



PARTNER

## **Building Intelligent and Sustainability Scenario with SAP BTP**

### **EP320-SAP Analytics Cloud Maintenance Cost & Sustainability Planning**

#### **Exercise02 – Uploading Master data into Public Dimension and Transaction Data into Maintenance Budgeting and Sustainability Planning Models**

This document will guide you step by step on the process of loading master data into Public Dimensions and actuals into Maintenance Cost Budgeting & Sustainability Planning Models.

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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 load master data into public dimensions and actuals into Maintenance Cost and Sustainability Models

## **SCENARIO**

This exercise follows the scenario you were introduced to in the demo Maintenance Cost & Sustainability Planning for Bagnoli & Co.

This exercise explains how to upload master data into the public dimensions using the CSV files. Please download the CSV file from the github.

The exercise also describes how to upload historical ( actual) maintenance cost and sustainability KPI data from a CSV file.

## ENVIRONMENT ACCESS – SAP ANALYTICS CLOUD

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

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

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

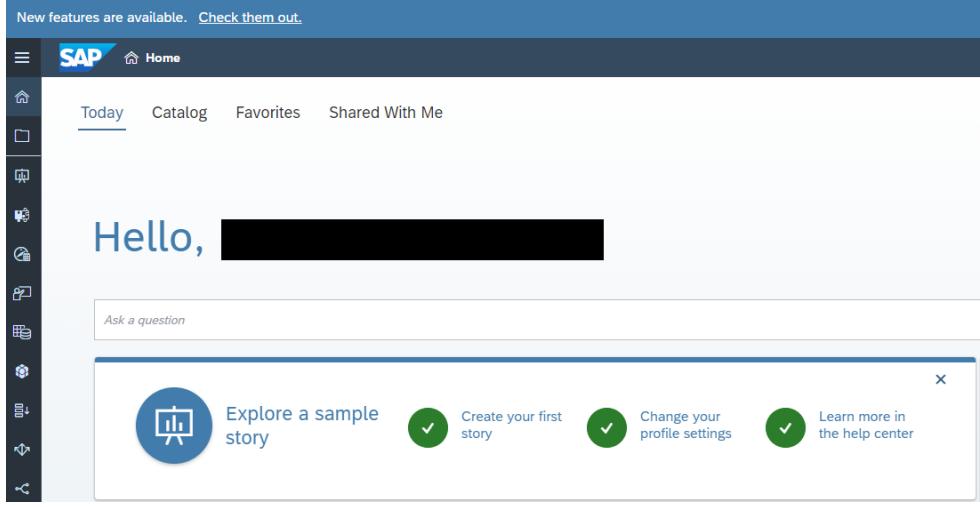
For the Bootcamp participants, please use the SAP Analytics Cloud tenant provided by SAP, and your assigned user id and password.

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

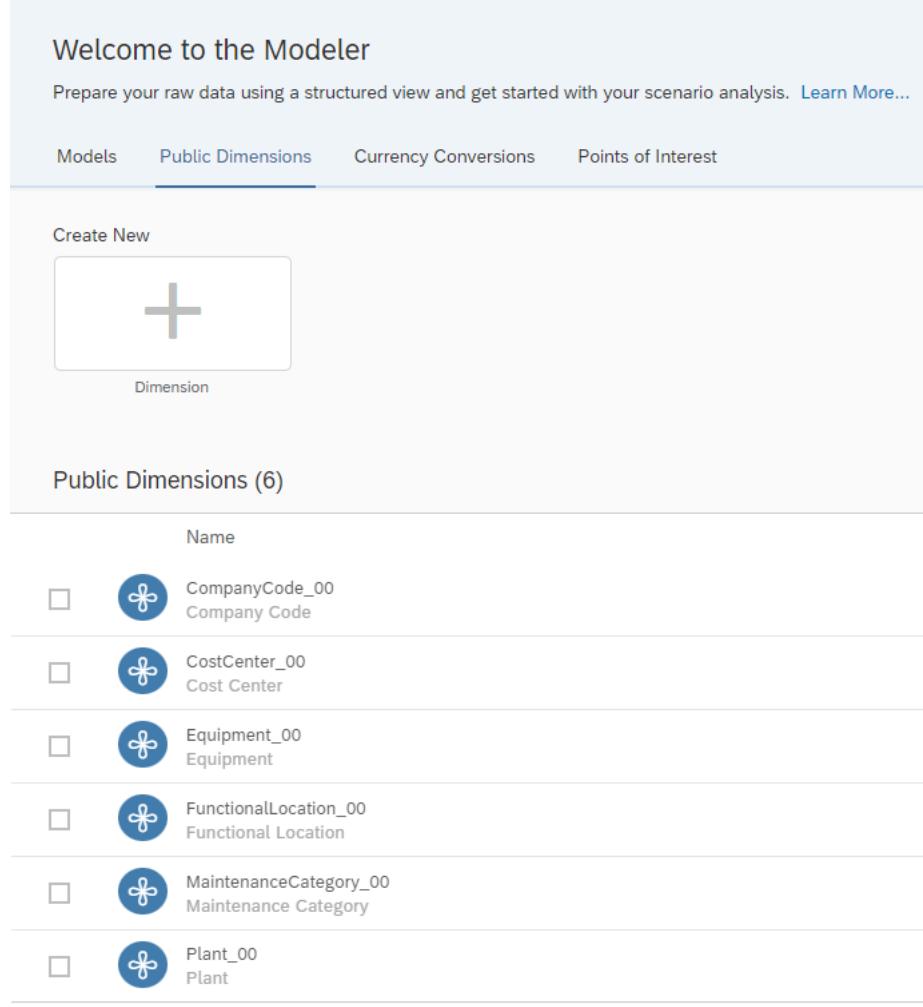
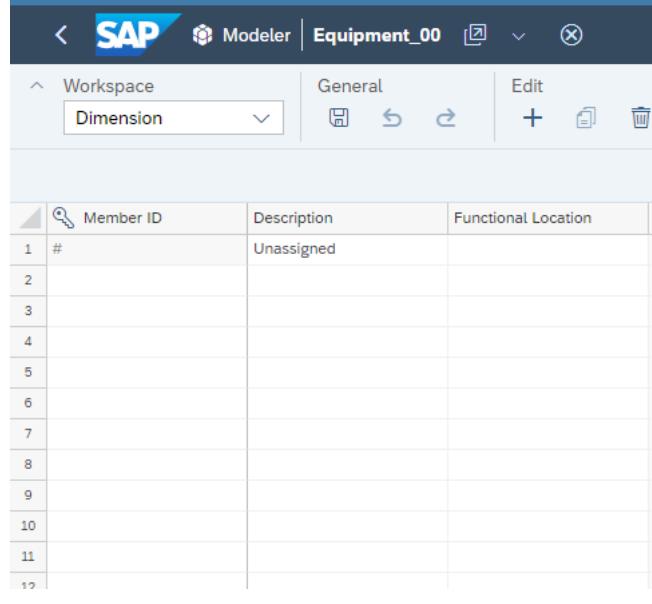
## PREREQUISITES

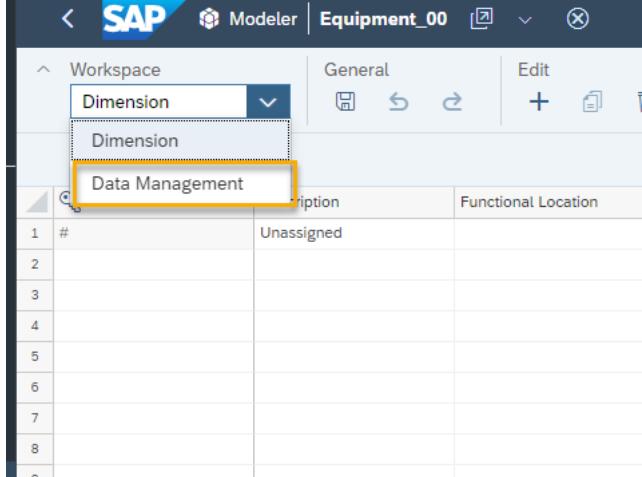
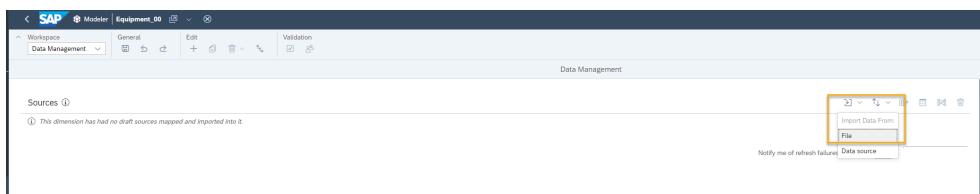
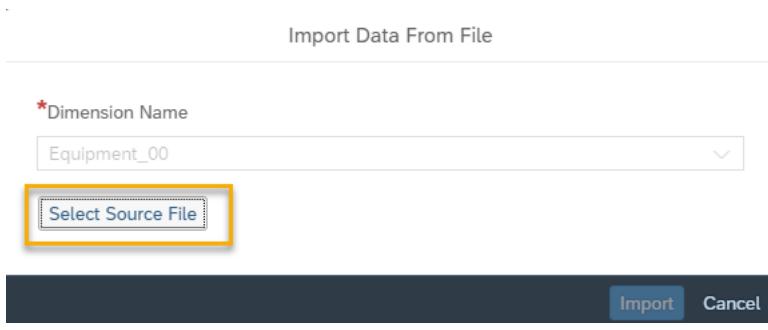
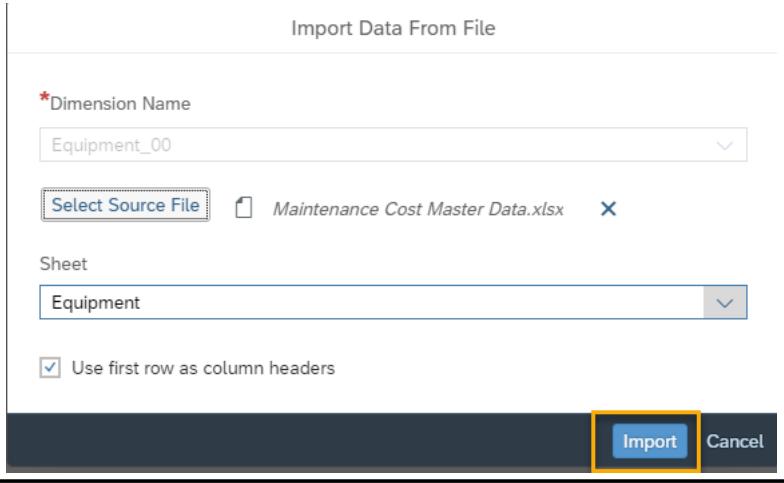
You have Access to SAP Analytics Coud

