Chapter 4
Combining Data

Figure 4.1: Relationship between two tables.

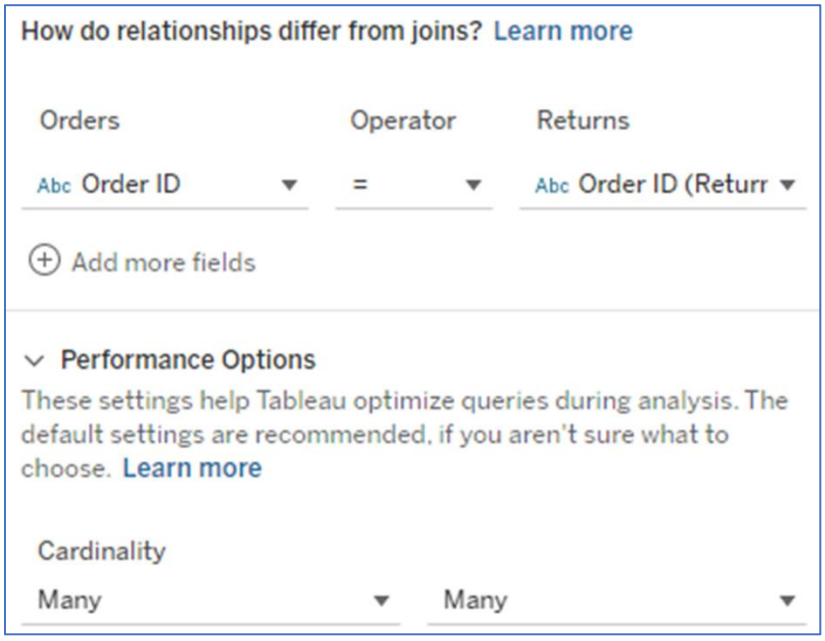


Figure 4.2: Relationship created based on the Order ID field.

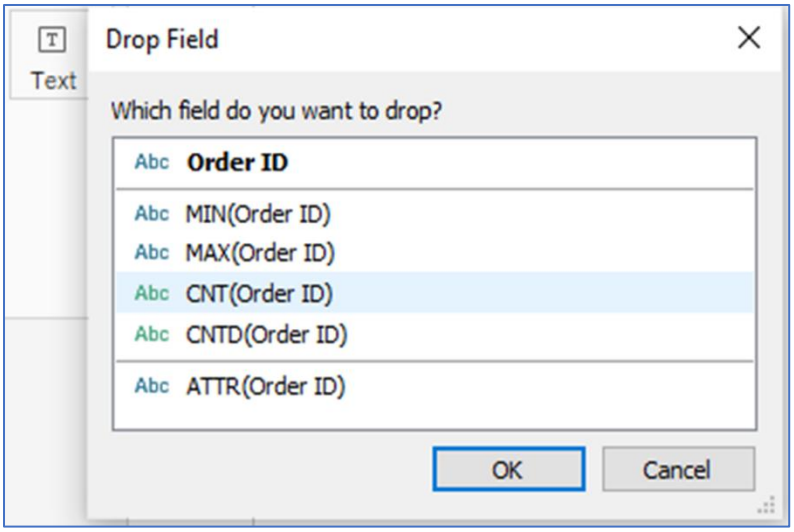


Figure 4.3: Drop field option to calculate a Count.

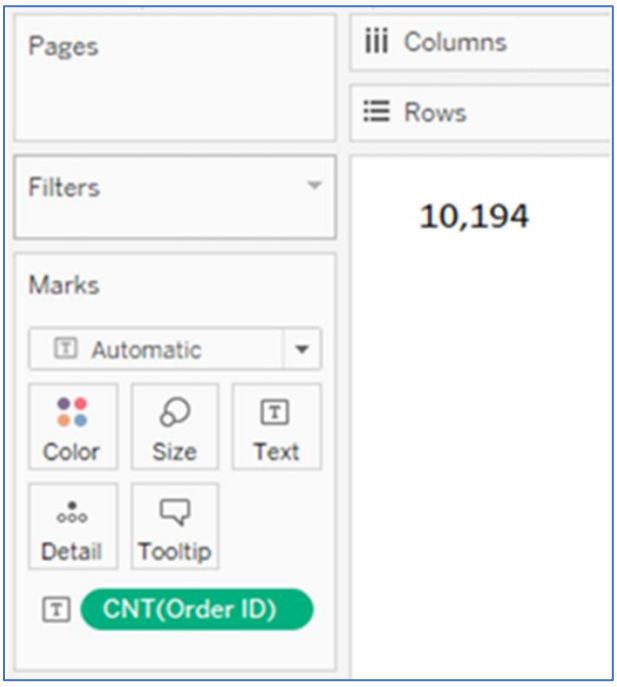


Figure 4.4: Count of Order ID in Orders.

