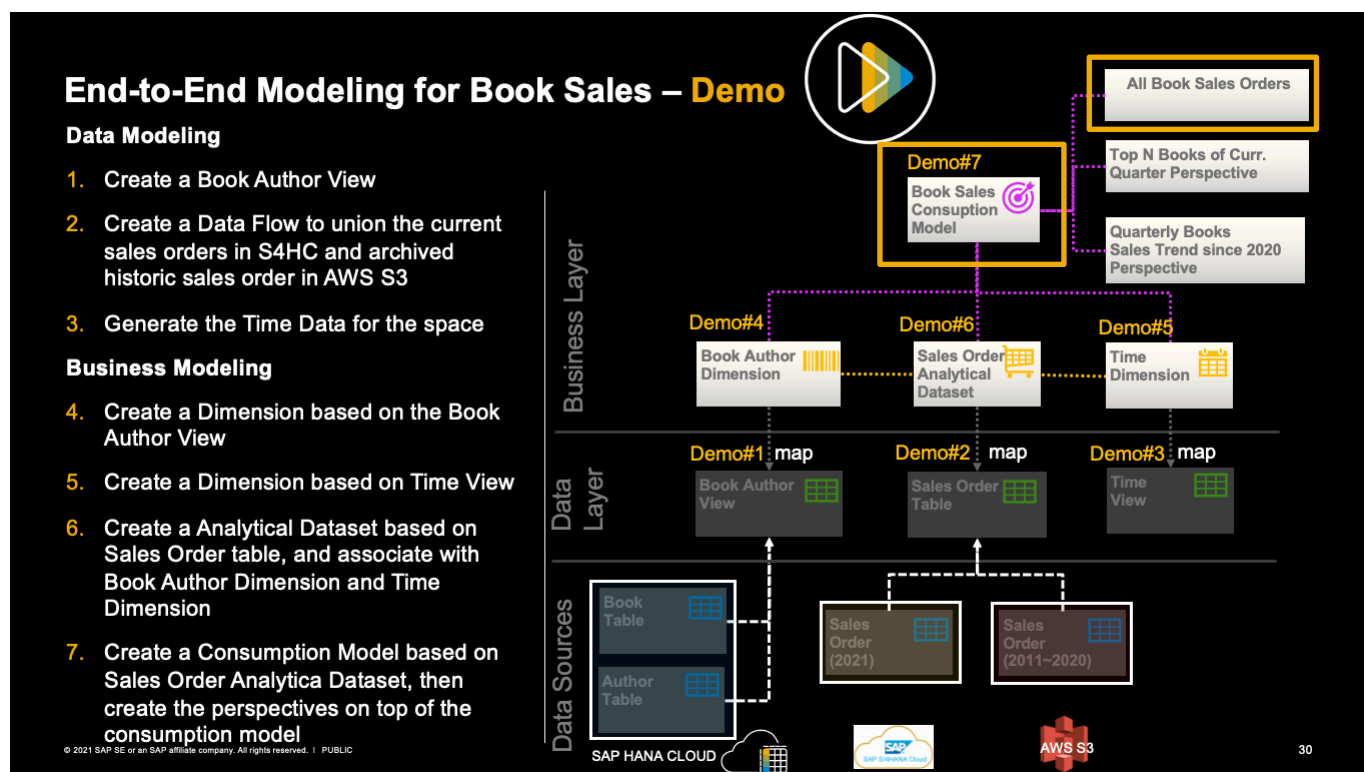
In this session we will create a Analytical Dataset using Business Builder. We will use the All Book Sales Order Table created in the Data Flow demo as a source.