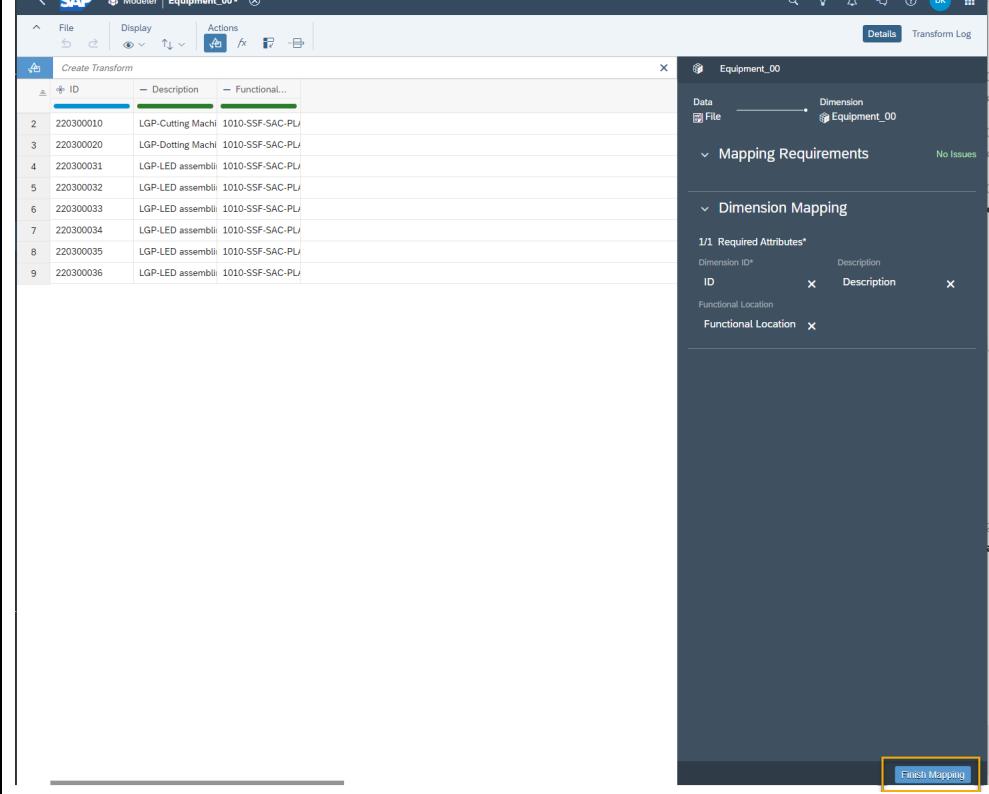
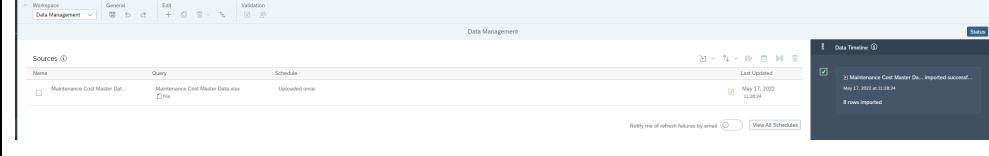
## EXERCISE STEP DETAILS

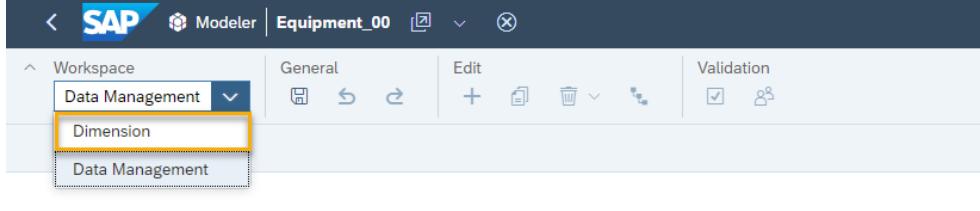
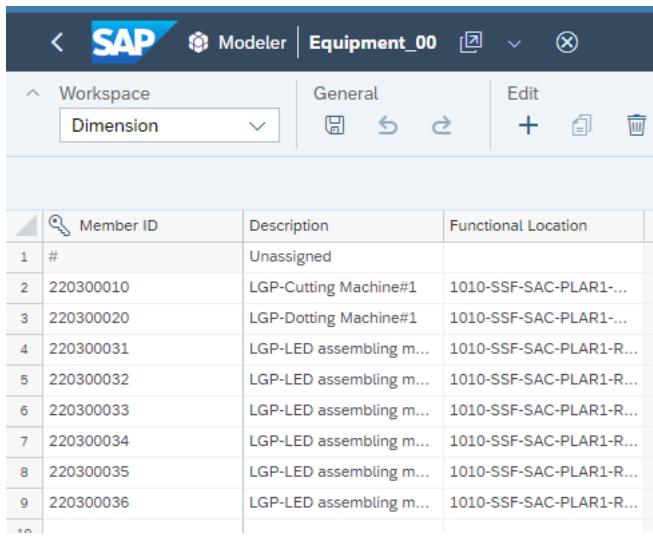
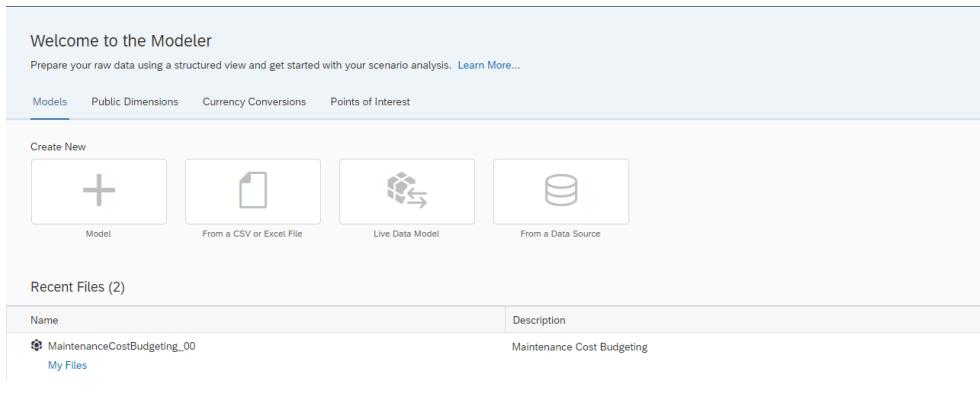
Explanation	Screenshot
<p>Log on to SAP Analytics Cloud with the given tenant URL and assigned user credential mentioned above.</p> <p>Go to the Home Screen.</p>	

