

DATA MODELLING IN POWERBI

WHAT IS DATA MODELLING?

Data modeling in Power BI is about organizing your data so it's easy to analyze and create reports. It includes linking tables, creating new columns or calculations, and arranging data for better analysis. This helps turn raw data into useful insights for your Power BI reports and dashboards.

1.NORMALIZATION:

Normalization in data modeling is the process of organizing data in a way that reduces redundancy and improves data integrity. The goal is to structure the data into multiple related tables, rather than storing everything in one large table. This helps ensure that data is stored efficiently, and updates to data (like correcting information) are easier to manage.

KEY BENEFITS OF DATA NORMALIZATION:

- 1. Eliminate Redundancy:** Avoid storing the same data multiple times. For example, instead of repeating customer information in every transaction record, you store customer details in a separate table.
- 2. Minimize Anomalies:** Reduces the chances of data anomalies like update, insert, or delete anomalies, ensuring consistent data across tables.
- 3. Improve Efficiency:** By breaking down data into smaller tables, it's easier to manage and update, especially when dealing with large datasets.

2. FACT TABLE:

Purpose: Fact tables store the measurable data or key metrics you want to analyze, such as sales amounts, quantities, or revenue.

Example: The fact table might record

- **OrderDate:** Reference to when the sale happened.
- **Product Key:** Reference to the product sold.
- **Customer Key:** Reference to the customer who made the purchase.
- **Order Quantity:** Number of units sold.
- **StockDate:** The date stock was updated or an order was fulfilled.
- **TerritoryKey:** A unique identifier for a specific sales region or territory.

3.DIMENSION TABLE:

Purpose: Dimension tables store descriptive data that gives context to the facts. They help explain the "who," "what," "when," and "where" of the data.

1. **Customer Lookup Table:** Includes customer details like customer key, name, address, and demographics.
2. **Product Lookup Table:** Includes product details like productkey, name, category, and price.
3. **Calendar Lookup Table:** Includes Date, Dayname, month, quarters, and years for time-based analysis.
4. **Territory Lookup Table:** Includes country, region, Sales territory key

Sales Data
CustomerKey
OrderDate
OrderLineItem
OrderNumber
Collapse

4. FOREIGN KEY:

Definition: A column (or a set of columns) in one table that refers to the primary key in another table.

Purpose: Establishes relationships between tables.

Columns in Sales Table:

- **Customerkey** : Foreign key linking to the Customer Lookup Table.
- **Productkey**: Foreign key linking to the Product Lookup Table.
- **OrderDate**: Foreign key linking to the Calendar Lookup Table.
- **Territory key**: Foreign key linking to the Territory Lookup Table.
- **OrderQuantity**:The number of items ordered in a transaction.
- **StockDate**:The date stock was updated or an order was fulfilled.
- **OrderNumber**:A unique identifier for each order.

5.PRIMARY KEY:

Definition: A column (or a set of columns) in a table that uniquely identifies each record in that table.

Purpose: Ensures that each row in the table is unique and can be referenced by other tables.

A. CUSTOMER LOOKUP TABLE:

Primary Key: CustomerKey

Other Columns:Anual income

Birthdate

FirstName

LastName

EmailAddress

Occupation etc...

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New table

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La

Territory Lookup

Continent

Country

Region

SalesTerritoryKey

Collapse

Customer Lookup

AnnualIncome

BirthDate

CustomerKey

Domain Name

EducationLevel

EmailAddress

FirstName

Full Name

Gender

Collapse

Calendar Lookup

Date

Day Name

Month

Month Name

Start of Month

Collapse

Product Lookup

Discount Price

ModelName

ProductColor

ProductCost

ProductDescription

Collapse

Product Categories Loo...

CategoryName

ProductCategoryKey

Collapse

Sales Data

CustomerKey

OrderDate

OrderLineItem

OrderNumber

Collapse

All tables

+

Select a column with unique values

AnnualIncome

BirthDate

CustomerKey

Domain Name

EducationLevel

EmailAddress

FirstName

Full Name

Gender

HomeOwner

LastName

MaritalStatus

Select a column with unique values

Is hidden

No

Is featured table

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Edit

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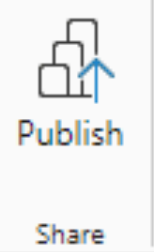
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Product Categories Loo..


 Sales Data ...

Σ CustomerKey

OrderDate

Σ OrderLineItem

OrderNumber

[Collapse](#) 

<<

Data

Data

9

B. PRODUCT LOOKUP TABLE:

Primary Key: ProductKey

Other Columns: Product Name

Product Price

ProductSKU

ProductColor

ProductStyle

ProductCost

ModelName

ProductSubcategorykey etc..

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Territory Lookup

Continent

Country

Region

SalesTerritoryKey

Collapse

Customer Lookup

AnnualIncome

BirthDate

CustomerKey

Domain Name

EducationLevel

EmailAddress

FirstName

Full Name

Gender

Collapse

Calendar Lookup

Date

Day Name

Month

Month Name

Start of Month

Collapse

Product Lookup

Discount Price

ModelName

ProductColor

ProductCost

ProductDescription

ProductKey

ProductName

ProductPrice

Collapse

Product Categories Loo...

CategoryName

ProductCategoryKey

Collapse

Sales Data

CustomerKey

OrderDate

OrderLineItem

OrderNumber

Collapse

All tables

+

Select a column with unique values

Discount Price

ModelName

ProductColor

ProductCost

ProductDescription

ProductKey

ProductName

ProductPrice

ProductSKU

ProductStyle

ProductSubcategoryKey

SKU Type

Select a column with unique values

Is hidden

No

Is featured table

No

Edit

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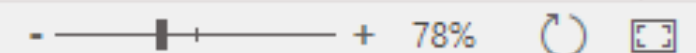
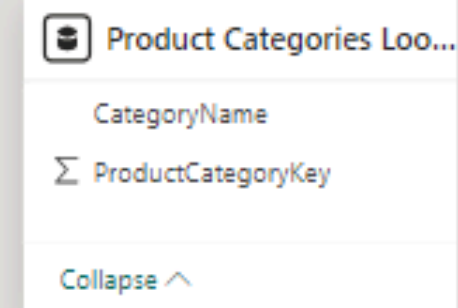
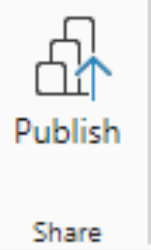
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C. CALENDAR LOOKUP TABLE:

Primary Key: Date

Other Columns:

DayName

Month

MonthName

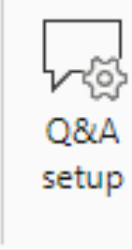
StartofMonth

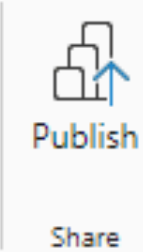
StartofQuarter

StartofWeek

StartofYear

Year

☐ No Edit



Product Categories Loo..

