

Power BI - End To End Project - 1

Calendar.csv
Customers.csv
ProductCategories.csv
ProductSubcategories.csv
Products.csv
Returns.csv
Sales2015.csv
Sales2016.csv
Sales2017.csv
Territories.csv

Product Categories > Product Subcategories > Products [Dimension]

Calendar -> Time Intelligence[DAX]

Customers -> Unique Customers[Dimension Table]

Territories[Dimension] -> Continent > Country > State [Map Visuals]

Sales-2015/16/17 [Fact Table] [Append Table]

Return [Fact Table]

Folder

Folder path

Queries [1]

Project Dataset

Content

Valid 100%

Error 0%

Empty 0%

10 distinct, 10 unique

Valid 100%

Error 0%

Empty 0%

1 distinct, 0 unique

Valid 100%

Error 0%

Empty 0%

10 distinct, 10 unique

Valid 100%

Error 0%

Empty 0%

10 distinct, 10 unique

Valid 100%

Error 0%

Empty 0%

8 distinct, 6 unique

Name

Calendar.csv

.csv

Name

Customers.csv

.csv

Name

ProductCategories.csv

.csv

Name

Products.csv

.csv

Name

ProductSubcategories.csv

.csv

Name

Returns.csv

.csv

Name

Sales2015.csv

.csv

Name

Sales2016.csv

.csv

Name

Sales2017.csv

.csv

Name

Territories.csv

.csv

Date accessed

31-08-2025 11:18:07

Date accessed

31-08-2025 10:18:19