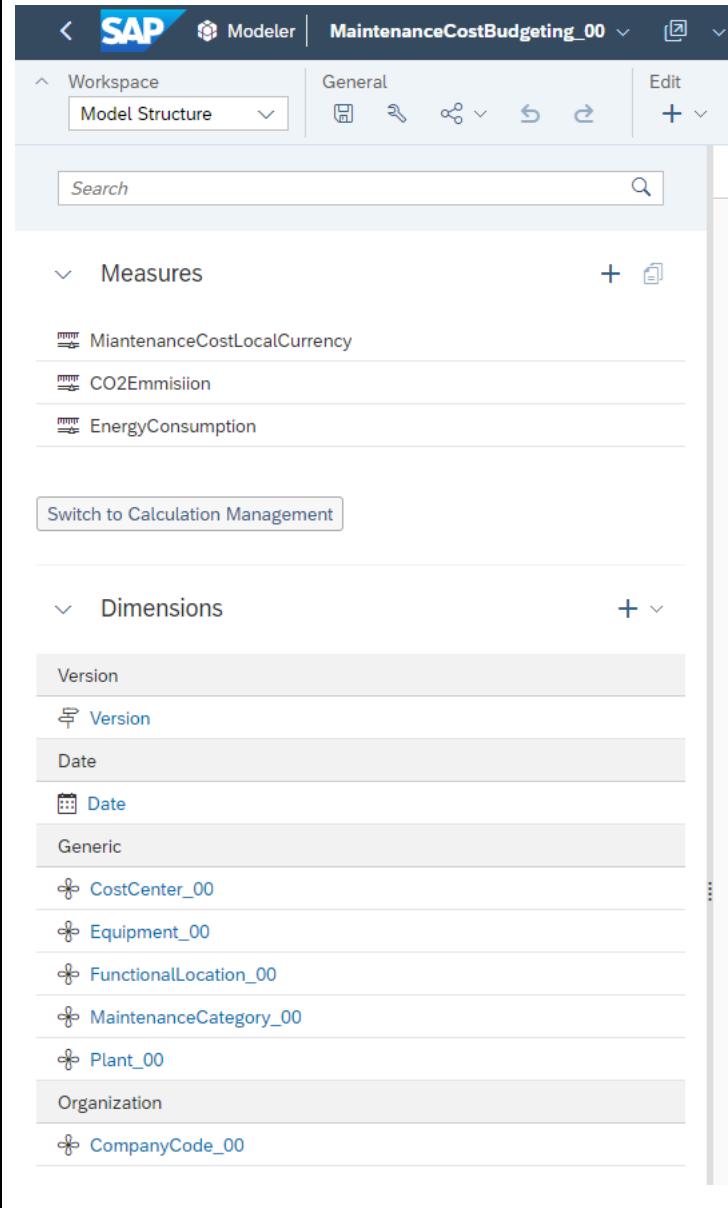
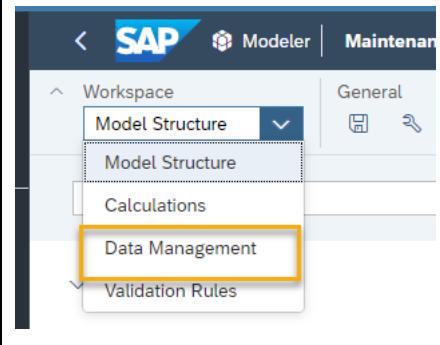
Explanation	Screenshot
<p>Click on the Modeler Icon, The system opens SAP Analytics Cloud Modeler.</p> 	
<p>Click on Public Dimensions Tab to Navigate to the Public Dimension screen</p>	

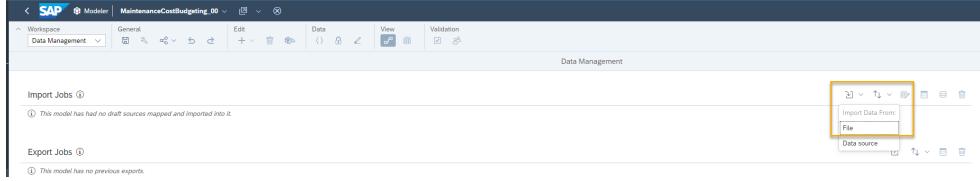
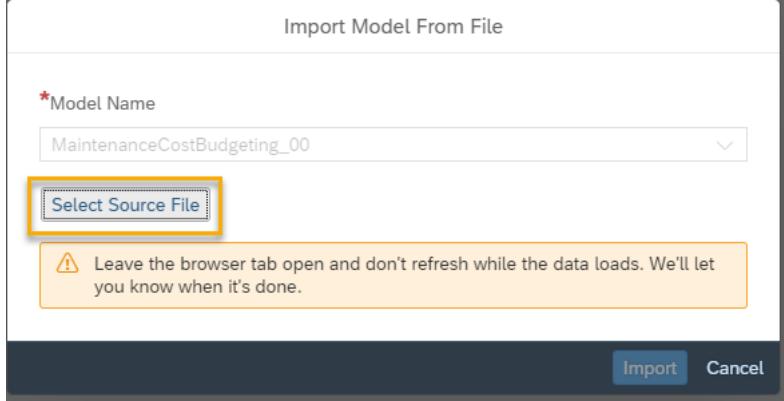
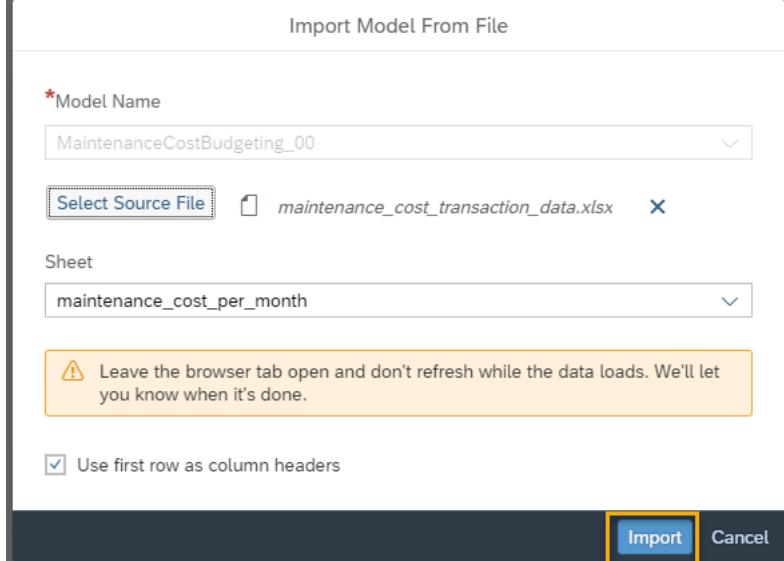
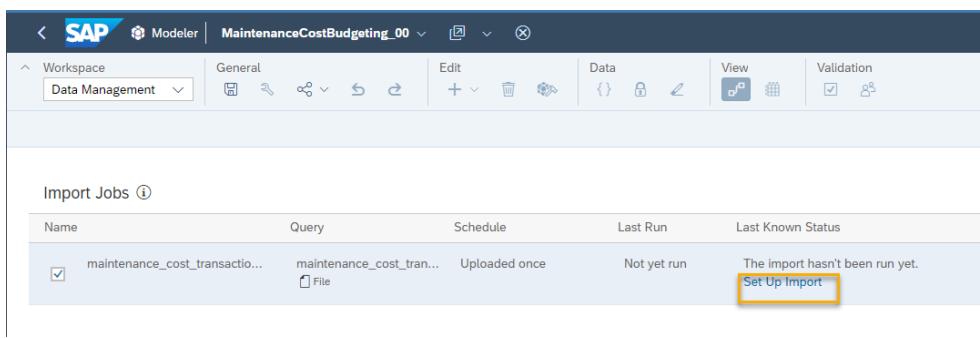
Explanation	Screenshot																																							
<p>In the search option enter your participant ID and press enter. All the public dimensions created in the exercise 1 will be displayed</p>	 <p>Welcome to the Modeler</p> <p>Prepare your raw data using a structured view and get started with your scenario analysis. <a href="#">Learn More...</a></p> <p>Models    <b>Public Dimensions</b>    Currency Conversions    Points of Interest</p> <p>Create New</p> <p>Dimension</p> <p>Public Dimensions (6)</p> <table border="1"> <thead> <tr> <th>Name</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/>  CompanyCode_00 Company Code</td> </tr> <tr> <td><input type="checkbox"/>  CostCenter_00 Cost Center</td> </tr> <tr> <td><input type="checkbox"/>  Equipment_00 Equipment</td> </tr> <tr> <td><input type="checkbox"/>  FunctionalLocation_00 Functional Location</td> </tr> <tr> <td><input type="checkbox"/>  MaintenanceCategory_00 Maintenance Category</td> </tr> <tr> <td><input type="checkbox"/>  Plant_00 Plant</td> </tr> </tbody> </table>	Name	<input type="checkbox"/>  CompanyCode_00 Company Code	<input type="checkbox"/>  CostCenter_00 Cost Center	<input type="checkbox"/>  Equipment_00 Equipment	<input type="checkbox"/>  FunctionalLocation_00 Functional Location	<input type="checkbox"/>  MaintenanceCategory_00 Maintenance Category	<input type="checkbox"/>  Plant_00 Plant																																
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<p>Click on the Equipment dimension. The modeler opens the equipment dimension.</p>	 <p>SAP Modeler   Equipment_00</p> <p>Workspace: Dimension</p> <p>General</p> <table border="1"> <thead> <tr> <th>Member ID</th> <th>Description</th> <th>Functional Location</th> </tr> </thead> <tbody> <tr> <td>1 #</td> <td>Unassigned</td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> </tr> <tr> <td>11</td> <td></td> <td></td> </tr> <tr> <td>12</td> <td></td> <td></td> </tr> </tbody> </table>	Member ID	Description	Functional Location	1 #	Unassigned		2			3			4			5			6			7			8			9			10			11			12		
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Explanation	Screenshot
In the workspace click on Data Management	
System navigates to the data Management screen. In the Data Management click on Import Data From :File	
Click Select source file ( Download the file Maintenance_Cost_Master_DATA.XLSX from <a href="https://github.com/SAP-samples/btp-ai-sustainability-bootcamp/tree/main/exercises/03-collaborative-enterprise-planning/datasets">https://github.com/SAP-samples/btp-ai-sustainability-bootcamp/tree/main/exercises/03-collaborative-enterprise-planning/datasets</a> to your local drive )	
Select the file and click on Import	

Explanation	Screenshot
<ul style="list-style-type: none"> <li>The system imports the file and shows the mapping . Observe that the columns in excel files are mapped to the corresponding fields. Click on Finish Mapping</li> </ul>	
System will ask for the confirmation. Click Finish	<p style="text-align: center;">Finish Mapping</p> <p>Have you finished mapping and editing your data? Your data will be imported to the dimension after you click finish.</p> <div style="text-align: right; background-color: black; color: white; padding: 5px; margin-top: 10px;"> <span style="border: 1px solid blue; padding: 2px 10px; margin-right: 10px;">Finish</span> <span style="border: 1px solid blue; padding: 2px 10px;">Cancel</span> </div>
System will provide the confirmation of the import job	