Properties

Synonyms

calendar lookup, lookup

Row label

Select a row label

Key column

Date

Is hidden

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D. TERRITORY LOOKUP TABLE:

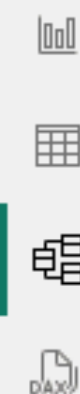
Primary Key: SalesTerritoryKey



Other Columns:


Continet

Country


Region




 Product Categories Look... 




Sales Data







CustomerKey




OrderDate



OrderLineItem



OrderNumber



Collapse

Data

Synonyms

territory lookup, lookup

Row label

Select a row label

Key column

Select a column with unique values


Select a column with unique values

Continent

Country

Region

SalesTerritoryKey

 Product Categories Loo..

CategoryName
Σ ProductCategoryKey

[Collapse ^](#)

Properties

	Entity & Description
1	Entity 1: [Description]
2	Entity 2: [Description]
3	Entity 3: [Description]
4	Entity 4: [Description]
5	Entity 5: [Description]
6	Entity 6: [Description]
7	Entity 7: [Description]
8	Entity 8: [Description]
9	Entity 9: [Description]
10	Entity 10: [Description]
11	Entity 11: [Description]
12	Entity 12: [Description]
13	Entity 13: [Description]
14	Entity 14: [Description]
15	Entity 15: [Description]
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18	Entity 18: [Description]
19	Entity 19: [Description]
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22	Entity 22: [Description]
23	Entity 23: [Description]
24	Entity 24: [Description]
25	Entity 25: [Description]
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98	Entity 98: [Description]
99	Entity 99: [Description]
100	Entity 100: [Description]

Synonyms

territory lookup, lookup

Row label

Select a row label

Key column

SalesTerritoryKey

Is hidden

☐ No

Is featured table

☒ No

E. PRODUCT CATEGORIES LOOKUP TABLE:

Primary Key: ProductCategoryKey

Other Columns: CategoryName


F. PRODUCT SUB CATEGORIES LOOKUP TABLE:

Primary Key: ProductSubCategoryKey

Other Columns: ProductCategoryKey

SubCategoryName



 Product Subcategories Lookup ...

- Σ ProductCategoryKey
- Σ ProductSubcategoryKey
- SubcategoryName

[Collapse ^](#)

Properties

Synonyms

product categories lookup, product category lookup, lookup, categories lookup, category lookup

Row label

Select a row label

Key column


Select a column with unique values

Select a column with unique values

CategoryName

ProductCategoryKey

☐ No

 Edit

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Calculation group

Manage roles

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Customer Lookup

AnnualIncome

BirthDate

CustomerKey

Domain Name

EducationLevel

EmailAddress

FirstName

Full Name

Gender

Collapse

Calendar Lookup

Date

Day Name

Month

Month Name

Start of Month

Collapse

Product Lookup

Discount Price

ModelName

ProductColor

ProductCost

ProductDescription

ProductKey

ProductName

ProductPrice

Collapse

Product Categories Lookup

CategoryName

ProductCategoryKey

Collapse

Product Subcategories Lookup

ProductCategoryKey

ProductSubcategoryKey

SubcategoryName

Collapse

Sales Data

CustomerKey

OrderDate

OrderLineItem

OrderNumber

Collapse

All tables

Properties

Synonyms

product subcategories lookup, product subcategory lookup, lookup, subcategories lookup, subcategory lookup

Row label

Select a row label

Key column

Select a column with unique values

Select a column with unique values

ProductCategoryKey




ProductSubcategoryKey


SubcategoryName




Edit

Data




 Product Subcategories Lookup  

 ProductCategoryKey

 ProductSubcategoryKey  

SubcategoryName

Collapse 

Properties

Synonyms

product subcategories lookup, product subcategory lookup, lookup, subcategories lookup, subcategory lookup

Row label

Select a row label

Key column

ProductSubcategoryKey

Is hidden

☐ No

Is featured table

☐ No Edit

6. CREATING TABLE RELATIONSHIPS:

Creating table relationships involves linking tables in a database or Power BI model to enable meaningful data analysis. These relationships define how data in one table is connected to data in another, ensuring that the model is well-structured and easy to query.

Establish Relationships:

- **One-to-Many (1:M):** One record in the primary table matches multiple records in the other (example: one customer → many orders).
- **Many-to-Many (M:M):** Multiple records in both tables relate to each other (example: many products ↔ many orders).
- **One-to-One (1:1):** One record in one table matches one record in the other (example: one employee → one profile)

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Territory Lookup

Continent

Country

Region

SalesTerritoryKey

Collapse

All tables

Manage relationships

+ New relationship

Autodetect

Edit

Delete

Filter

☐

From: table (column) ↑

Relationship

To: table (column)

Status

There are no relationships defined yet.

Close

Sign in

Share

Sensitivity

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categories lookup, product lookup, lookup, subcategories category lookup

w label

categoryKey

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Edit

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Enter data

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Territory Lookup

Continent

Country

Region

SalesTerritoryKey

Collapse

Customer Lookup

AnnualIncome

BirthDate

CustomerKey

Domain Name

EducationLevel

EmailAddress

FirstName

All tables

+

New relationship

Select tables and columns that are related.

From table

Customer Lookup

AnnualIncome	BirthDate	CustomerKey	Domain Name	EducationLevel	EmailAddress	FirstName
70000	01 April 1964	11009	Adventure W...	Bachelors	shannon38@...	Shannon
70000	11 September...	11106	Adventure W...	Bachelors	jessie9@adve...	Jessie
70000	05 November...	11109	Adventure W...	Bachelors	ruben1@adv...	Ruben

To table

Sales Data

CustomerKey	OrderDate	OrderLineItem	OrderNumber	OrderQuantity	ProductKey	StockDate
12570	05 July 2020	1	SO46718	1	360	03 June
12341	07 July 2020	1	SO46736	1	360	22 April
12356	12 July 2020	1	SO46776	1	360	05 May

Cardinality

One to many (1:*)

Cross-filter direction

Single

☒ Make this relationship active

☐ Assume referential integrity

☐ Apply security filter in both directions

Save

Cancel

Sign in

Share

Language

Linguistic schema

Sensitivity

Publish

Properties

Synonyms

product subcategories lookup, product subcategory lookup, lookup, subcategories lookup, subcategory lookup

Row label

Select a row label

Key column

ProductSubcategoryKey

Is hidden

No

Is featured table

No

Edit

78%

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22°C Partly cloudy

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FileHomeHelp

PasteCutCopy

Get dataExcel workbook data hub

Clipboard

Territory Lookup

ContinentCountryRegionSalesTerritoryKey

Collapse

All tables

Manage relationships

New relationshipAutodetect

EditDeleteFilter

	From: table (column) ↑	Relationship	To: table (column)	Status	
<input type="checkbox"/>	Sales Data (CustomerKey)	* ← 1	Customer Lookup (CustomerK...	Active	...