Date accessed

31-08-2025 10:17:37

Date accessed

31-08-2025 10:17:37

Date accessed

31-08-2025 10:18:04

Date accessed

31-08-2025 10:17:37

Date accessed

31-08-2025 10:17:56

Date accessed

31-08-2025 10:17:40

Date accessed

31-08-2025 10:17:39

Date accessed

31-08-2025 10:17:38

Date modified

14-08-2025 14:50:58

Date modified

14-08-2025 14:50:58

Date modified

14-08-2025 14:50:58

Date modified

14-08-2025 14:50:58

Date modified

14-08-2025 14:50:58

Date modified

14-08-2025 14:50:58

Date modified

14-08-2025 14:50:59

Date modified

14-08-2025 14:50:59

Date modified

14-08-2025 14:50:59

Date created

31-08-2025 10:17:37

Date created

31-08-2025 10:17:37

Date created

31-08-2025 10:17:37

Date created

31-08-2025 10:17:37

Date created

31-08-2025 10:17:37

Date created

31-08-2025 10:17:37

Date created

31-08-2025 10:17:37

Date created

31-08-2025 10:17:37

Date created

31-08-2025 10:17:37

Attributes

Record

Attributes

Record

Attributes

Record

Attributes

Record

Attributes

Record

Attributes

Record

Attributes

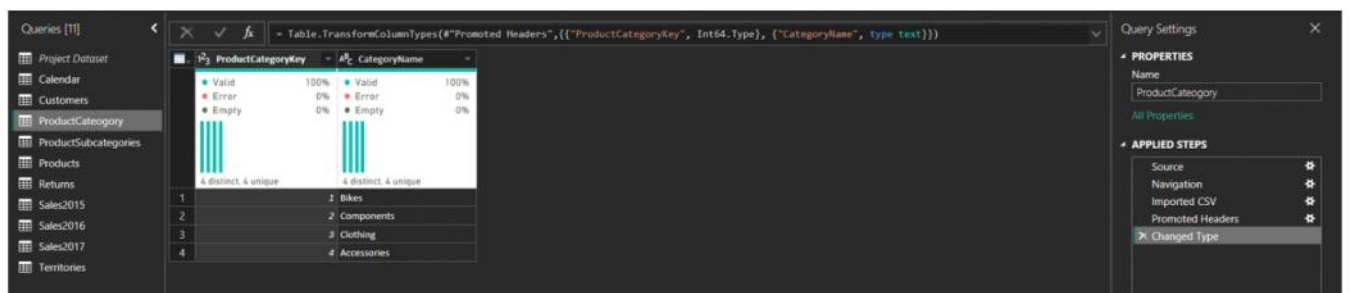
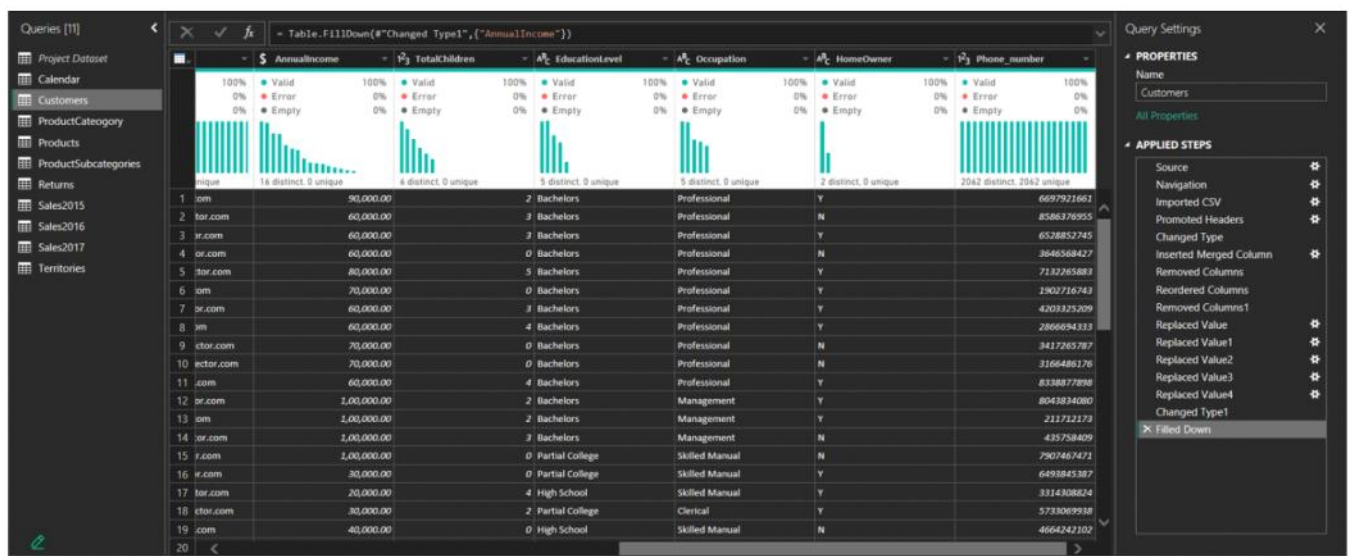
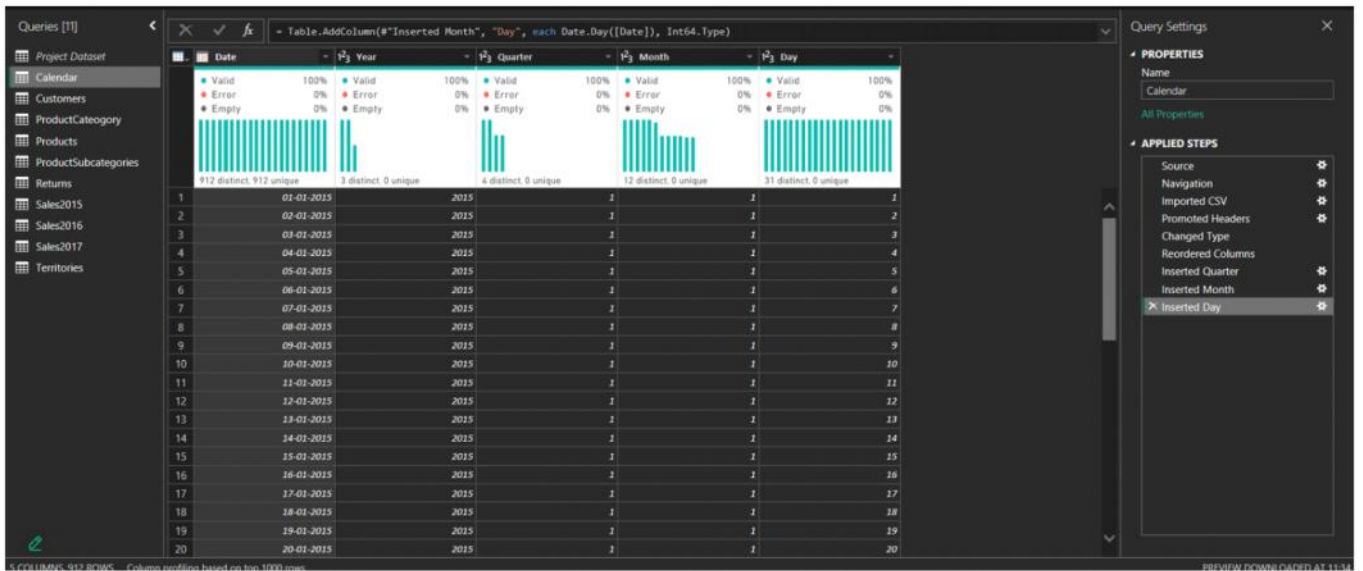
Record

