



PARTNER

openSAP - Building AI and Sustainability Solutions on SAP BTP

Week5 - Collaborative Enterprise Planning with SAP Analytics Cloud

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 set up your SAP Analytics Cloud trial account via this tutorial: [Set up your SAP Analytics Cloud Trial Account](#)

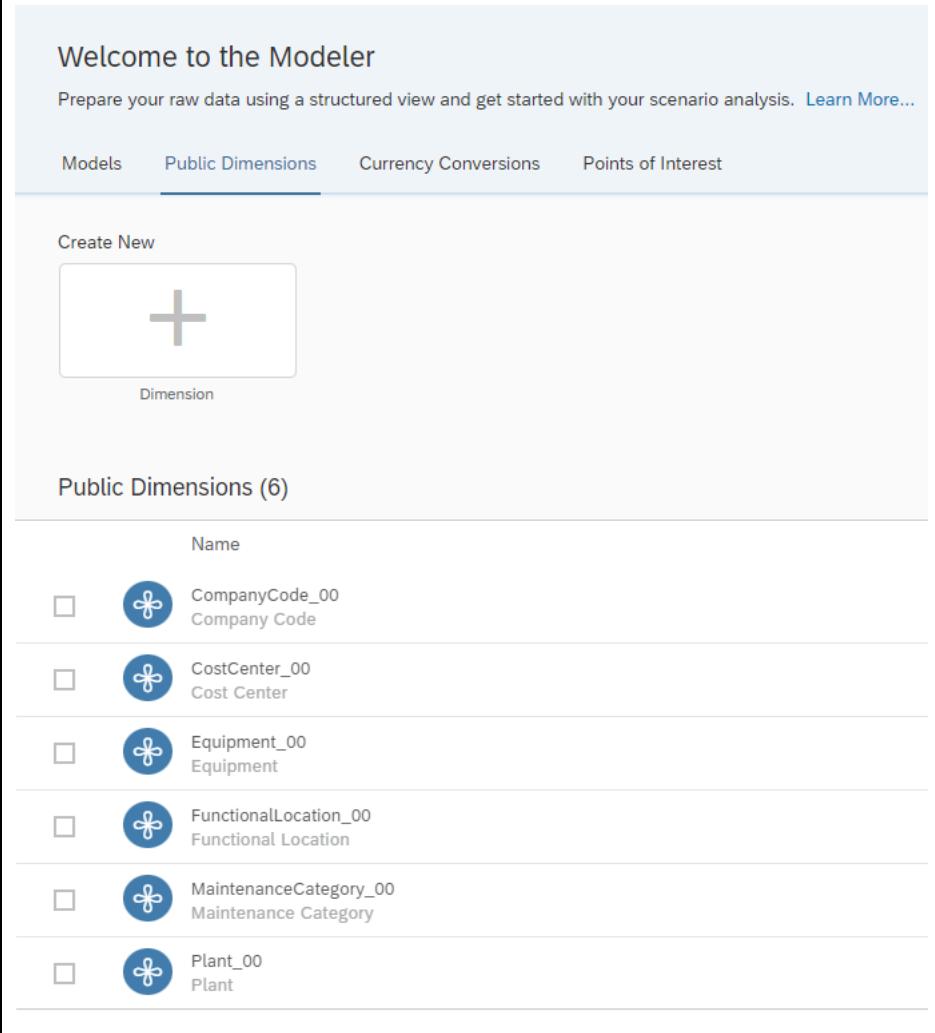
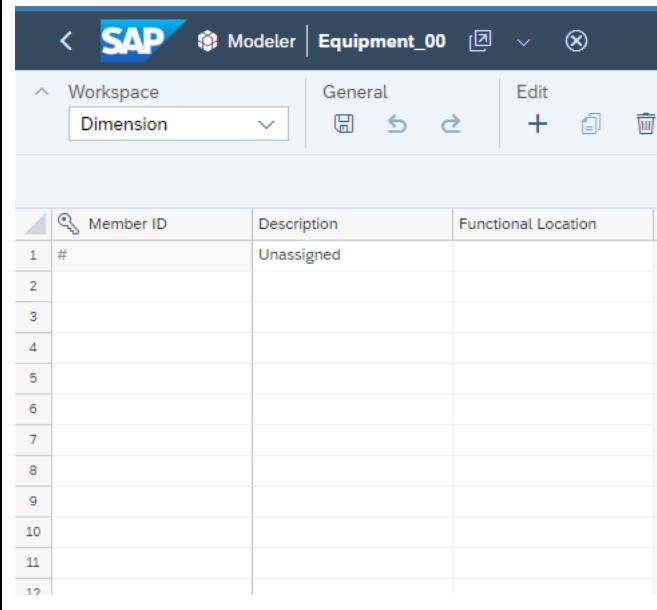
Please make sure you have already registered in order to be able to [Try SAP Analytics Cloud for free](#)

