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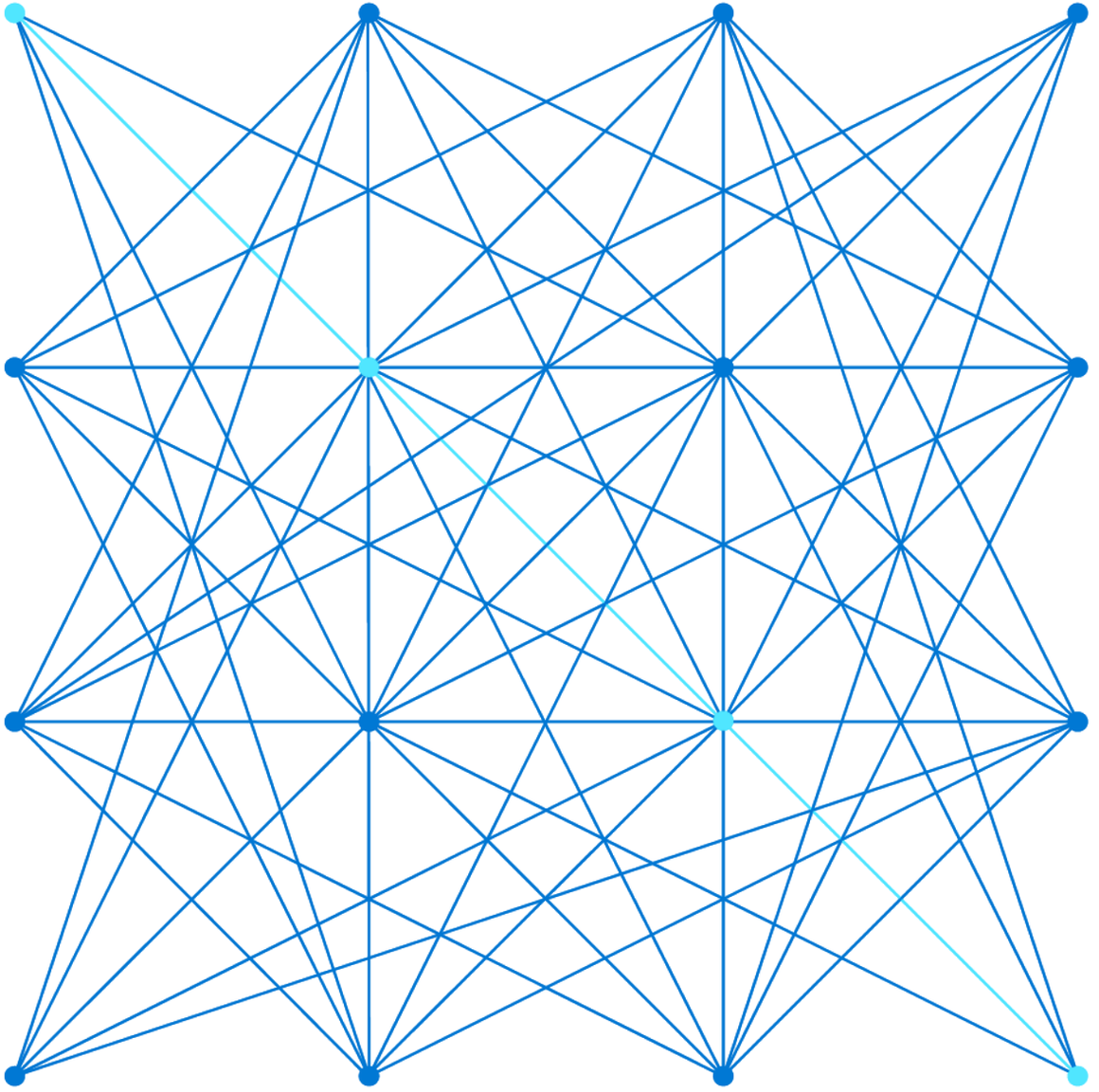
Online Role-based training resources:

Microsoft Learn

https://docs.microsoft.com/en-us/learn/

PL-300 Analyzing Data with Power BI



Module 3: Clean, Transform, and Load Data In Power BI

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Learning Objectives

You will learn the following concepts:

- Shaping the Data
- Profiling the Data
- Enhancing the structure of the data

Lesson 1: Shaping the Data

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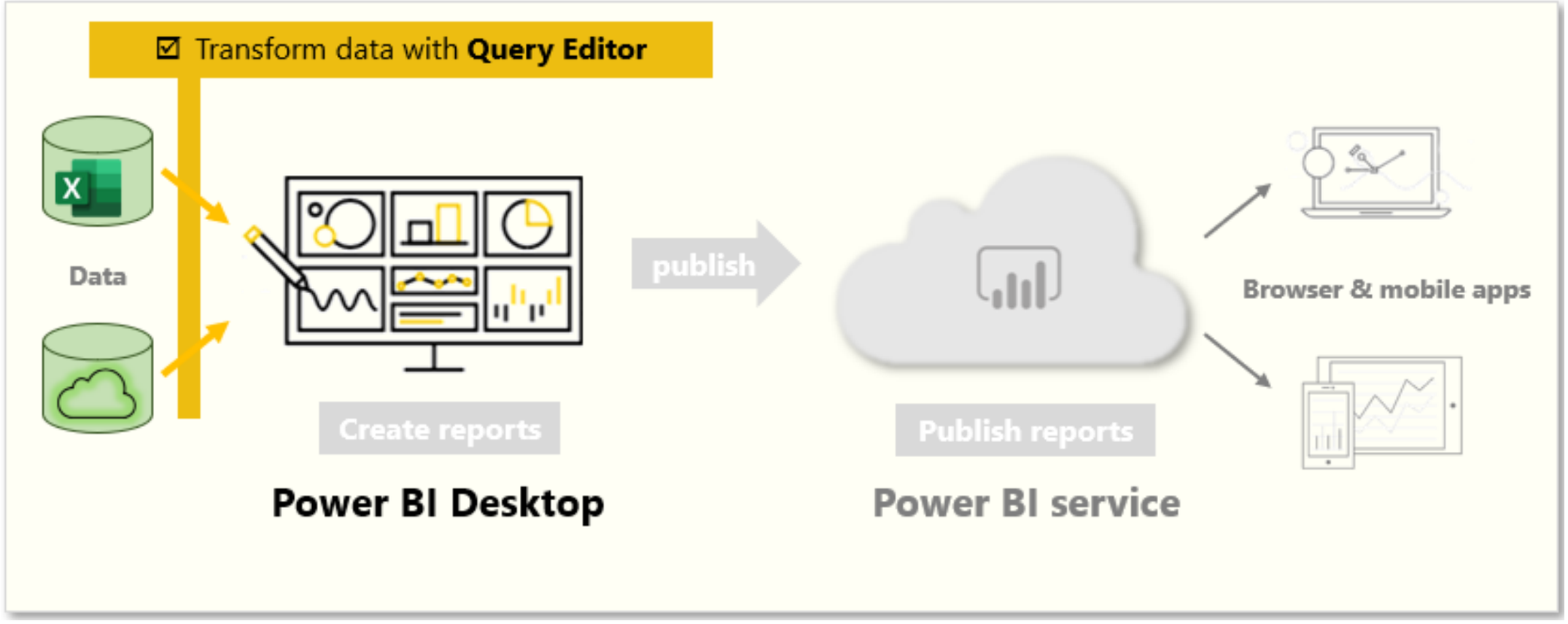
Introduction

- Benefits of clean data:
  - More accurate results
  - Better organized tables
  - Simpler data navigation
  - Human-readable values