Attributes

Record

Attributes

Record



Queries [11]

Project Dataset

Calendar

Customers

ProductCategory

ProductSubcategories

Products

Returns

Sales2015

Sales2016

Sales2017

Territories

Table.TransformColumnTypes(#"Promoted Headers",{"ProductSubcategoryKey", Int64.Type}, {"SubcategoryName", type text},

ProductSubcategoryKey

SubcategoryName

ProductCategoryKey

Valid 100% Error 0% Empty 0%

Valid 100% Error 0% Empty 0%

Valid 100% Error 0% Empty 0%

37 distinct, 37 unique

37 distinct, 37 unique

4 distinct, 5 unique

1 Mountain Bikes

2 Road Bikes

3 Touring Bikes

4 Handlebars

5 Bottom Brackets

6 Brakes

7 Chains

8 Cranksets

9 Derailleurs

10 Forks

11 Headsets

12 Mountain Frames

13 Pedals

14 Road Frames

15 Saddles

16 Touring Frames

17 Wheels

18 Bib Shorts

19 Caps

20 Gloves

Query Settings

PROPERTIES

Name

ProductSubcategories

APPLIED STEPS

Source

Navigation

Imported CSV

Promoted Headers

Changed Type

Queries [11]

Project Dataset

Calendar

Customers

ProductCategory

ProductSubcategories

Products

Returns

Sales2015

Sales2016

Sales2017

Territories

Table.TransformColumnTypes(#"Promoted Headers",{"ProductKey", Int64.Type}, {"ProductSubcategoryKey", Int64.Type}, {"ProductSKU", type text}, {"ProductName", type text}, {"ModelName", type text}, {"ProductDescription", type text},

ProductKey

ProductSubcategoryKey

ProductSKU

ProductName

ModelName

ProductDescription

Valid 100% Error 0% Empty 0%

Valid 100% Error 0% Empty 0%

Valid 100% Error 0% Empty 0%

Valid 100% Error 0% Empty 0%

Valid 100% Error 0% Empty 0%

Valid 100% Error 0% Empty 0%

293 distinct, 293 unique

37 distinct, 9 unique

293 distinct, 293 unique

293 distinct, 293 unique

119 distinct, 82 unique

115 distinct, 76 unique

1 HL-U509-R

2 HL-U509

3 SO-8909-M

4 SO-8909-L

5 HL-U509-B

6 CA-1098

7 LI-Q192-S

8 LI-Q192-M

9 LI-Q192-L

10 LI-Q192-X

11 FR-8928-62

12 FR-8928-44

13 FR-8928-48

14 FR-8928-52

15 FR-8928-56

16 FR-8388-58

17 FR-8388-60

18 FR-8388-62

19 FR-8388-44

20

Query Settings

PROPERTIES

Name

Products

APPLIED STEPS

Source

Navigation

Imported CSV

Promoted Headers

Changed Type

ReturnDate

TerritoryKey

ProductKey

ReturnQuantity

Valid 100% Error 0% Empty 0%

Valid 100% Error 0% Empty 0%

Valid 100% Error 0% Empty 0%

Valid 100% Error 0% Empty 0%

325 distinct, 128 unique

7 distinct

1 1/18/2015

2 1/18/2015

3 1/21/2015

4 1/22/2015

5 2/2/2015

6 2/15/2015

7 2/19/2015

8 2/24/2015

9 3/8/2015

10 3/13/2015

11 3/14/2015

12 3/15/2015

13 3/22/2015

14 3/26/2015

15 3/28/2015

16 3/28/2015

17 3/29/2015

18 4/1/2015

19 4/7/2015

20 4/7/2015

Change Type with Locale

Change the data type and select the locale of origin.