Explanation	Screenshot																														
In the Workspace select Dimension	 <p>The screenshot shows the SAP Modeler interface with the title bar "SAP Modeler   Equipment_00". In the top-left corner, there is a dropdown menu labeled "Workspace" with "Data Management" selected. Below this, a sub-menu is open with "Dimension" highlighted and selected. The main workspace area is titled "Sources" and contains a table with one row:</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Query</th> <th>Schedule</th> </tr> </thead> <tbody> <tr> <td>Maintenance Cost Master Dat...</td> <td>Maintenance Cost Master Data.xlsx</td> <td>Uploaded once</td> </tr> </tbody> </table>	Name	Query	Schedule	Maintenance Cost Master Dat...	Maintenance Cost Master Data.xlsx	Uploaded once																								
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Maintenance Cost Master Dat...	Maintenance Cost Master Data.xlsx	Uploaded once																													
The master data is available in the Equipment dimension	 <p>The screenshot shows the SAP Modeler interface with the title bar "SAP Modeler   Equipment_00". The workspace dropdown now shows "Dimension" selected. The main workspace area displays a table of equipment master data:</p> <table border="1"> <thead> <tr> <th>Member ID</th> <th>Description</th> <th>Functional Location</th> </tr> </thead> <tbody> <tr> <td>1 #</td> <td>Unassigned</td> <td></td> </tr> <tr> <td>2 220300010</td> <td>LGP-Cutting Machine#1</td> <td>1010-SSF-SAC-PLAR1-R...</td> </tr> <tr> <td>3 220300020</td> <td>LGP-Dotting Machine#1</td> <td>1010-SSF-SAC-PLAR1-R...</td> </tr> <tr> <td>4 220300031</td> <td>LGP-LED assembling m...</td> <td>1010-SSF-SAC-PLAR1-R...</td> </tr> <tr> <td>5 220300032</td> <td>LGP-LED assembling m...</td> <td>1010-SSF-SAC-PLAR1-R...</td> </tr> <tr> <td>6 220300033</td> <td>LGP-LED assembling m...</td> <td>1010-SSF-SAC-PLAR1-R...</td> </tr> <tr> <td>7 220300034</td> <td>LGP-LED assembling m...</td> <td>1010-SSF-SAC-PLAR1-R...</td> </tr> <tr> <td>8 220300035</td> <td>LGP-LED assembling m...</td> <td>1010-SSF-SAC-PLAR1-R...</td> </tr> <tr> <td>9 220300036</td> <td>LGP-LED assembling m...</td> <td>1010-SSF-SAC-PLAR1-R...</td> </tr> </tbody> </table>	Member ID	Description	Functional Location	1 #	Unassigned		2 220300010	LGP-Cutting Machine#1	1010-SSF-SAC-PLAR1-R...	3 220300020	LGP-Dotting Machine#1	1010-SSF-SAC-PLAR1-R...	4 220300031	LGP-LED assembling m...	1010-SSF-SAC-PLAR1-R...	5 220300032	LGP-LED assembling m...	1010-SSF-SAC-PLAR1-R...	6 220300033	LGP-LED assembling m...	1010-SSF-SAC-PLAR1-R...	7 220300034	LGP-LED assembling m...	1010-SSF-SAC-PLAR1-R...	8 220300035	LGP-LED assembling m...	1010-SSF-SAC-PLAR1-R...	9 220300036	LGP-LED assembling m...	1010-SSF-SAC-PLAR1-R...
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Repeat the Above steps for all other dimensions																															
<b>Load Actual Maintenance cost</b>																															
In the search option enter your participant ID and press enter. The model you have created in exercise 1 will be displayed	 <p>Welcome to the Modeler Prepare your raw data using a structured view and get started with your scenario analysis. <a href="#">Learn More...</a></p> <p>Models   Public Dimensions   Currency Conversions   Points of Interest</p> <p>Create New</p> <ul style="list-style-type: none"> <li>Model</li> <li>From a CSV or Excel File</li> <li>Live Data Model</li> <li>From a Data Source</li> </ul> <p>Recent Files (2)</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>MaintenanceCostBudgeting_00 My Files</td> <td>Maintenance Cost Budgeting</td> </tr> </tbody> </table>	Name	Description	MaintenanceCostBudgeting_00 My Files	Maintenance Cost Budgeting																										
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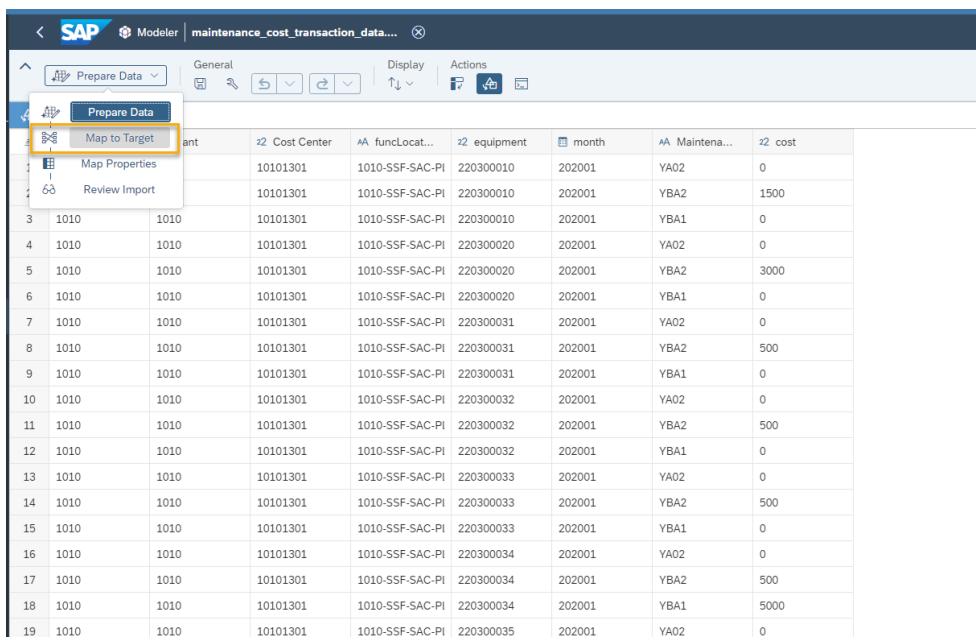
Explanation	Screenshot
<p>Click on the model. The molder opens the model with Model structure view</p>	
<p>In the workspace click on Data Management</p>	

Explanation	Screenshot
<p>The Data Management Screen opens. In the Data management select Import Data From : File</p>	
<p>Click Select Source File ( Download file maintenance_cost_permonth.xlsx from <a href="https://github.com/SAP-samples/btp-ai-sustainability-bootcamp/tree/main/exercises/03-collaborative-enterprise-planning/datasets">https://github.com/SAP-samples/btp-ai-sustainability-bootcamp/tree/main/exercises/03-collaborative-enterprise-planning/datasets</a> to your local drive)</p>	
<p>Select the file. Make sure the "maintenance_cost_permonth" worksheet is selected. Click on Import</p>	
<p>The file gets uploaded successfully. Click on Set up Import</p>	

## Explanation

The system open the Data Preparation step . Click on Map to Target

## Screenshot

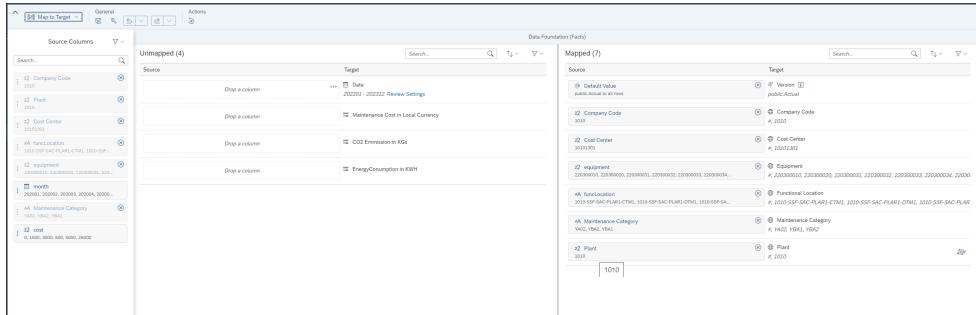


Plant	z2 Cost Center	AA funcLocat...	z2 equipment	month	AA Maintena...	z2 cost
1010	10101301	1010-SSF-SAC-PI	220300010	202001	YA02	0
1010	10101301	1010-SSF-SAC-PI	220300010	202001	YBA2	1500
1010	10101301	1010-SSF-SAC-PI	220300010	202001	YBA1	0
1010	10101301	1010-SSF-SAC-PI	220300020	202001	YA02	0
1010	10101301	1010-SSF-SAC-PI	220300020	202001	YBA2	3000
1010	10101301	1010-SSF-SAC-PI	220300020	202001	YBA1	0
1010	10101301	1010-SSF-SAC-PI	220300031	202001	YA02	0
1010	10101301	1010-SSF-SAC-PI	220300031	202001	YBA2	500
1010	10101301	1010-SSF-SAC-PI	220300031	202001	YBA1	0
1010	10101301	1010-SSF-SAC-PI	220300032	202001	YA02	0
1010	10101301	1010-SSF-SAC-PI	220300032	202001	YBA2	500
1010	10101301	1010-SSF-SAC-PI	220300032	202001	YBA1	0
1010	10101301	1010-SSF-SAC-PI	220300033	202001	YA02	0
1010	10101301	1010-SSF-SAC-PI	220300033	202001	YBA2	500
1010	10101301	1010-SSF-SAC-PI	220300034	202001	YA02	0
1010	10101301	1010-SSF-SAC-PI	220300034	202001	YBA2	500
1010	10101301	1010-SSF-SAC-PI	220300034	202001	YBA1	5000
1010	10101301	1010-SSF-SAC-PI	220300035	202001	YA02	0