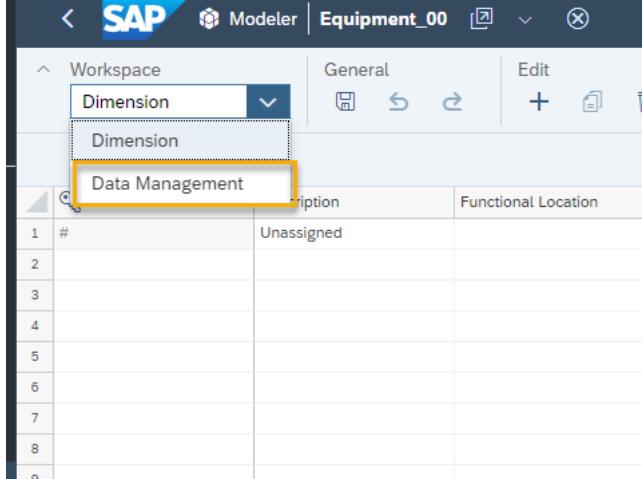
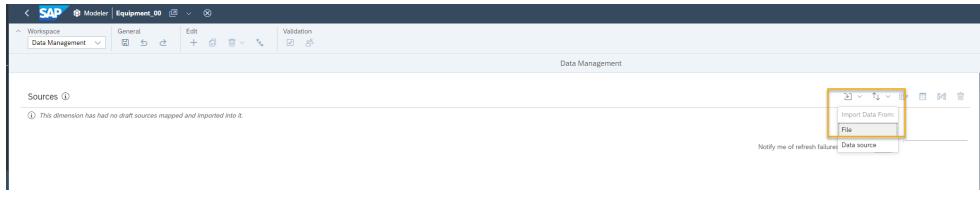
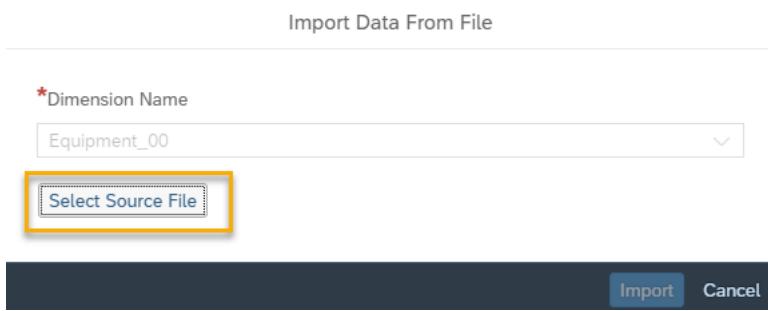
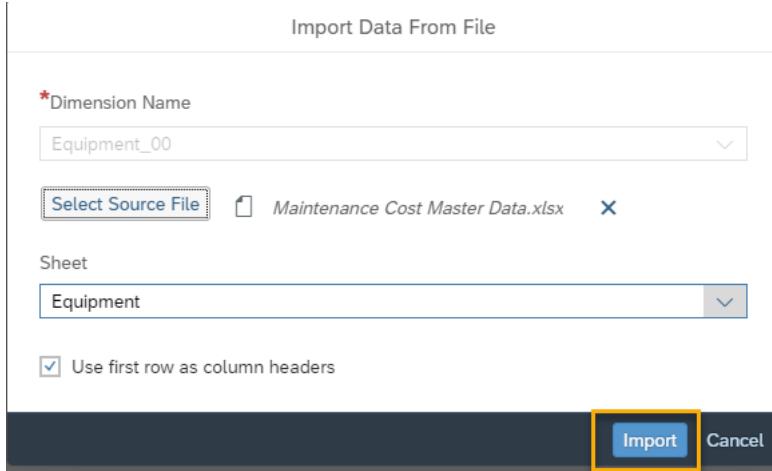
PREREQUISITES

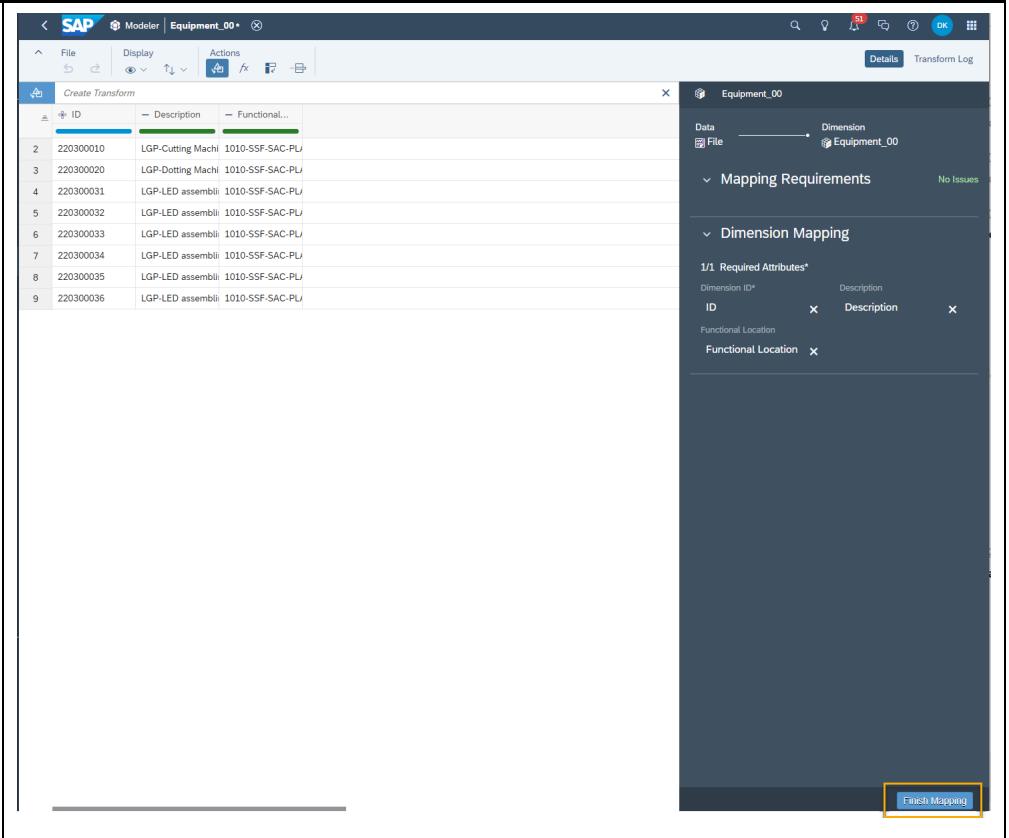
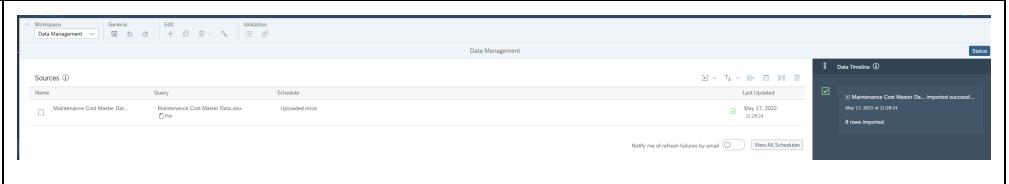
You have Access to SAP Analytics Could