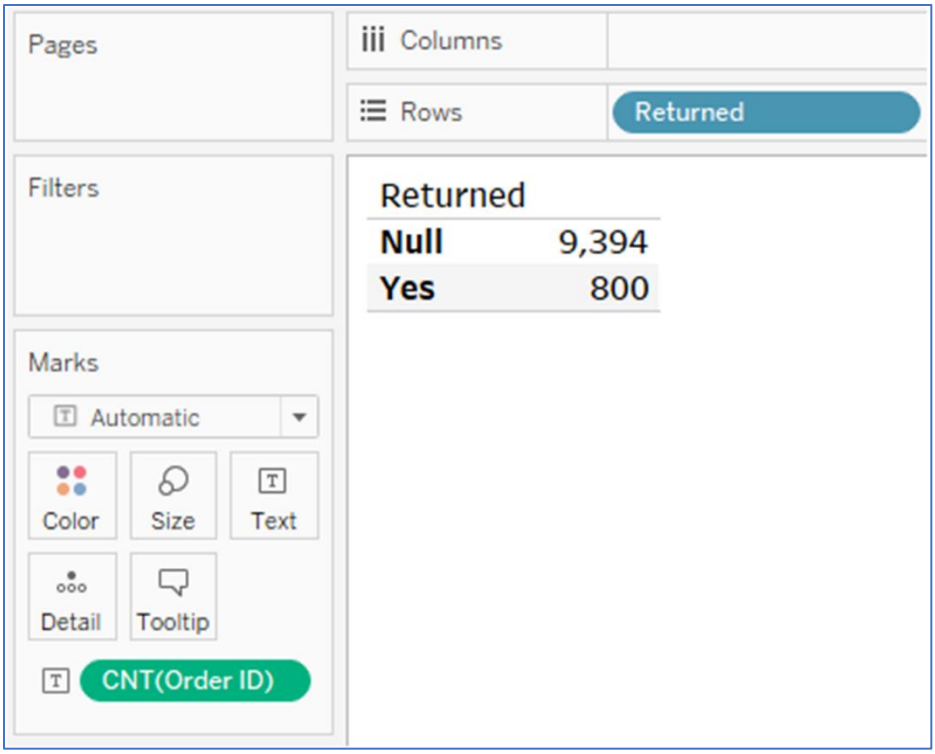


Figure 4.5: Count of Returned Orders.

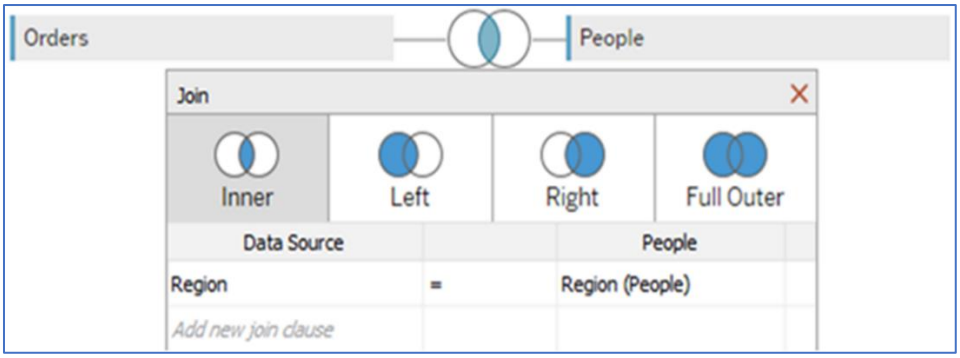


Figure 4.6: Join between the two tables.

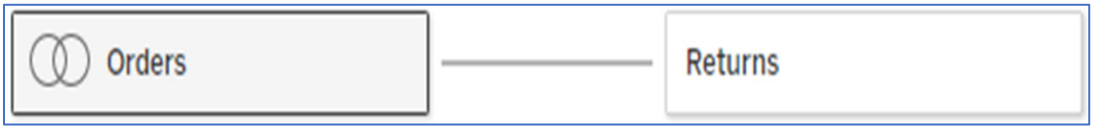


Figure 4.7: Tables with join and a relationship.