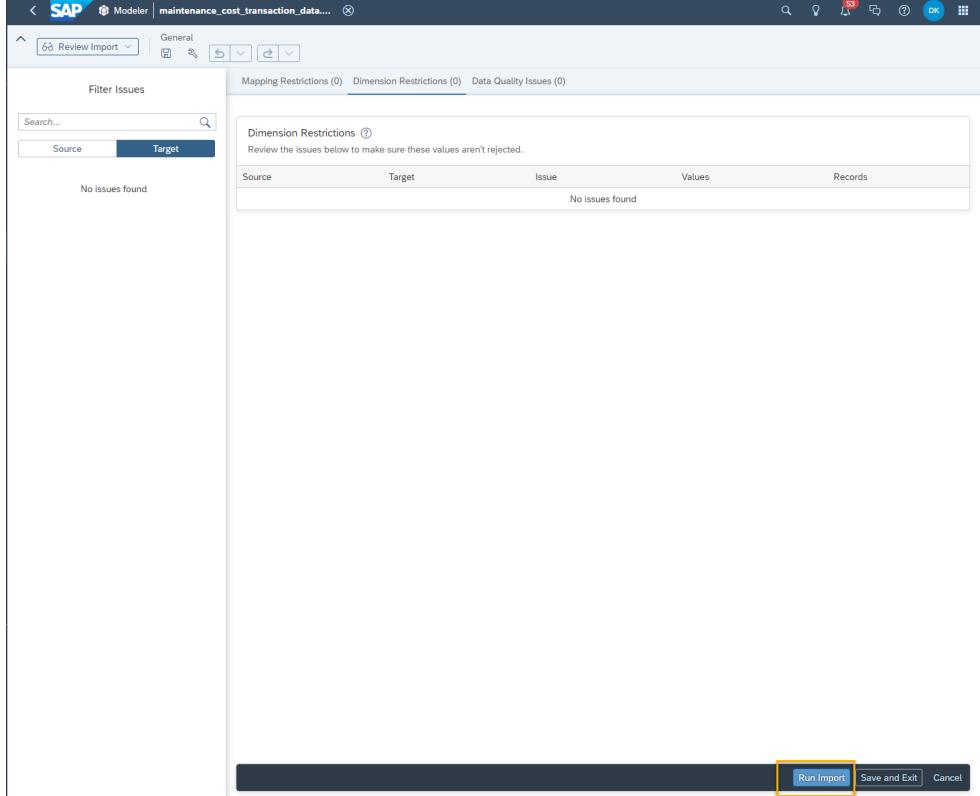
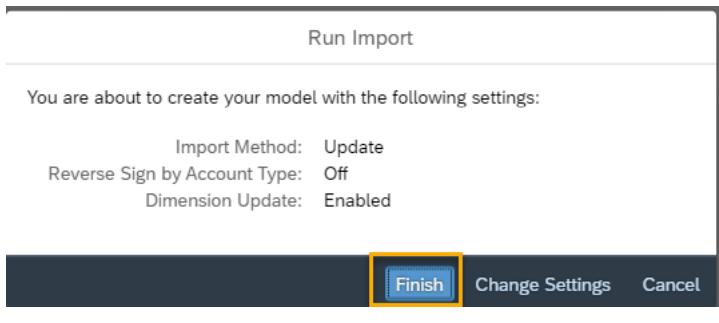
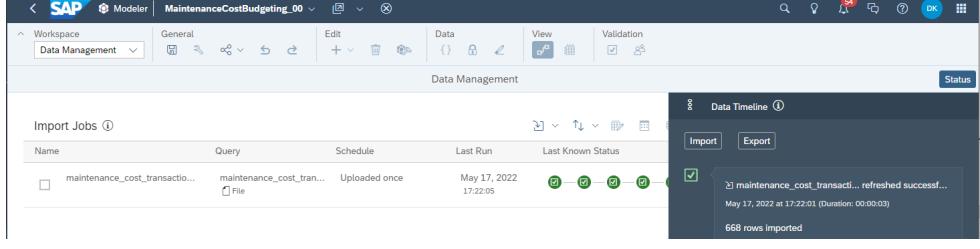
Most of the excel columns are mapped to corresponding dimension by default.

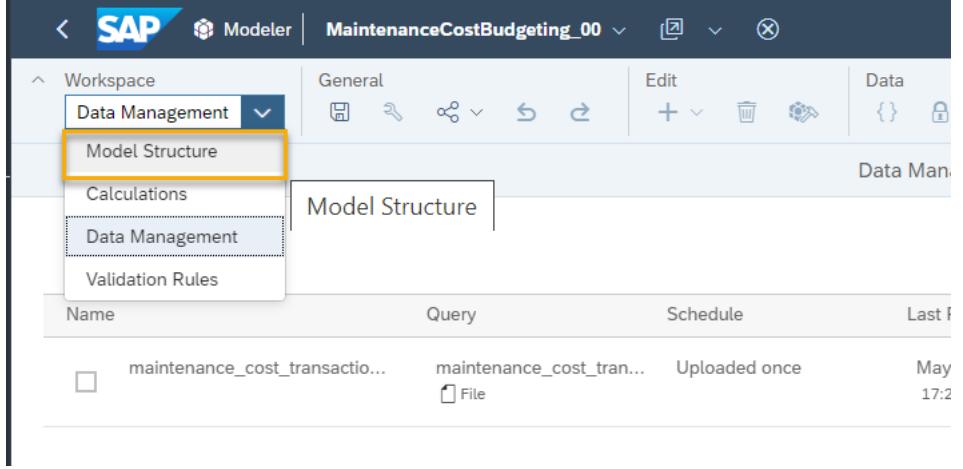
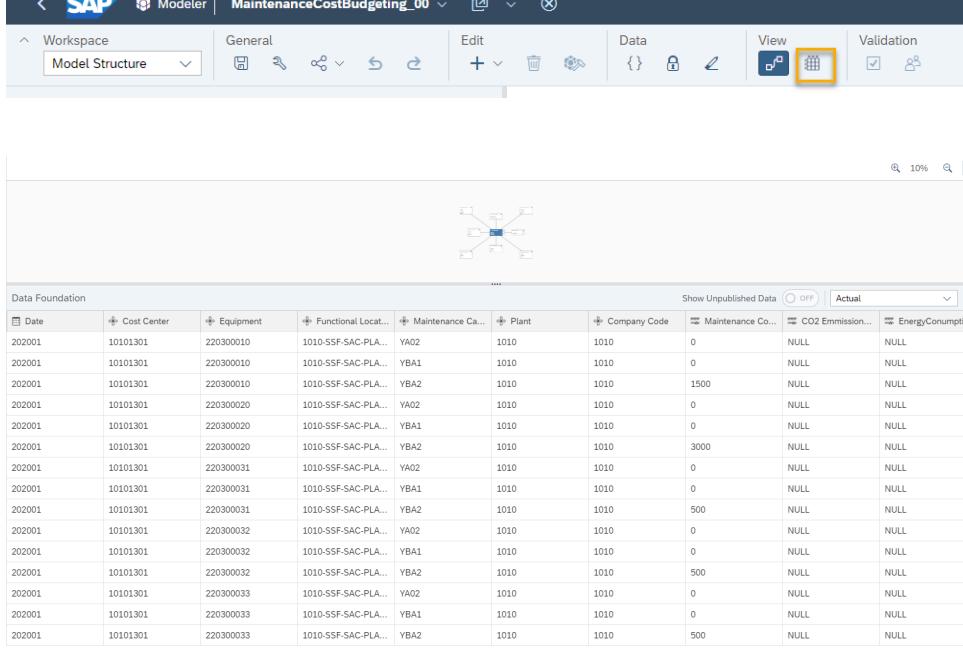
Drag the month column from Source and Drop it on Date dimension.

Drag the cost Column and drop it on Maintenance Cost Local Currency. All the columns from the source are now mapped to the target. Click Next.



