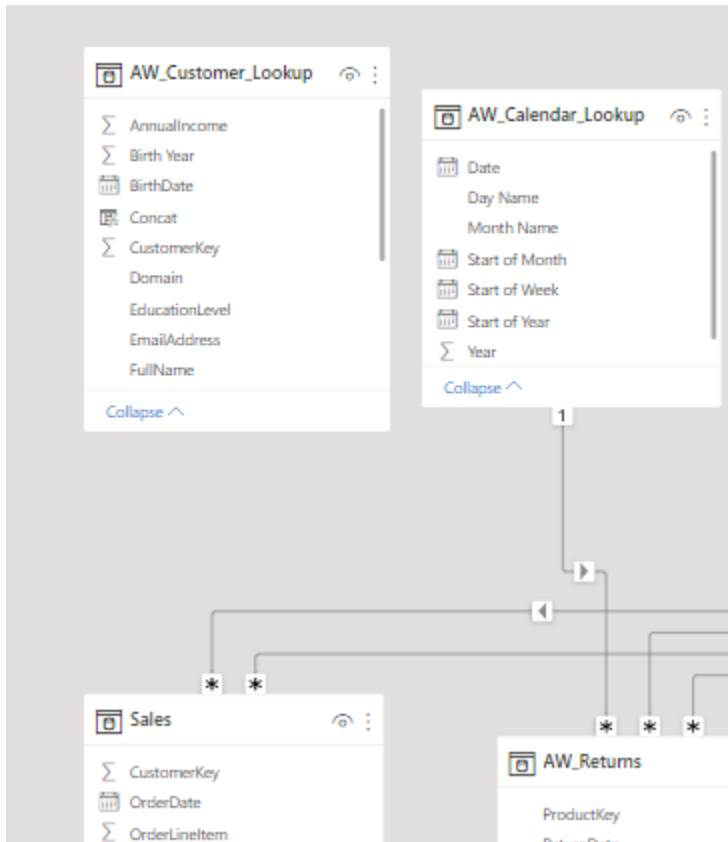


1) Navigate to the **RELATIONSHIPS** view, and perform the following actions

- Right-click to delete

each relationship between **AW_Sales**, **AW_Customer_Lookup** and **AW_Calendar_Lookup** (including both date fields)

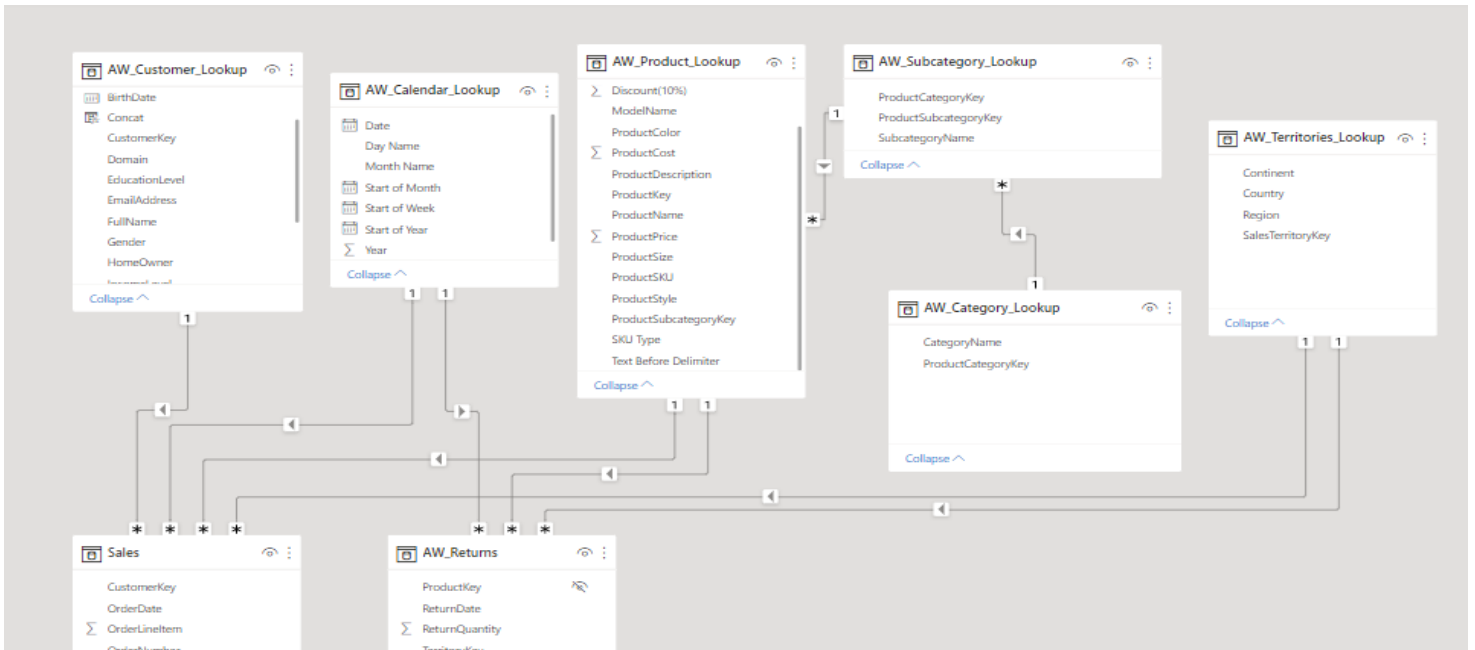


Use the **Manage Relationships** tool to delete *all* remaining relationships between all table.

