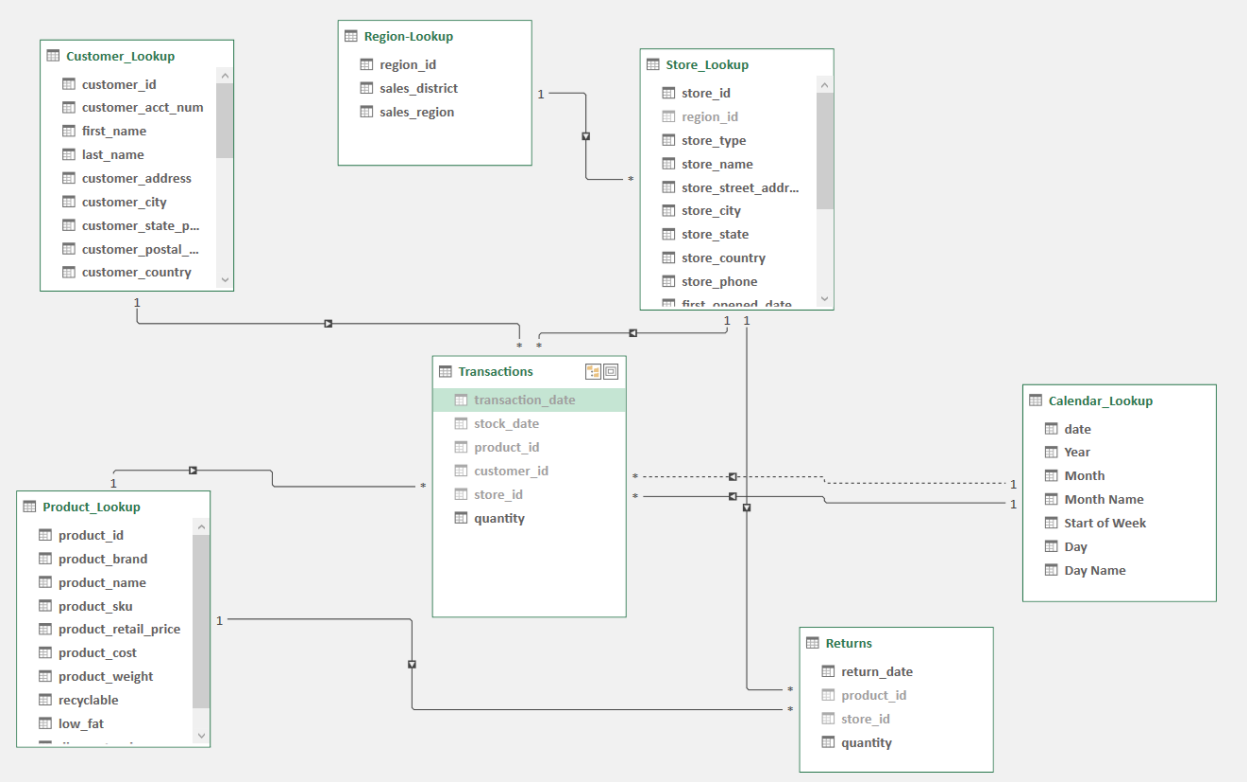
Project Building Table Relationships with Excel's Data Model

1) In **Diagram View** of the data model, use the "**Manage Relationship**" window to delete all existing table relationships

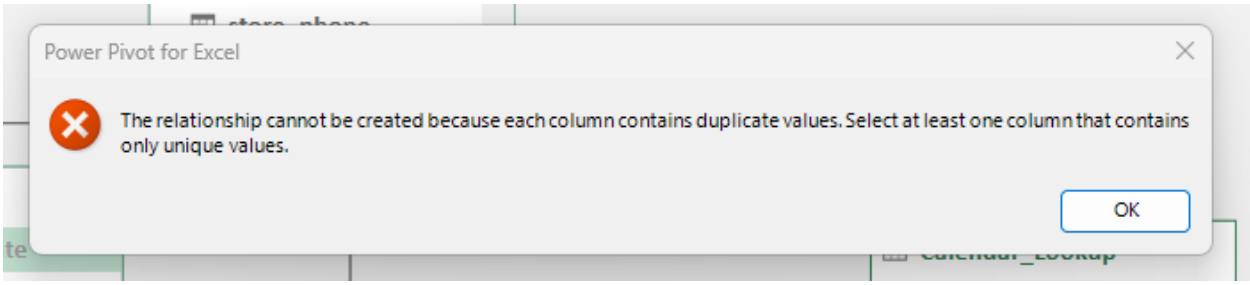
2) In **Diagram View**, draw out each relationship to recreate the fully connected data model:

- Connect **Transactions** to **Customer_Lookup**, **Store_Lookup** and **Product_Lookup**
- Connect **Transactions** to **Calendar_Lookup** on both *transaction_date* (***active***) and *stock_date* (***inactive***)
- Connect **Returns** to **Store_Lookup**, **Product_Lookup** and **Calendar_Lookup**
- Connect **Store_Lookup** to **Region_Lookup**

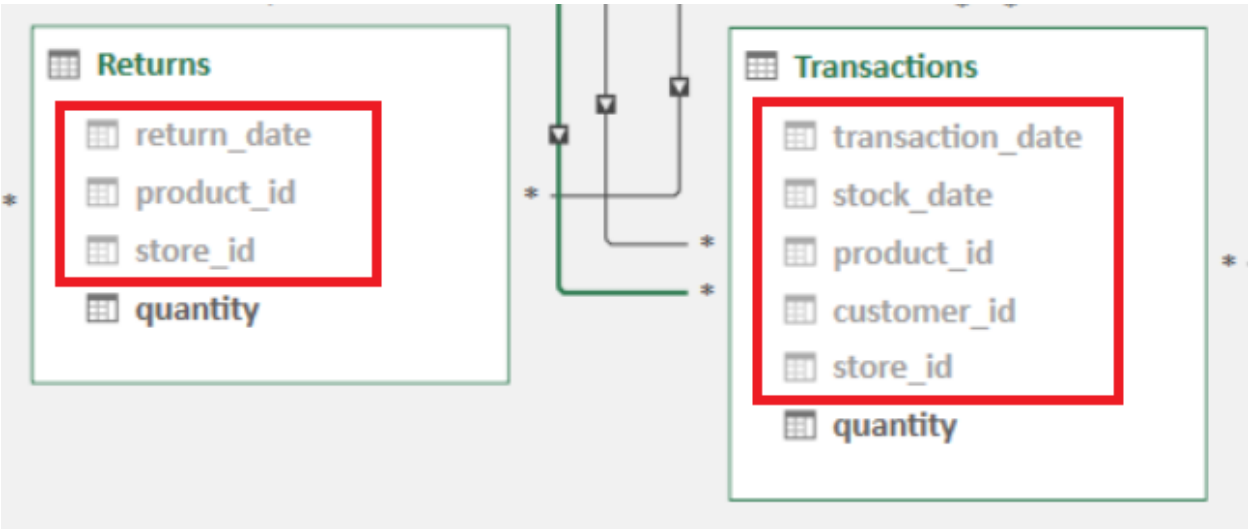


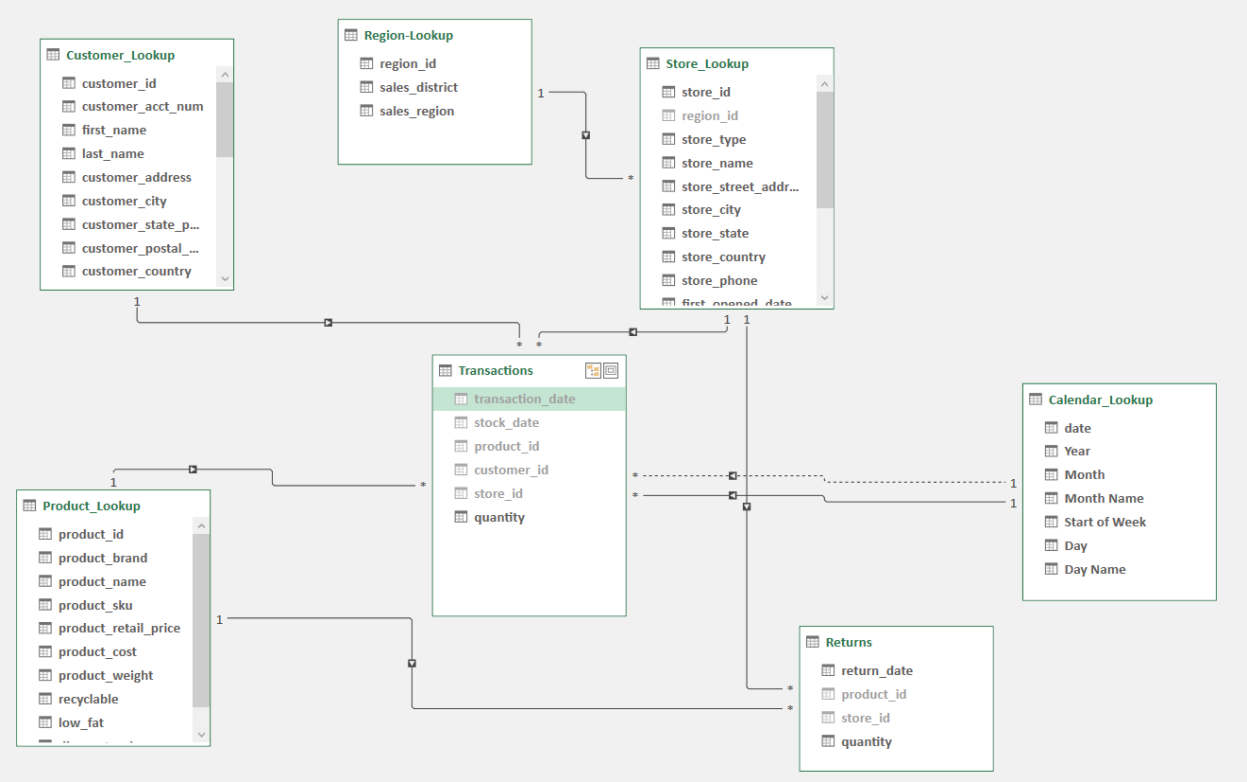
3) Try creating a relationship between *Transaction_Date* and *Return_Date*. What happens, and why?

→ The relationship cannot be created because each column contains duplicate values. This represents a "many-to-many" relationship