ENVIRONMENT ACCESS – SAP DATA WAREWHOUSE CLOUD

Please use the Tenant details and Login Credentials provided to you

In this section you will use,
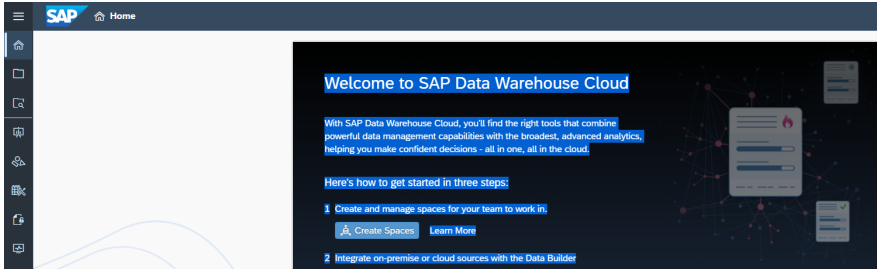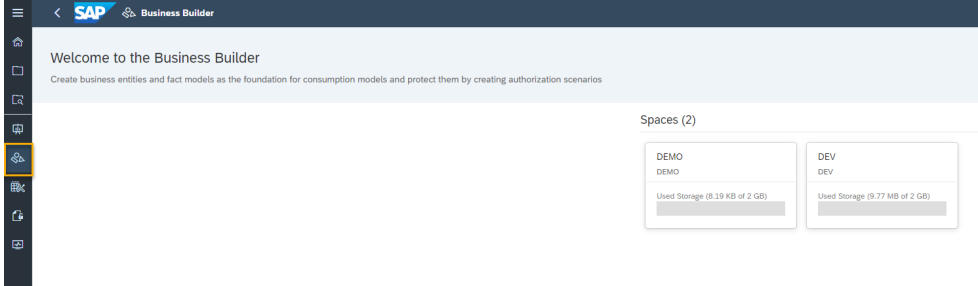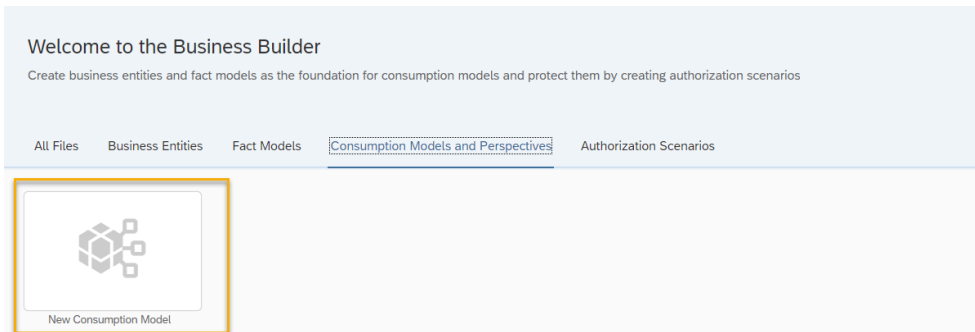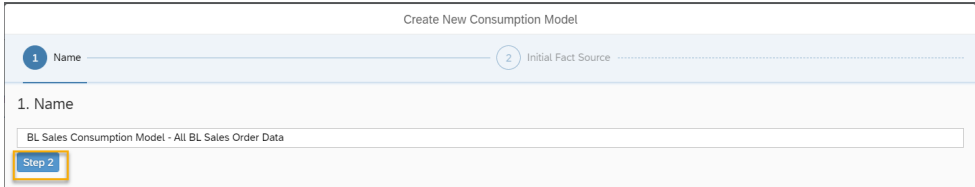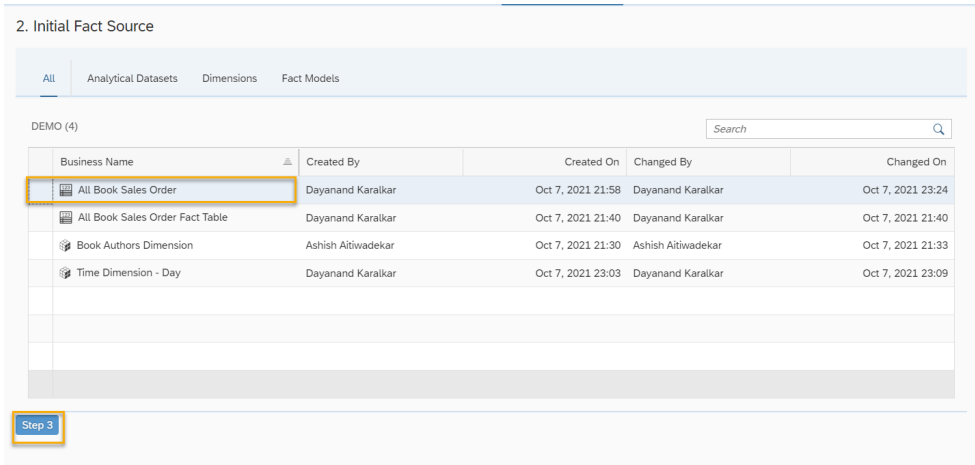
SAP Data Warehouse Cloud
Tenant URL:
Username:
Password:
Space Name:
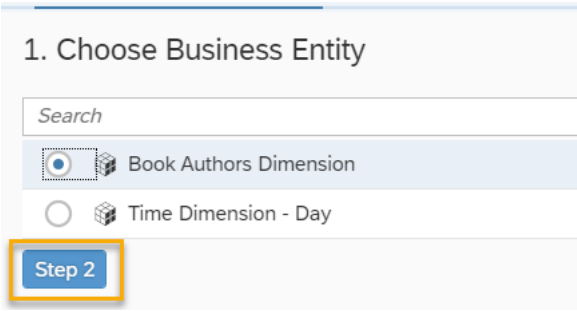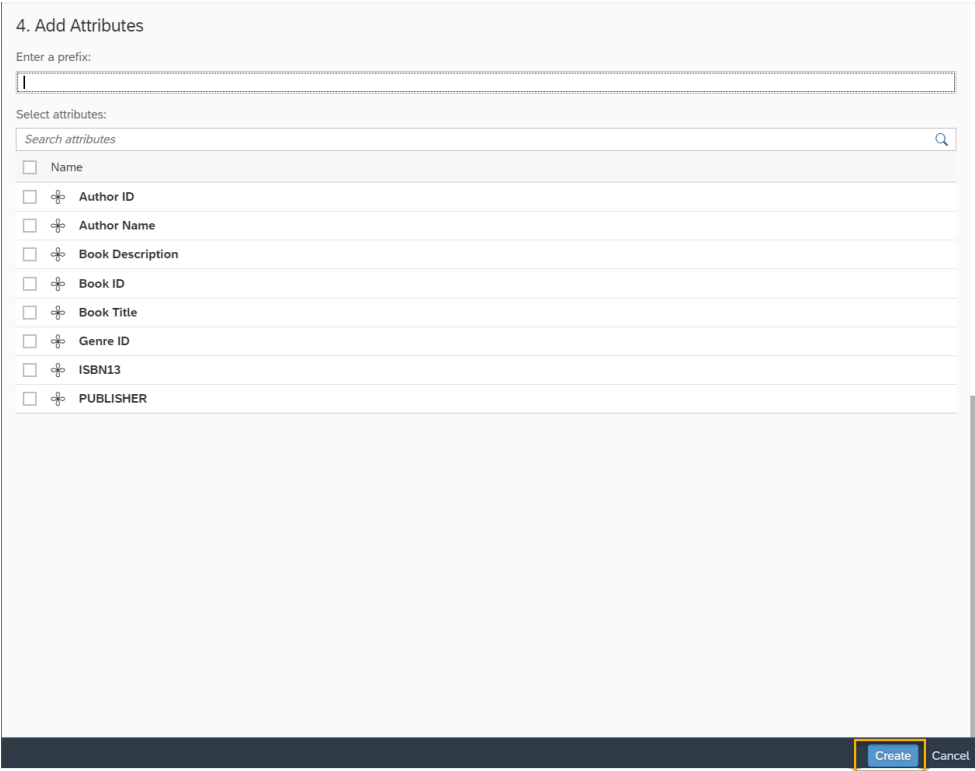
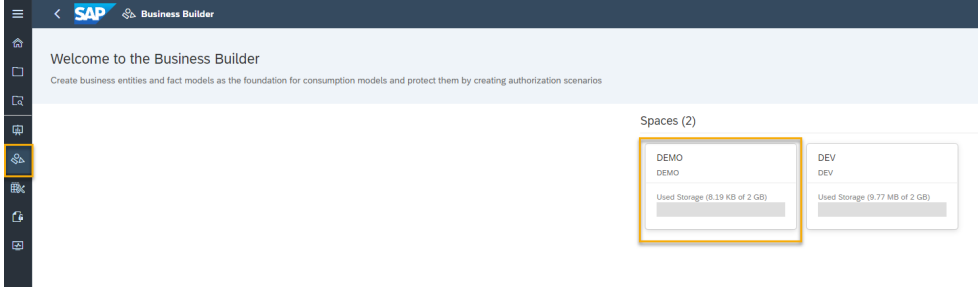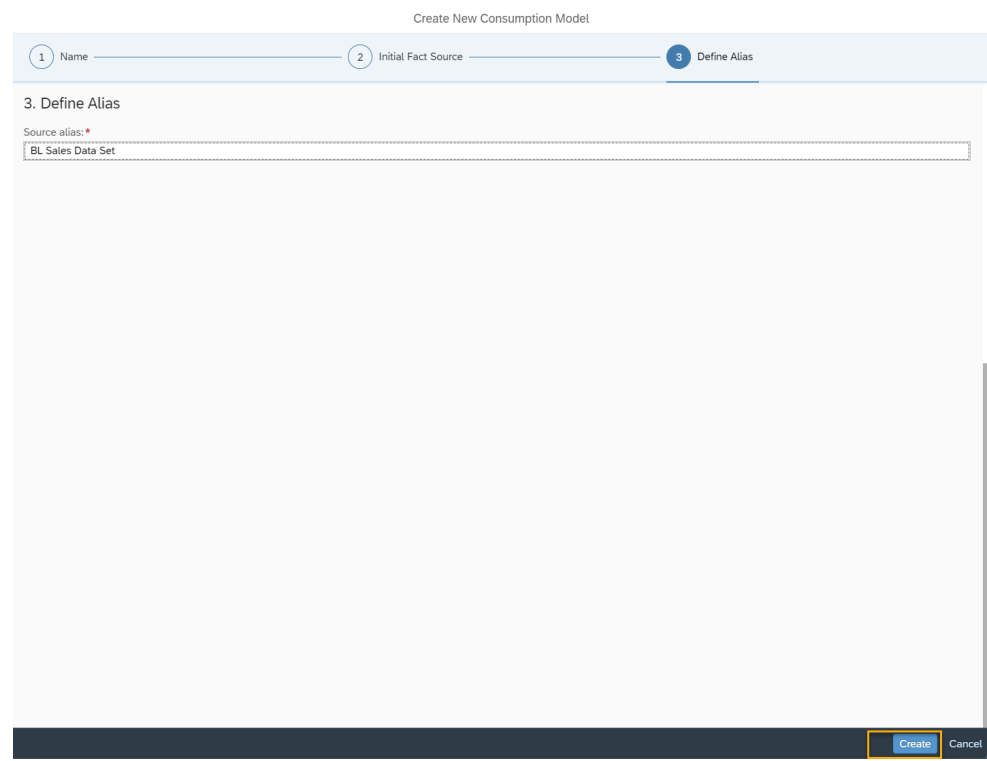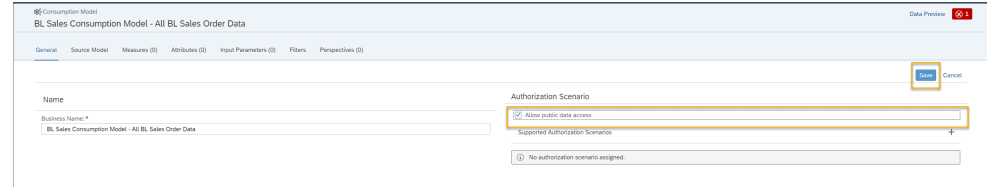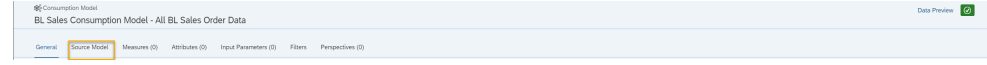| Explanation	Screenshot
You are Logged in to SAP Data Warehouse Cloud and are in the home page	
Click on the Business Builder Icon, you see the space that you are assigned to.	