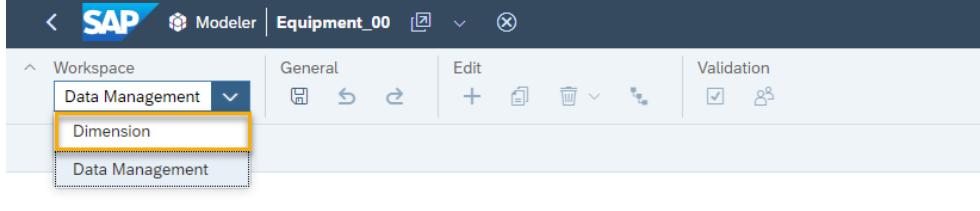
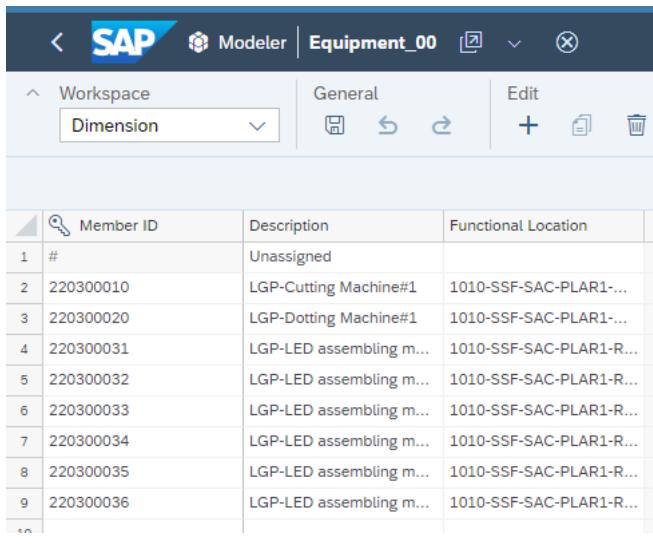
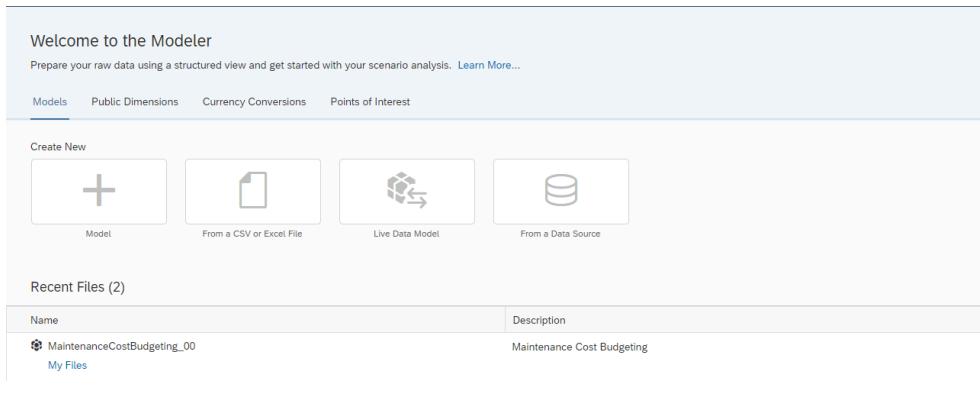
EXERCISE STEP DETAILS