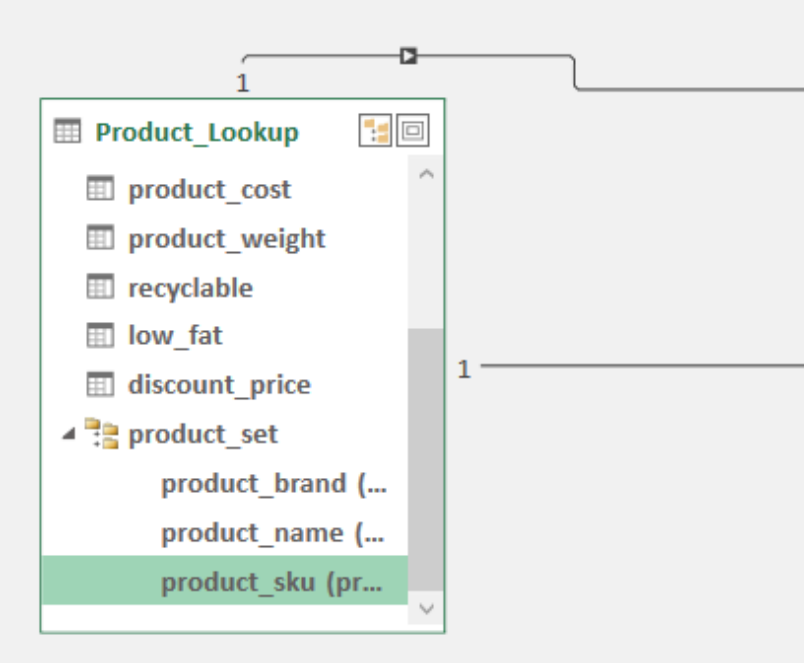


4) Hide all foreign key columns in the **Transactions** table using the **Diagram View**, then hide all foreign key columns in the **Returns** table by selecting the column headers in the **Data View**.





5) Create a **hierarchy** in the **Product_Lookup** table named *product_set*, containing *product_brand*, *product_name*, and *product_sku* (in that order)


1
Product_Lookup
product_cost
product_weight
recyclable
low_fat
discount_price
product_set
product_brand (...
product_name (...
product_sku (pr...
1