DV305_Exercise02: SAP Analytics Cloud Data Modeling and Wrangling

This document will guide you step by step on the process of creating a model about Book Sales by importing data from csv files and wrangling data in SAC, which will be used in Smart Sales Insight scenario of book sales.

THE BEST RUN **SAP**

www.sap.com/contactsap

THE BEST RUN **SAP**

Table of Contents

DISCLAIMER

The information shared in this document is confidential and proprietary to SAP and may not be disclosed without the permission of SAP. 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 give you an overview of how acquire data with a data import as well as building a data model with the imported data.

SCENARIO

As per SAP note 2832606, SAP Data Warehouse Live Connection is not supported in Smart Features of SAP Analytics Cloud, such as Search-to-Insight, Smart Insight, Smart Discovery and Smart Predict etc. Therefore we will need a model by importing the all the book sales order data (sales_order_items_all_exended.csv) and then merge it with books data (books.csv) to complete our data wrangling and have a more completed dataset about book sales order to use later in Smart Sales Insight scenario.
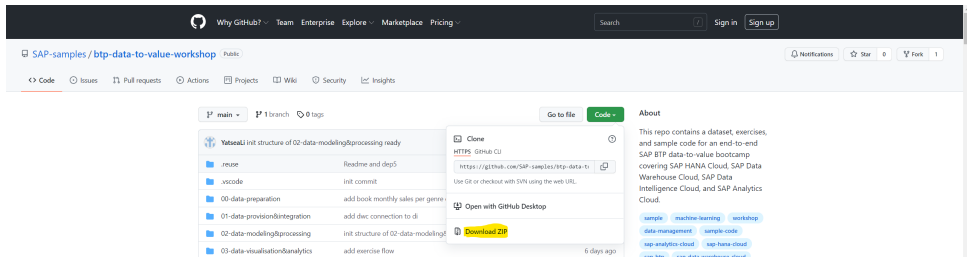
ENVIRONMENT ACCESS

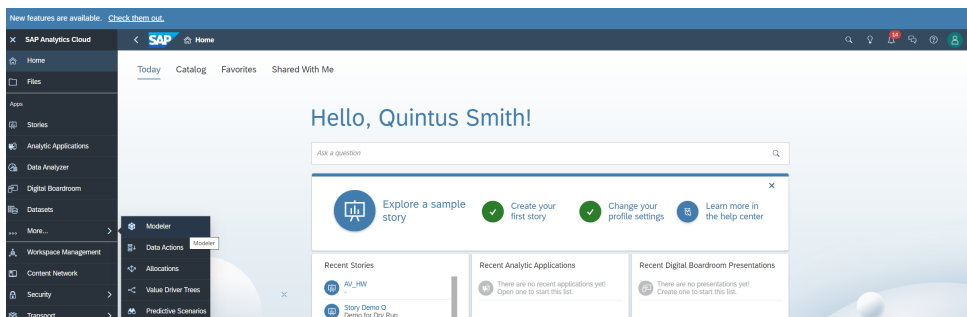The environments we will use for the hand-on exercise will be:
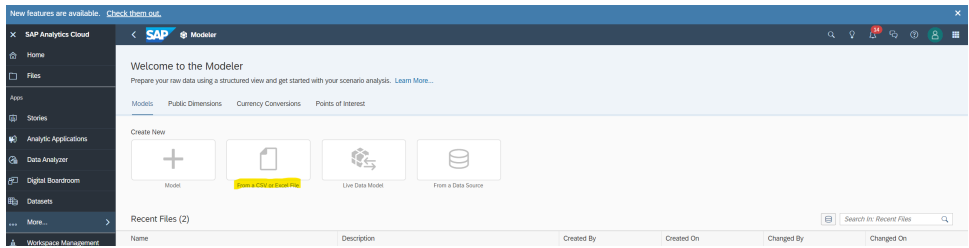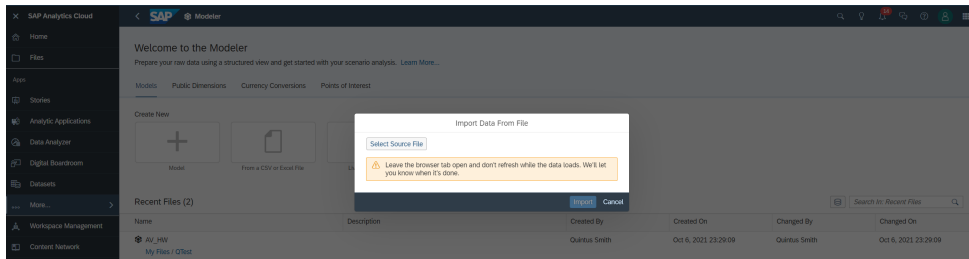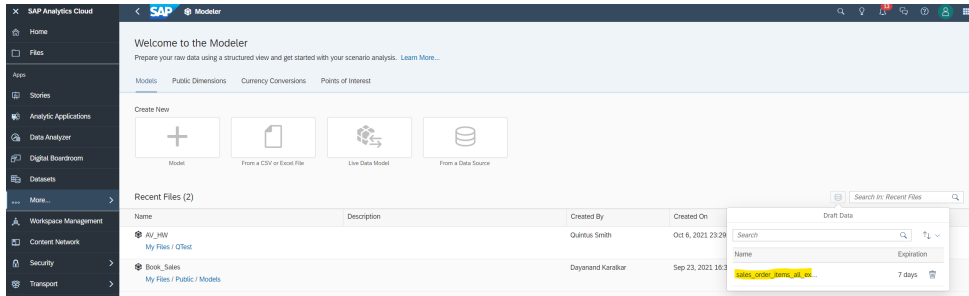
- SAP Analytics Cloud (SAC)