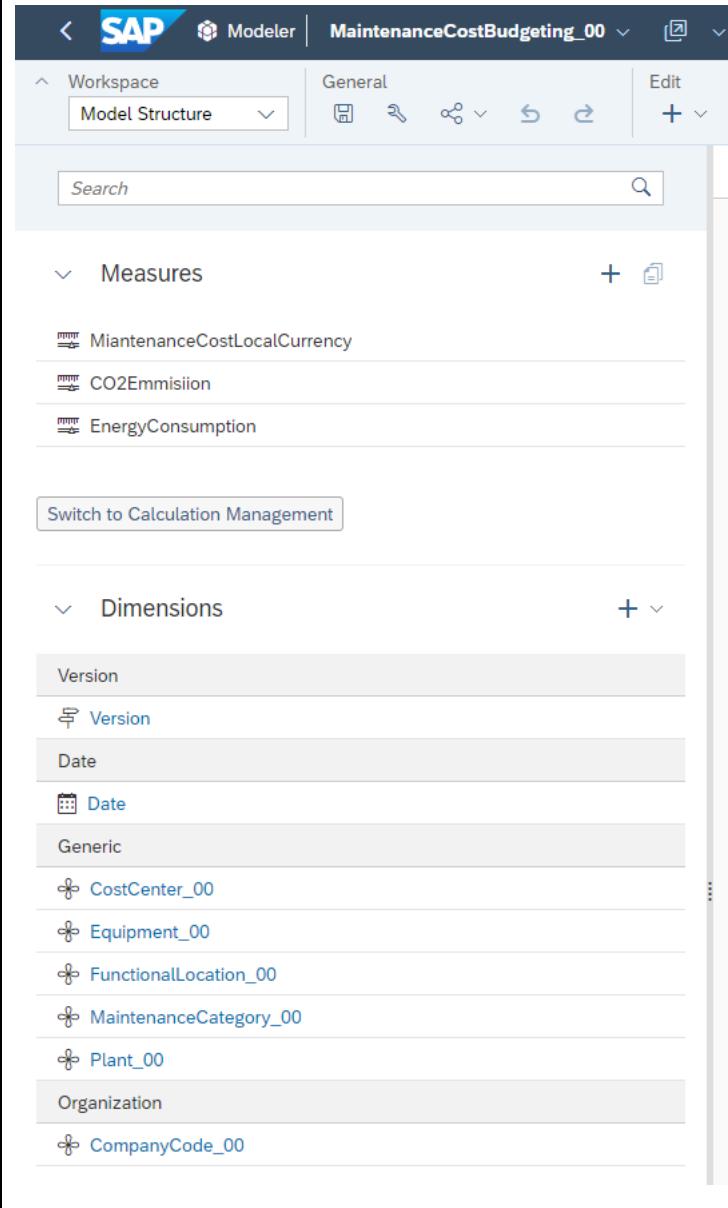
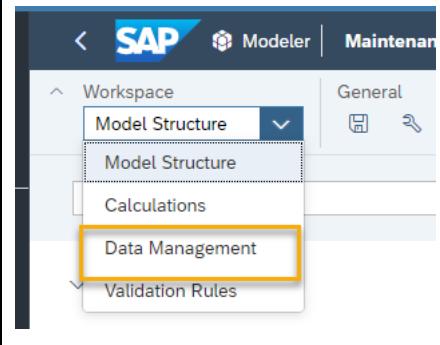
Explanation	Screenshot
<p>Log on to SAP Analytics Cloud with the given tenant URL and assigned user credential mentioned above.</p> <p>Go to the Home Screen.</p>	
<p>Click on the Modeler icon, the system opens SAP Analytics Cloud Modeler.</p>	
<p>Click on Public Dimensions Tab to Navigate to the Public Dimension screen</p>	

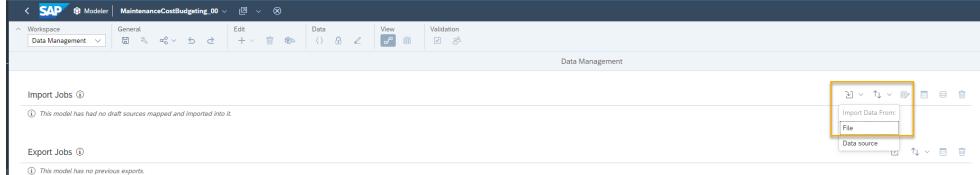
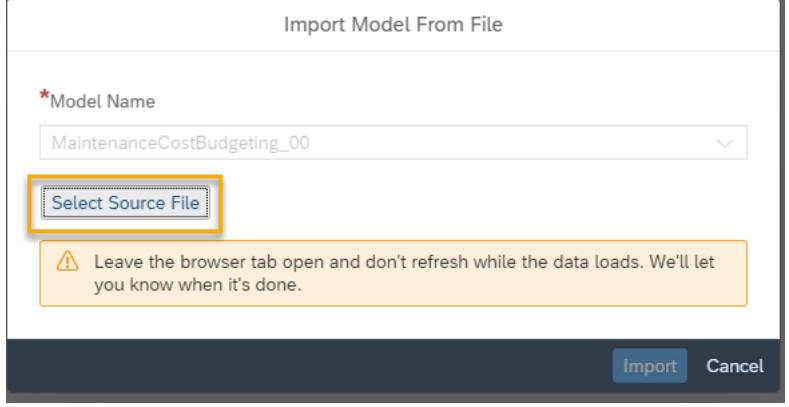
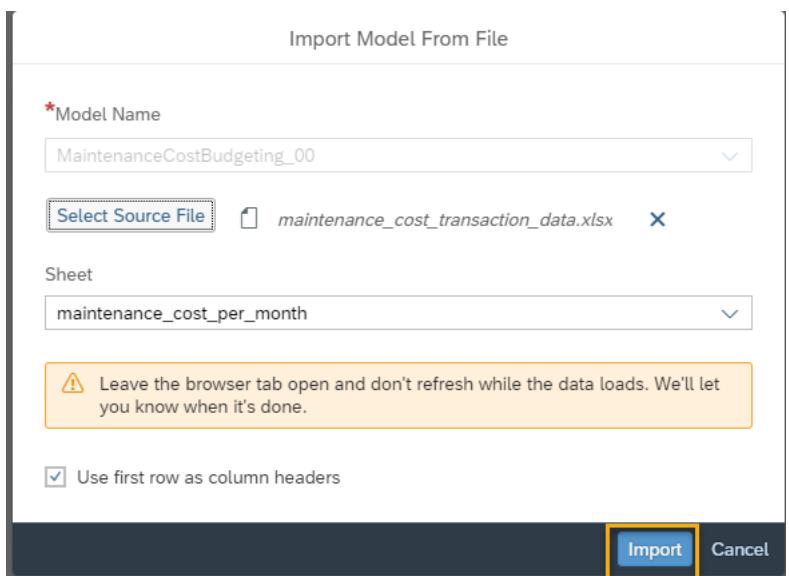
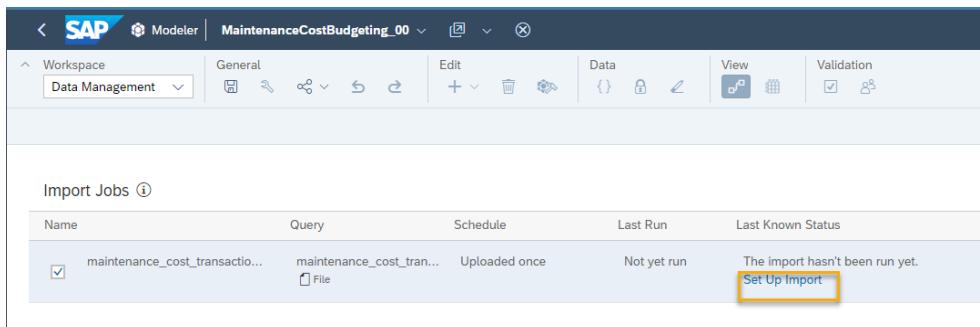
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<p>In the search option enter your participant ID and press enter. All the public dimensions created in the exercise 1 will be displayed</p>	 <p>Welcome to the Modeler</p> <p>Prepare your raw data using a structured view and get started with your scenario analysis. Learn More...</p> <p>Models Public Dimensions 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	
Select the file and click on Import	