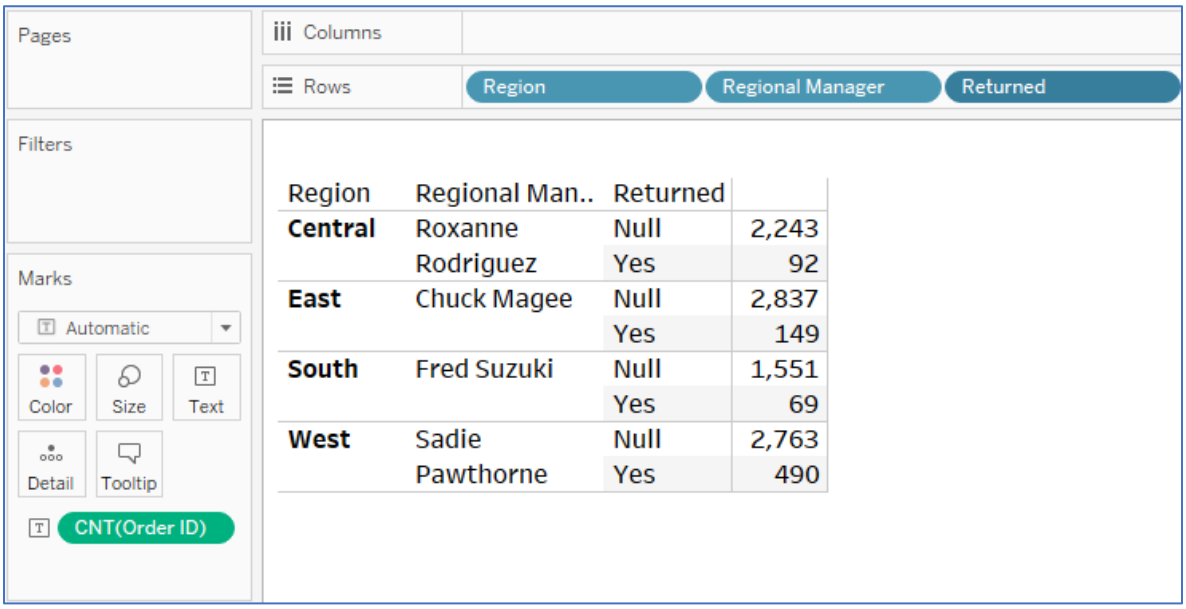


Figure 4.8: Visual using the fields from Orders/People and Returned.

Sales Manager	Sales Target
Sadie Pawthorne	$7,000
Chuck Magee	$6,000
Roxanne Rodriguez	$8,000
Fred Suzuki	$4,000

Figure 4.9: Format of the SalesTarget sheets.

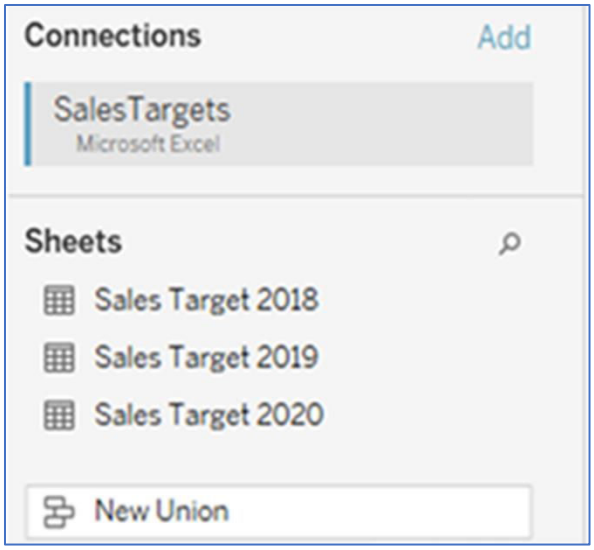


Figure 4.10: New Union option to perform a union.