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

- The SAC tenant URL is available in the dedicated Microsoft Teams > General (Channel) > System Access
- Your assigned user id and password are communicated individually via email.

STEP 1 – IMPORT DATA TO MODELER
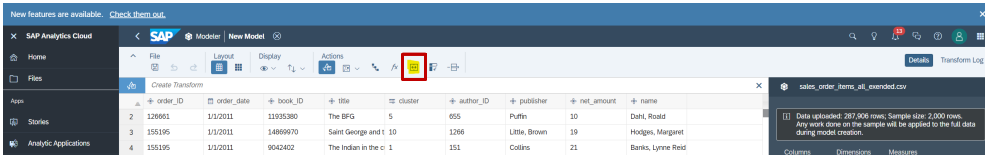
We will import the all the book sales order data through a csv file (sales_order_items_all_exended.csv) to the data modeler of SAC
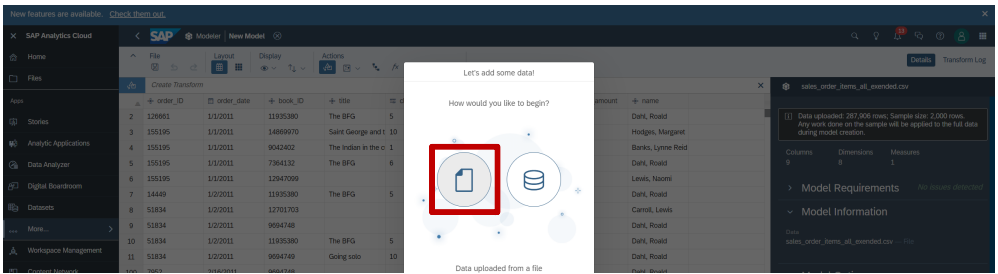
Steps	Screenshots
1. If you have not done so already – please download the btp-data-to-value-workshop Github Repository 2. Open the files and under the 00-Data Preparation download extract the file **sales_order_items_all _exended.csv** and **books.csv** 3. Save to your local computer.	
4. Go to your main menu on the left-hand side and navigate down to **More > Modeler**	