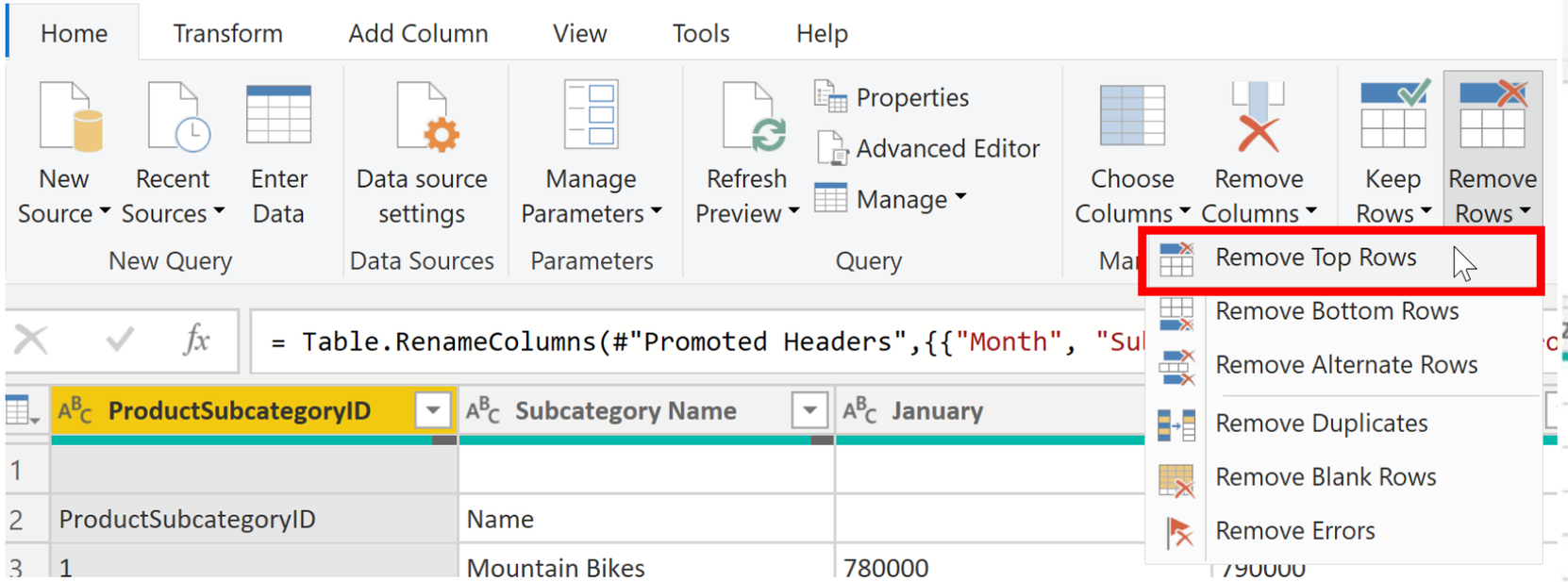
Identify column headers and names

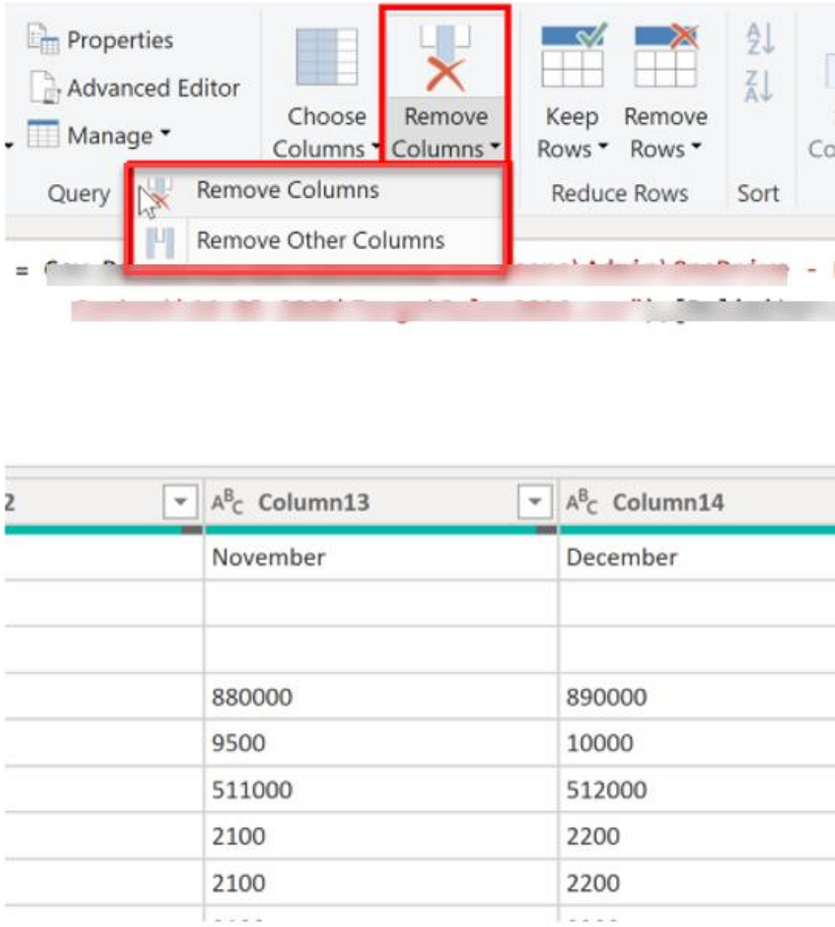
Use Power Query Editor to clean up and shape data.



Shaping Table Structure

Shape the data to meet reporting needs.

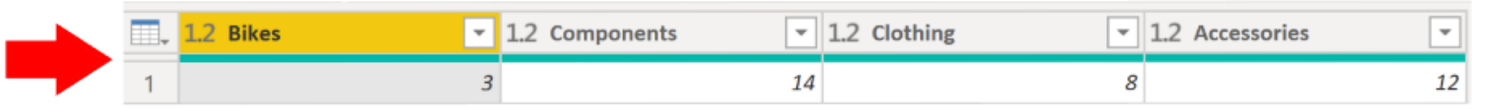




Unpivot and Pivot columns

Transfer data from rows to columns, and columns to rows.

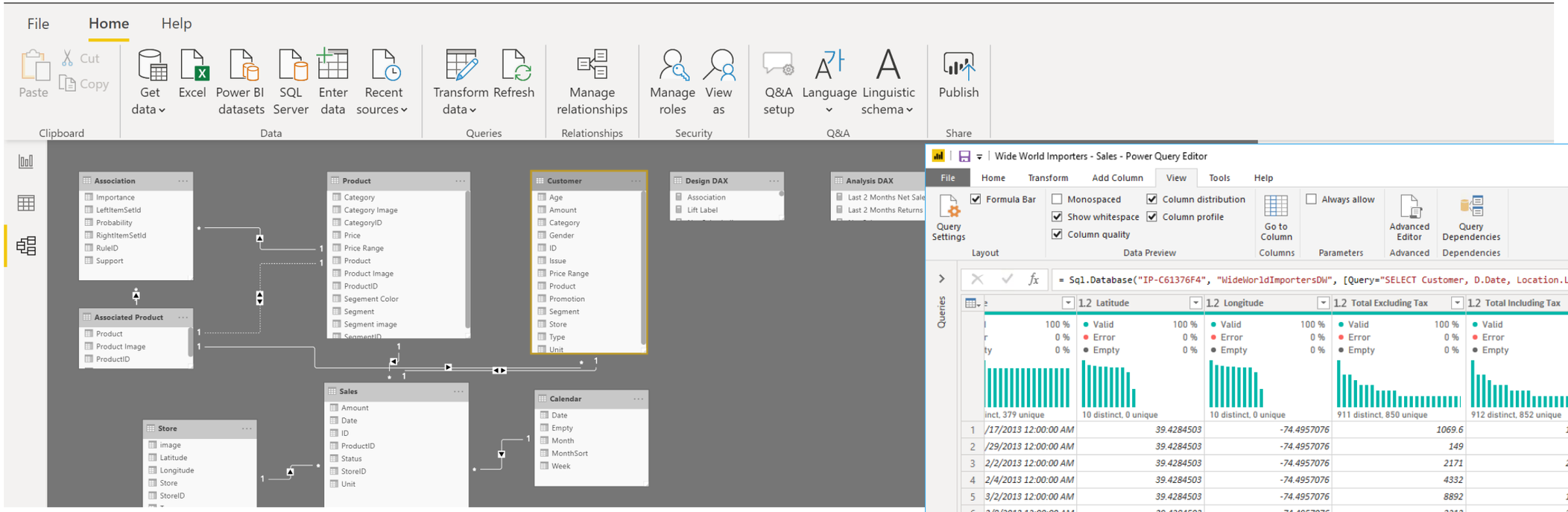
	Category Name	Subcategory Name
1	Bikes	Mountain Bikes
2	Bikes	Road Bikes
3	Bikes	Touring Bikes
4	Clothing	Bib-Shorts
5	Clothing	Caps
6	Clothing	Gloves
7	Clothing	Jerseys
8	Clothing	Shorts
9	Clothing	Socks
10	Clothing	Tights
11	Clothing	Vests
12	Accessories	Bike Racks
13	Accessories	Bike Stands
14	Accessories	Bottles and Cages