Explanation	Screenshot
<ul style="list-style-type: none"> 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 	
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: #2e3436; color: white; padding: 5px; margin-top: 10px;"> Finish Cancel </div>
System will provide the confirmation of the import job	

Explanation	Screenshot																																								
In the Workspace select Dimension	 <p>Sources ⓘ</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 File</td> </tr> </tbody> </table>	Name	Query	Schedule	Maintenance Cost Master Dat...	Maintenance Cost Master Data.xlsx	Uploaded once File																																		
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Repeat the Above steps for all other dimensions																																									
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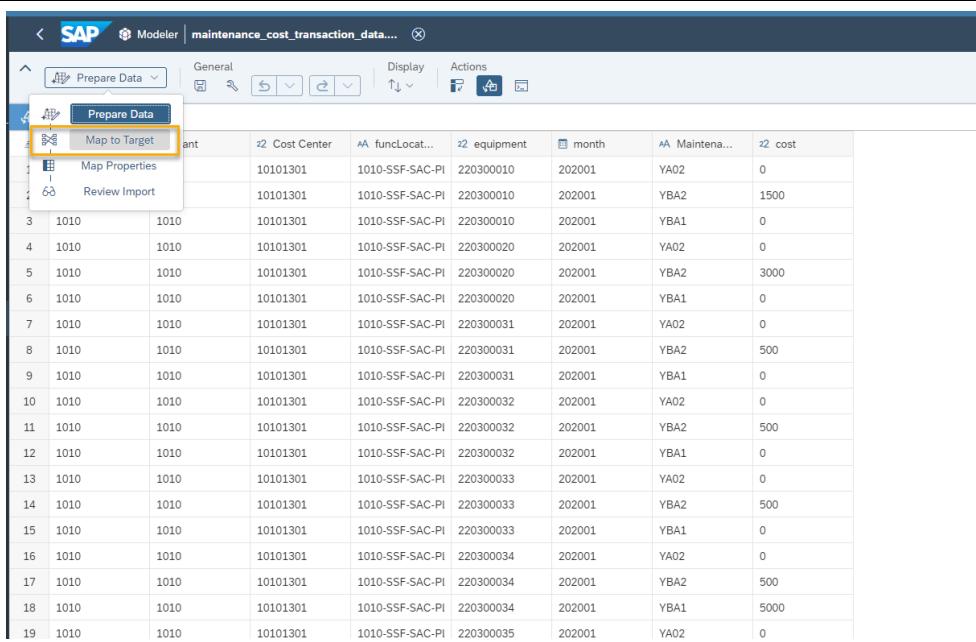
Explanation	Screenshot
<p>Click on the model. The molder opens the model with Model structure view</p>	
<p>In the workspace click on Data Management</p>	

Explanation	Screenshot
<p>The Data Management Screen opens. In the Data management select Import Data From: File</p>	
<p>Click Select Source File</p>	
<p>Select the file. Make sure the "maintenance_cost_per_month" 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