Data Type

Date

Locale

English (United States)

Sample input values:

3/29/2016

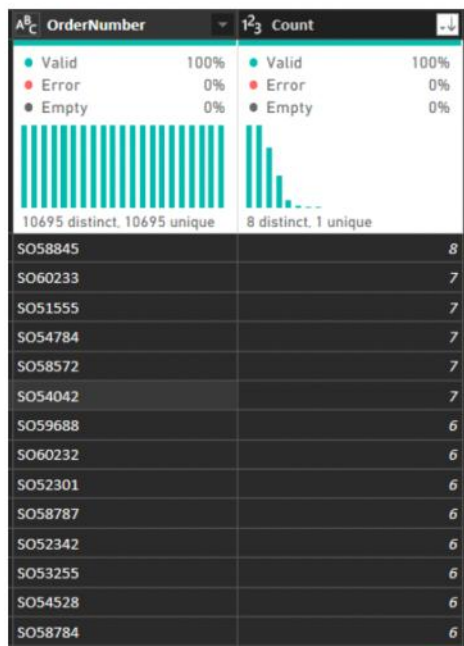
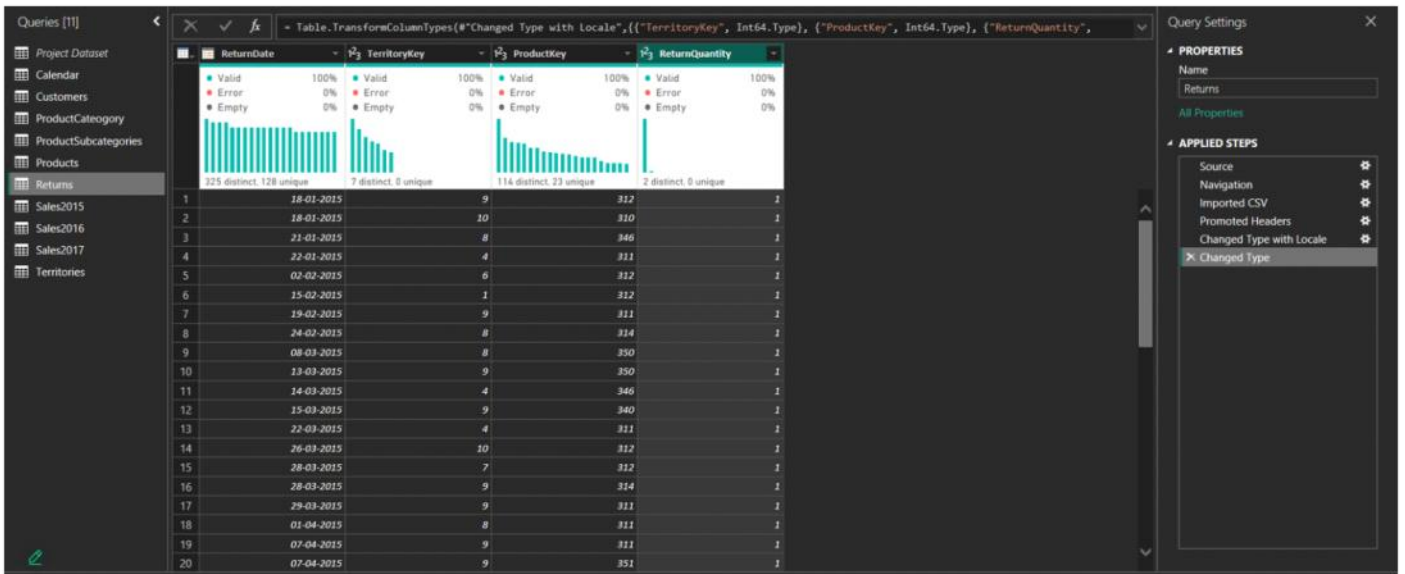
Tuesday, March 29, 2016

