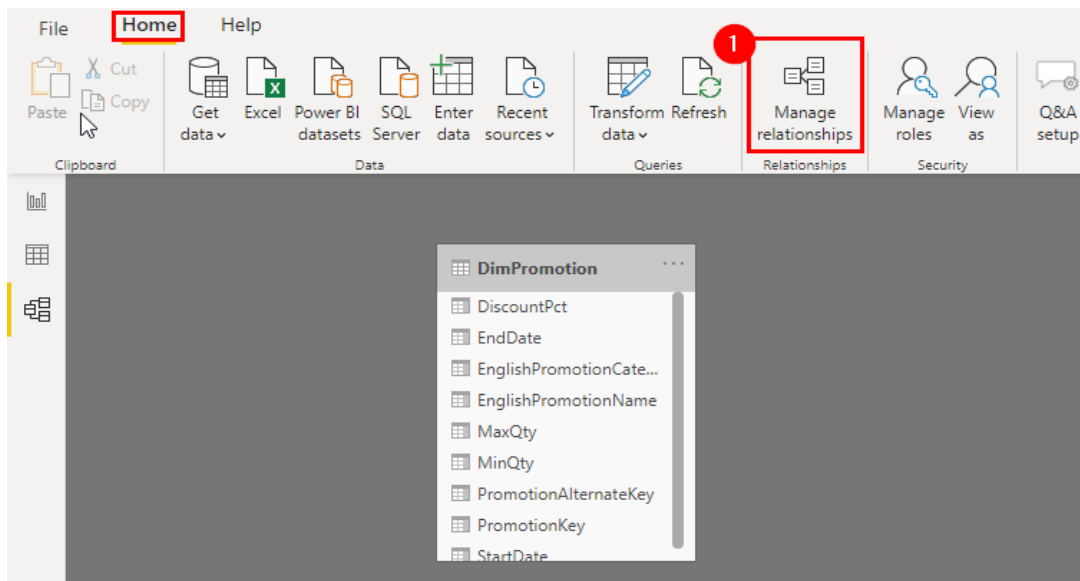


Working with Relationships

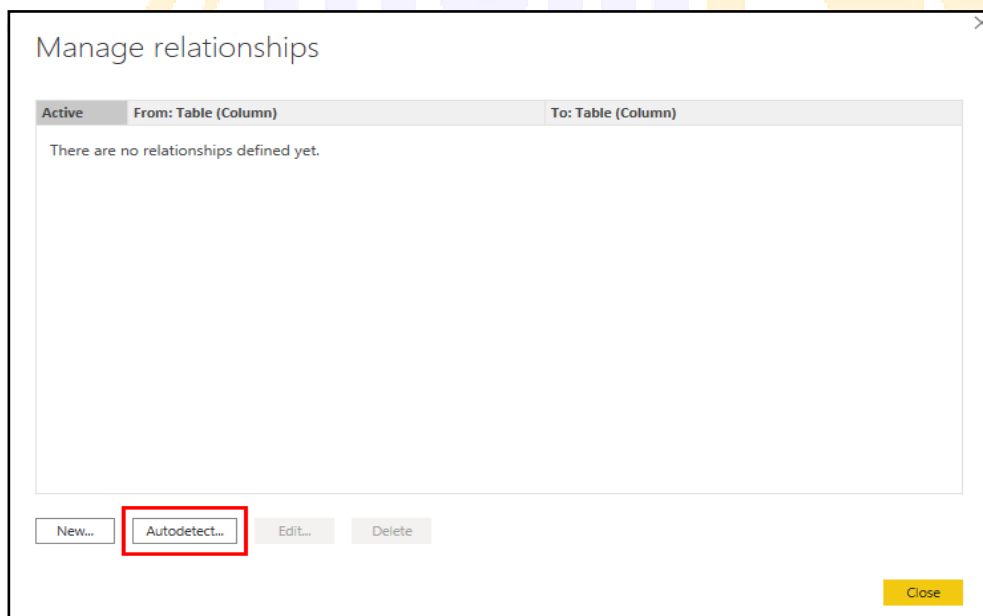
Using **Manage relationships**, you can create a new relationship, enable the **Autodetect** feature, and Edit or Delete a relationship.