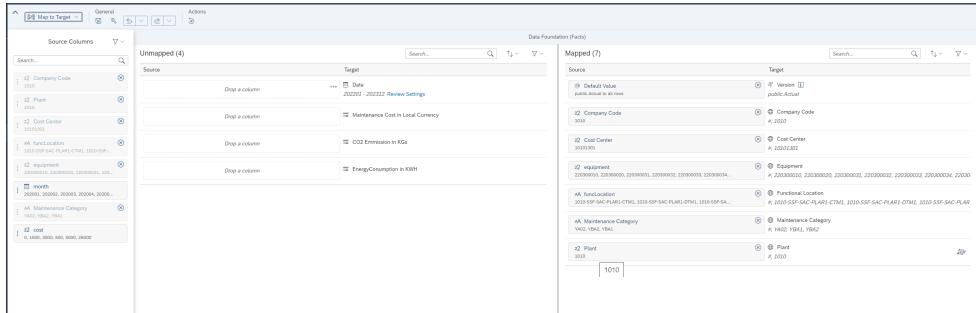


ant	z2 Cost Center	AA funcLocat...	z2 equipment	month	AA Maintena...	z2 cost
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2	10101301	1010-SSF-SAC-PI	220300010	202001	YBA2	1500
3	10101301	1010-SSF-SAC-PI	220300010	202001	YBA1	0
4	10101301	1010-SSF-SAC-PI	220300020	202001	YA02	0
5	10101301	1010-SSF-SAC-PI	220300020	202001	YBA2	3000
6	10101301	1010-SSF-SAC-PI	220300020	202001	YBA1	0
7	10101301	1010-SSF-SAC-PI	220300031	202001	YA02	0
8	10101301	1010-SSF-SAC-PI	220300031	202001	YBA2	500
9	10101301	1010-SSF-SAC-PI	220300031	202001	YBA1	0
10	10101301	1010-SSF-SAC-PI	220300032	202001	YA02	0
11	10101301	1010-SSF-SAC-PI	220300032	202001	YBA2	500
12	10101301	1010-SSF-SAC-PI	220300032	202001	YBA1	0
13	10101301	1010-SSF-SAC-PI	220300033	202001	YA02	0
14	10101301	1010-SSF-SAC-PI	220300033	202001	YBA2	500
15	10101301	1010-SSF-SAC-PI	220300033	202001	YBA1	0
16	10101301	1010-SSF-SAC-PI	220300034	202001	YA02	0
17	10101301	1010-SSF-SAC-PI	220300034	202001	YBA2	500
18	10101301	1010-SSF-SAC-PI	220300034	202001	YBA1	5000
19	10101301	1010-SSF-SAC-PI	220300035	202001	YA02	0

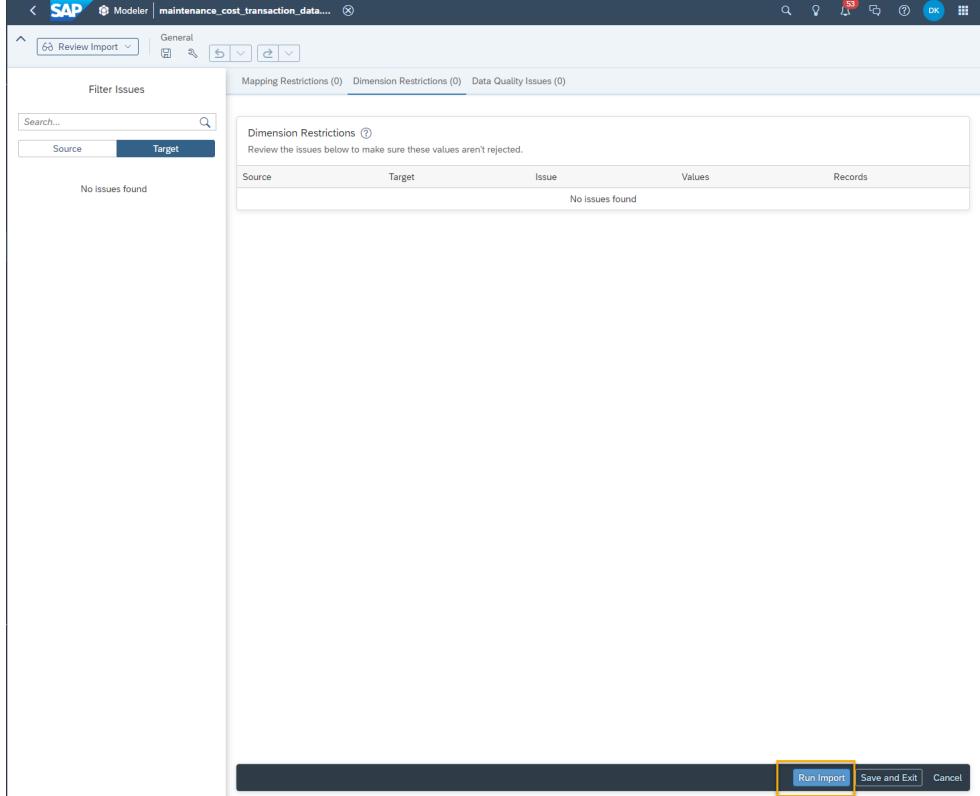
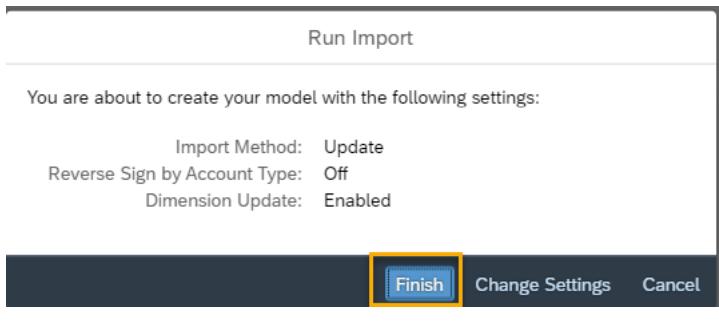
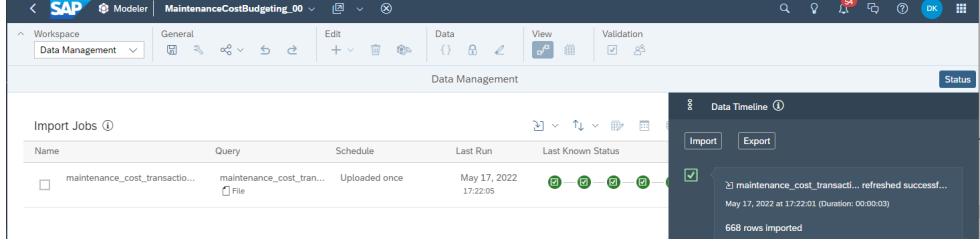
Most of the excel columns are mapped to corresponding dimension by default.

