

Configure Range Join

In most join operations, the values in primary keys across two tables must match exactly for the related columns to be included in the join. In a **range join**, you can change the comparative operator for the keys from Equal to one of the following additional comparisons:

- Not equal to
- Greater than
- Greater than or equal to
- Less than
- Less than or equal to

NOTE: A Trifacta administrator may need to enable this feature in your environment. See *Workspace Admin Page*.

Limitations:

Range joins allow you to include many more matching values and therefore rows in the join. Depending on the matches and the included columns, your resulting dataset can become very large. You should use this feature with some caution.

- Range joins apply only keys whose data types can be compared. For example, for joins involving keys of Binary data type, you can use Equal to or Not equal to joins.
- Any range comparison that includes one or more string columns as keys uses the string comparison greater/less than, not the numerical comparison.

After range joins have been enabled, you can specify them as part of performing any join operation.

Steps:

1. In the Search panel, enter `join datasets` in the search box.
2. Select the dataset with which to join the current one. Then, click **Accept**.
3. In the Join panel, select the join type.
4. In the Join Keys area, click the Pencil icon.
5. Specify the fields in the current dataset and the joined-in dataset.

6. From the Condition drop-down, select the range operator to use:

The screenshot shows a software interface for defining a join condition. At the top, there is a header bar with a back arrow, the text '< Join Condition:', and the title 'Add Key'. Below this, there are two main sections: 'Current' and 'Condition', both labeled as 'required'. The 'Current' section contains a text input field with '# Item_Nbr' and a clear button (X) and a dropdown arrow (v). The 'Condition' section contains an empty text input field with a clear button (X) and an upward arrow (^). Below the input fields is a dropdown menu that is open, displaying a list of range operators: '=', 'Equal to', '!=', 'Not equal to', '>', 'Greater than' (which is highlighted and has a mouse cursor over it), '>=', 'Greater than or equal to', '<', 'Less than', and '<=', 'Less than or equal to'. Below the dropdown menu, there are three example join conditions: 'ABC Sales_Description = ABC PRODUCT DESC', '# Whse_Nbr = # ITEM_NBR', and 'ABC Whse Name = ABC PRODUCT DESC'. At the bottom of the dialog, there are two buttons: 'Cancel' and 'Save and Continue'.

Figure: Select range operator

7. Specify other properties for the matching keys.
8. Click **Save and Continue**.
9. Specify other elements of the join. When finished, click **Add to Recipe**.

For more information, see *Join Panel*.