Close

Sign in

Share

SensitivityPublish

SensitivityShare

Column

CustomerKey

(*:1)

Column

CustomerKey

Relationship active

Direction

by filter in both directions

Apply changes

Open relationship editor

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Save

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Transform data

Refresh data

Manage relationships

New measure

New column

New table

Calculation group

Manage roles

View as

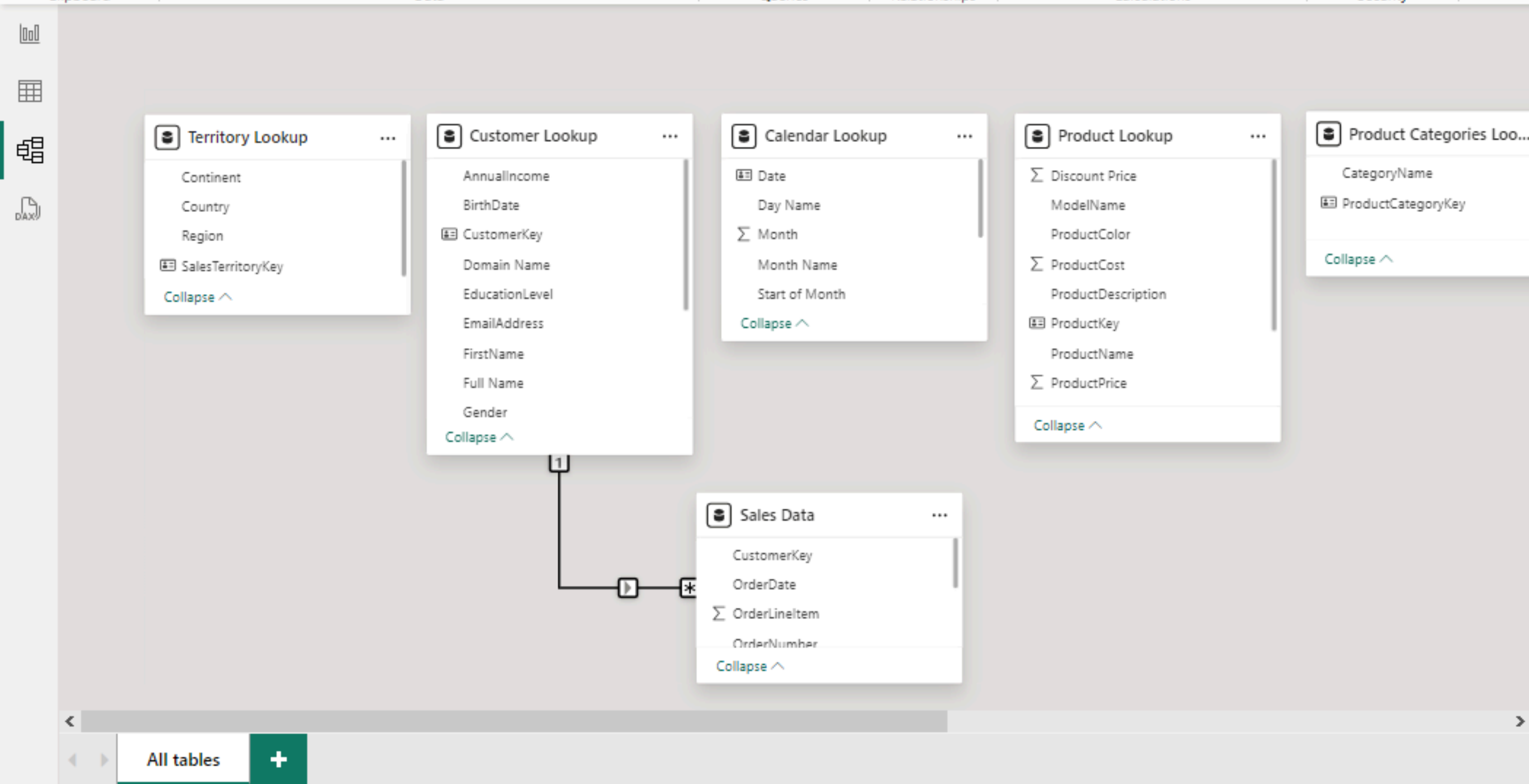
Q&A setup

Language

Linguistic schema

Sensitivity

Publish



Properties

Relationship

Table: Sales Data, Column: CustomerKey

Cardinality: Many to one (*:1)

Table: Customer Lookup, Column: CustomerKey

Make this relationship active: Yes

Cross-filter direction: Single

Apply security filter in both directions: No

Apply changes

Open relationship editor

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Get dataExcelOneLakeSQL

ClipboardData

Territory Lookup

ContinentCountryRegionSalesTerritoryKey

Collapse

Customer L

AnnualIncomeBirthDateCustomerKeyDomain NameEducationLevelEmailAddressFirstNameFull NameGender

Collapse

All tables

+

New relationship

Select tables and columns that are related.

From table

Sales Data

ate	OrderLineItem	OrderNumber	OrderQuantity	ProductKey	StockDate	TerritoryKey
2020	1	SO46718	1	360	03 June 2020	9
2020	1	SO46736	1	360	22 April 2020	9
2020	1	SO46776	1	360	05 May 2020	9

To table

Territory Lookup

Continent	Country	Region	SalesTerritor...
North America	United States	Northwest	1
North America	United States	Northeast	2
North America	United States	Central	3

Cardinality

Many to one (*:1)

☒ Make this relationship active

☐ Assume referential integrity

Cross-filter direction

Single

☐ Apply security filter in both directions

Save

Cancel

Sign in

Share

Language Linguistic schema

Sensitivity

Publish

Properties

General

Name

TerritoryKey

Description

Enter a description

Synonyms

territory key, TerritoryKey, key

Display folder

Enter the display folder

Is hidden

No

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Territory Lookup

ContinentCountryRegionSalesTerritoryKey

Collapse

Customer Lookup

AnnualIncomeBirthDateCustomerKeyDomain NameEducationLevelEmailAddressFirstNameFull NameGender

Collapse

All tables

New relationship

Select tables and columns that are related.