Explanation	Screenshot																				
	<p>Mapped (9)</p> <table border="1"> <thead> <tr> <th>Source</th> <th>Target</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> Default Value public.Actual to all rows</td> <td><input type="checkbox"/> Version <a href="#">[i]</a> public.Actual</td> </tr> <tr> <td><input type="checkbox"/> month 202001, 202002, 202003, 202004, 202005, 202006, 202007, 202008, 202...</td> <td><input type="checkbox"/> Date 202201 - 202312 <a href="#">Review Settings</a></td> </tr> <tr> <td><input type="checkbox"/> z2 Company Code 1010</td> <td><input type="checkbox"/> Company Code #, 1010</td> </tr> <tr> <td><input type="checkbox"/> z2 Cost Center 10101301</td> <td><input type="checkbox"/> Cost Center #, 10101301</td> </tr> <tr> <td><input type="checkbox"/> z2 equipment 220300010, 220300020, 220300031, 220300032, 220300033, 220300034...</td> <td><input type="checkbox"/> Equipment #, 220300010, 220300020, 220300031, 220300032, 220300033, 220300034, 2203...</td> </tr> <tr> <td><input type="checkbox"/> AA funcLocation 1010-SSF-SAC-PLAR1-CTM1, 1010-SSF-SAC-PLAR1-DTM1, 1010-SSF-SA...</td> <td><input type="checkbox"/> Functional Location #, 1010-SSF-SAC-PLAR1-CTM1, 1010-SSF-SAC-PLAR1-DTM1, 1010-SSF-SAC-PLAR...</td> </tr> <tr> <td><input type="checkbox"/> AA Maintenance Category YA02, YBA2, YBA1</td> <td><input type="checkbox"/> Maintenance Category #, YA02, YBA1, YBA2</td> </tr> <tr> <td><input type="checkbox"/> z2 Plant 1010</td> <td><input type="checkbox"/> Plant #, 1010</td> </tr> <tr> <td><input type="checkbox"/> z2 cost 0, 1500, 3000, 500, 5000, 26000</td> <td><input type="checkbox"/> Maintenance Cost in Local Currency</td> </tr> </tbody> </table> <p style="text-align: right;"><a href="#">Next</a> <a href="#">Save and Exit</a> <a href="#">Cancel</a></p>	Source	Target	<input type="checkbox"/> Default Value public.Actual to all rows	<input type="checkbox"/> Version <a href="#">[i]</a> public.Actual	<input type="checkbox"/> month 202001, 202002, 202003, 202004, 202005, 202006, 202007, 202008, 202...	<input type="checkbox"/> Date 202201 - 202312 <a href="#">Review Settings</a>	<input type="checkbox"/> z2 Company Code 1010	<input type="checkbox"/> Company Code #, 1010	<input type="checkbox"/> z2 Cost Center 10101301	<input type="checkbox"/> Cost Center #, 10101301	<input type="checkbox"/> z2 equipment 220300010, 220300020, 220300031, 220300032, 220300033, 220300034...	<input type="checkbox"/> Equipment #, 220300010, 220300020, 220300031, 220300032, 220300033, 220300034, 2203...	<input type="checkbox"/> AA funcLocation 1010-SSF-SAC-PLAR1-CTM1, 1010-SSF-SAC-PLAR1-DTM1, 1010-SSF-SA...	<input type="checkbox"/> Functional Location #, 1010-SSF-SAC-PLAR1-CTM1, 1010-SSF-SAC-PLAR1-DTM1, 1010-SSF-SAC-PLAR...	<input type="checkbox"/> AA Maintenance Category YA02, YBA2, YBA1	<input type="checkbox"/> Maintenance Category #, YA02, YBA1, YBA2	<input type="checkbox"/> z2 Plant 1010	<input type="checkbox"/> Plant #, 1010	<input type="checkbox"/> z2 cost 0, 1500, 3000, 500, 5000, 26000	<input type="checkbox"/> Maintenance Cost in Local Currency
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System inform us that all rows are assigned to version dimension. Click Next	<p>Dimension Properties</p> <p>Public dimensions are excluded from the list below. To update their members and properties, manage your imports directly in each public dimension.</p> <p><input type="checkbox"/> Version <a href="#">[i]</a></p> <p>All rows have been assigned the default value "public.Actual".</p> <p>No additional action is required</p>																				

Explanation	Screenshot
<p>System validates the records without any issues. click on Run Import</p>	
<p>System provides information about the import setting. Click on Finish</p>	
<p>The data will be imported successfully in the model.</p>	

Explanation	Screenshot
In the workspace select Model Structure	 <p>The screenshot shows the SAP Modeler interface with the 'Model Structure' tab selected in the left-hand navigation pane. The main area displays a table with columns for Name, Query, Schedule, and Last. A single row is visible, representing a maintenance cost transaction.</p>
Click  in the view menu to get the Data Preview	 <p>The screenshot shows the SAP Modeler interface with the 'View' menu open, highlighting the 'Data Preview' option. Below the menu, a preview of the data foundation is shown, featuring a network diagram and a table with historical maintenance cost data.</p>
We have successfully uploaded the historical maintenance cost in the model	

## Explanation

Repeat the same process to upload the CO2 Emission and energy consumption per equipment data into the maintenance cost model

## Screenshot

Import the excle file with energy data

The screenshot shows the SAP Modeler interface for importing data. In the top left, there's a table for 'Import Jobs' with one entry: 'maintenance\_cost\_transaction\_data.xlsx' uploaded on May 17, 2022, at 17:22:05. Below it is a table for 'Export Jobs' which is currently empty. On the right, a large dialog box titled 'Import Model From File' is open. It has fields for 'Model Name' (set to 'MaintenanceCostBudgeting\_00'), 'Select Source File' (set to 'maintenance\_cost\_transaction\_data.xlsx'), and 'Sheet' (set to 'Energy\_Consumption'). A note says 'Leave the browser tab open and don't refresh while the data loads. We'll let you know when it's done.' There's also a checked checkbox for 'Use first row as column headers'. At the bottom are 'Import' and 'Cancel' buttons.

Prepare data:-

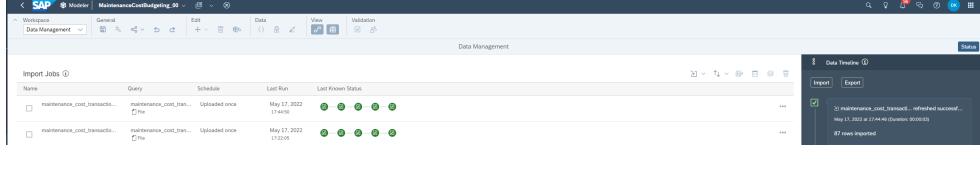
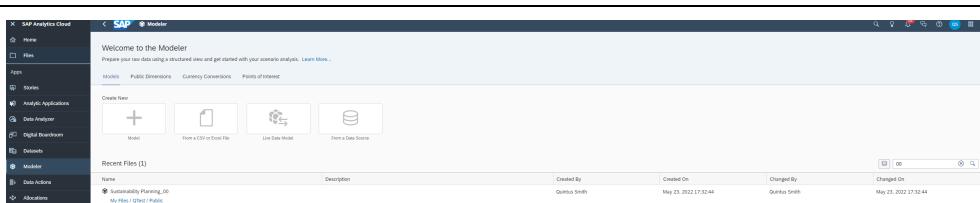
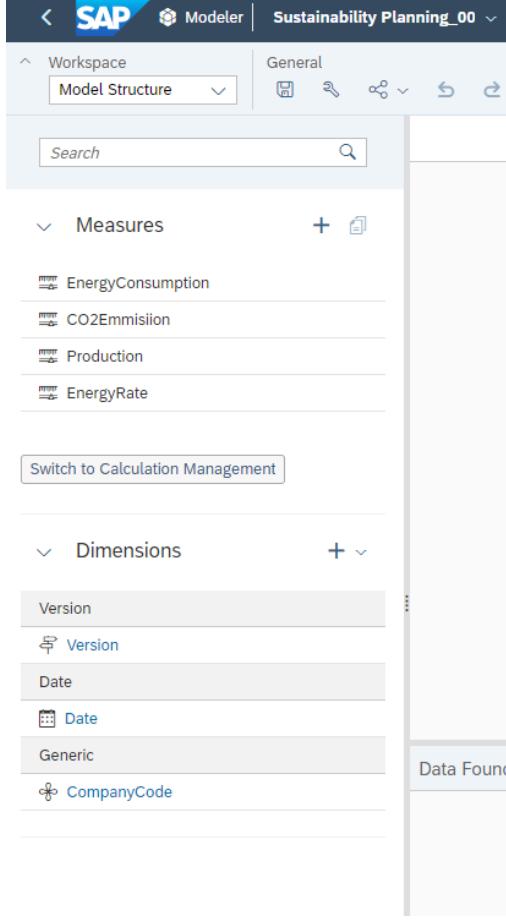
This screenshot shows the 'Prepare Data' interface in SAP Modeler. The title bar indicates the file is 'maintenance\_cost\_transaction\_data.xlsx'. The main area displays a table with 16 rows of data, mapping columns like 'year\_month', 'Machine', 'MachineE...', 'MachineC...', 'Functiona...', 'Company ...', 'Plant', and 'Coct Center'.

