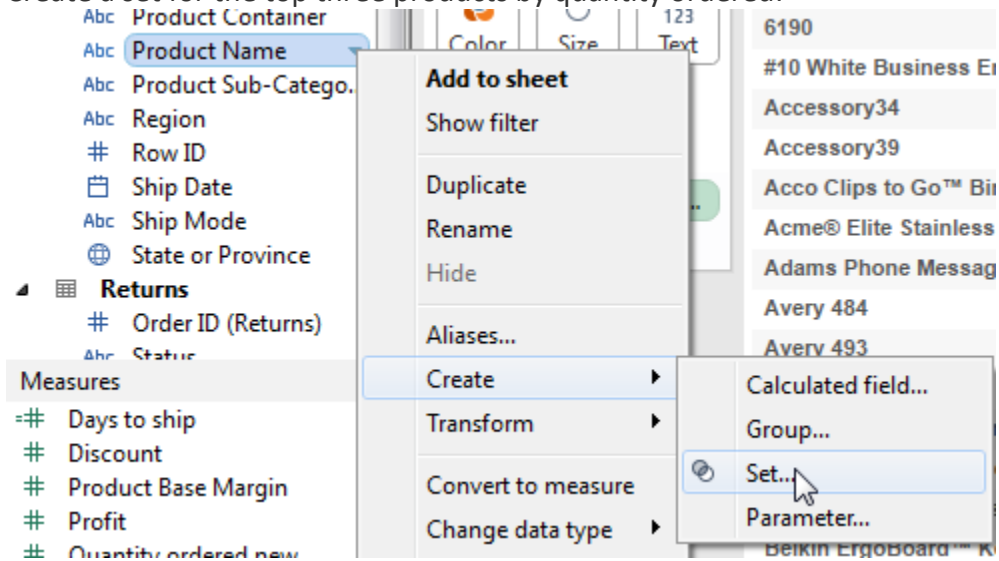


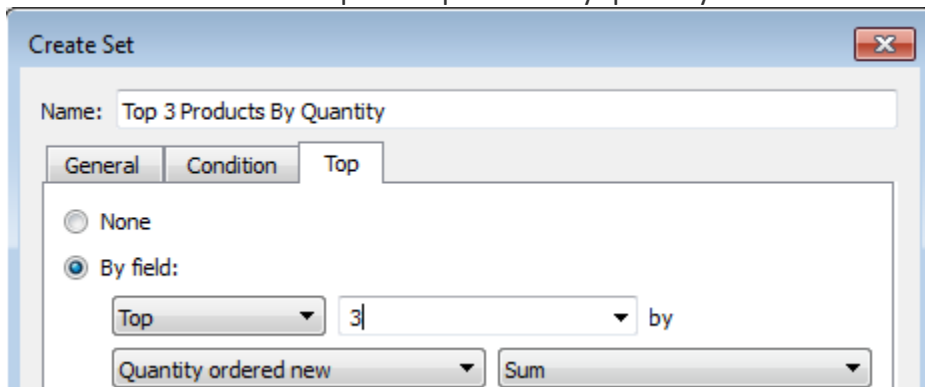
1. For the top three products ordered in the greatest quantities, which has a positive profit?

- a. Boston
- b. Dallas
- c. Los Angeles
- d. Miami

Create a set for the top three products by quantity ordered:



The set will include the top three products by quantity ordered new:



Add City and Profit to the view:

Pages

Columns

Rows

City

Filters

Marks

Abc Automatic

Color Size Text

Detail Tooltip

Abc 123 SUM(Profit)

City	
Atlanta	-147
Boston	405
Charlotte	-80
Chicago	12,376
Dallas	-33
Detroit	146
Houston	4,191
Los Angeles	435
Miami	-3,010
New York City	1,532
Philadelphia	729
San Diego	-283
Seattle	2,636
Washington	3,639

Drag the set you just created to the filter card:

Pages

Columns

Rows

City

Filters

Top 3 Products By ..