March 29

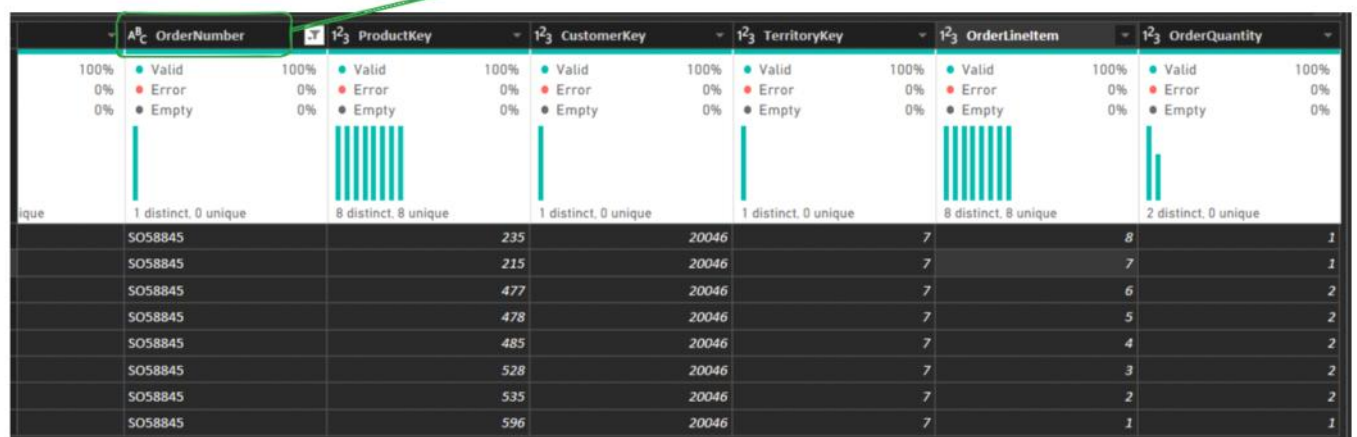
March 2016

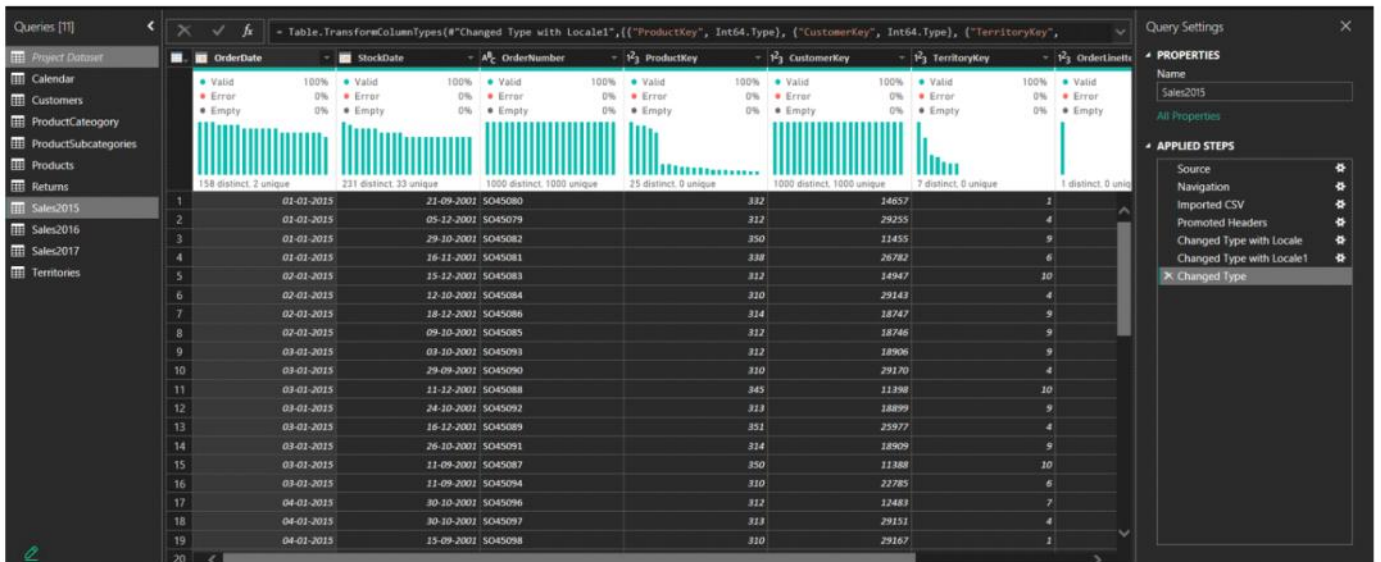
OK

Cancel



✗ Primary Key [Unique]





Append

Concatenate rows from three or more tables into a single table.

☐ Two tables ☒ Three or more tables

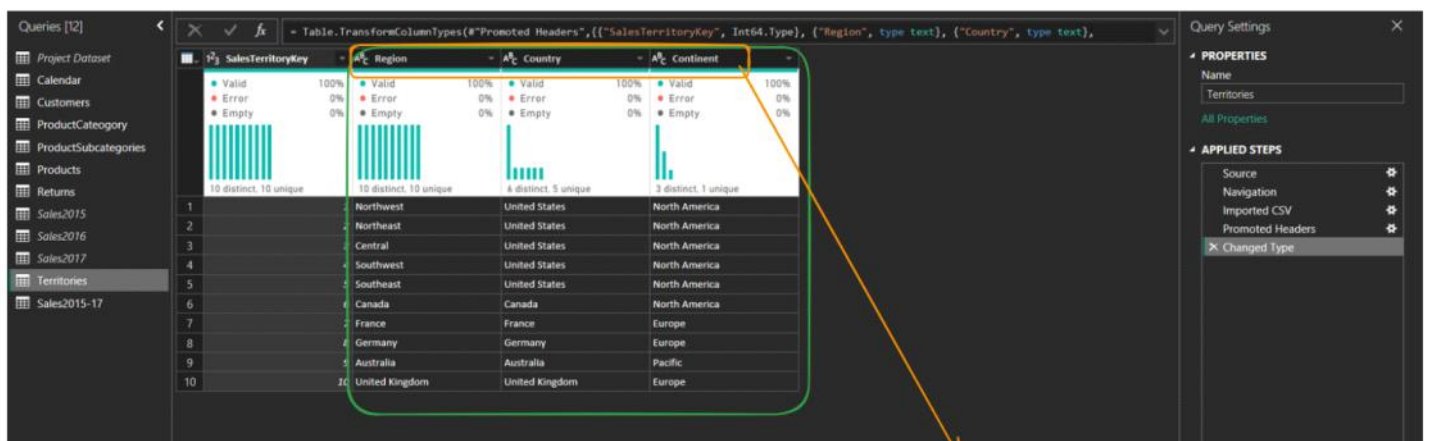
Available tables:

- Calendar
- Customers
- ProductCategory
- ProductSubcategories
- Products
- Returns
- Sales2015
- Sales2016
- Sales2017
- Territories

Tables to append:

- Sales2015
- Sales2016
- Sales2017

Buttons: Add >>, OK, Cancel



Continent > Country > Region [Hierarchy]

Data Category - Globe Icon

Manage relationships

+ New relationship Autodetect Edit Delete Filter

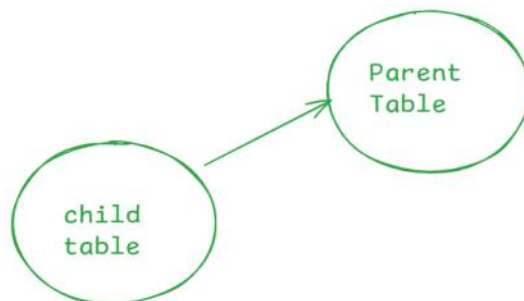
From: table (column) ↑	Relationship	To: table (column)	Status
Products (ProductSubcategoryKey)	1:1	ProductSubcategories (ProductSubcategoryKey)	Active
ProductSubcategories (ProductSubcategoryKey)	1:1	ProductCategory (ProductCategoryKey)	Active
Returns (ProductKey)	1:1	Products (ProductKey)	Active
Sales2015 (ProductKey)	1:1	Products (ProductKey)	Active
Sales2016 (ProductKey)	1:1	Products (ProductKey)	Active
Sales2017 (ProductKey)	1:1	Products (ProductKey)	Active
SalesRecord (ProductKey)	1:1	Products (ProductKey)	Active