Using the AutoDetect Feature

1) Select **Manage relationships** from the Home tab

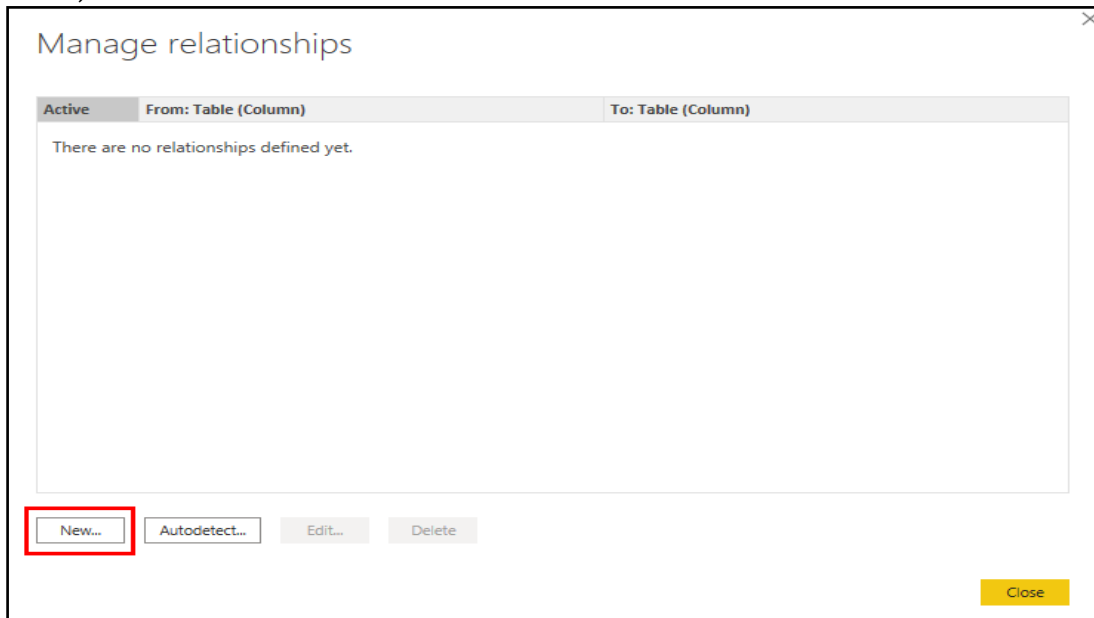


2) After that, click on **Autodetect**

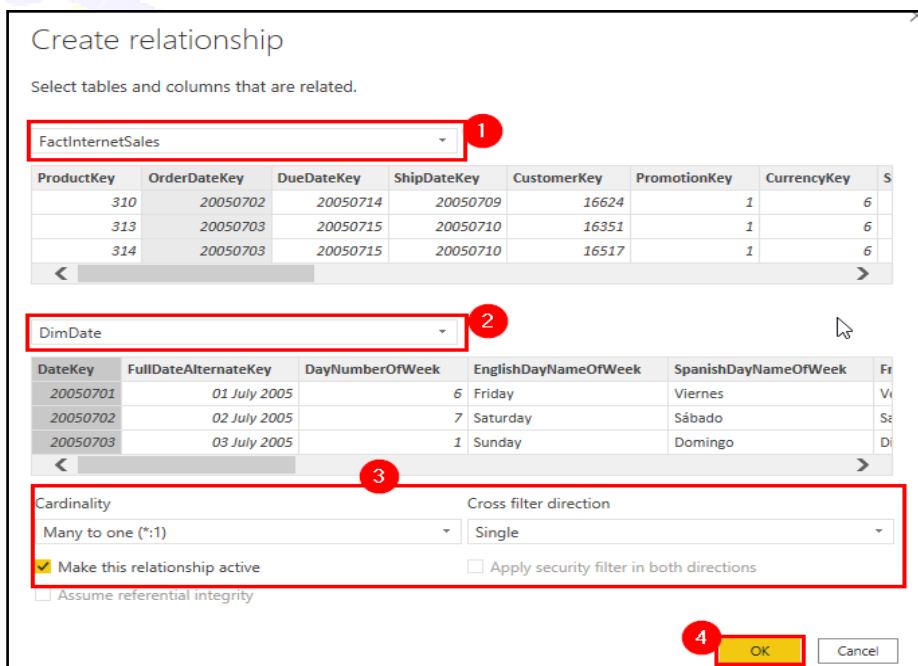


Creating a Relationship Manually

- 1) In the Home tab, select **Manage relationships**
- 2) Then, click on **New**



- 3) In the **Create relationship** dialog box, select the first table and the column in the table, which you want to use in the relation
- 4) Select the second table and the column. Once this is done, additional features such as cardinality, making the relationship active and cross-filter direction will be automatically set by Power BI. However, you can change these if needed
- 5) Once you click on **OK**, a relationship will be created between both the tables



Other Additional Features

Cardinality:

- **Many to One (*:1):** Many to one means that one table can have more than one instance of the value used in the column to join to the other table. The other table will have only one value. This is the most commonly used type in Power BI.
- **One to One (1:1):** In a one-to-one relationship, both tables in the relationship will have one instance of the value.
- **One to Many (1: *):** This is the same as many to one, except that the position of the tables is reversed in this relationship.
- **Many to Many (*: *):** Many-to-many relationships can be created in a composite data model between two tables. This removes the requirements for unique values in tables.

Cross-filter Direction

- **Both:** 'Both' is the most common and the default cross-filter direction. When you apply filtering, the two tables are considered as one for aggregating data in visualization.
- **Single:** When you apply the single cross-filter direction, the filters in the related tables operate on the table where the values are aggregated.

Making the Relationship Active

- When there is more than one relationship existing between two tables, then Power BI will take the active relationship and automatically create a visualization that includes both the tables.