Click on the Space	

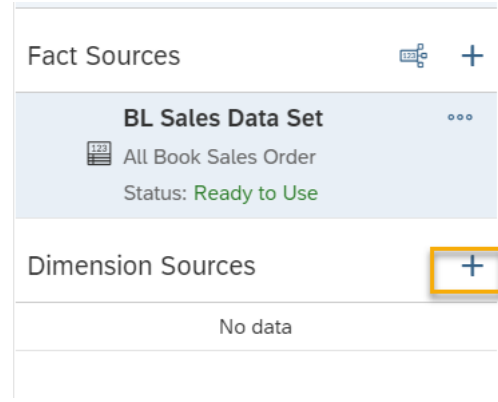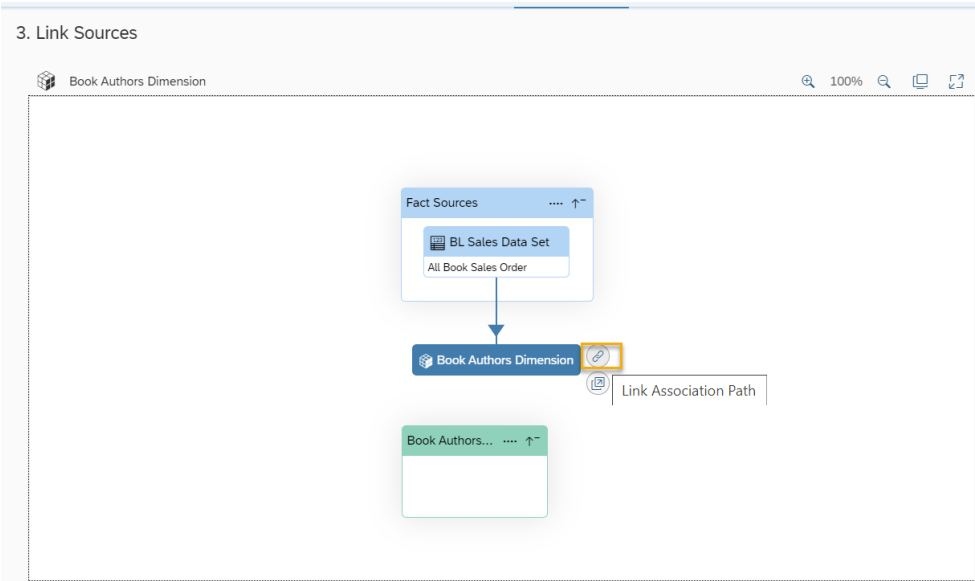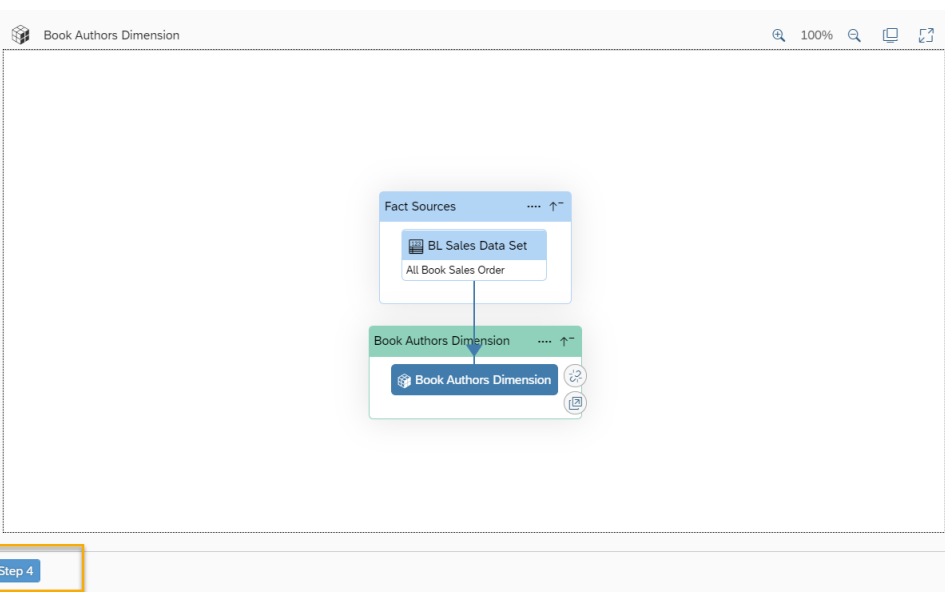| Explanation	Screenshot
Click on Consumption Models and Perspectives → Select New Consumption Model	**Welcome to the Business Builder** Create business entities and fact models as the foundation for consumption models and protect them by creating authorization scenarios All Files Business Entities Fact Models Consumption Models and Perspectives Authorization Scenarios New Consumption Model
Enter name BL Sales Consumption Model - All BL Sales Order Data and click Step 2	Create New Consumption Model ① Name ② Initial Fact Source 1. Name BL Sales Consumption Model - All BL Sales Order Data Step 2
Select All Book Sales Order and Click Step 3	2. Initial Fact Source All Analytical Datasets Dimensions Fact Models DEMO (4) Search | Business Name	Created By	Created On	Changed By	Changed On
---	---	---	---	---
All Book Sales Order	Dayanand Karalkar	Oct 7, 2021 21:58	Dayanand Karalkar	Oct 7, 2021 23:24
All Book Sales Order Fact Table	Dayanand Karalkar	Oct 7, 2021 21:40	Dayanand Karalkar	Oct 7, 2021 21:40
Book Authors Dimension	Ashish Aitiwadekar	Oct 7, 2021 21:30	Ashish Aitiwadekar	Oct 7, 2021 21:33
Time Dimension - Day	Dayanand Karalkar	Oct 7, 2021 23:03	Dayanand Karalkar	Oct 7, 2021 23:09	 Step 3

Explanation	Screenshot
Enter Alias as BL Sales Data Set and click Create	Create New Consumption Model 1 Name — 2 Initial Fact Source — 3 Define Alias 3. Define Alias Source alias: * BL Sales Data Set Create Cancel
In the General tab check the Allow public data access check box in the Authorization Scenario. Click Save	Consumption Model BL Sales Consumption Model - All BL Sales Order Data Data Preview [⊗ 1] General Source Model Measures (0) Attributes (0) Input Parameters (0) Filters Perspectives (0) Save Cancel Name Authorization Scenario Business Name: * ☑ Allow public data access BL Sales Consumption Model - All BL Sales Order Data Supported Authorization Scenarios + ⓘ No authorization scenario assigned.