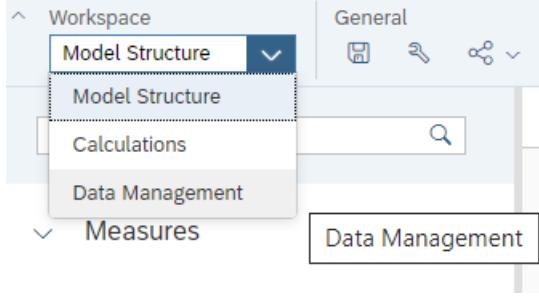
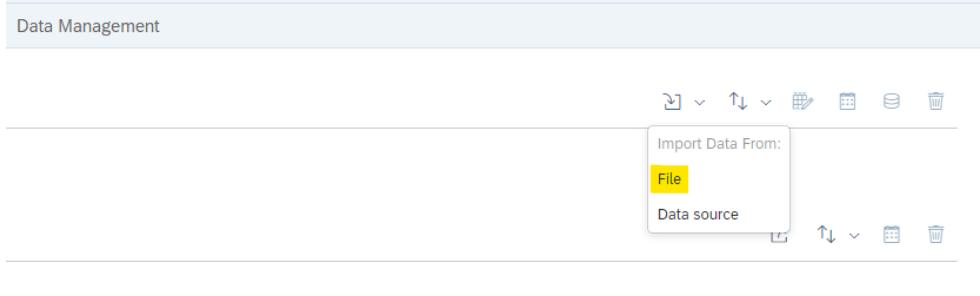
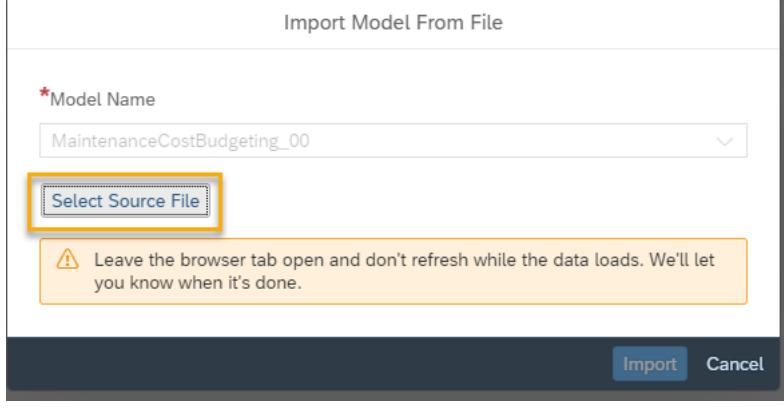
	year_month	Machine	MachineE...	MachineC...	Functiona...	Company ...	Plant	Coct Center
1	202001	220300010	2732.355964	82.2439145	1010-SSF-SAC-PI	1010	1010	10101301
2	202001	220300034	1.982340829	0.059668459	1010-SSF-SAC-PI	1010	1010	10101301
3	202001	220300035	1.983377029	0.059699649	1010-SSF-SAC-PI	1010	1010	10101301
4	202001	220300036	1.980647297	0.059617484	1010-SSF-SAC-PI	1010	1010	10101301
5	202002	220300010	2784.676047	83.81874901	1010-SSF-SAC-PI	1010	1010	10101301
6	202003	220300010	2515.129579	75.70540034	1010-SSF-SAC-PI	1010	1010	10101301
7	202003	220300031	1.986515576	0.059794119	1010-SSF-SAC-PI	1010	1010	10101301
8	202003	220300033	2.004266675	0.060328427	1010-SSF-SAC-PI	1010	1010	10101301
9	202003	220300036	2.011160822	0.060535941	1010-SSF-SAC-PI	1010	1010	10101301
10	202004	220300010	3275.391767	98.58929219	1010-SSF-SAC-PI	1010	1010	10101301
11	202005	220300010	3078.02528	92.64856091	1010-SSF-SAC-PI	1010	1010	10101301
12	202006	220300010	3068.840592	92.37210181	1010-SSF-SAC-PI	1010	1010	10101301
13	202006	220300031	1.973489774	0.059402042	1010-SSF-SAC-PI	1010	1010	10101301
14	202006	220300035	1.987200344	0.05981473	1010-SSF-SAC-PI	1010	1010	10101301
15	202006	220300036	2.010493236	0.060515846	1010-SSF-SAC-PI	1010	1010	10101301
16	202007	220300010	2699.864971	81.26593562	1010-SSF-SAC-PI	1010	1010	10101301

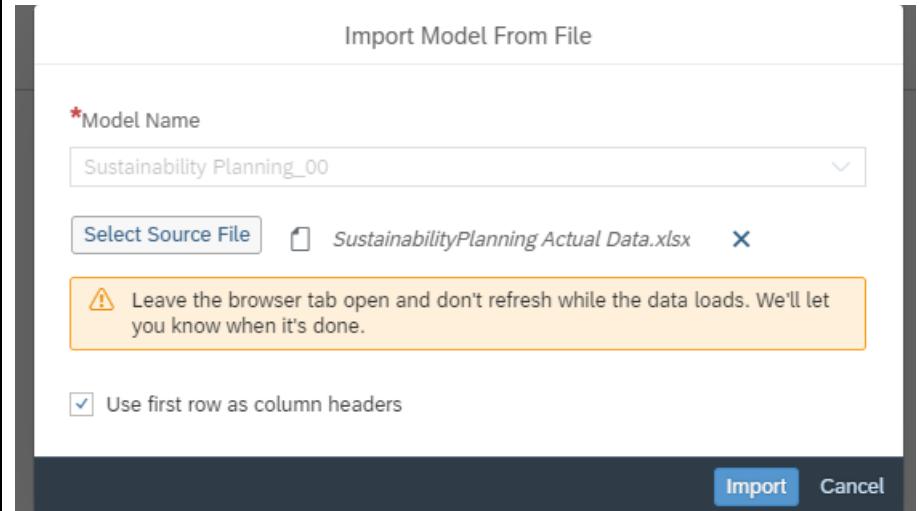
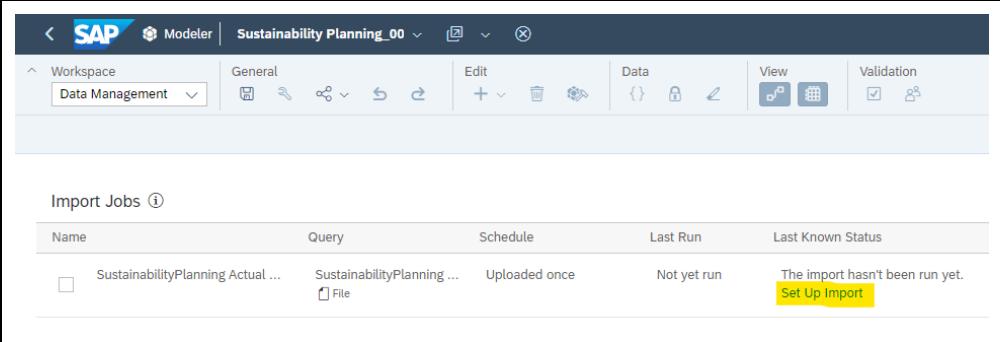
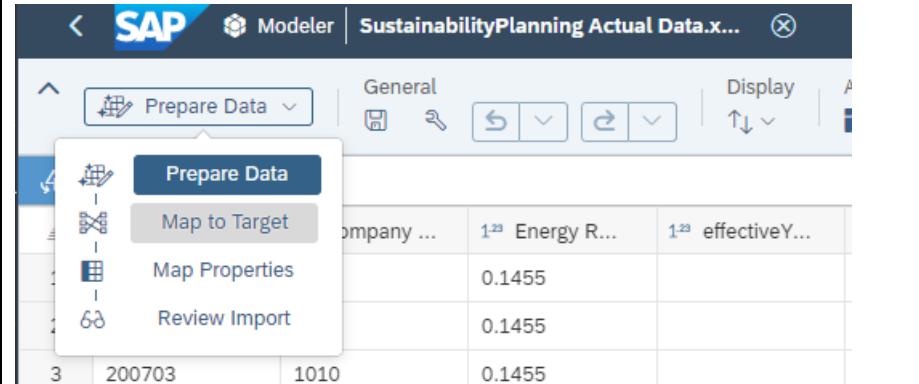
Mapping ( Set Maintenance Category to #)

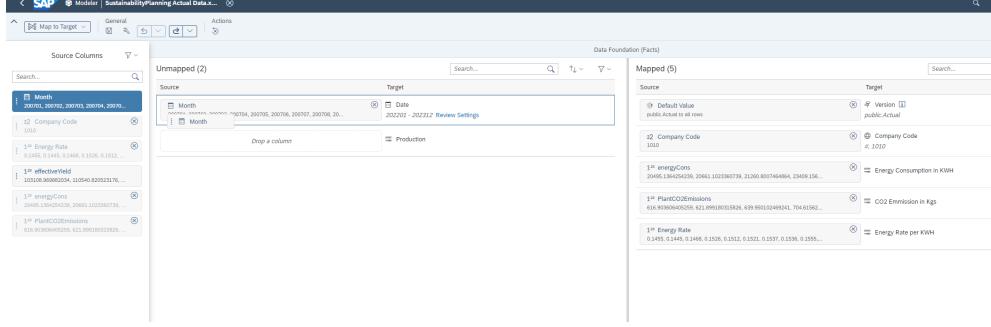
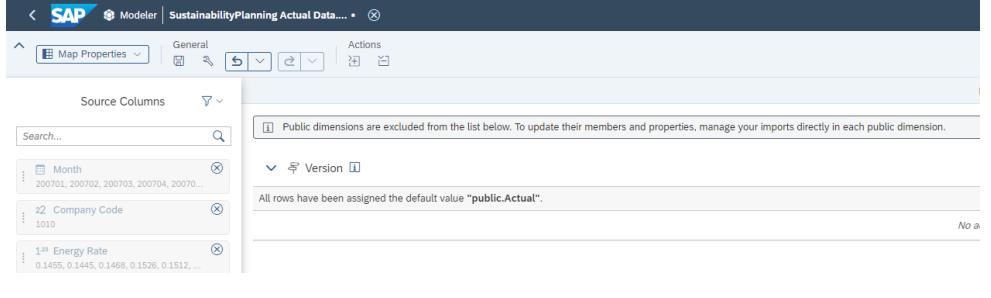
This screenshot shows the 'Map To Target' interface in SAP Modeler. It maps source columns from 'maintenance\_cost\_transaction\_data.xlsx' to various target tables in the 'Data Foundation (Fact)'. The 'Source' column lists columns like 'year\_month', 'Machine', 'MachineE...', etc. The 'Target' column lists tables like 'Maintenance Cost in Local Currency', 'Date', 'Company Code', 'Coct Center', 'Equipment', 'Financial Location', 'Maintenance Category', 'Plant', and 'CO2 Emission in Kt'. A note at the bottom says 'Leave the browser tab open and don't refresh while the data loads. We'll let you know when it's done.'