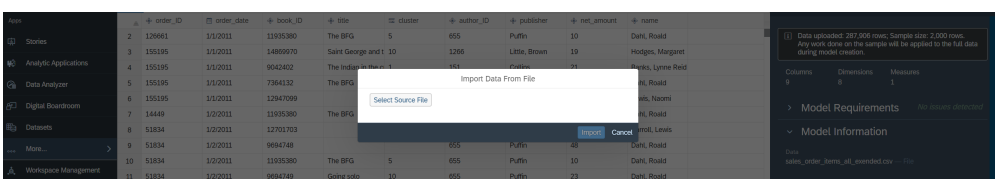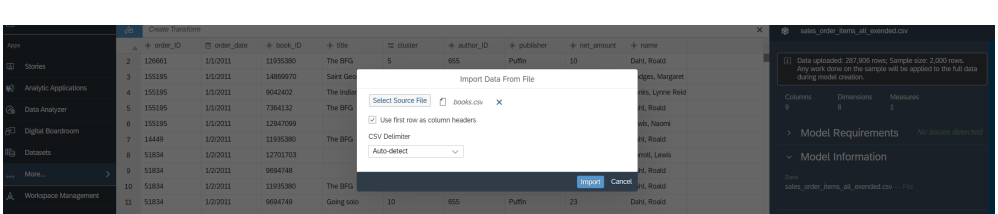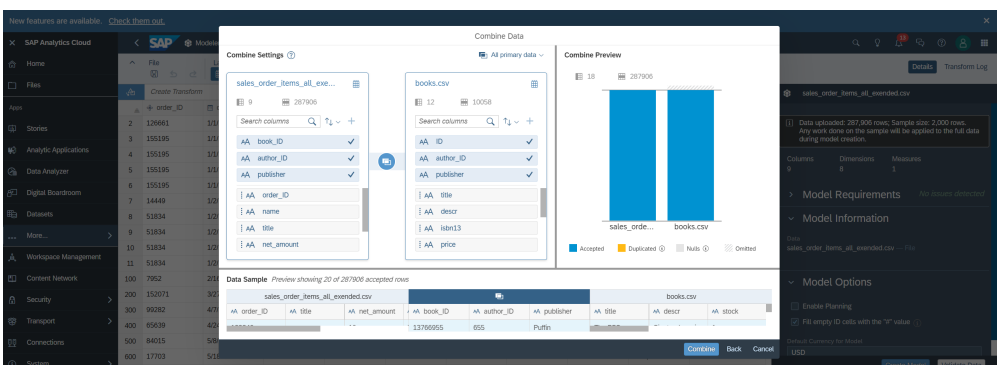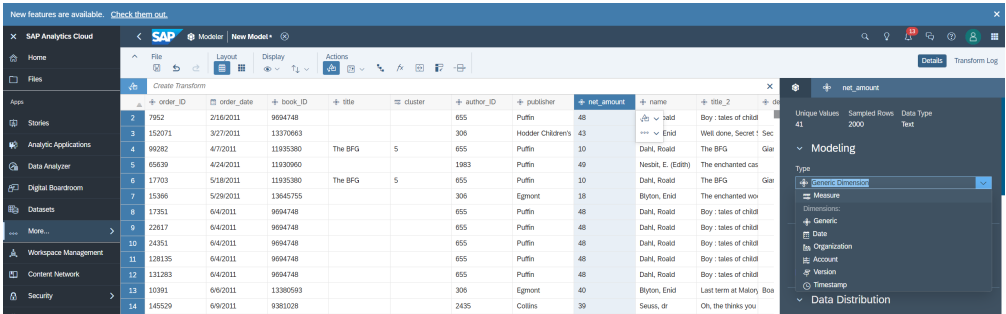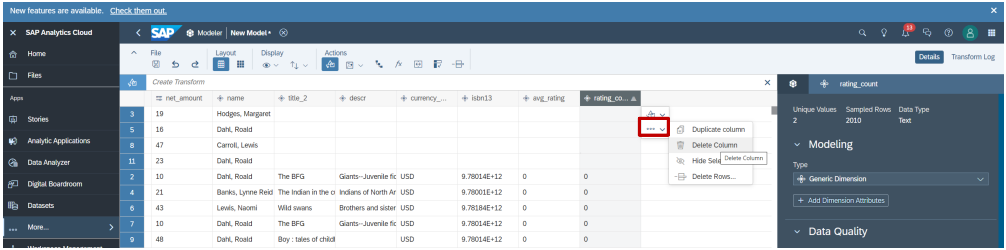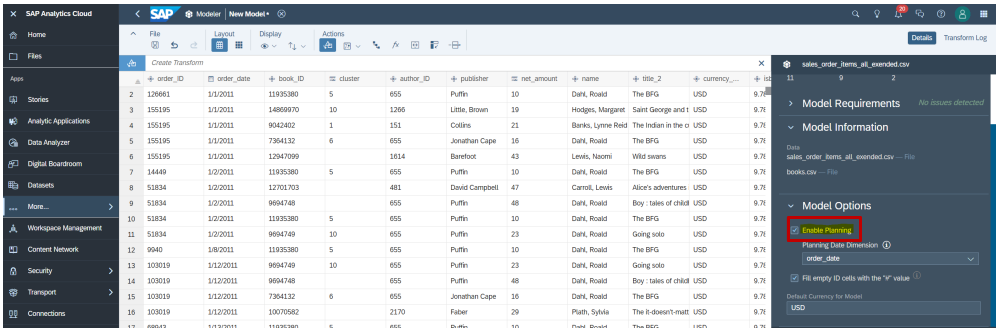| Steps	Screenshots
5. Click on **From a CSV or Excel**	
6. Click on **Select Source File** 7. Select the file **sales_order_items_all_exended.csv** from where you saved it	
8. Once it has completed the import (Can take up to 5min) you will get a pop-up message and click on the data draft to open the data model	

STEP 2 – DATA MERGE

The csv file we imported is not quite complete with all the data we need in order to build our story. Next, we will add another data file to expand the data dimensions of our dataset so we can work from one single data set while we build our story

Steps	Screenshots
1. Click on the **Combine Data** icon on top menu	

Steps	Screenshots
2. Select **Data uploaded from a file**	
3. Click on **Select Source File** and select the file **books.csv** from which you downloaded from the git hub	
4. Click on **Import** to import the second data source	
5. Next, we map the following three fields to the imported books.csv: **Book ID** (Sales Order) to **ID** (Books) **Author ID** (Sales Order) to **Author ID** (Books) **Publisher** (Sales Order) to **Publisher** (Books) 6. Click on **Combine** to merge the data to the model	

STEP 3 – DATA WRANGLING

We now have a completed dataset and next we want to clean the data a bit and narrow and define the data appropriately for our intended use

Steps	Screenshots
1. Select column **net_amount** 2. On the right data menu select the dropdown list for **Type** and select **Measure** 3. Select column **cluster** 4. On the right data menu select the dropdown list for **Type** and select **Generic Dimension**	
5. **Delete** Columns: title(no title_2), Stock, Price, descr, genre_ID, avg_rating, rating_count 6. Click on each column above, click extra options (…) and select Delete Column	
7. Check the **Enable Planning** box on the right menu	

Steps	Screenshots
5. Click on **Create Model** to finish the new data model. **Make sure to follow the naming conversion** for the model name as Book Sales-<USERID>, which will be used in the following exercise.	