From table

Sales Data

CustomerKey	OrderDate	OrderLineItem	OrderNumber	OrderQuantity	ProductKey	StockDate
12570	05 July 2020	1	SO46718	1	360	03 June
12341	07 July 2020	1	SO46736	1	360	22 April
12356	12 July 2020	1	SO46776	1	360	05 May

To table

Calendar Lookup

Date	Day Name	Month	Month Name	Start of Month	Start of Quarter	Start of W
01 July 2020	Wednesday	7	July	01 July 2020	01 July 2020	29-06-2
02 July 2020	Thursday	7	July	01 July 2020	01 July 2020	29-06-2
03 July 2020	Friday	7	July	01 July 2020	01 July 2020	29-06-2

Cardinality

Many to one (*:1)

☒ Make this relationship active

☐ Assume referential integrity

Cross-filter direction

Single

☐ Apply security filter in both directions

Save

Cancel

Sign in

Share

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Language Linguistic schema

Sensitivity

Publish

Properties

General

Name

OrderDate

Description

Enter a description

Synonyms

order date, OrderDate, date

Display folder

Enter the display folder

Is hidden

No

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ClipboardData

Territory Lookup

ContinentCountryRegionSalesTerritoryKey

Collapse

Customer Lookup

AnnualIncomeBirthDateCustomerKeyDomain NameEducationLevelEmailAddressFirstNameFull NameGender

Collapse

All tables

New relationship

Select tables and columns that are related.

From table

Product Lookup

ModelName	ProductColor	ProductDescri...	ProductKey	ProductName	ProductSKU	ProductSt...
Sport-100	Black	Universal fit, ...	215	Sport-100 Hel...	HL-U509	N/A
LL Road Frame	Black	The LL Frame ...	253	LL Road Fram...	FR-R38B-58	U
LL Road Frame	Black	The LL Frame ...	256	LL Road Fram...	FR-R38B-60	U

To table

Sales Data

CustomerKey	OrderDate	OrderLineItem	OrderNumber	OrderQuantity	ProductKey	StockDate
12570	05 July 2020	1	SO46718	1	360	03 June
12341	07 July 2020	1	SO46736	1	360	22 April
12356	12 July 2020	1	SO46776	1	360	05 May

Cardinality

One to many (1:*)

Cross-filter direction

Single

☒ Make this relationship active

☐ Assume referential integrity

☐ Apply security filter in both directions

Save

Cancel

Sign in

Share

Language Linguistic schema

Sensitivity

Publish

Properties

General

Name

ProductKey

Description

Enter a description

Synonyms

product key, ProductKey, key

Display folder

Enter the display folder

Is hidden

No

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Manage relationships

New measureNew columnNew tableCalculation group

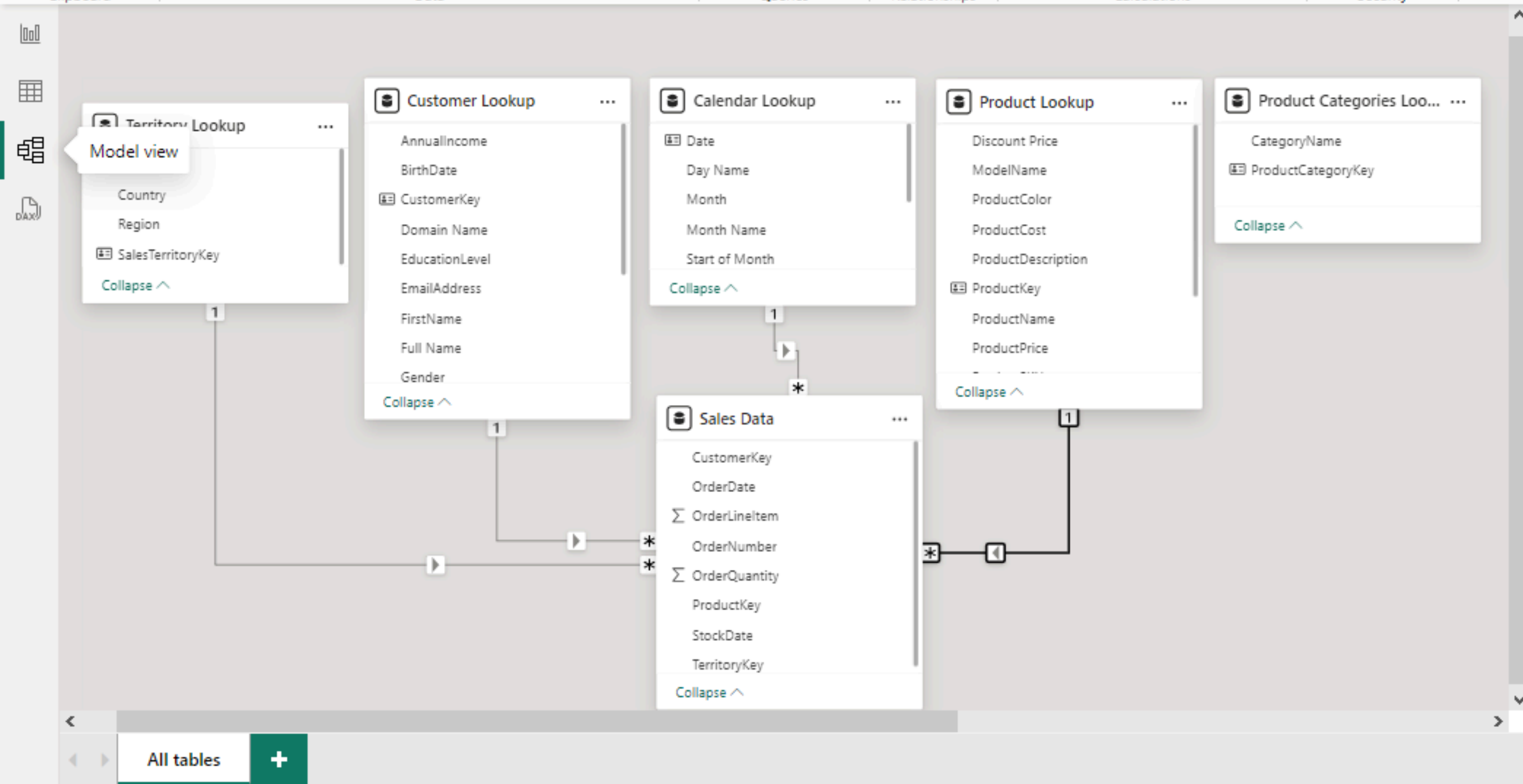
Manage rolesView as

Q&A setupLanguageQ&ALinguistic schema

Sensitivity

Publish

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Properties

Relationship

Table

Sales Data

Column

ProductKey

Cardinality

Many to one (*:1)

Table

Product Lookup

Column

ProductKey

Make this relationship active

Yes

Cross-filter direction

Single

Apply security filter in both directions

No

Apply changes

Open relationship editor

7. MANAGING AND EDITING RELATIONSHIPS:

- Review the relationships between tables to ensure they are correct.
- Adjust keys or relationships if they are not working as expected.
- Check relationship types (example: one-to-Many, Many-to-Many) to ensure accurate data connections.
- Update table connections to maintain accurate and meaningful analysis.
- Test and validate the relationships after editing to confirm the data is linked properly.

