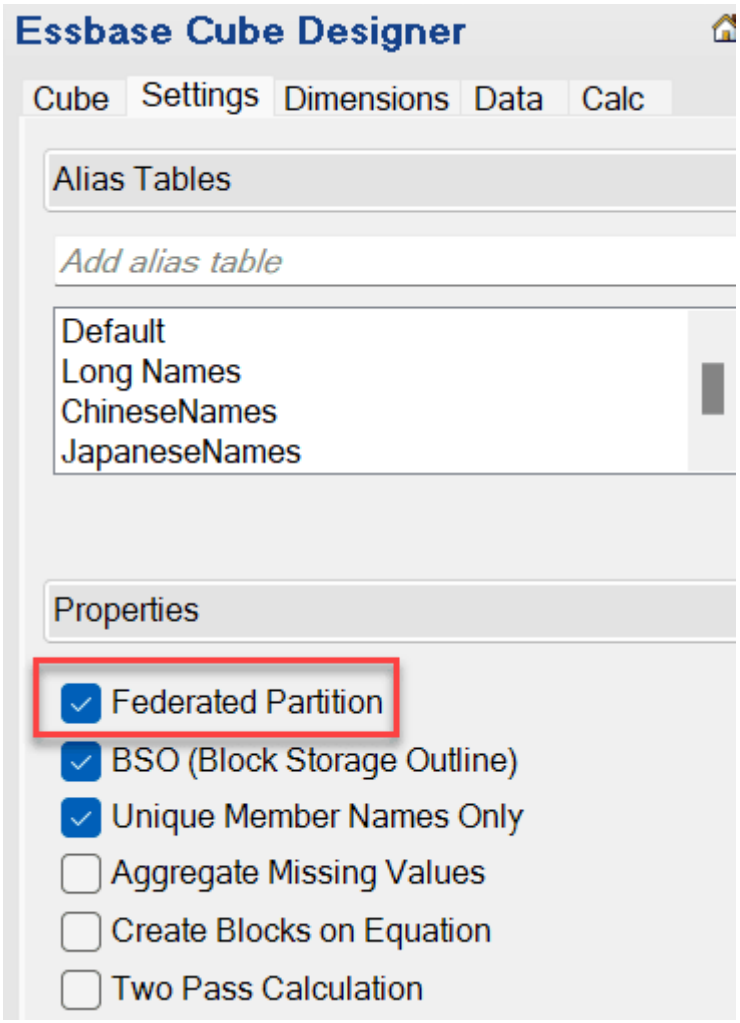
Create a Federated Partition using Cube Designer

To create a federated partition using Cube Designer, add a Cube.FederatedPartition worksheet to the application workbook for your Essbase cube, validate the sheet, and build the federated partition to the Essbase Server.

The federated partition is between Essbase and Autonomous AI Lakehouse Serverless.

This topic assumes you have completed the prerequisites and reviewed the information detailed in Federated Cubes: Integrate Essbase with Autonomous AI Database.

1. Build an Essbase application and cube without a federated partition.
2. Open the application workbook for the cube. If you don't have one, see Export a Cube to an Application Workbook.
3. On the Cube Designer ribbon, click **Cube Designer** to open the Designer Panel.
4. Click **From Sheet**  to populate the Designer Panel with the contents of the sheet.
5. Click the **Settings** tab.
6. On the **Settings** tab, expand **Properties** and select **Federated Partition**.



7. Click **To Sheet**  to create a Cube.FederatedPartition sheet in the application workbook.
8. Click **Yes** to edit the new Cube.FederatedPartition worksheet.

The Federated Partition wizard opens in Cube Designer.

9. For **Connection name**, enter the connection to Autonomous AI Lakehouse that was previously created by an administrator as shown in Create a Connection for Federated Cubes.

Note

When creating a federated partition using Cube Designer, the connection must be a global connection.

10. For **Schema name**, ensure that it matches the name of the database schema (user name that you entered when you created the connection).
11. For **Storage management**, select **User** or **Essbase** managed.