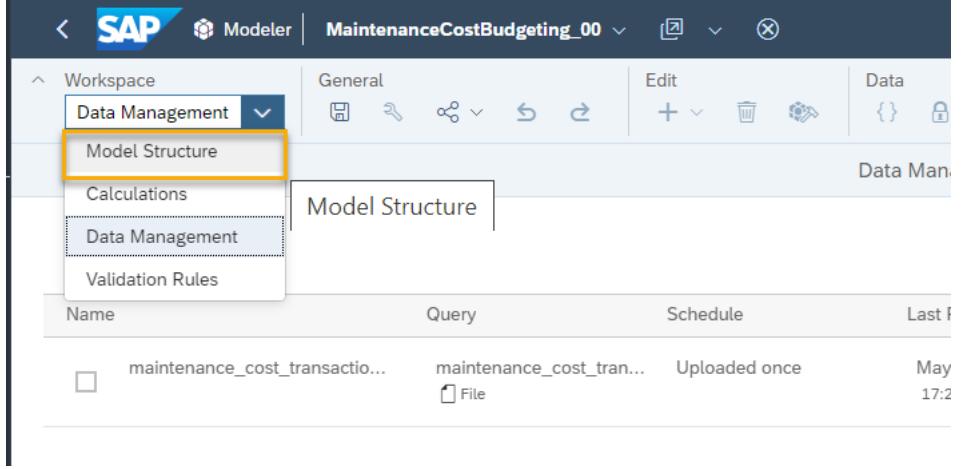
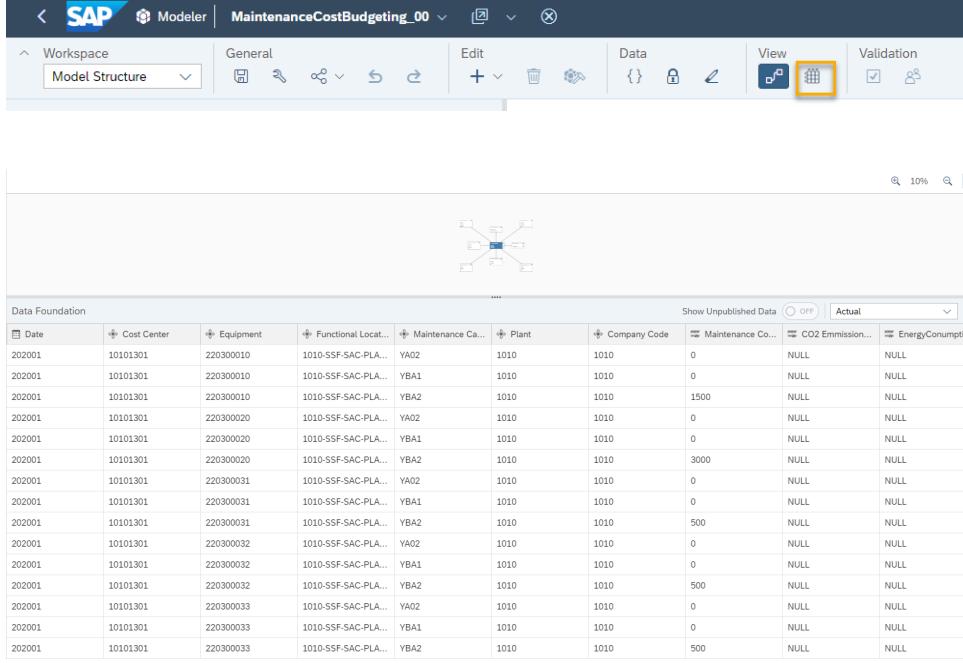
Drag the month column from Source and Drop it on Date dimension.

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 data-bbox="540 297 589 318">Source</th> <th data-bbox="1008 297 1057 318">Target</th> </tr> </thead> <tbody> <tr> <td data-bbox="540 333 682 382"><input type="checkbox"/> Default Value public.Actual to all rows</td> <td data-bbox="1008 333 1095 382"><input type="checkbox"/> Version [i] public.Actual</td> </tr> <tr> <td data-bbox="540 403 931 451"><input type="checkbox"/> month 202001, 202002, 202003, 202004, 202005, 202006, 202007, 202008, 202...</td> <td data-bbox="1008 403 1204 451"><input type="checkbox"/> Date 202201 - 202312 Review Settings</td> </tr> <tr> <td data-bbox="540 473 682 521"><input type="checkbox"/> z2 Company Code 1010</td> <td data-bbox="1008 473 1127 521"><input type="checkbox"/> Company Code #, 1010</td> </tr> <tr> <td data-bbox="540 542 682 589"><input type="checkbox"/> z2 Cost Center 10101301</td> <td data-bbox="1008 542 1111 589"><input type="checkbox"/> Cost Center #, 10101301</td> </tr> <tr> <td data-bbox="540 610 931 658"><input type="checkbox"/> z2 equipment 220300010, 220300020, 220300031, 220300032, 220300033, 220300034...</td> <td data-bbox="1008 610 1481 658"><input type="checkbox"/> Equipment #, 220300010, 220300020, 220300031, 220300032, 220300033, 220300034, 2203...</td> </tr> <tr> <td data-bbox="540 680 931 726"><input type="checkbox"/> AA funcLocation 1010-SSF-SAC-PLAR1-CTM1, 1010-SSF-SAC-PLAR1-DTM1, 1010-SSF-SA...</td> <td data-bbox="1008 680 1481 726"><input type="checkbox"/> Functional Location #, 1010-SSF-SAC-PLAR1-CTM1, 1010-SSF-SAC-PLAR1-DTM1, 1010-SSF-SAC-PLAR...</td> </tr> <tr> <td data-bbox="540 747 714 768"><input type="checkbox"/> AA Maintenance Category YA02, YBA2, YBA1</td> <td data-bbox="1008 747 1160 768"><input type="checkbox"/> Maintenance Category #, YA02, YBA1, YBA2</td> </tr> <tr> <td data-bbox="540 789 616 811"><input type="checkbox"/> z2 Plant 1010</td> <td data-bbox="1008 789 1073 811"><input type="checkbox"/> Plant #, 1010</td> </tr> <tr> <td data-bbox="540 832 719 880"><input type="checkbox"/> z2 cost 0, 1500, 3000, 500, 5000, 26000</td> <td data-bbox="1008 832 1237 880"><input type="checkbox"/> Maintenance Cost in Local Currency</td> </tr> </tbody> </table> <p style="text-align: right;">Next Save and Exit Cancel</p>	Source	Target	<input type="checkbox"/> Default Value public.Actual to all rows	<input type="checkbox"/> Version [i] public.Actual	<input type="checkbox"/> month 202001, 202002, 202003, 202004, 202005, 202006, 202007, 202008, 202...	<input type="checkbox"/> Date 202201 - 202312 Review Settings	<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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<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																				
The system informs us that all rows are assigned to version dimension. Click Next	<p>Dimension Properties</p> <p><input type="checkbox"/> 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 [i]</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 title bar "SAP Modeler" and the workspace name "MaintenanceCostBudgeting_00". The left sidebar has a dropdown menu set to "Data Management" which is expanded to show "Model Structure", "Calculations", "Data Management", and "Validation Rules". The "Model Structure" option is highlighted with a yellow box. The main area is titled "Model Structure" and displays a table with columns: Name, Query, Schedule, and Last. There is one entry: "maintenance_cost_transaction" with a file icon, uploaded once on May 17, 2022.</p>
Click  in the view menu to get the Data Preview	 <p>The screenshot shows the SAP Modeler interface with the title bar "SAP Modeler" and the workspace name "MaintenanceCostBudgeting_00". The top ribbon has tabs for General, Edit, Data, and View. The "View" tab is highlighted with a yellow box. Below it, there is a preview area showing a network diagram and a data foundation table. The table has columns: Date, Cost Center, Equipment, Functional Locat..., Maintenance Ca..., Plant, Company Code, Maintenance Co..., CO2 Emission..., EnergyConsumpt... . The data shows various entries for dates from 202001 to 202001, with values like YA02, YBA1, etc., in the corresponding fields.</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 Import Jobs interface. It displays a table of imported jobs, with one entry for 'maintenance_cost_transaction_data.xlsx' which was uploaded once on May 17, 2022, at 17:22:05. Below this, the 'Import Model From File' dialog is open. In the 'Model Name' field, 'MaintenanceCostBudgeting_00' is entered. The 'Select Source File' dropdown shows 'maintenance_cost_transaction_data.xlsx'. The 'Sheet' dropdown is 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.' A checked checkbox says 'Use first row as column headers'. At the bottom are 'Import' and 'Cancel' buttons.