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Territory Lookup

ContinentCountryRegionSalesTerritoryKey

Collapse

All tables

Manage relationships

New relationshipAutodetect

EditDeleteFilter

	From: table (column) ↑	Relationship	To: table (column)	Status	
<input type="checkbox"/>	Sales Data (CustomerKey)	* ← 1	Customer Lookup (CustomerK...	Active	...
<input type="checkbox"/>	Sales Data (OrderDate)	* ← 1	Calendar Lookup (Date)	Active	...
<input type="checkbox"/>	Sales Data (ProductKey)	* ← 1	Product Lookup (ProductKey)	Active	...
<input type="checkbox"/>	Sales Data (TerritoryKey)	* ← 1	Territory Lookup (SalesTerritor...	Active	...

Close

Sign in

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Territory Lookup

ContinentCountryRegionSalesTerritoryKey

Collapse

All tables

Edit relationship

Select tables and columns that are related.

From table

Sales Data

ate	OrderLineItem	OrderNumber	OrderQuantity	ProductKey	StockDate	TerritoryKey
2020	1	SO46718	1	360	03 June 2020	9
2020	1	SO46736	1	360	22 April 2020	9
2020	1	SO46776	1	360	05 May 2020	9

To table

Calendar Lookup

Date	Day Name	Month	Month Name	Start of Month	Start of Quarter	Start of W
01 July 2020	Wednesday	7	July	01 July 2020	01 July 2020	29-06-2
02 July 2020	Thursday	7	July	01 July 2020	01 July 2020	29-06-2
03 July 2020	Friday	7	July	01 July 2020	01 July 2020	29-06-2

Cardinality

Many to one (*:1)

Cross-filter direction

Single

☐ Make this relationship active

☐ Assume referential integrity

☐ Apply security filter in both directions

Save

Cancel

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Sensitivity

Publish

Properties

Cards

Show the database in the header when applicable

No

Show related fields when card is collapsed

Yes

Pin related fields to top of card

No

78%

10:51 PM 09-12-2024

FileHomeHelp

PasteCutCopy

Get dataExcelOneLakeSQL ServerEnter dataDataverseRecent sources

Transform dataRefresh data

Manage relationships

New measureNew columnNew tableCalculation group

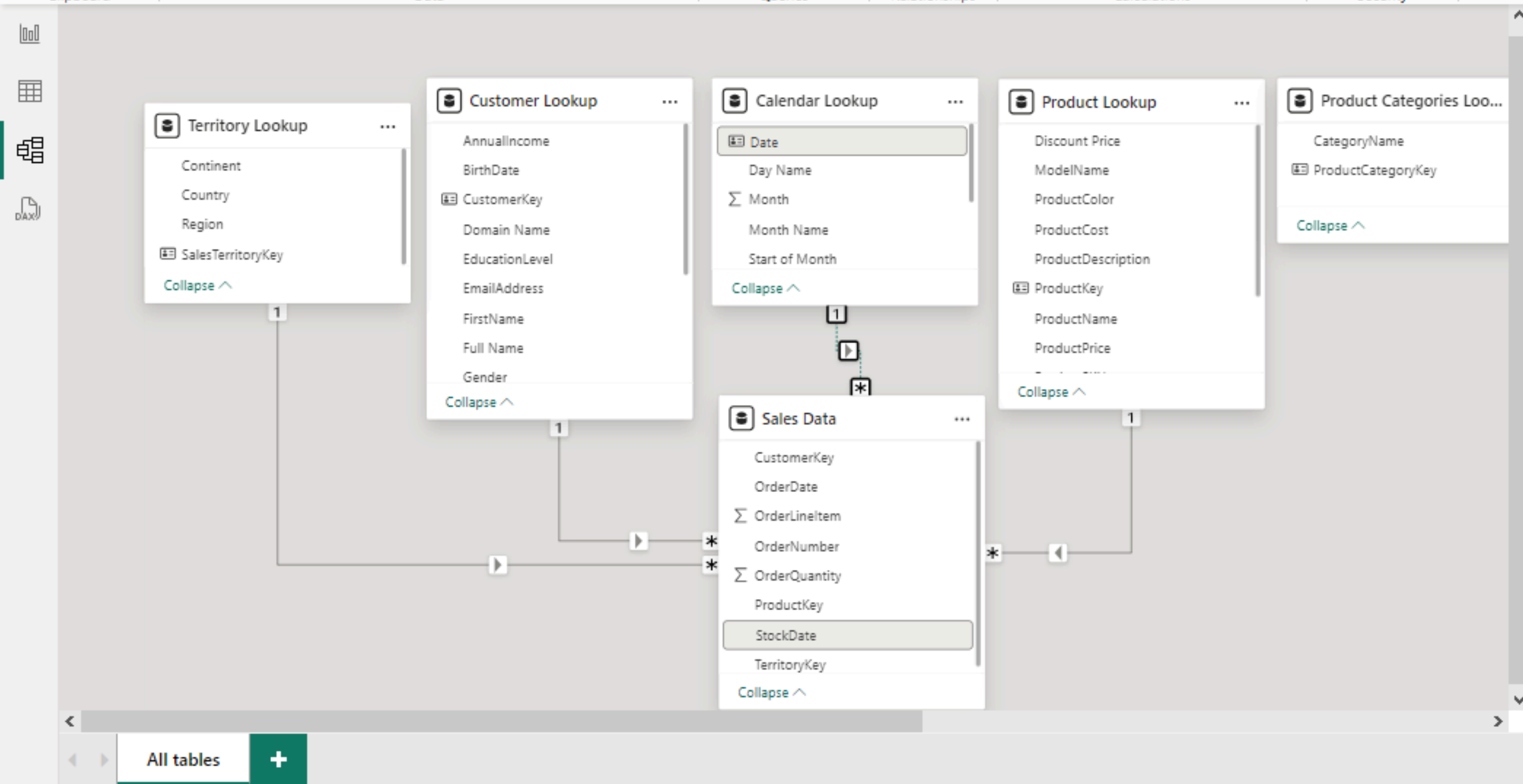
Manage rolesView as

Q&A setupLanguageQ&ALinguistic schema

Sensitivity

Publish

ClipboardDataQueriesRelationshipsCalculationsSecurityShare



Properties

Relationship

TableSales DataColumnStockDate

CardinalityMany to one (*:1)

TableCalendar Look...ColumnDate

Make this relationship activeNo

Cross-filter directionSingle

Apply security filter in both directionsNo

Apply changes

Open relationship editor

AdventureWorks Report • Last saved: Today

FileHomeHelp

PasteCutCopy

Get dataExcelOneLakeSQL

ClipboardData

Territory Lookup

ContinentCountryRegionSalesTerritoryKey

Collapse

All tables

Edit relationship

Select tables and columns that are related.

