

## Power BI - Data Modelling - p3 - Lecture 11

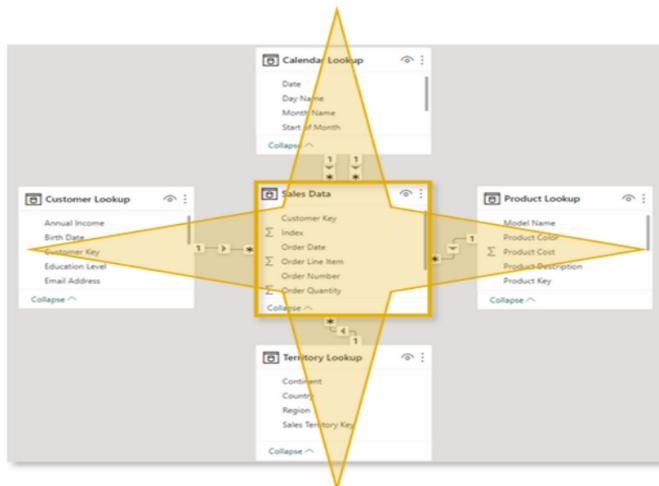
### MANAGING & EDITING RELATIONSHIPS

The screenshot shows two overlapping dialog boxes. The top dialog is titled 'Edit relationship' and displays two tables: 'Sales Data' and 'Customer Lookup'. It includes sections for 'Cardinality' (set to 'Many to one (\*:1)'), 'Cross filter direction' (set to 'Single'), and checkboxes for 'Make this relationship active' and 'Assume referential integrity'. Buttons for 'OK' and 'Cancel' are at the bottom. The bottom dialog is titled 'Manage relationships' and lists various relationships between tables like 'Product Lookup', 'Customer Lookup', and 'Sales Data'. It has buttons for 'New...', 'Autodetect...', 'Edit...', and 'Delete'. A yellow arrow points from the 'Edit...' button in the bottom dialog to the 'Edit...' button in the 'Edit relationship' dialog.

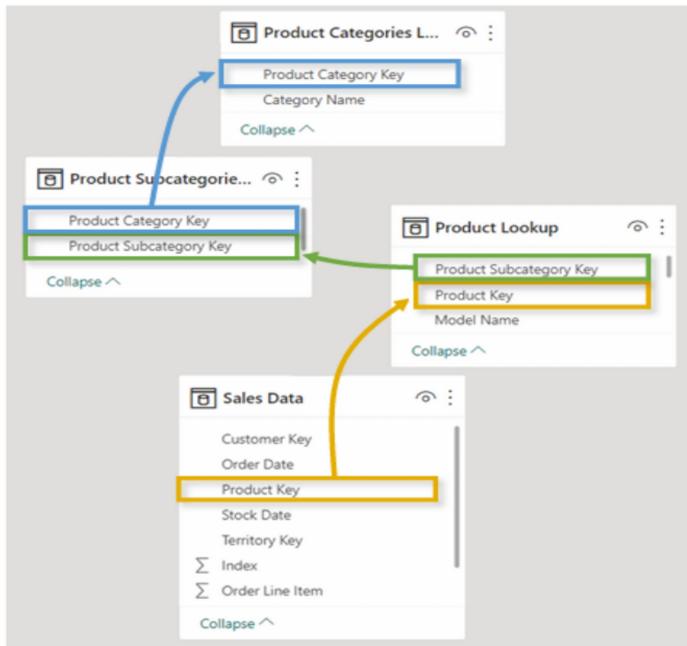
Launch the Manage Relationships dialog box or double-click a relationship to modify it

Editing tools allow you to activate or deactivate relationships and manage cardinality and filter direction— more on that soon!