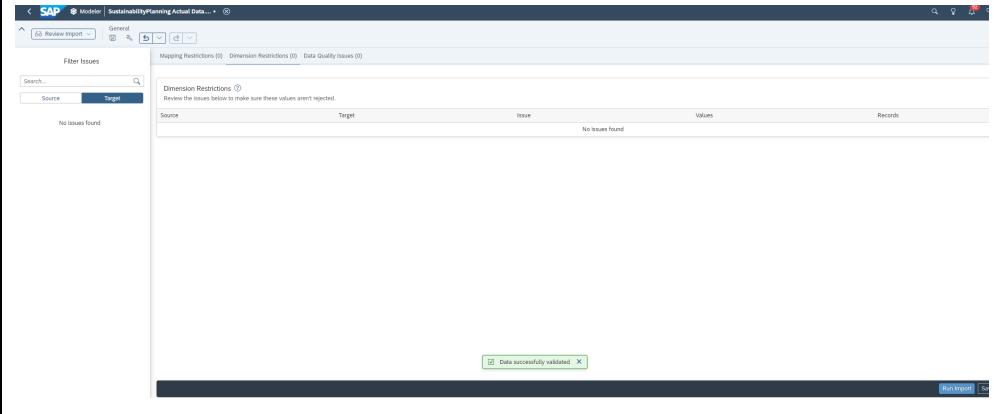
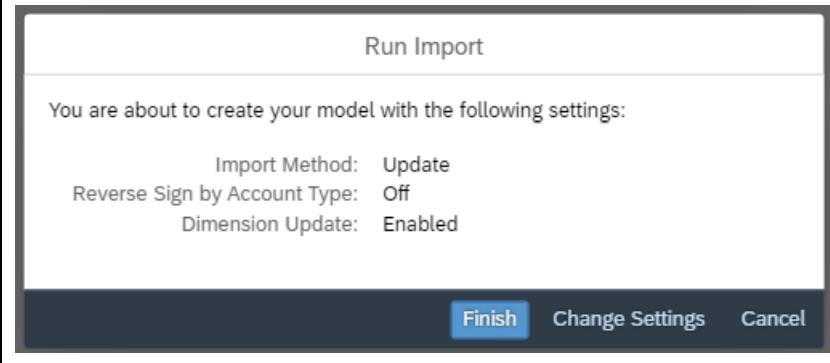
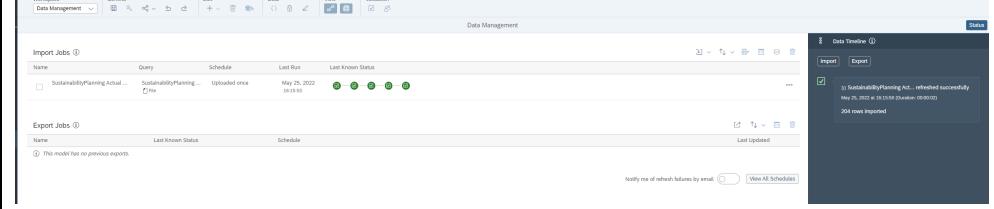
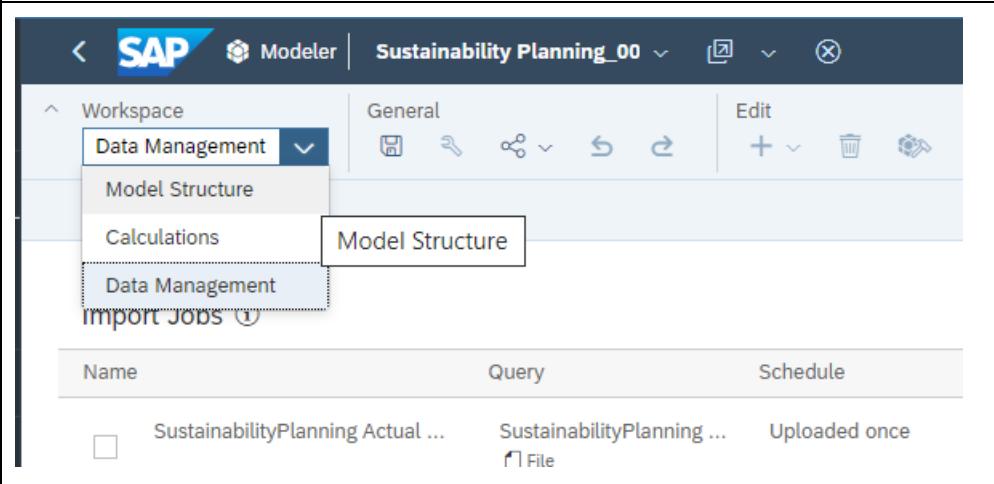
Energy Consumption Data Succesfully Imported

Explanation	Screenshot
	
<b>Load Sustainability Actual Data</b>	
<p>In the search option enter your participant ID and press enter. The model you have created in exercise 1 will be displayed</p>	
<p>Click on the model. The molder opens the model with Model structure view</p>	

Explanation	Screenshot
In the workspace click on Data Management	
<p>The Data Management Screen opens.</p> <p>In the Data management select Import Data From : File</p>	
<p>Click Select Source File</p> <p>Download file SustainabilityPlanning_Actual_data.xlsx from <a href="https://github.com/SAP-samples/btp-ai-sustainability-bootcamp/tree/main/exercises/03-collaborative-enterprise-planning/datasets">https://github.com/SAP-samples/btp-ai-sustainability-bootcamp/tree/main/exercises/03-collaborative-enterprise-planning/datasets</a> to your local drive)</p>	

Explanation	Screenshot
<p>Select the file. Make sure the “Sustainability Planning Actual Data” worksheet is selected.</p>	
<p>Click on Import</p> <p>The file gets uploaded successfully.</p>	
<p>Click on Set up Import</p> <p>The system opens the Data Preparation step.</p>	

Explanation	Screenshot																
<p>Most of the excel columns are mapped to corresponding dimension by default.</p>																	
<p>Drag the <b>month</b> column from Source and Drop it on Date dimension.      Drag the <b>effectiveYield</b> Column and drop it on Production.</p>	<p>Mapped (7)</p> <table border="1"> <thead> <tr> <th>Source</th> <th>Target</th> </tr> </thead> <tbody> <tr> <td>Default Value public.Actual to all rows</td> <td>Version public.Actual</td> </tr> <tr> <td>Month 200701, 200702, 200703, 200704, 200705, 200706, 200707, 200708, 20...</td> <td>Date 202201 - 202312 Review Settings</td> </tr> <tr> <td>Company Code 1010</td> <td>Company Code #, 1010</td> </tr> <tr> <td>energyCons 20495.1364254239, 20661.1023360739, 21260.8007464864, 23409.156...</td> <td>Energy Consumption in KWH</td> </tr> <tr> <td>PlantCO2Emissions 616.903606405259, 621.899180315826, 639.950102469241, 704.61562...</td> <td>CO2 Emission in Kgs</td> </tr> <tr> <td>effectiveYield 103108.969882034, 110540.820523176, 100051.454977016, 110647.46...</td> <td>Production</td> </tr> <tr> <td>Energy Rate 0.1455, 0.1445, 0.1468, 0.1526, 0.1512, 0.1521, 0.1537, 0.1536, 0.1555,...</td> <td>Energy Rate per KWH</td> </tr> </tbody> </table>	Source	Target	Default Value public.Actual to all rows	Version public.Actual	Month 200701, 200702, 200703, 200704, 200705, 200706, 200707, 200708, 20...	Date 202201 - 202312 Review Settings	Company Code 1010	Company Code #, 1010	energyCons 20495.1364254239, 20661.1023360739, 21260.8007464864, 23409.156...	Energy Consumption in KWH	PlantCO2Emissions 616.903606405259, 621.899180315826, 639.950102469241, 704.61562...	CO2 Emission in Kgs	effectiveYield 103108.969882034, 110540.820523176, 100051.454977016, 110647.46...	Production	Energy Rate 0.1455, 0.1445, 0.1468, 0.1526, 0.1512, 0.1521, 0.1537, 0.1536, 0.1555,...	Energy Rate per KWH
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<p>All the columns from the source are now mapped to the target. Click Next.</p>																	
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Explanation	Screenshot
<p>System validates the records without any issues. click on Run Import</p>	
<p>System provides information about the import setting. Click on Finish</p>	
<p>The data will be imported successfully in the model.</p>	
<p>In the workspace select Model Structure</p>	

## Explanation

We have successfully uploaded the historical maintenance cost in the model

## Screenshot

The screenshot shows the SAP Modeler interface for the 'Sustainability Planning\_00' model. The left sidebar lists measures: EnergyConsumption, CO2Emission, Production, and EnergyRate. The dimensions listed are Version, Date, and CompanyCode. The main area displays a data model diagram with entities: Version (Version), Data Foundation (Measures, CompanyCode, Dimensions), CompanyCode (CompanyCode ID, Member, Description), Date (Date, Date Dimension, Month, Year), and Date Dimension (General, Month, Year). A table below the diagram shows historical data:

Date	Company Code	Energy Consumption in kWh	CO2 Emission in Kg	Production	Energy Rate per kWh
200000	1000	23200	63.61	100000.45	0.12
200000	1000	23246	634.01	114324.42	0.12
200003	1010	23246.01	634.01	120000.12	0.12
200004	1010	23490.15	704.61	110047.48	0.12
200001	1010	23416.15	705.36	110092.61	0.12
200010	1010	24640.65	726.63	112815.47	0.12