From table

Sales Data

CustomerKey	OrderDate	OrderLineItem	OrderNumber	OrderQuantity	ProductKey	StockDate
12570	05 July 2020	1	SO46718	1	360	03 June
12341	07 July 2020	1	SO46736	1	360	22 April
12356	12 July 2020	1	SO46776	1	360	05 May

To table

Calendar Lookup

Date	Day Name	Month	Month Name	Start of Month	Start of Quarter	Start of W
01 July 2020	Wednesday	7	July	01 July 2020	01 July 2020	29-06-2
02 July 2020	Thursday	7	July	01 July 2020	01 July 2020	29-06-2
03 July 2020	Friday	7	July	01 July 2020	01 July 2020	29-06-2

Cardinality

Many to one (*:1)

Cross-filter direction

Single

Make this relationship active

Assume referential integrity

Save

Cancel

Sign in

Share

Language Linguistic schema

Sensitivity

Publish

Properties

Relationship

Table

Sales Data

Column

StockDate

Cardinality

Many to one (*:1)

Table

Calendar Look...

Column

Date

Make this relationship active

No

Cross-filter direction

Single

Apply security filter in both directions

No

Apply changes

Open relationship editor

FileHomeHelp

PasteCutCopy

Get dataExcelOneLakeSQL ServerEnter dataDataverseRecent sources

Transform dataRefresh data

Manage relationships

New measureNew columnNew tableCalculation group

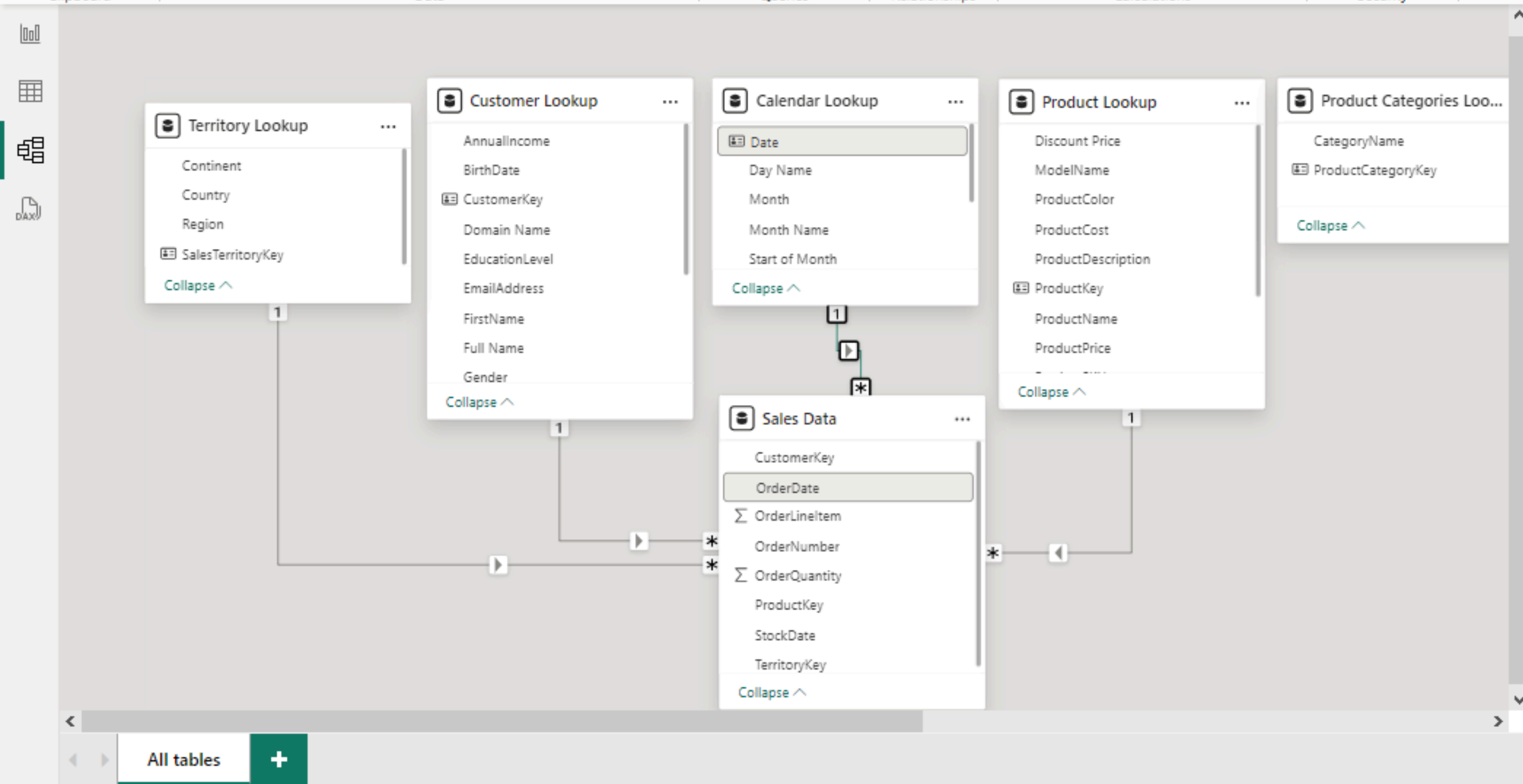
Manage rolesView as

Q&A setupLanguageQ&ALinguistic schema

Sensitivity

Publish

ClipboardDataQueriesRelationshipsCalculationsSecurityShare



Properties

Relationship

TableColumn

Sales DataOrderDate

Cardinality

Many to one (*:1)