Note

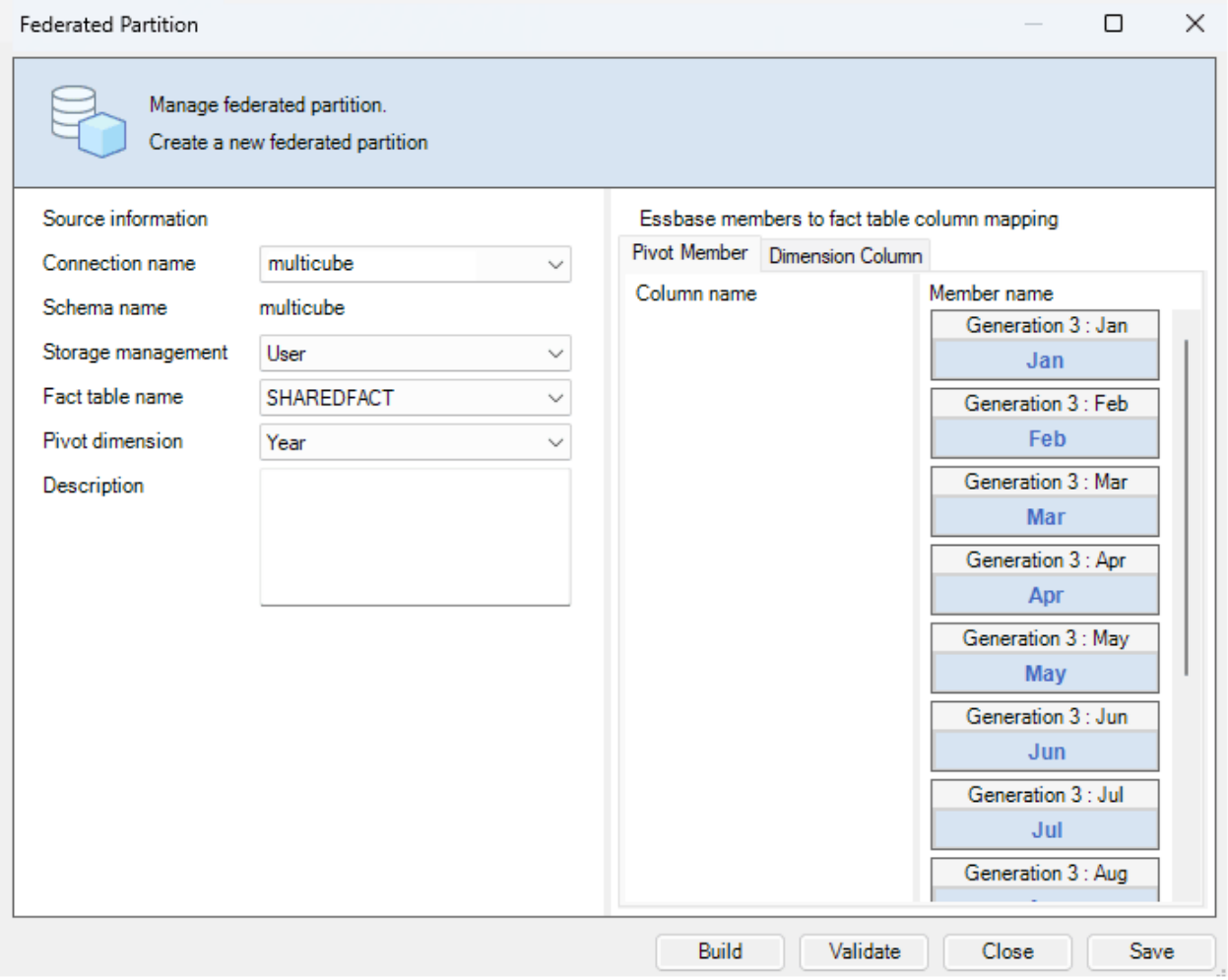
To let Essbase create and manage a fact table for you, select Essbase managed. See Data Load Options for Federated Cubes.