Manage relationships

Active	From: Table (Column)	To: Table (Column)
There are no relationships defined yet.		

2) Recreate all table relationships (using any method you prefer),



Manage relationships

Active	From: Table (Column)	To: Table (Column)
<input checked="" type="checkbox"/>	AW_Product_Lookup (ProductSubcategoryKey)	AW_Subcategory_Lookup (ProductSubcategoryKey)
<input checked="" type="checkbox"/>	AW_Returns (ProductKey)	AW_Product_Lookup (ProductKey)
<input checked="" type="checkbox"/>	AW_Returns (ReturnDate)	AW_Calendar_Lookup (Date)
<input checked="" type="checkbox"/>	AW_Returns (TerritoryKey)	AW_Territories_Lookup (SalesTerritoryKey)
<input checked="" type="checkbox"/>	AW_Subcategory_Lookup (ProductCategoryKey)	AW_Category_Lookup (ProductCategoryKey)
<input checked="" type="checkbox"/>	Sales (CustomerKey)	AW_Customer_Lookup (CustomerKey)
<input checked="" type="checkbox"/>	Sales (OrderDate)	AW_Calendar_Lookup (Date)
<input checked="" type="checkbox"/>	Sales (ProductKey)	AW_Product_Lookup (ProductKey)
<input checked="" type="checkbox"/>	Sales (TerritoryKey)	AW_Territories_Lookup (SalesTerritoryKey)

*Which category saw the highest volume of returns?
How many?*

CategoryName	ReturnQuantity
Accessories	1130
Bikes	429
Clothing	269
Total	1828

Accessories category
return count was

How many returns do you see in 2015 vs. 2016?

Year	ReturnQuantity
2017	972
2016	770
2015	86
Total	1828

86 return in 2015 while 770
in 2016

Replace **Year** with **FullName** from the **AW_Customer_Lookup** table

- What do you see, and why?

FullName	ReturnQuantity
ABBY RANA	1828
ADRIANA GONZALEZ	1828
AIDAN HAYES	1828
ALEJANDRO BECK	1828
ALEXA COX	1828
Total	1828

No relation found b/w these two variables

What was the total OrderQuantity for Product #338?

ProductKey	ReturnQuantity	OrderQuantity
320	3	65
322	2	39
324	3	72
326	3	65
328	4	75
330	6	51
332	2	64
334	2	63
336	1	50
338		50
340	1	56
342	1	72
Total	1828	84174

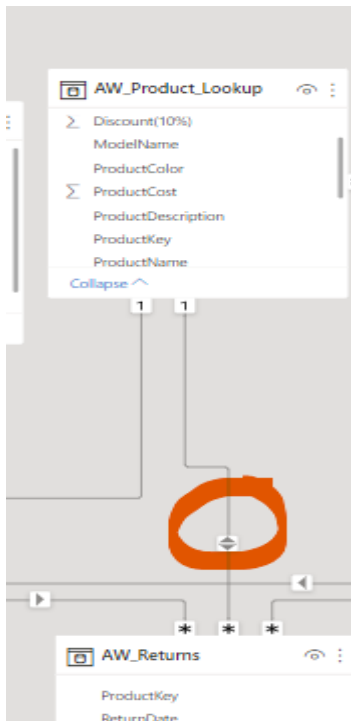
Product Key # 3368 has 50 Orders

- **4)** Unhide the **ProductKey** field from the **AW_Returns** tables (*using either the **DATA** or **RELATIONSHIPS** view*):
- In the matrix, replace **ProductKey** from **AW_Product_Lookup** with **ProductKey** from the **AW_Returns** table
 - *Why do we the same repeating values for OrderQuantity?*

ProductKey	ReturnQuantity	OrderQuantity
214	70	84174
215	52	84174
220	66	84174
223	46	84174
226	12	84174
229	15	84174
232	15	84174
235	10	84174
310	4	84174
311	7	84174
312	8	84174
313	5	84174
Total	1828	84174

Filtering Filed should be from lookup table
 .however in this case it was from data table

- Edit the relationship between **AW_Returns** and **AW_Product_Lookup** to change the cross filter direction from *Single* to *Both*
 - Why does the visual now show *OrderQuantity* values by product, even though we are using **ProductKey** from **AW_Returns**?
 - How many orders do we see now for Product #338? What's going on here?



ProductKey	ReturnQuantity	OrderQuantity
310	4	169
311	7	139
312	8	179
313	5	168
314	5	157
320	3	65
322	2	39
324	3	72
326	3	65
328	4	75
330	6	51
332	2	64
334	7	63
Total	1828	84174

- **5)** Complete the following:
- Change the cross filter direction between **AW_Returns** and **AW_Product_Lookup** back to *single (One-Way)*
- Hide the **ProductKey** field in the **AW_Returns** table from report view (and any other foreign keys, if necessary)
- Update the matrix to show **ProductKey** from the **AW_Product_Lookup**, rather than **AW_Returns**
- **Recommendation:** Save a separate backup copy of the .pbix file (i.e. "*AdventureWorks_Report_Backup*")

ProductKey	ReturnQuantity	OrderQuantity
214	70	2099
215	52	1940
220	66	1995
223	46	4151
226	12	392
229	15	408
232	15	424
235	10	381
310	4	169
311	7	139
312	8	179
313	5	168
Total	1828	84174