TableColumn

Calendar Look...Date

Make this relationship active

Yes

Cross-filter direction

Single

Apply security filter in both directions

No

Apply changes

Open relationship editor

FileHomeHelp

Paste

Cut

Copy

Get data

Excel workbook

OneLake data hub

SQL Server

Enter data

Dataverse

Recent sources

Transform data

Refresh data

Manage relationships

New measure

New column

New table

Calculation group

Manage roles

View as

Q&A setup

Language

Linguistic schema

Sensitivity

Publish

Clipboard

Data

Queries

Relationships

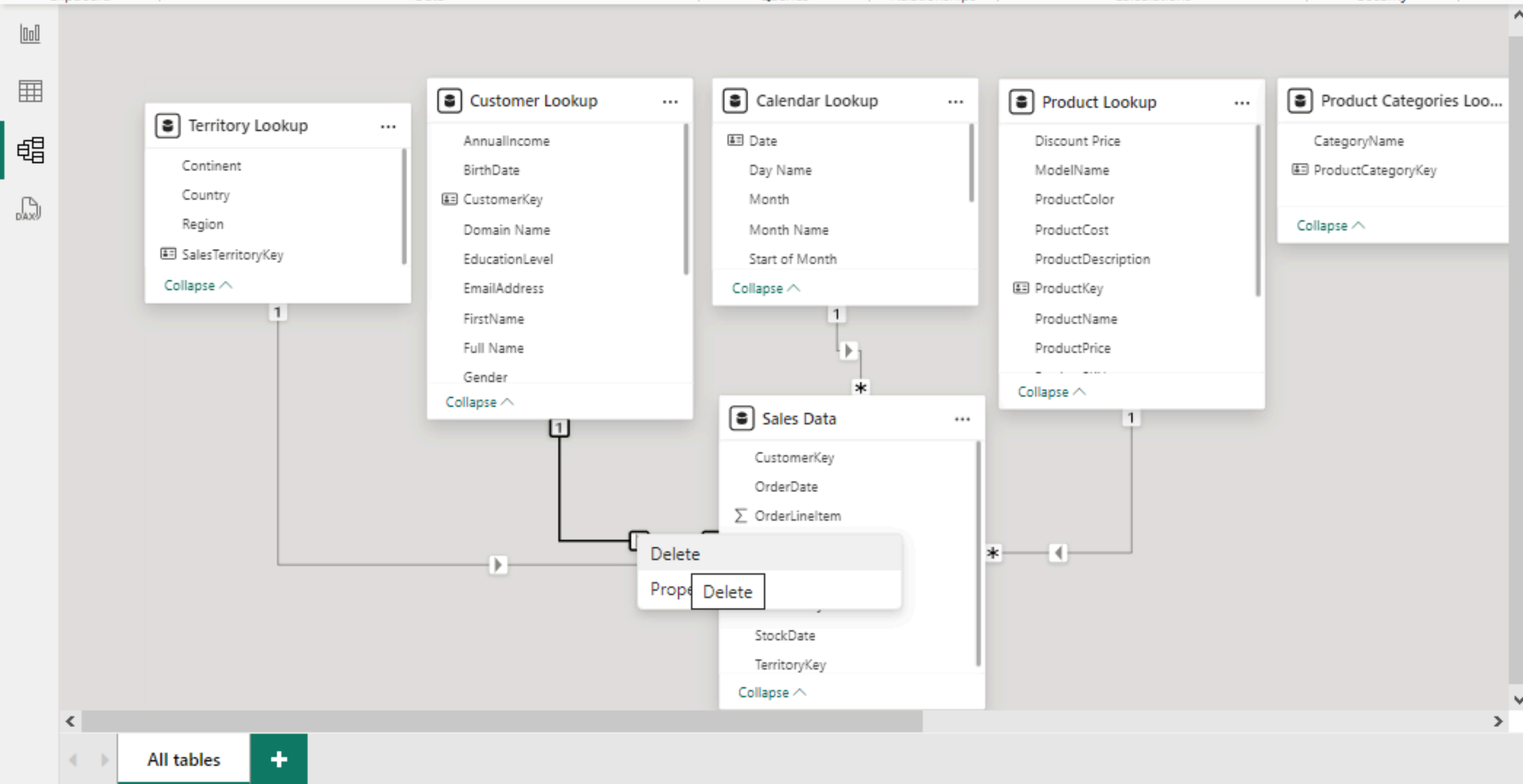
Calculations

Security

Q&A

Sensitivity

Share



Properties

Relationship

Table

Sales Data

Column

CustomerKey

Cardinality

Many to one (*:1)

Table

Customer Loo...