### STAR & SNOWFLAKE SCHEMAS

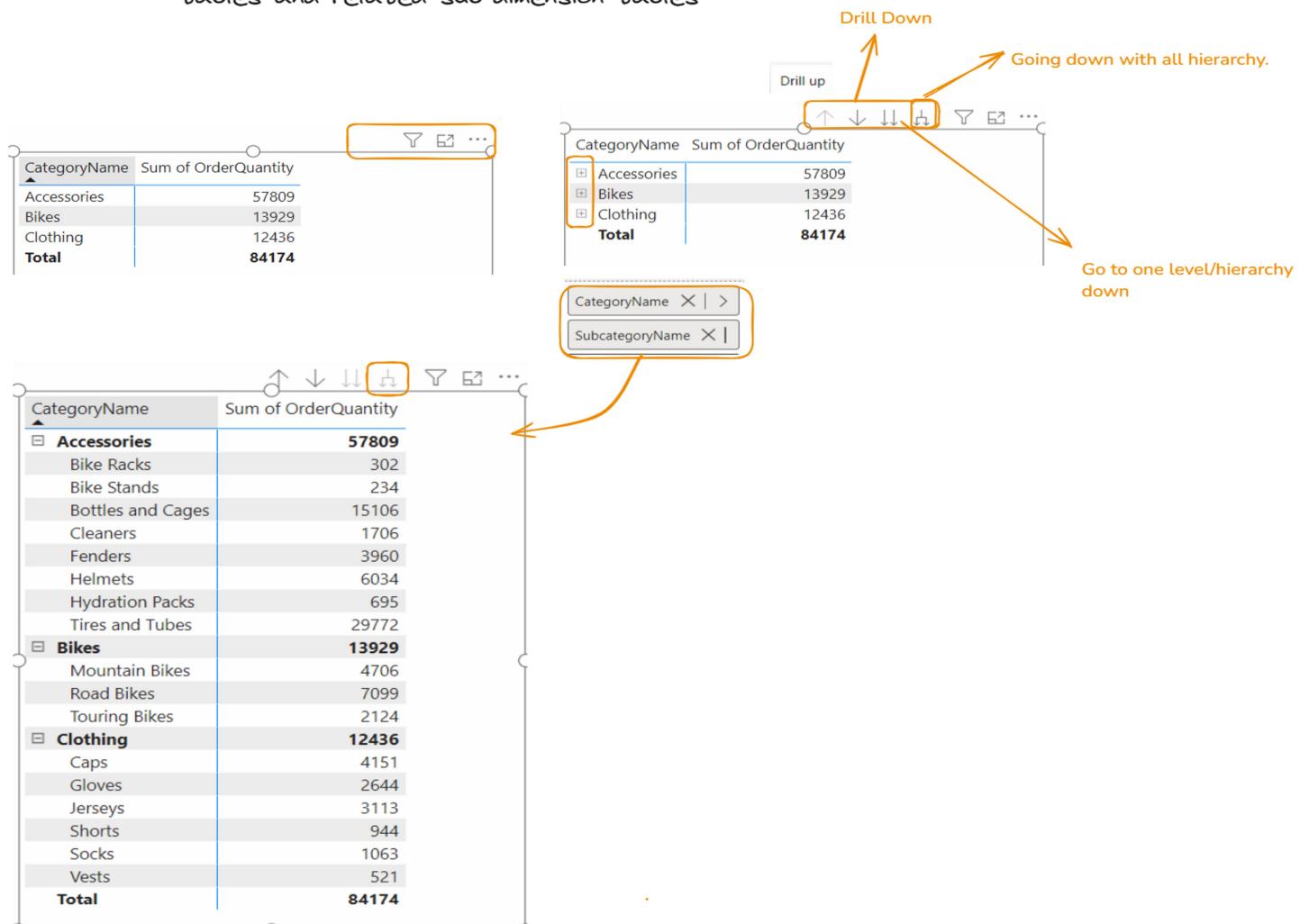


A star schema is the simplest and most common type of data model, characterized by a single fact table surrounded by related dimension tables



→ Product Category  
- Product SubCategory  
- Product

A snowflake schema is an extension of a star, and includes relationships between dimension tables and related sub-dimension tables



CategoryName	Sum of OrderQuantity
Accessories	57809
Bike Racks	302
Hitch Rack - 4-Bike	302
Bike Stands	234
All-Purpose Bike Stand	234
Bottles and Cages	15106
Mountain Bottle Cage	3810
Road Bottle Cage	3329
Water Bottle - 30 oz.	7967
Cleaners	1706
Bike Wash - Dissolver	1706
Fenders	3960
Fender Set - Mountain	3960
Helmets	6034
Sport-100 Helmet, Black	1940
Sport-100 Helmet, Blue	1995
Sport-100 Helmet, Red	2099
Hydration Packs	695
Hydration Pack - 70 oz.	695
Tires and Tubes	29772
HL Mountain Tire	1305
HL Road Tire	795
LL Mountain Tire	1560

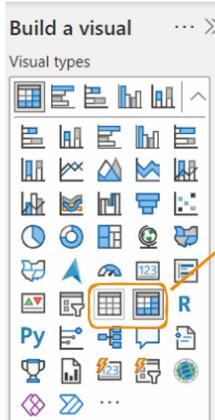


Table Vs Matrix: Table is a basic one that needs to add only new columns. On the other hand, Matrix is used to represent Rows, Columns, Values. Benefit of using Matrix visual is to use "Hierarchical Dataset" to drill up/down.

# Creating an individual Layout view.

Sales Data

- CustomerKey
- Index
- OrderDate
- OrderLineItem
- OrderNumber
- OrderQuantity
- ProductKey
- Quantity Type
- Retail Cost

**Right click**

All tables Sales View +