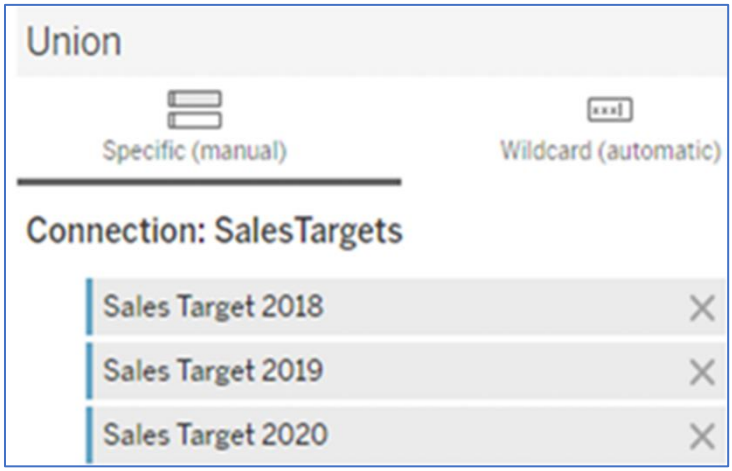


Figure 4.11: Selecting tables to perform a union.

Sales Manager	
Ade Kunle	3,000
Chuck Magee	6,000
Emy Whitefield	7,000
Fred Suzuki	4,000
Jennifer Lawrence	7,000
Mary Ann	4,000
Mike Smith	4,000
Roxanne Rodriguez	8,000
Sadie Pawthorne	7,000
Selina Gomes	5,000
Shawn Nimoji	2,000
William Scott	5,000

Figure 4.12: Tables with appended values.

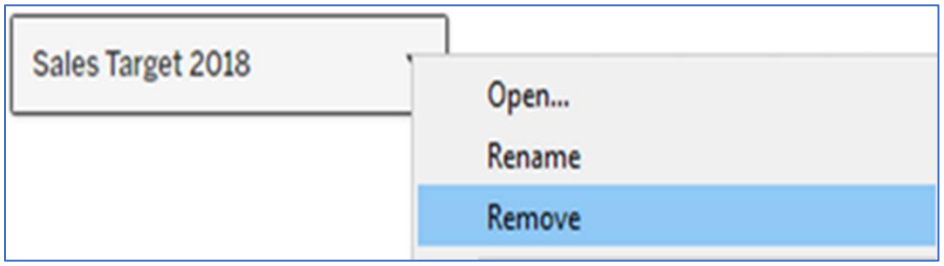


Figure 4.13: Remove SalesTarget 2018.

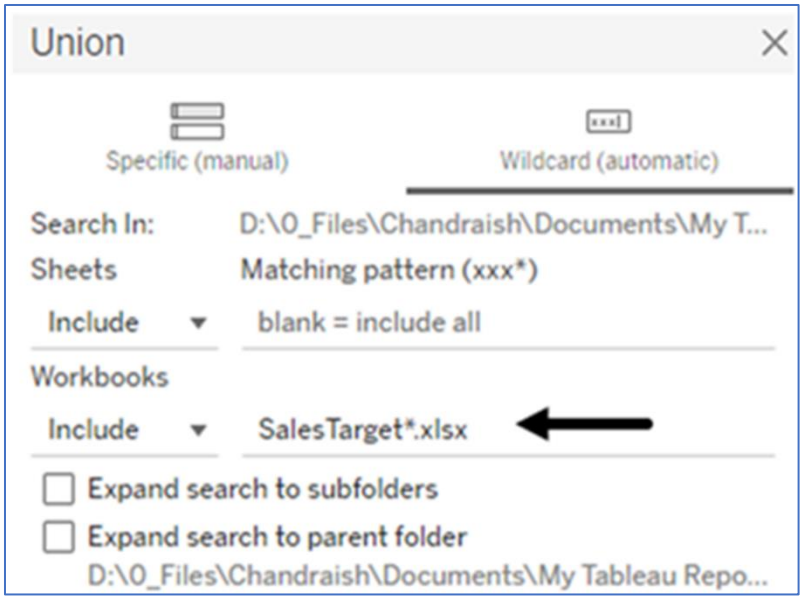


Figure 4.14: Combine files with Wildcard(automatic).

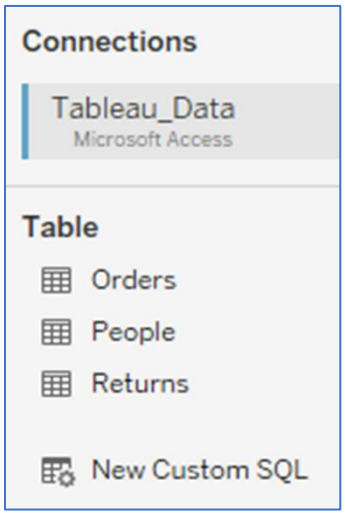


Figure 4.15: New Custom SQL option.