Column

CustomerKey

Make this relationship active

Yes

Cross-filter direction

Single

Apply security filter in both directions

No

Apply changes

Open relationship editor

FileHomeHelp

PasteCutCopy

Get dataExcelOneLakeSQL ServerEnter dataDataaverseRecent sources

Transform dataRefresh data

Manage relationships

New measureNew columnNew tableCalculation group

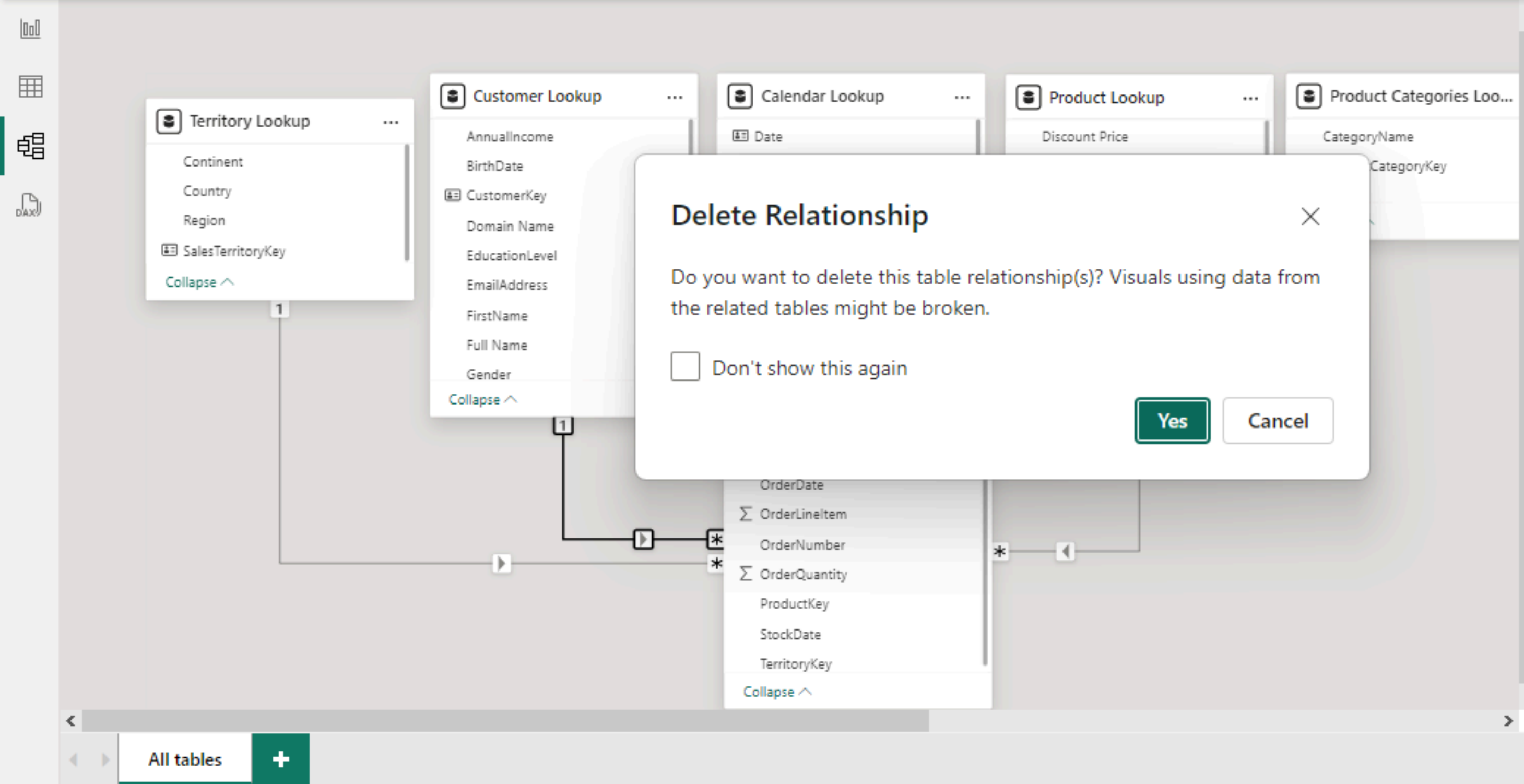
Manage rolesView as

Q&A setupLanguageQ&ALinguistic schema

Sensitivity

Publish

ClipboardDataQueriesRelationshipsCalculationsSecurityShare



Properties

Relationship

TableSales DataColumnCustomerKey

CardinalityMany to one (*:1)

TableCustomer Loo...ColumnCustomerKey

Make this relationship activeYes

Cross-filter directionSingle

Apply security filter in both directionsNo

Apply changes

Open relationship editor

FileHomeHelp

PasteCutCopy

Get dataExcelOneLakeSQLEnter dataDataverseRecent sources

Transform dataRefresh data

Manage relationships

New measureNew columnNew tableCalculation group

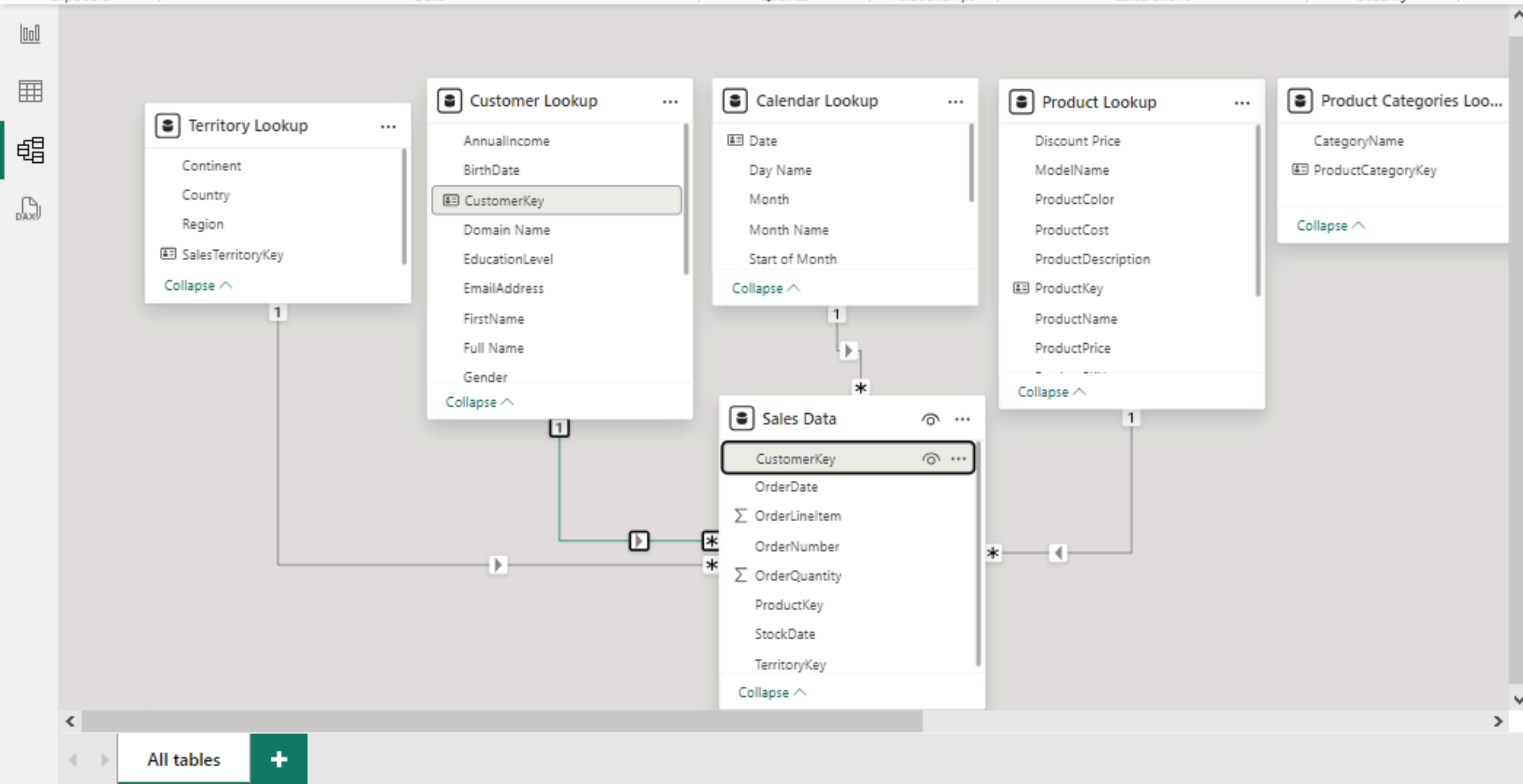
Manage rolesView as

Q&A setupLanguageQ&A

Linguistic schemaSensitivity

Publish

ClipboardDataQueriesRelationshipsCalculationsSecurityShare



Properties

Relationship

TableSales DataColumnCustomerKey

CardinalityMany to one (*:1)

TableCustomer Loo...ColumnCustomerKey

Make this relationship activeYes

Cross-filter directionSingle

Apply security filter in both directionsNo

Apply changes

Open relationship editor

**THANK
YOU!**

@ BHUPAL MARUCHETTY