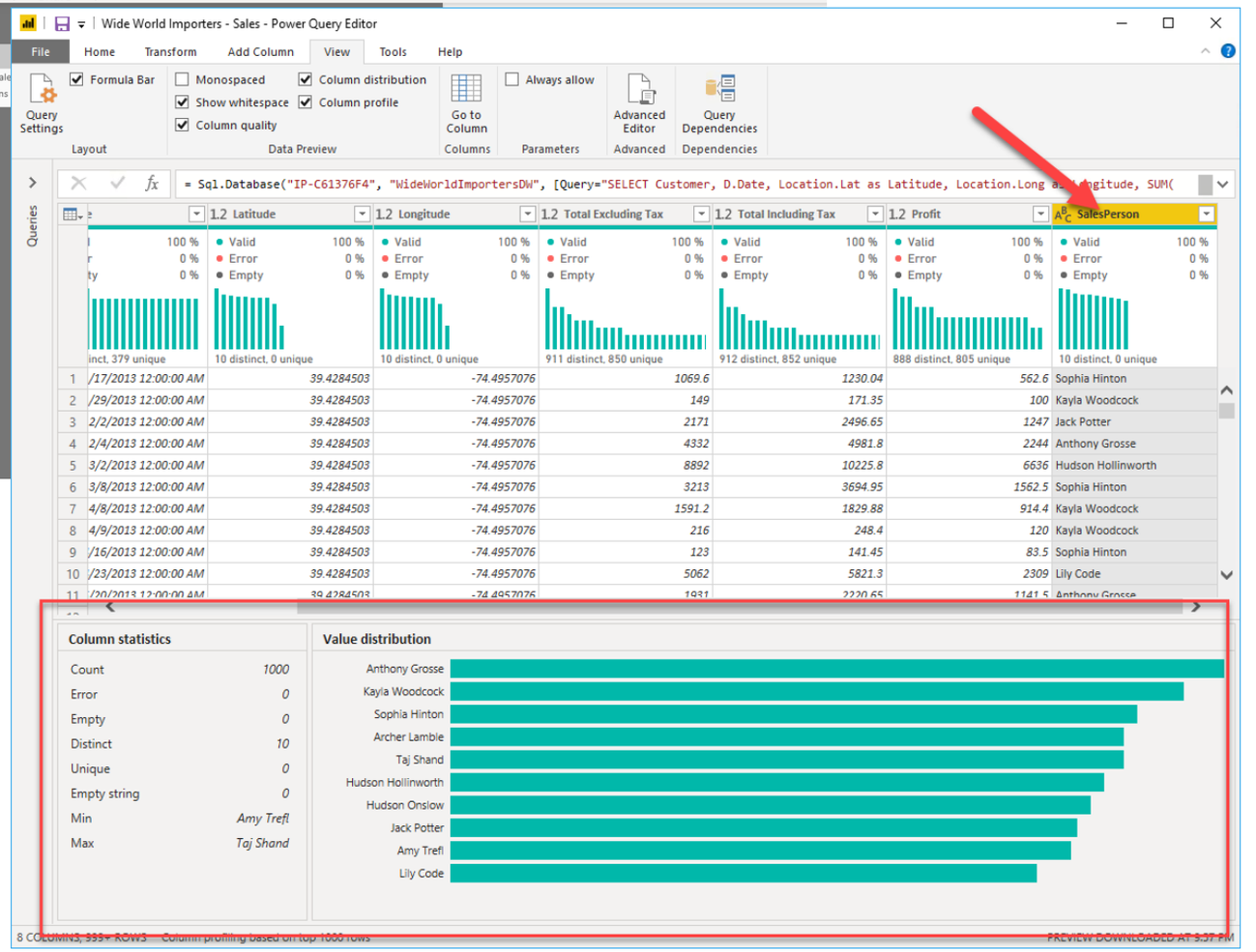


	1.2 Bikes	1.2 Components	1.2 Clothing	1.2 Accessories
1	3	14	8	12

Lesson 2: Profiling the Data

Profiling Data and Examining Structures