Click on Source Model	Consumption Model BL Sales Consumption Model - All BL Sales Order Data Data Preview [⊘] General Source Model Measures (0) Attributes (0) Input Parameters (0) Filters Perspectives (0)
Click + In the Dimension Source to add dimension Association	Fact Sources ⊞ + BL Sales Data Set ○○○ 123 All Book Sales Order Status: Ready to Use Dimension Sources + No data
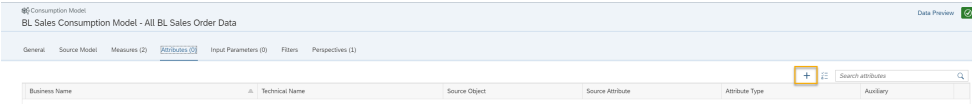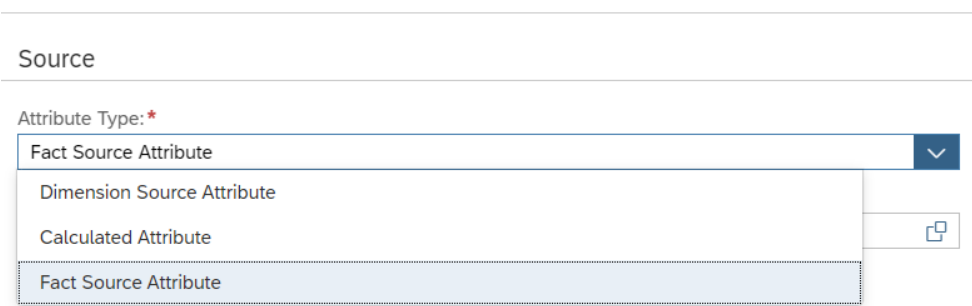
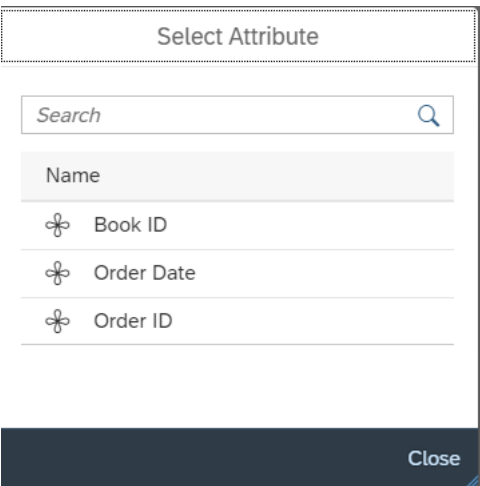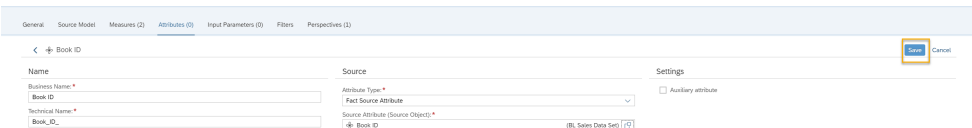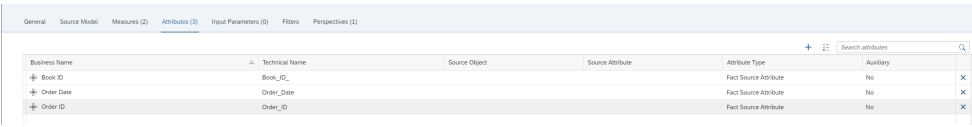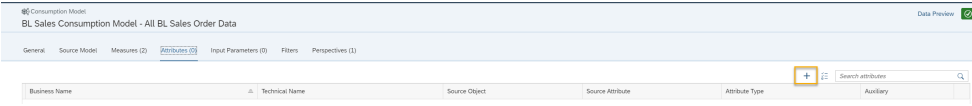| Explanation	Screenshot
Select Book Authors Dimension and click on Step2	**1. Choose Business Entity** Search ⦿ 🎲 Book Authors Dimension ◯ 🎲 Time Dimension - Day Step 2
Keep the proposed Alias Name and Click on Step 3	2. Define Alias Source alias: * Book Authors Dimension Step 3
Click on the Book Authors Dimension and clink Link Association Path	3. Link Sources 🎲 Book Authors Dimension 🔍 100% 🔍 ▭ 🗗 Fact Sources ···· ↑¯ ▦ BL Sales Data Set All Book Sales Order 🎲 Book Authors Dimension 🔗 Link Association Path Book Authors... ···· ↑¯
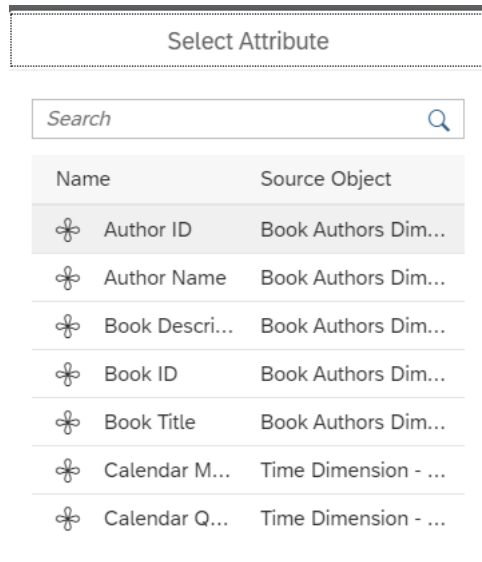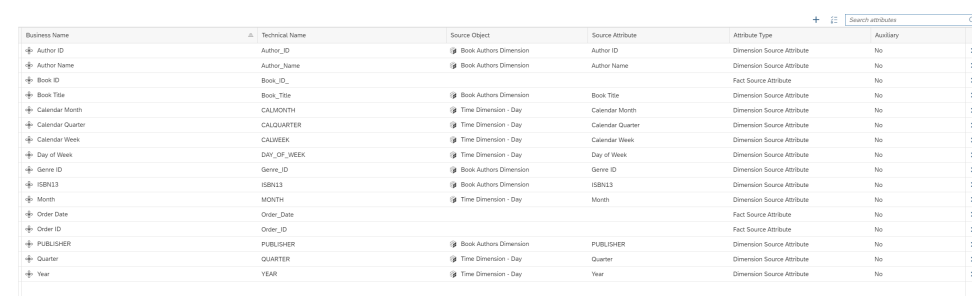
Explanation	Screenshot
The Association is created . Click on Step 4	
click on Create	
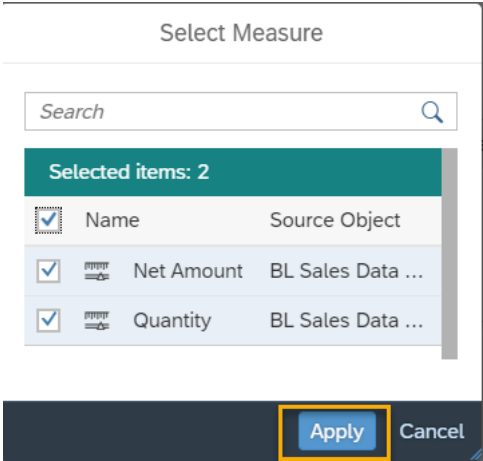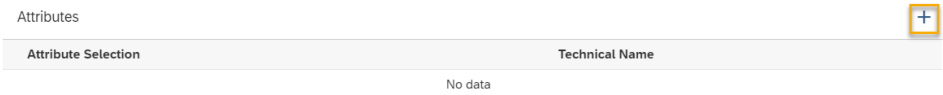
Explanation	Screenshot
Repeat the Steps to add all Attributes of Time Dimension- Day	**3. Link Sources** Time Dimension - Day 100% Fact Sources ···· ↑¯ BL Sales Data Set All Book Sales Order Time Dimension - Day ···· ↑¯ Time Dimension - Day **4. Add Attributes** Enter a prefix: Select attributes: Search attributes ☐ Name ☐ Calendar Month ☐ Calendar Quarter ☐ Calendar Week ☐ Date ☐ Date (String) ☐ Day of Week ☐ Month ☐ Quarter ☐ Year Create Cancel
