edX

Exercise 1: Manage Table Relationships

Power BI Desktop has automatically detected and created table relationships. So the first step is to ensure all the relationships are properly created, and if not, create them yourselves.

1. Start with the "Lab 2 - Starting.pbix" file.

2. Open the **Relationship** view.

3. Ensure that there is a many to one relationship with both cross directional filtering from the **ProductID** column on the **Sales** table to the **ProductID** column on the **Products** table. If not, create the relationship by dragging the **ProductID** column on the **Sales** table to the **ProductID** column on the **Products** table.

4. Ensure that there is a many to one relationship with both cross directional filtering from the **ManufacturerID** column on the **Products** table to the **ManufacturerID** column on the **Manufacturers** table. If not, create the relationship.

5. Ensure that there is a many to one relationship with both cross directional filtering from the **Date** column on the **Sales** table to the **Date** column on the **Date** table. If not, create the relationship.

Now you want to create a relationship between the **Sales** table and the **Locations** table. First, you merge the **Country** and **Zip** columns in both **Sales** and **Locations** table as a new column, **CountryZip**. Then, you create a relationship on the **CountryZip** column for both tables.

1. Edit the **Locations** table in the **Data** view.

2. Add a new column named **CountryZip** by concatenating the value from the **Country** column, a comma and a space character, and the value from the **Zip** column. (Hint: the

calculated column formula look as follows: CountryZip = Locations[Country] & ", " & Locations[Zip])

3. Edit the **Sales** table in the **Data** view.

4. Add a new column named **CountryZip** by concatenating the value from the **Country Name** column, a comma and a space character, and the value from the **Zip** column. (Hint: the calculated column formula look as follows: CountryZip = Sales[Country Name] & ", " & Sales[Zip])

5. Open the **Relationship** view.

6. Link the newly created **CountryZip** column on the **Sales** table to the newly created **CountryZip** column on the **Locations** table.

Lab Questions

4.0/4.0 points (graded)
Review the relationship that you have just created on the CountryZip columns. (Hint: Double-click on the newly created relationship).

What is the cardinality of the relationship?

- ◉ Many to One ✔

- ○ One to One

- ○ One to Many

- ○ Many to Many

What is the Cross filter direction of the relationship?

- ○ Single

◯　Double

◉　Both ✔

◯　Multiple

Submit	You have used 2 of 2 attempts