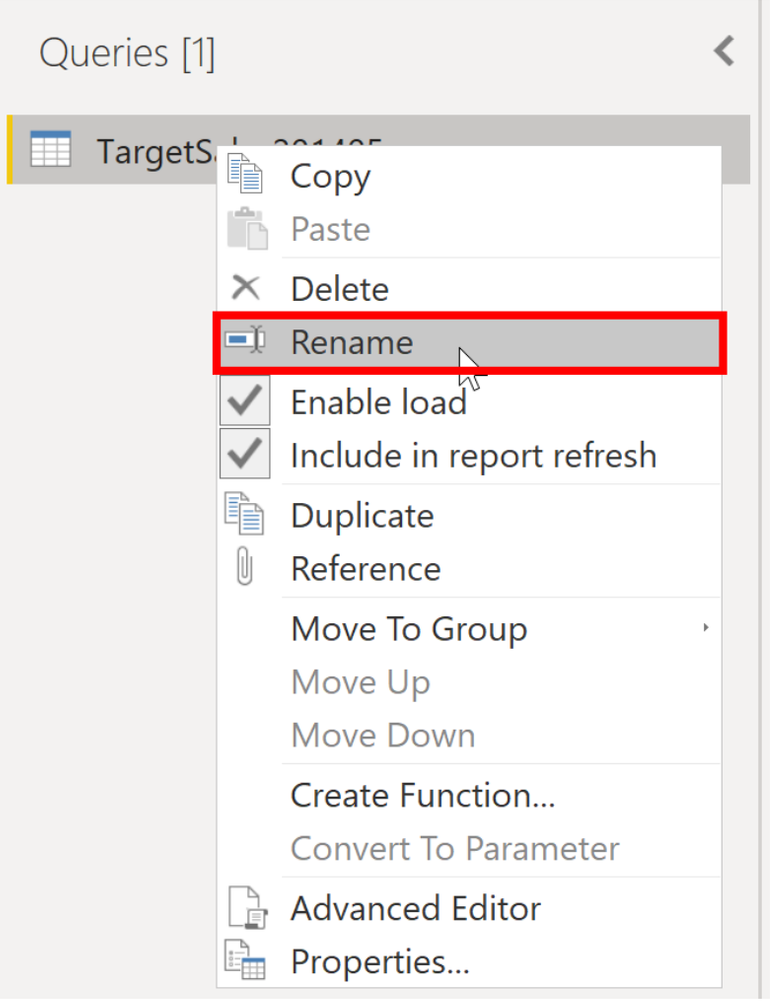




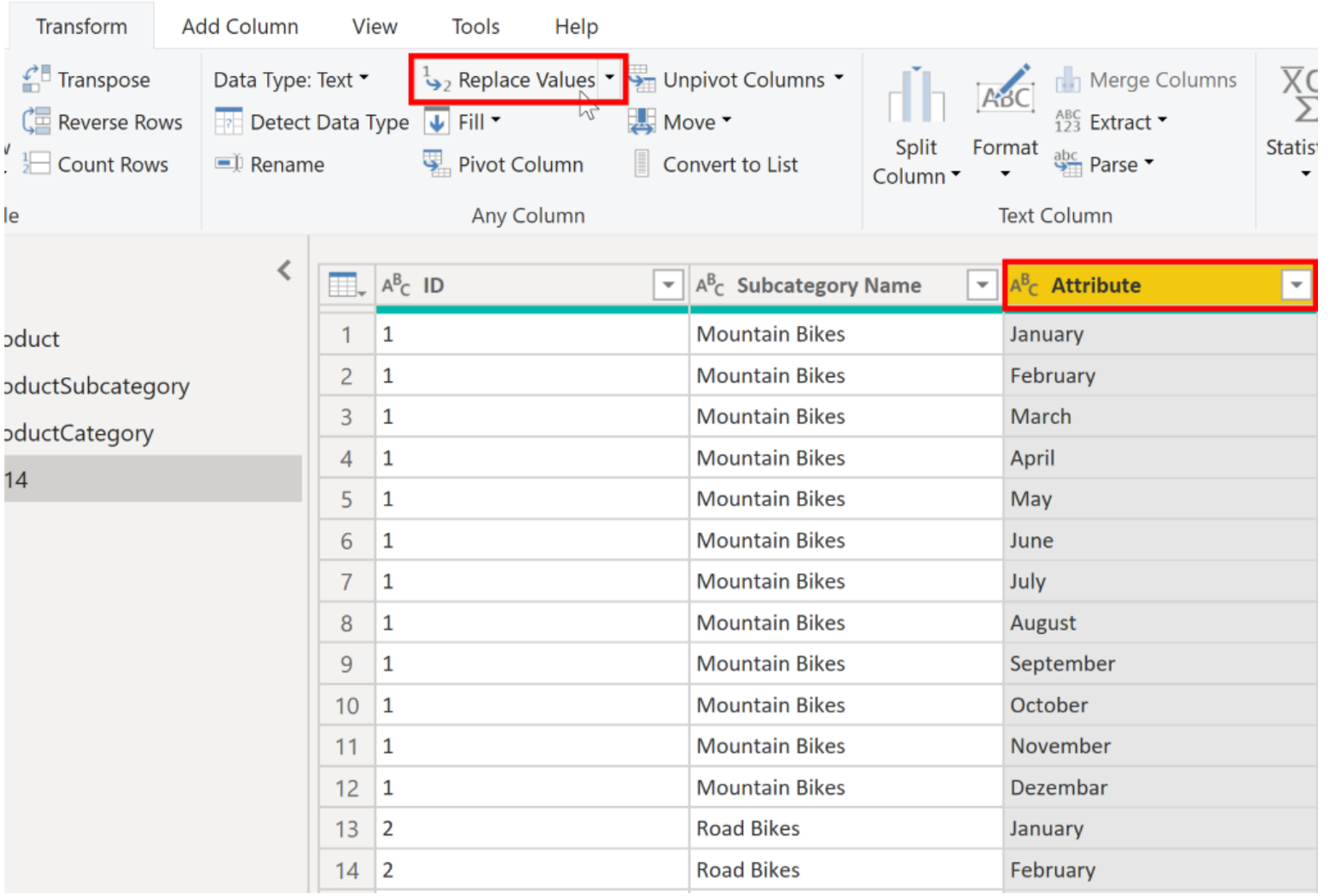
Data profiling is understanding the state and structure of the data you are working with.