ProductKey

Products	ProductKey
Returns	ProductKey
Sales2015	ProductKey
Sales2016	ProductKey
Sales2017	ProductKey
SalesRecord	ProductKey

✗ Enable Load

F.K



Data

Search

- Calendar
- Customers
- ProductCategory
- Products
- ProductSubcategories
- Returns
- SalesRecord
- Territories

Table	Columns
Sales2015	CustomerKey, OrderDate, OrderLineItem, OrderNumber, OrderQuantity, ProductKey, StockDate, TerritoryKey
Sales2016	CustomerKey, OrderDate, OrderLineItem, OrderNumber, OrderQuantity, ProductKey, StockDate, TerritoryKey
Sales2017	CustomerKey, OrderDate, OrderLineItem, OrderNumber, OrderQuantity, ProductKey, StockDate, TerritoryKey

The above ones are Dimension Table consist of P.K[Unique Values]

Calendar Territories Customers Products ProductSubcategories ProductCategory

This is not a Data Model 😊

CategoryName	Sum of OrderQuantity
Accessories	84174
Bikes	84174
Clothing	84174
Components	84174
Total	84174

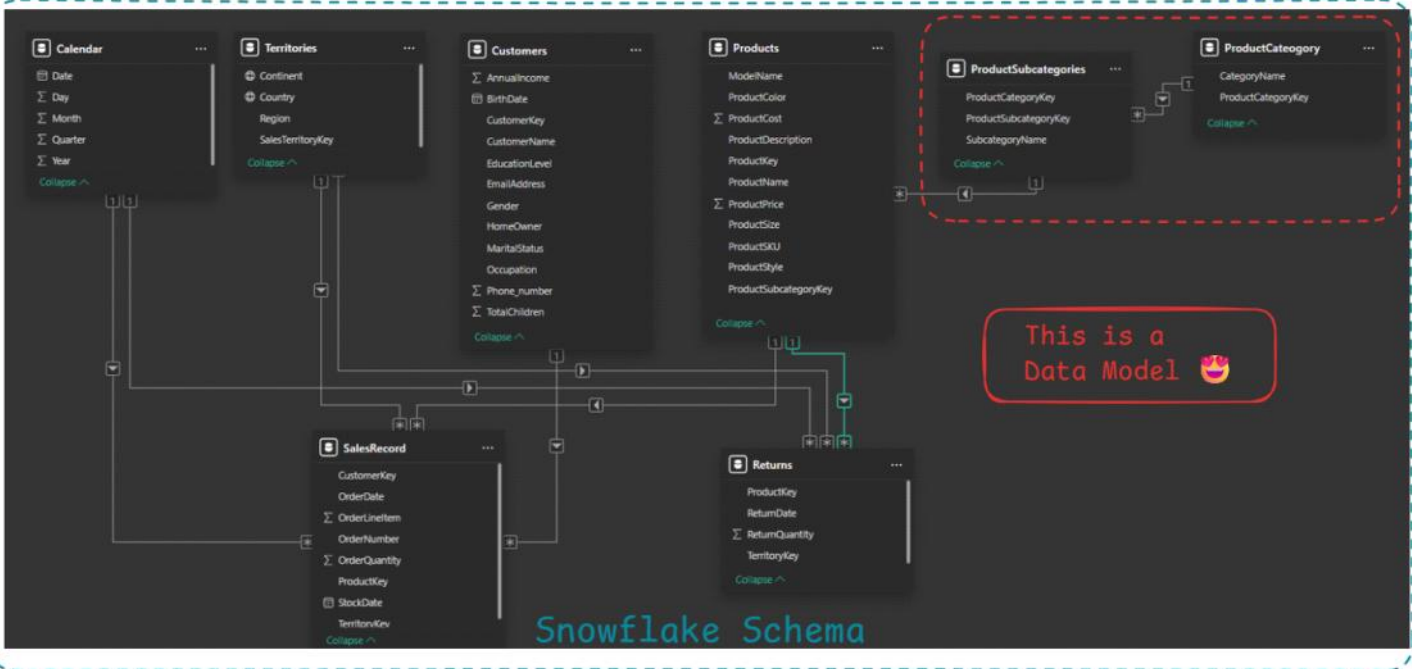
The below ones are Fact Table [having Transaction Record]

