

Working with Datasets

A dataset corresponds to a physical table or view in a data warehouse, or the results of a SELECT statement. One of the main tasks in designing an AtScale cube is to import the physical tables or views that the cube will be based on. (Later, you can create additional datasets that are based on the results of SELECT statements; these datasets are called query-based datasets.) To import a table or view as a dataset into an AtScale cube definition, the AtScale organization in which the cube is located must be connected to a data warehouse.

- [Importing Tables and Views into AtScale Projects as Datasets](#) The first step in designing an AtScale cube is to import the physical tables and views that the cube will be based on.
- [Adding Query-Based Datasets](#) A query-based dataset allows you to select data from one or more tables in a data warehouse and save the query in AtScale as a new dataset.
- [About Composer](#) Composer enables you to deep-dive into a dataset, view the data, and manipulate it.
- [Using Composer](#) How to use Composer to transform columns into a dataset.
- [Refreshing Dataset Schemas](#) The schema of a table or view can be modified over time. You can refresh a dataset to pick up changes from your data warehouse since the last time the dataset was imported, such as new columns or rows were added.
- [Remapping Data Sources](#) The datasets used in a cube definition are from a data warehouse to which the cube is connected. After a cube is created you could configure connections to other warehouses that contain different datasets. Then you can set the cube to use a warehouse that is different than the original one.
- [Removing Datasets from Cubes](#) Removing a dataset from the canvas takes it out of the cube definition. The dataset will remain in the project library. Any measures or relationships modeled on columns of the dataset are removed from the cube definition as well.
- [Removing Datasets from Projects](#) Removing a dataset from the project library takes it out of the project. Any cube metadata that depends on the dataset will be removed as well.
- [Viewing a Sample of Dataset Rows](#) AtScale lets you to view a sample of a dataset's rows. Viewing a sample allows you to examine the column values and decide which data to base your cube attributes on.
- [Adding Calculated Columns to Datasets for Simple Data Transformations](#) Calculated columns are a way to apply data transformations to a dataset. After a calculated column is added to a dataset, it can be used as a cube attribute, just like any other dataset column.
- [Searching for Columns in Datasets](#) Datasets can contain a very large number of columns. If you are looking for more particular columns in a dataset on the Cube Designer canvas, however, you can find them quickly by using one or more search criteria in the search field at the top of the dataset. Columns not matching the criteria are filtered out, so that the dataset lists only those that match.
- [Swapping the Physical Tables or Queries that Datasets are Based on](#) When working in the cube designer, you can change the underlying table or query that a dataset is pointing to.