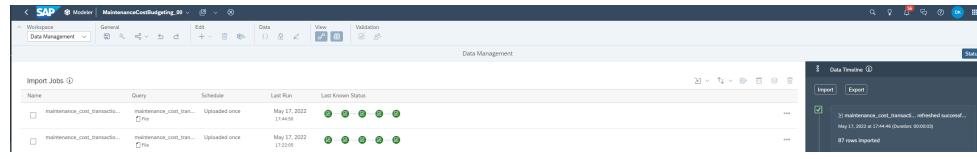
Prepare data:-

The screenshot shows the SAP Modeler Prepare Data interface. It displays a transformed table titled 'Create Transform'. The columns are: year_month, Machine, MachineE..., MachineC..., Functiona..., Company ..., Plant, and Coct Center. The data consists of 16 rows of transactional data from 202001 to 202007, detailing machine usage, energy consumption, and costs across various functional areas, companies, plants, and cost centers.

Mapping (Set Maintenance Category to #)

The screenshot shows the SAP Modeler Map To Target interface. It displays a mapping table with 'Unmapped (1)' and 'Mapped (10)' sections. The 'Source' column lists various dimensions: year_month, Machine, MachineEmissions, MachineConsumption, Company Code, Plant, and Cost Center. The 'Target' column maps these to specific dimensions: Date, Company Code, Cost Center, Maintenance Category, Plant, and CO2 Emission in Kt. The 'Mapped (10)' section shows detailed mappings for each dimension, such as 'year_month' to 'Date' and 'Machine' to 'MachineEmissions'.

Energy Consumption Data Succesfully Imported

Explanation	Screenshot															
	 <p>The screenshot shows the SAP Data Management interface with the title "MaintenanceCostBudgeting_30". The main area displays a table titled "Import Jobs" with two entries:</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Query</th> <th>Schedule</th> <th>Last Run</th> <th>Last Known Status</th> </tr> </thead> <tbody> <tr> <td>maintenance_cost_trans...</td> <td>maintenance_cost_tran...</td> <td>Uploaded once</td> <td>May 17, 2022 17:45:19</td> <td>● ● ● ● ●</td> </tr> <tr> <td>maintenance_cost_trans...</td> <td>maintenance_cost_tran...</td> <td>Uploaded once</td> <td>May 17, 2022 17:32:08</td> <td>● ● ● ● ●</td> </tr> </tbody> </table> <p>On the right side, there is a "Data Timeline" panel with a success message: "Maintenance_Cost_Transact... refreshed successful. May 17, 2022 at 17:44:46 (Duration: 00:00:02) 87 rows imported".</p>	Name	Query	Schedule	Last Run	Last Known Status	maintenance_cost_trans...	maintenance_cost_tran...	Uploaded once	May 17, 2022 17:45:19	● ● ● ● ●	maintenance_cost_trans...	maintenance_cost_tran...	Uploaded once	May 17, 2022 17:32:08	● ● ● ● ●
Name	Query	Schedule	Last Run	Last Known Status												
maintenance_cost_trans...	maintenance_cost_tran...	Uploaded once	May 17, 2022 17:45:19	● ● ● ● ●												
maintenance_cost_trans...	maintenance_cost_tran...	Uploaded once	May 17, 2022 17:32:08	● ● ● ● ●												