Lesson 3: Enhance the Data Structure

Apply user-friendly value replacements



Make information user-friendly.



	ID	Subcategory Name	Attribute
1	1	Mountain Bikes	January
2	1	Mountain Bikes	February
3	1	Mountain Bikes	March
4	1	Mountain Bikes	April
5	1	Mountain Bikes	May
6	1	Mountain Bikes	June
7	1	Mountain Bikes	July
8	1	Mountain Bikes	August
9	1	Mountain Bikes	September
10	1	Mountain Bikes	October
11	1	Mountain Bikes	November
12	1	Mountain Bikes	Dezembar
13	2	Road Bikes	January
14	2	Road Bikes	February

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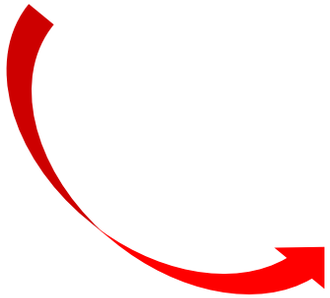
Evaluate and Change Column Data Types

	SalesOrderID	OrderDate	Sort_of_Sales	ProductID	OrderQty
1	52242	07/07/2013	Internet	870	1
2	52592	14/07/2013	Internet	870	1
3	52694	16/07/2013	Internet	870	1
4	52799	18/07/2013	Internet	870	1
5	53799	03/08/2013	Internet	870	1
6	54058	08/08/2013	Internet	870	1
7	54059	08/08/2013	Internet	870	1
8	54063	08/08/2013	Internet	870	1
9	54158	10/08/2013	Internet	870	1
10	54261	12/08/2013	Internet	870	1



Couldn't load the data for this visual

MdxScript(Model) (19, 40) Calculation error in measure 'Sales'[Quantity of Orders YTD]: A column specified in the call to function 'TOTALYTD' is not of type DATE. This is not supported.