12. For **Fact table name**, select the name of the fact table in Autonomous AI Lakehouse that stores numeric values and keys.

Note

Skip this step if you selected Essbase managed in the previous step.

13. For **Pivot dimension**, select the name of the pivot dimension you decided to use from the Essbase outline, during the Identify the Pivot Dimension process.



If the column names in the fact table are the same as the dimensions and pivot member names in the outline, then the mapping is automatically populated in Essbase to column map. If any dimensions or members cannot be automatically mapped to a column in the fact table, you will need to map them manually.

If a member of the pivot dimension (or a non-measures dimension name) includes a special character, such as &, Oracle recommends renaming it.

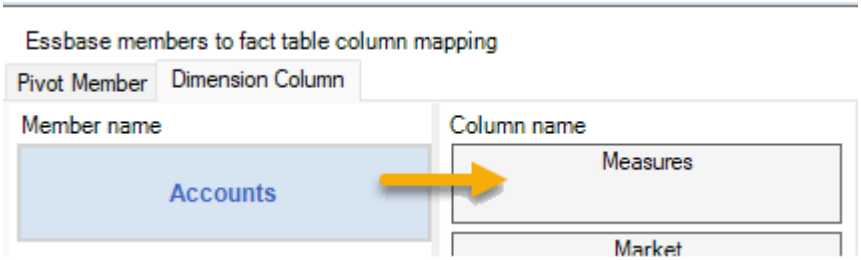
In the **Pivot Member** column, row values are numeric values, or the data. The headers for these columns are member names.

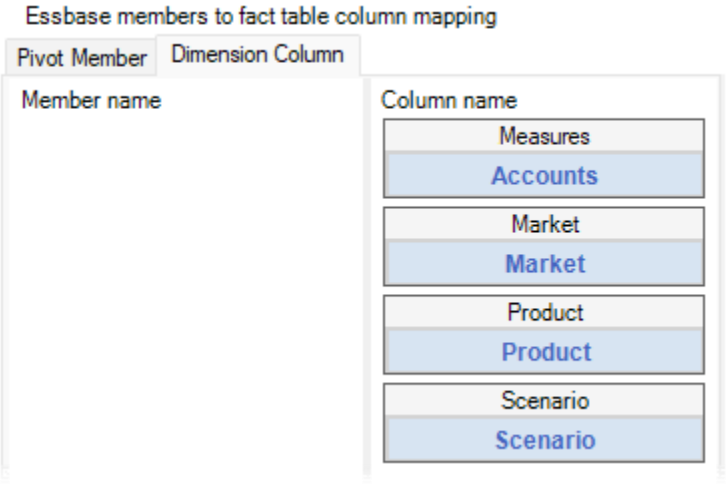
The values in the **Dimension Column** are textual values. These map to Essbase member names. The headers for these columns map to Essbase dimension names.

14. If Essbase dimension and member names do not exactly match the column names in the fact table, map them by dragging and dropping the Essbase names to the

appropriate column names in both the **Pivot Member** column and the **Dimension Column**.

For example, drag and drop **Accounts** to **Measures**.





15. Complete the federated partition creation process:
    a. Click **Validate** to validate the partition.
    b. Click **Save** to save your changes to the Cube.FederatedPartition worksheet.
    c. Click **Build** to build the federated partition on the server.

Note

The **Build** button in the federated partition wizard does not work on aggregate storage cubes.

Alternatively, you can use the **Build Cube** option on the Cube Designer ribbon to build the cube and create the federated partition.

Note

The federated partition build process is launched as a job which can then be monitored in **View Jobs** on the Cube Designer ribbon.

16. The federated partition is created. This process also creates dimension helper tables (and other artifacts) in Autonomous AI Lakehouse, which are linked (by keys) to the fact table.
17. Continue to use the wizard to make changes to just the federated partition or rebuild the application with the new saved federated partition settings on the Cube.FederatedPartition worksheet in the application workbook. See Understand the Cube.FederatedPartition Worksheet.