Note: Foreign Key and other Referenced Table are likely to be hidden in order to make Data Pane easily accessed with Primary Key for visualization

Star Schema -> At least 1 Fact Table with Multiple Dimension Table

Snowflake Schema -> [Star Schema] + Sub-Dimension Table

Sub-Dimension Table



CategoryName	Sum of OrderQuantity
Accessories	57809
Bikes	13929
Mountain Bikes	4706
Road Bikes	7099
Touring Bikes	2124
Clothing	12436
Caps	4151
Gloves	2644
Jerseys	3113
Shorts	944
Socks	1063
Vests	521
Total	84174

Rows	
CategoryName	▼ ×
SubcategoryName	▼ ×
ProductName	▼ ×
Columns	
Add data fields here	
Values	
Sum of OrderQuantity	▼ ×

Implicit Measures

Normalization

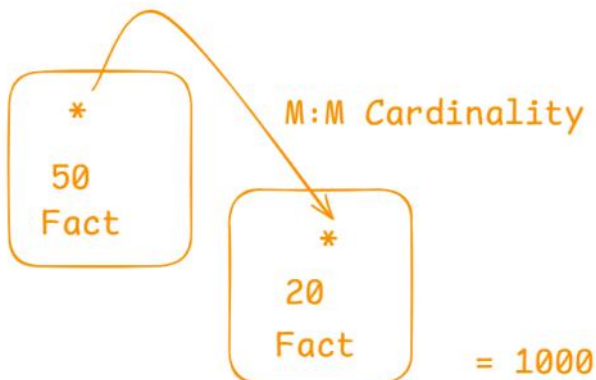
- No Redundant entries are allowed

SalesTerritoryKey	Region	Country	Continent
1	Northwest	United States	North America
2	Northeast	United States	North America
3	Central	United States	North America
4	Southwest	United States	North America
5	Southeast	United States	North America
6	Canada	Canada	North America
7	France	France	Europe
8	Germany	Germany	Europe
9	Australia	Australia	Pacific
10	United Kingdom	United Kingdom	Europe

$1 * X = X$ [1:M Cardinality]

$X * 1 = X$ [M:1 Cardinality]

ReturnDate	TerritoryKey	ProductKey	ReturnQuantity
03-07-2016	9	477	1
11-07-2016	4	477	1
22-07-2016	1	477	1
24-07-2016	10	477	1
02-08-2016	4	477	1
02-08-2016	6	477	1
10-08-2016	7	477	1
11-08-2016	6	477	1
12-08-2016	8	477	1
18-08-2016	7	477	1
23-08-2016	4	477	1
27-08-2016	6	477	1
27-08-2016	8	477	1
28-08-2016	6	477	1
29-08-2016	4	477	1
29-08-2016	7	477	1
30-08-2016	1	477	1
03-09-2016	1	477	1
04-09-2016	6	477	1
05-09-2016	1	477	1
05-09-2016	9	477	1
06-09-2016	4	477	1
09-09-2016	4	477	1
09-09-2016	7	477	1
13-09-2016	6	477	1
13-09-2016	7	477	1
16-09-2016	4	477	1



⚠ This relationship has cardinality Many-Many. This should only be used if it is expected that neither column (ProductKey and ProductKey) contains unique values, and that the significantly different behavior of Many-Many relationships is understood. [Learn more](#)

Territories	
Continent	
Country	
Region	
SalesTerritoryKey	
Territory Hierarchy	...
Continent	
Country	
Region	