

## 2<sup>nd</sup> Assignment Power BI

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Dated: 29<sup>th</sup> December 2021

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Return to the REPORT view, and complete the following:

Edit (or insert) the matrix visual to show ReturnQuantity (values) by CategoryName (rows) from the AW\_Product\_Category\_Lookup table

CategoryName	ReturnQuantity
Accessories	1130
Bikes	429
Clothing	269
<b>Total</b>	<b>1828</b>

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

CategoryName	ReturnQuantity
Accessories	1130

Replace CategoryName with Year from the AW\_Calendar\_Lookup table

Year	ReturnQuantity
2017	972
2016	770
2015	86
<b>Total</b>	<b>1828</b>

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

Year	ReturnQuantity
2017	972
2016	770
2015	86
<b>Total</b>	<b>1828</b>

Replace Year with FullName from the AW\_Customer\_Lookup table

Full Name	ReturnQuantity
ABBY RANA	1828
ADRIANA GONZALEZ	1828
AIDAN HAYES	1828
ALEJANDRO BECK	1828
ALEXA COX	1828
ALEXA WATSON	1828
ALEXANDER JACKSON	1828
ALEXANDRA EVANS	1828
ALEXANDRIA STEWART	1828
ALISHA LIU	1828
ALISHA SHAN	1828
AMANDA PERRY	1828
ANDREA WRIGHT	1828
ANGELA BUTLER	1828
ANGELA PERRY	1828
ANNA GRIFFIN	1828
ANNA MURPHY	1828
ARTHUR RODRIGUEZ	1828
BARBARA MA	1828
<b>Total</b>	<b>1828</b>

What do you see, and why?

Return quantity is repeated for full name, as there is no relationship between these two fields/tables , that's why.

Update the matrix to show both OrderQuantity and ReturnQuantity (values) by ProductKey (rows) from the AW\_Product\_Lookup table

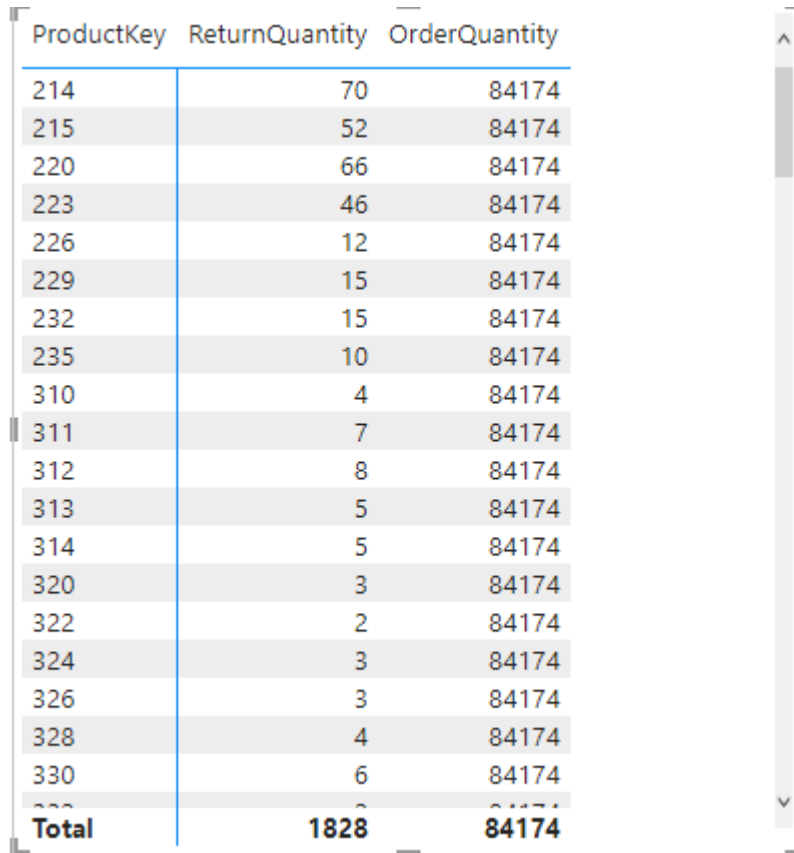
ProductKey	ReturnQuantity	OrderQuantity
477	155	7967
480	95	5898
528	93	5678
478	77	3810
214	70	2099
529	67	4327
220	66	1995
479	56	3329
485	54	3960
215	52	1940
537	49	1305
223	46	4151
530	45	2740
538	43	1904
535	39	1560
536	28	2119
540	28	795
539	26	1723
484	25	1706
Total	1828	84174

What was the total OrderQuantity for Product #338?

ProductKey	ReturnQuantity	OrderQuantity
338		50

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



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
314	5	84174
320	3	84174
322	2	84174
324	3	84174
326	3	84174
328	4	84174
330	6	84174
<b>Total</b>	<b>1828</b>	<b>84174</b>

- Why do we the same repeating values for OrderQuantity?

Because Productkey under returns table is not the lookup field.

Edit the relationship between AW\_Returns and AW\_Product\_Lookup to change the cross filter direction from Single to Both

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
314	5	157
320	3	65
322	2	39
324	3	72
326	3	65
328	4	75
330	6	51
<b>Total</b>	<b>1828</b>	<b>84174</b>

How many orders do we see now for Product #338? What's going on here?

NONE;

Change the cross filter direction between AW>Returns and AW\_Product\_Lookup back to single (OneWay)

Select tables and columns that are related.

AW_Returns			
ReturnDate	TerritoryKey	ProductKey	ReturnQuantity
Sunday, January 18, 2015	9	312	1
Thursday, February 19, 2015	9	311	1
Friday, March 13, 2015	9	350	1

AW_Product_Lookup					
ProductKey	ProductSubcategoryKey	ProductSKU	ProductName	ModelName	Product
214	31	HL-U509-R	Sport-100 Helmet, Red	Sport-100	Universal fit, well-vent
215	31	HL-U509	Sport-100 Helmet, Black	Sport-100	Universal fit, well-vent
220	31	HL-U509-B	Sport-100 Helmet, Blue	Sport-100	Universal fit, well-vent

Cardinality	Cross filter direction
Many to one (*:1)	Single
<input checked="" type="checkbox"/> Make this relationship active	<input type="checkbox"/> Apply security filter in both directions
<input type="checkbox"/> Assume referential integrity	

Hide the ProductKey field in the AW\_Returns table from report view (and any other foreign keys, if necessary)

✓	AW_Returns
<input type="checkbox"/>	ProductKey
<input type="checkbox"/>	ReturnDate
<input checked="" type="checkbox"/>	Σ ReturnQuantity
<input type="checkbox"/>	TerritoryKey
✓	AW_Territories

Update the matrix to show ProductKey from the AW\_Product\_Lookup, rather than AW\_Returns

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
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Total	1828	84174