Click on Measures	Consumption Model BL Sales Consumption Model - All BL Sales Order Data General Source Model Measures (0) Attributes (17) Input Parameters (0) Filters Perspectives (0)

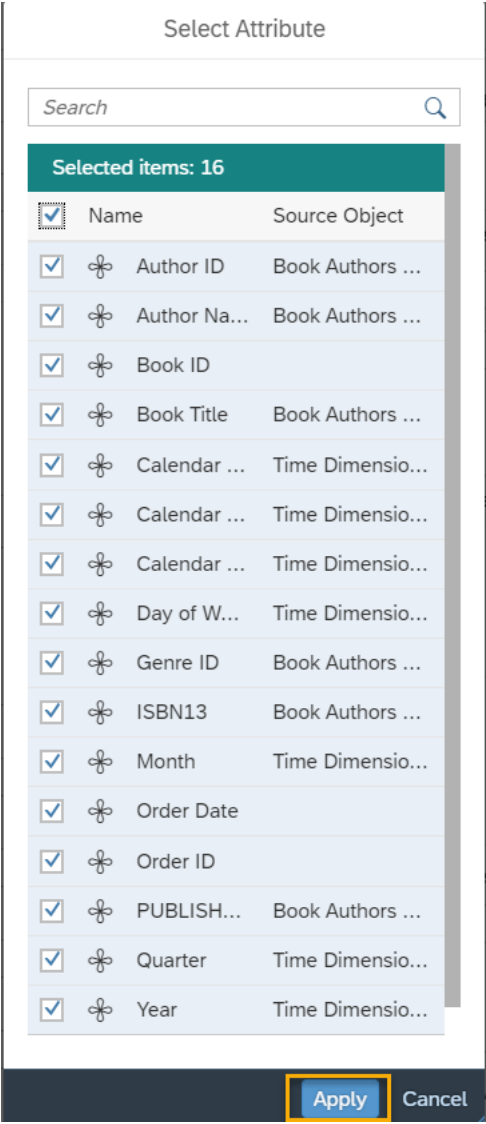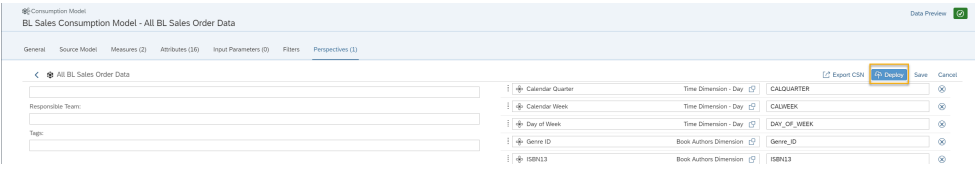| Explanation	Screenshot
Click + to add new Measure	**Consumption Model** BL Sales Consumption Model - All BL Sales Order Data General Source Model Measures (0) Attributes (17) Input Parameters (0) Filters Perspectives (0) Business Name ▲ Technical Name Source Object Source Measure Measure Type
In the Source, select Measure Type as FACT Source Measure and Select Net_Amount	**BL Sales Consumption Model - All BL Sales Order Data** General Source Model Measures (0) Attributes (0) Input Parameters (0) Filters Perspectives (0) ‹ Net_Amount Save Cancel Business Name: * Net_Amount Technical Name: * Net_Amount **Source** Measure Type: * Fact Source Measure ⌄ Fact Source Measure Calculated Measure (BL Sales Data Set) Fixed Value **Settings**
Enter Business Name, Technical Name and Click on Save	General Source Model Measures (2) Attributes (16) Input Parameters (0) Filters Perspectives (1) ‹ Net Amount Save Name Source Settings Business Name: * Measure Type: * ☐ Auxiliary measure Net Amount Fact Source Measure ⌄ Technical Name: * Source Measure (Source Object): * Net_Amount Net Amount (BL Sales Data Set)
Click + to add Measures	**Analytical Dataset** All Book Sales Order / ★ Version 1: Initial ⌄ Data Preview General Measures (0) Attributes (0) Input Parameters (0) Key Definitions (0) Associations (0) Authorization Scenarios (0) + Search measures Business Name Technical Name Source Measure Measure Type Auxiliary
In the Source, select Measure Type as FACT Source Measure and Select Quantity.	‹ Quantity Save Cancel Name Source Settings Business Name: * Measure Type: * ☐ Auxiliary measure Quantity Fact Source Measure ⌄ Technical Name: * Source Measure (Source Object): * Quantity Quantity (BL Sales Data Set)