Copy details

Send a Frown Close

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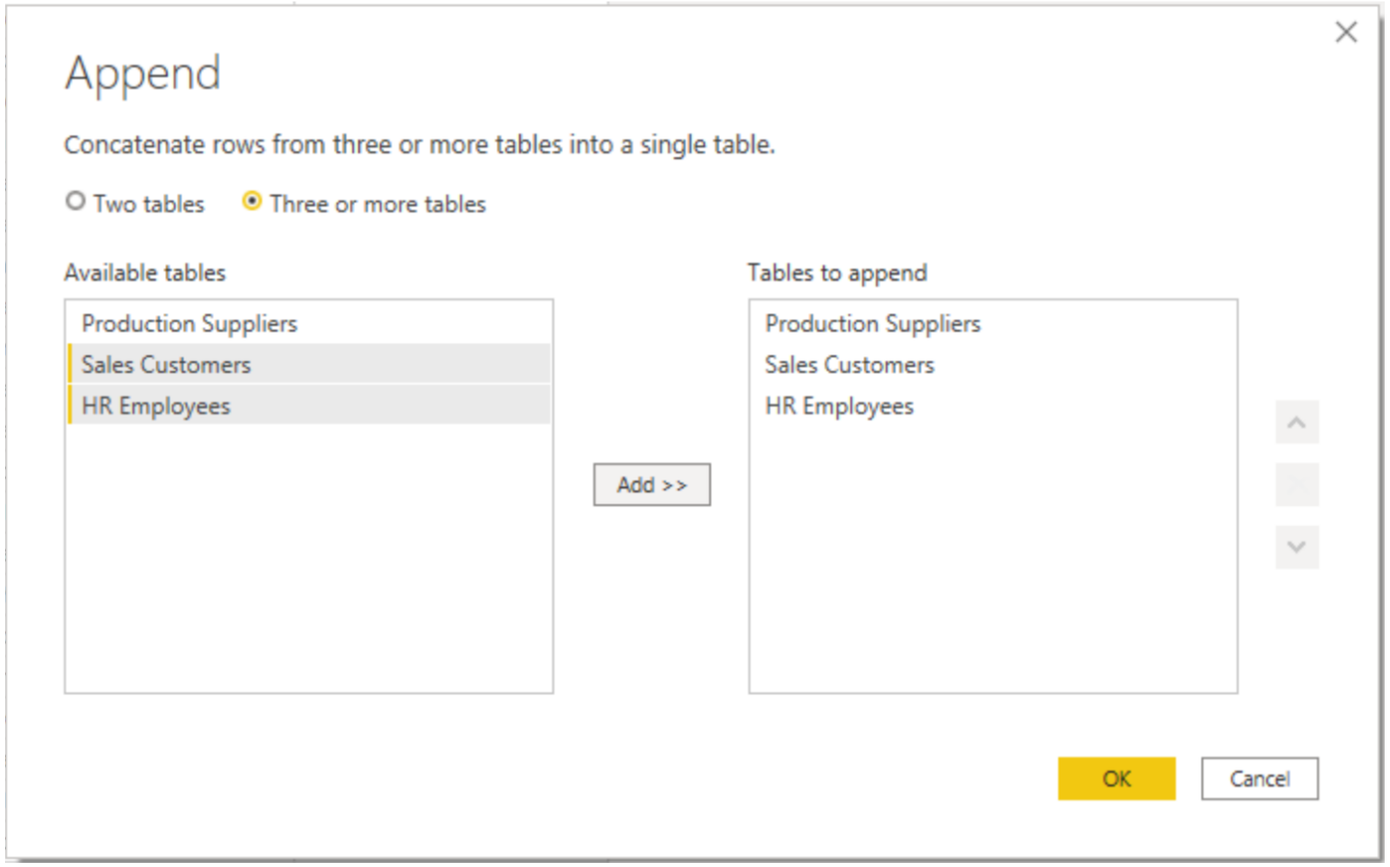
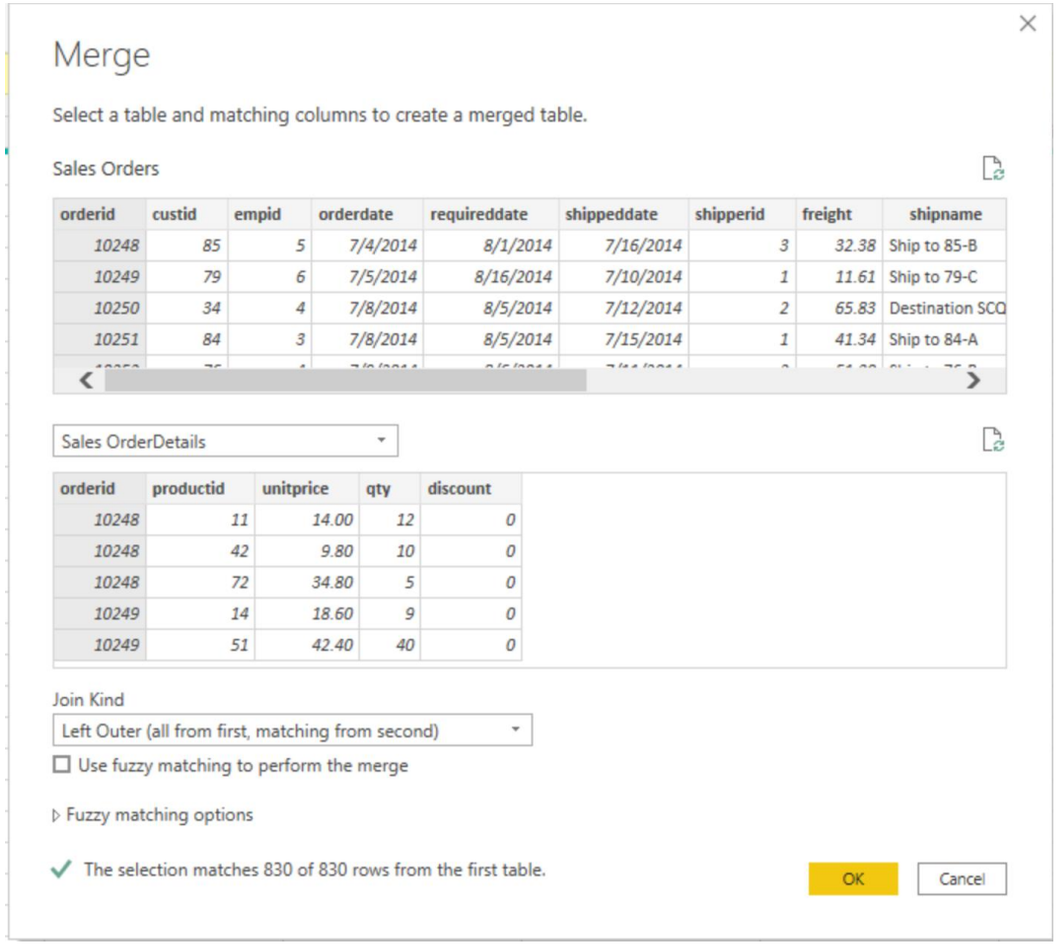
Combine Multiple Tables into a Single Table