Edit Custom SQL

```
SELECT
  O.[Order ID] as [Order ID],
  R.Returned as Returned
FROM  [Orders] O
INNER JOIN RETURNS R on O.[Order ID] = R.[Order ID]
```

Figure 4.16: Writing Custom SQL.

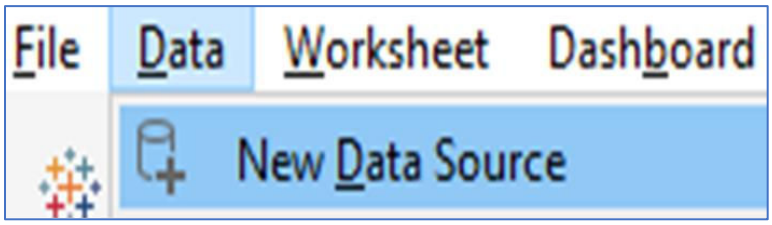


Figure 4.17: Adding new data source.

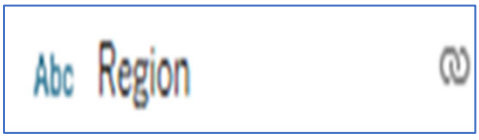


Figure 4.18: Link icon displaying automatic blend.

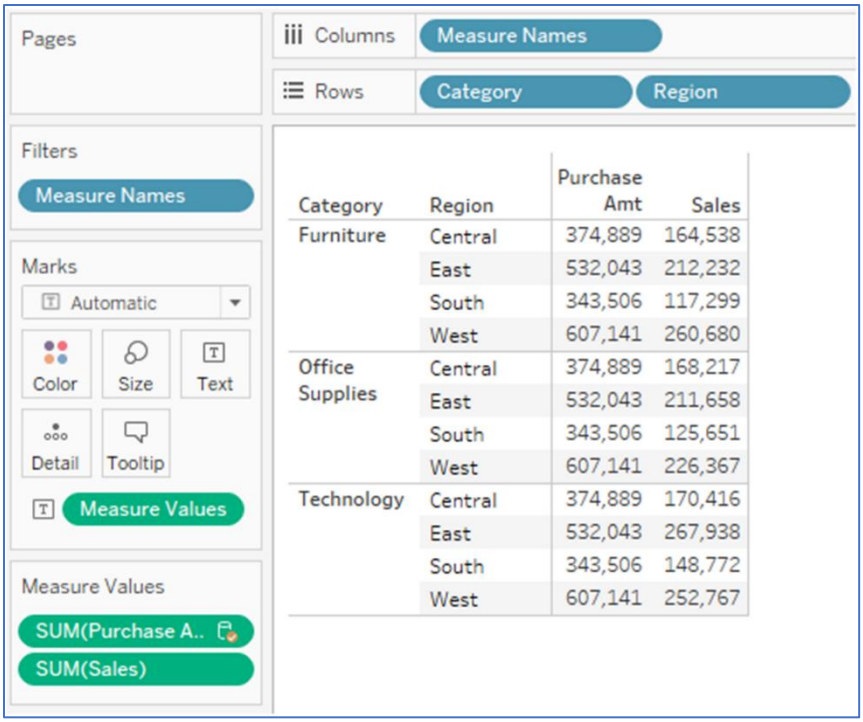


Figure 4.19: Table displaying columns from two data sources.

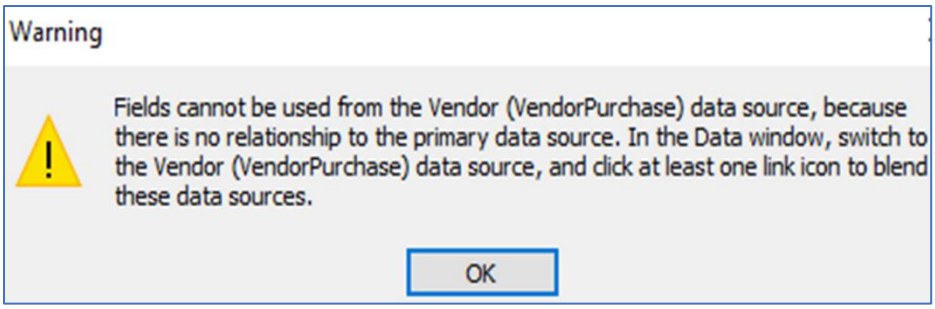


Figure 4.20: Warning in the absence of a blend relationship.