Click on Attributes	**Consumption Model** BL Sales Consumption Model - All BL Sales Order Data General Source Model Measures (2) Attributes (0) Input Parameters (0) Filters Perspectives (1) +

Explanation	Screenshot
Click + to add new attributes	BL Sales Consumption Model - All BL Sales Order Data — General, Source Model, Measures (2), Attributes (0), Input Parameters (0), Filters, Perspectives (1). Business Name / Technical Name / Source Object / Source Attribute / Attribute Type / Auxiliary
In Source, In the Attributes Type select Fact Source Attribute	**Source** — Attribute Type: * Fact Source Attribute. Dropdown: Dimension Source Attribute, Calculated Attribute, Fact Source Attribute
Select Attribute BOOK ID	**Select Attribute** — Search. Name: Book ID, Order Date, Order ID. Close
Click on Save	Book ID. Name — Business Name: * Book ID, Technical Name: * Book_ID_. Source — Attribute Type: * Fact Source Attribute, Source Attribute (Source Object): * Book ID (BL Sales Data Set). Settings — Auxiliary attribute. Save Cancel
Repeat the steps to add Order Date and Order ID attributes	General, Source Model, Measures (2), Attributes (3), Input Parameters (0), Filters, Perspectives (1). Business Name / Technical Name / Source Object / Source Attribute / Attribute Type / Auxiliary. Book ID — Book_ID_ — Fact Source Attribute — No; Order Date — Order_Date — Fact Source Attribute — No; Order ID — Order_ID — Fact Source Attribute — No
Click + to add new attributes	BL Sales Consumption Model - All BL Sales Order Data — General, Source Model, Measures (2), Attributes (0), Input Parameters (0), Filters, Perspectives (1). Business Name / Technical Name / Source Object / Source Attribute / Attribute Type / Auxiliary

Explanation	Screenshot
In Source, In the Attributes Type select Dimension Source Attribute	**Source** Attribute Type: * Dimension Source Attribute ▼ Dimension Source Attribute Calculated Attribute