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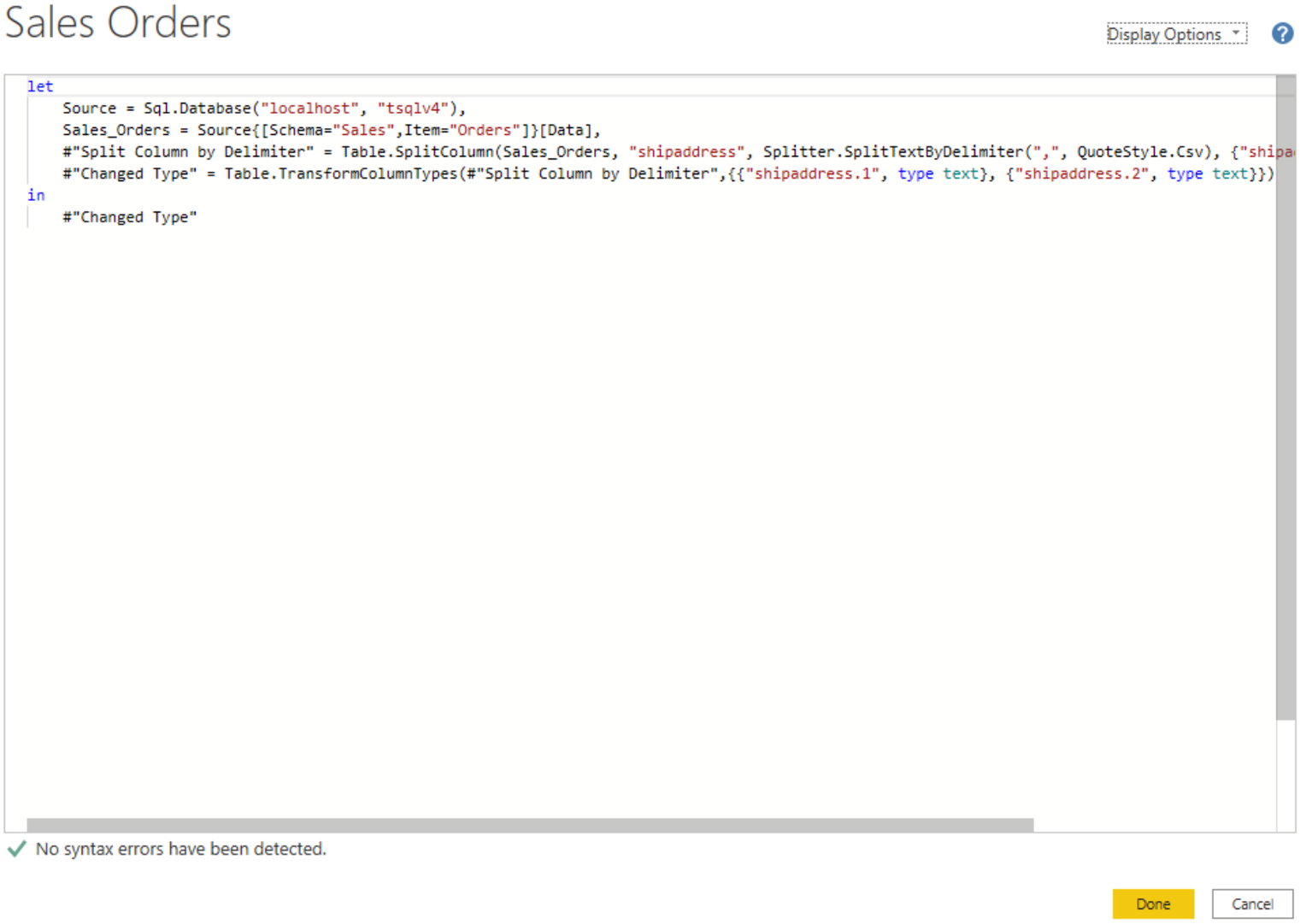
Use Advanced Editor to Modify M Code

See the code that Power Query Editor is creating with each step.



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Module Overview

We covered the following concepts:

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- Shaping the Data
- Enhancing the structure of the data

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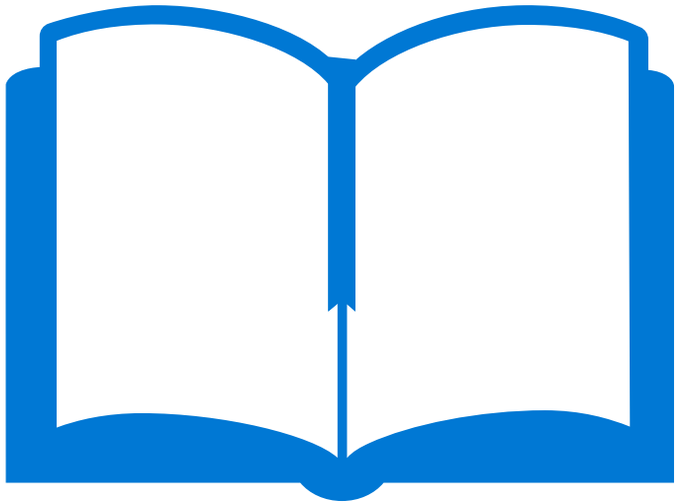
References

- PL-300 Clean, transform, and load data in Power BI

https://docs.microsoft.com/en-us/learn/modules/clean-data-power-bi/



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