Marks

Abc Automatic

Color Size Text

Detail Tooltip

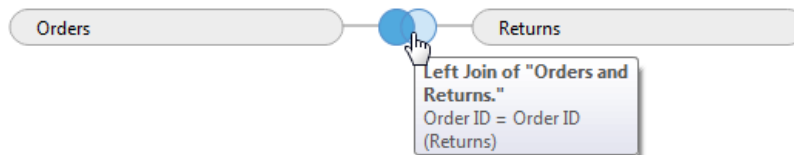
Abc 123 SUM(Profit)

City	
Boston	-166
Dallas	-58
Los Angeles	2,009
Miami	-81

Los Angeles is the only city with a positive profit on the top 3 highest quantity items.

2. For items ordered in 2012, what percent of the total sales value was returned?
- a. 2.27%
  - b. 5.21%
  - c. 3.23%
  - d. 3.66%

To see which products were returned and which were not returned, we'll need to do a left join.



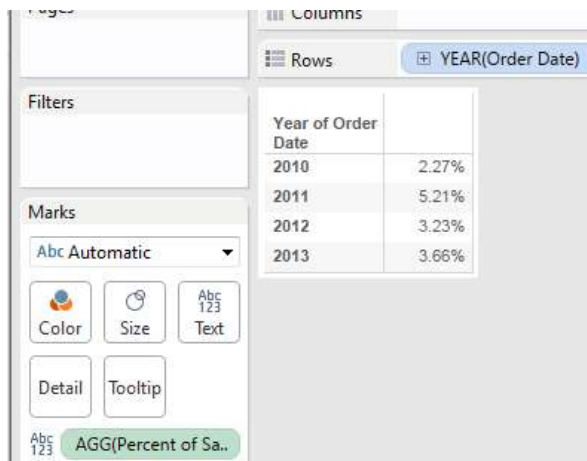
Now add a calculation which takes the sum of sales value for the returned items and divides this by the sum of the sales:

Percent of Sales Returned

```
sum(if [Status]="Returned" then [Sales] else 0 end)
/sum([Sales])
```

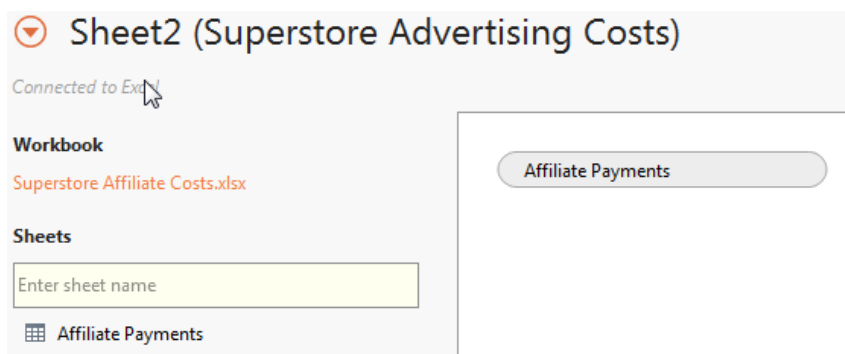
The calculation is valid. Sheets Affected ▾ Apply OK

Now add the year of order date and the new calculation to the view:

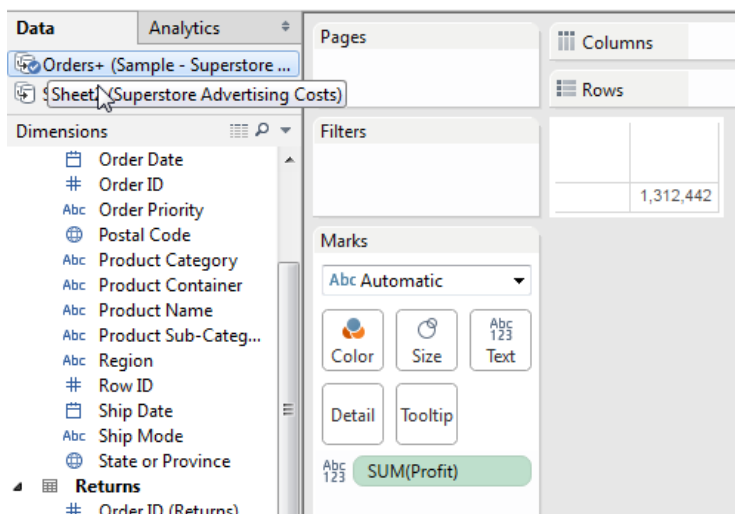


3. The Excel file “Superstore Affiliate Costs” shows how much was paid to the affiliate that assisted with the order. For those items purchased by the Small Business segment, what is the ratio of affiliate payment to profit?
- a. .0515%
  - b. 5.15%
  - c. .0197%
  - d. .0328%

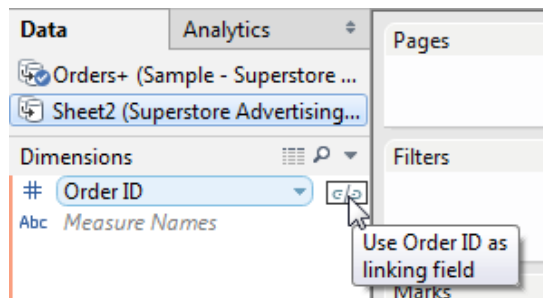
We only want to count the affiliate cost once per order, so we don’t want to join on order ID since there are multiple rows in the SuperStore data with the same Order ID. Instead, we will do a blend. First add a new data source with the affiliate data:



On a new worksheet, add Profit from the SuperStore data:



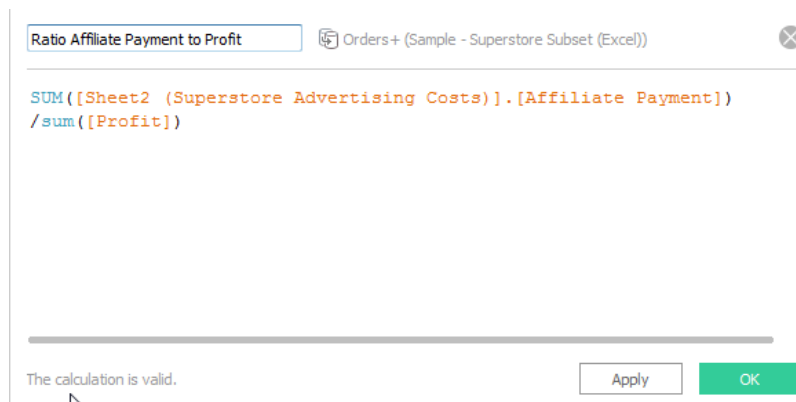
Click on SuperStore Advertising Costs and then click the paperclip icon to make the Order ID the link.



Add Customer Segment:

	Consum..	Corporate	Home Office	Small Business
Affiliate Payment	106	177	85	62
Profit	206,560	505,539	283,870	316,475

Now add a calculation to determine the ratio of affiliate payment to profit:



Remove the existing measures and add the new calculation to the view:

Pages

Columns Customer Segment

Rows

Filters

Customer Segment

Marks

Abc Automatic

Color Size Text

Detail Tooltip

Abc 123 AGG(Ratio Affiliate..

Consum..	Corporate	Home Office	Small Business
0.0005154	0.0003498	0.0002996	0.0001971

Switch to percentage:

Pages

Columns Customer Segment

Rows

Filters

Customer Segment

Marks

Abc Automatic

Font: Arial, 8pt

Font: Automatic

Font: 12345600.000...

Font: Automatic

Font: Number (Standard)

Font: Number (Custom)

Font: Currency (Standard)

Font: Currency (Custom)

Font: Scientific

Font: Percentage

Font: Custom

Percentage

Decimal places:

4

Consum..	Corporate	Home Office	Small Business
0.0515%	0.0350%	0.0300%	0.0197%

Result:

Columns Customer Segment

Rows

Customer Segment

Consum..	Corporate	Home Office	Small Business
0.0515%	0.0350%	0.0300%	0.0197%