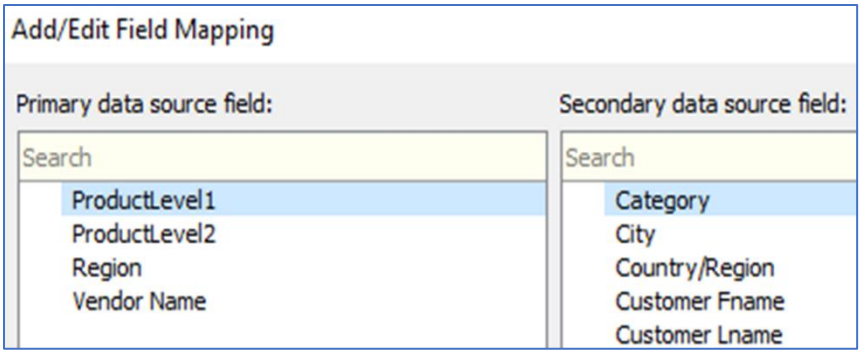
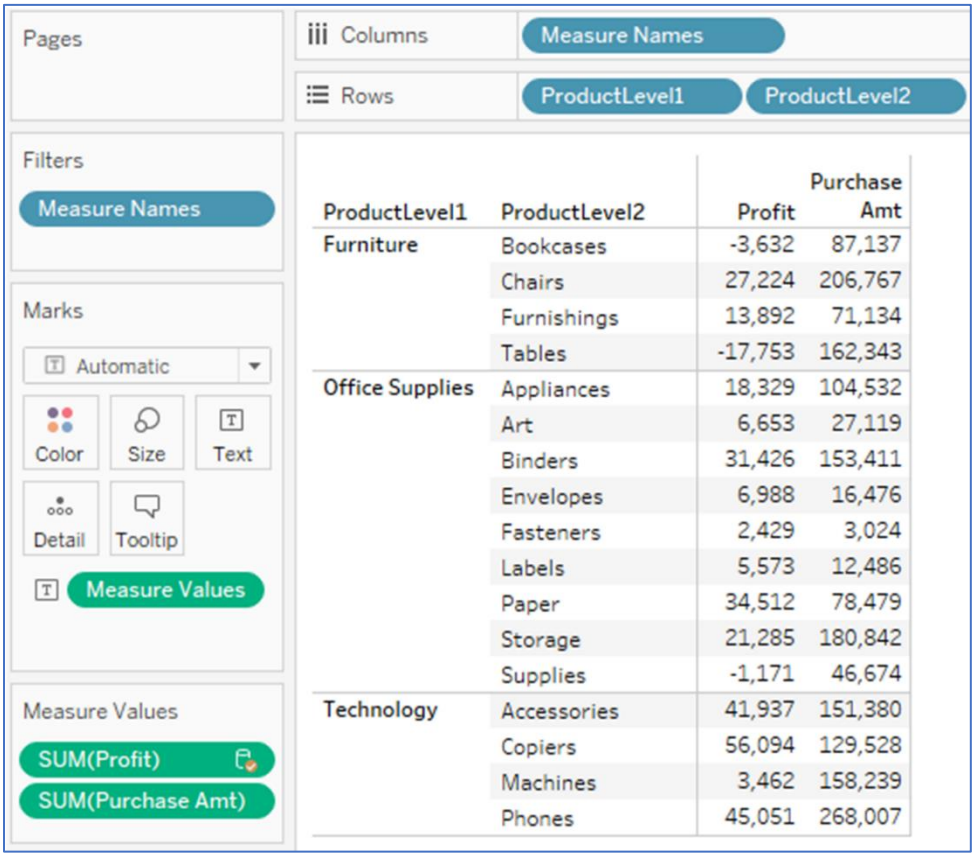


Figure 4.21: Creating manual blend relationship.



ProductLevel1	ProductLevel2	Profit	Purchase Amt
Furniture	Bookcases	-3,632	87,137
	Chairs	27,224	206,767
	Furnishings	13,892	71,134
	Tables	-17,753	162,343
Office Supplies	Appliances	18,329	104,532
	Art	6,653	27,119
	Binders	31,426	153,411
	Envelopes	6,988	16,476
	Fasteners	2,429	3,024
	Labels	5,573	12,486
	Paper	34,512	78,479
	Storage	21,285	180,842
	Supplies	-1,171	46,674
Technology	Accessories	41,937	151,380
	Copiers	56,094	129,528
	Machines	3,462	158,239
	Phones	45,051	268,007

Figure 4.22: Table resulting from manual blend relationship.