Select Attribute Author ID	**Select Attribute** Search 🔍 Name — Source Object ✛ Author ID — Book Authors Dim... ✛ Author Name — Book Authors Dim... ✛ Book Descri... — Book Authors Dim... ✛ Book ID — Book Authors Dim... ✛ Book Title — Book Authors Dim... ✛ Calendar M... — Time Dimension - ... ✛ Calendar Q... — Time Dimension - ...
Click on Save	
Repeat the same steps to add below attributes from dimension source Author ID Author Name Book Title Publisher ISBN13 Genre ID Calendar Month Calendar Quarter Calendar Week Month Quarter Year	

Explanation	Screenshot
Day of Week	
Click on Data Preview.	
Click on Data Preview again to navigate back to the Consumption Model	
Click on Perspective	
Click + to add new Perspective	
Enter Business Name, Technical Name	
Click + to add Measures	

Explanation	Screenshot
Select All Measures and Click Apply	**Select Measure** Search 🔍 **Selected items: 2** ☑ Name Source Object ☑ 📏 Net Amount BL Sales Data ... ☑ 📏 Quantity BL Sales Data ... **Apply** Cancel
Click ＋ to add Attributes	Attributes ＋ **Attribute Selection** **Technical Name** No data

Explanation	Screenshot
Select all and click Apply	
Click on Save and Deploy 	

Explanation	Screenshot
Click on Data Preview	

Results

AUTHOR_NAME	Author ID	Net Amount	Quantity
Dahl, Roald	655	831,933.00	41,970.00
Tolkien, J. R. R. (John Ronald Reuel)	2690	95,200.00	2,330.00
Steig, William	2561	105.00	3.00
Dann, Colin	673	3,359.00	114.00
Blume, Judy	303	2,125.00	72.00
Blyton, Enid	306	1,344,389.00	41,322.00
Paulsen, Gary	2114	1,588.00	55.00
Gleitzman, Morris	1033	3,223.00	91.00
Creech, Sharon	630	2,425.00	78.00
Ibbotson, Eva	1342	91,030.00	1,971.00
Kipling, Rudyard	1495	13,949.00	328.00
Plath, Sylvia	2170	2,813.00	97.00
Allan, Tony	56	1,512.00	56.00
Sachar, Louis	2370	34,037.00	851.00
Oliver, Peter	2056	80.00	8.00
Delahaye, Gilbert	716	24.00	1.00
Tomlinson, Jill	2691	1,033.00	22.00
Edwards, Dorothy	807	2,515.00	88.00