



Getting Started with Tableau

Working with Custom Queries Lab#6

Description:

BISP is committed to provide BEST learning material to the beginners and advance learners. In the same series, we have prepared a complete end-to end Hands-on Beginner's Guide for Tableau Reporting. The document focuses on using custom SQL. [Join our professional training program and learn from experts.](#)

History:

Version	Description Change	Author	Publish Date
0.1	Initial Draft	Surbhi Sahu	21 st Aug 2012
0.1	Review#1	Amit Sharma	29 th Aug 2012

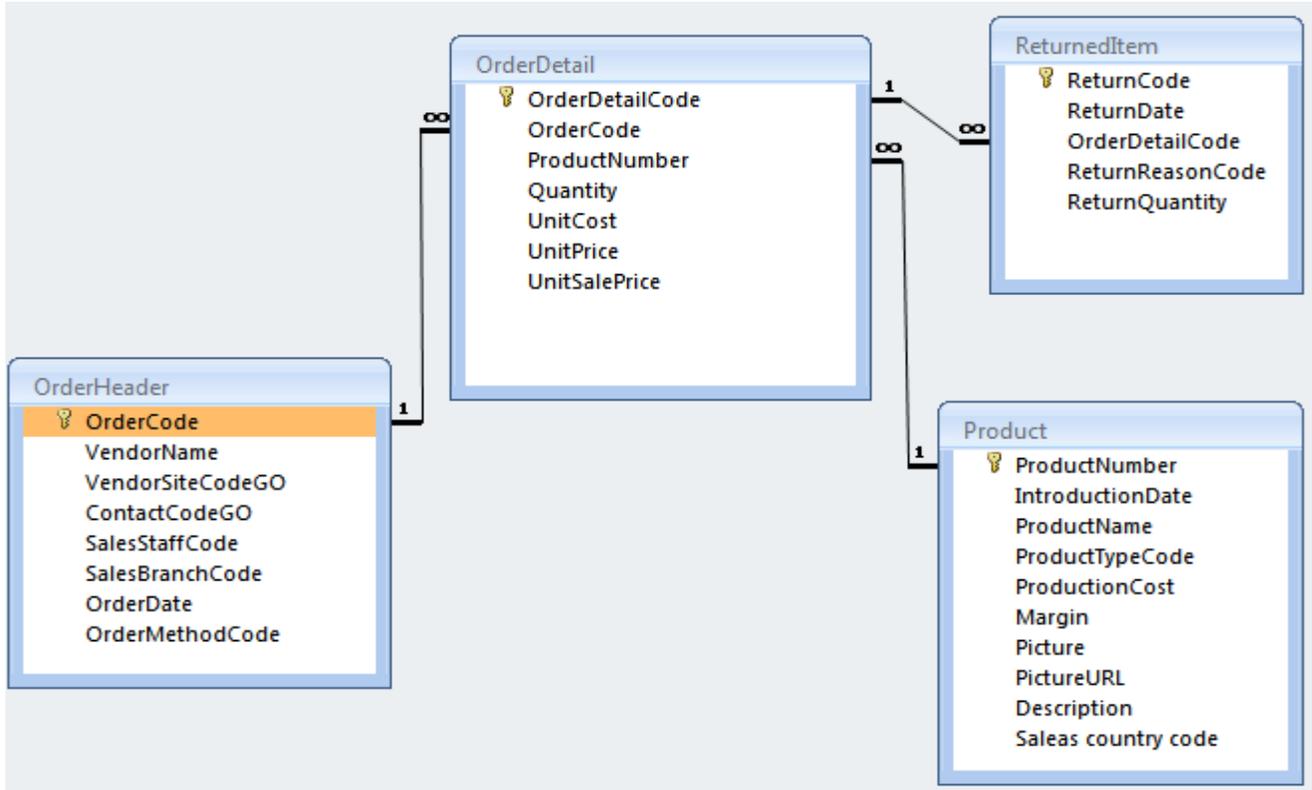
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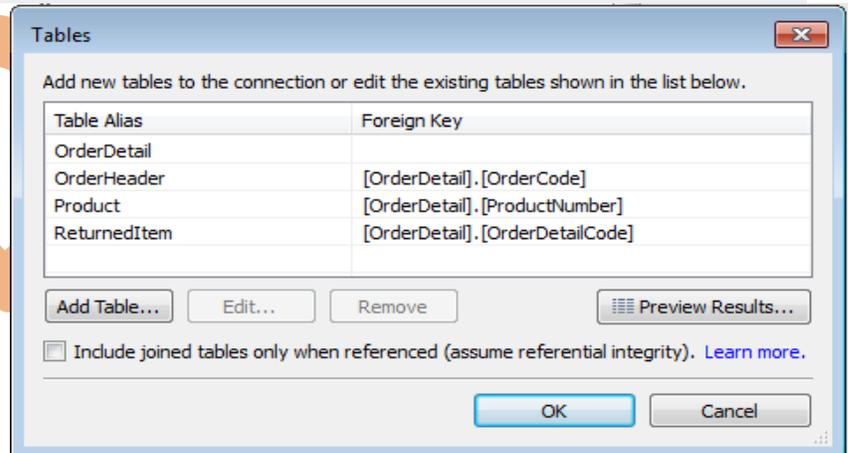


The Return products with the Returned Percentages

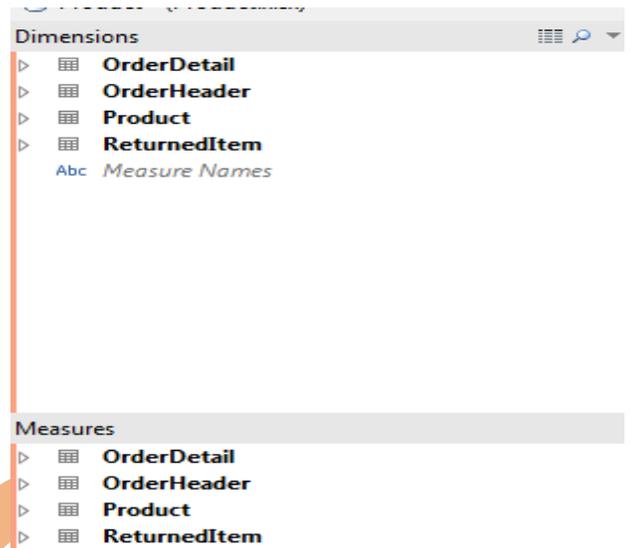
Here is a data model which has four tables **OrderHeader** ,**OrderDetail**, **Returned item** and **Product**. We want to fetch those products which get returned back after the supply and its corresponding **quantity**, **returned quantity** , **vendor name** (from where the product get returned) and the **percentage of the quantity return** of the total quantity.



Step 1) Create a new connection and specify the joining.

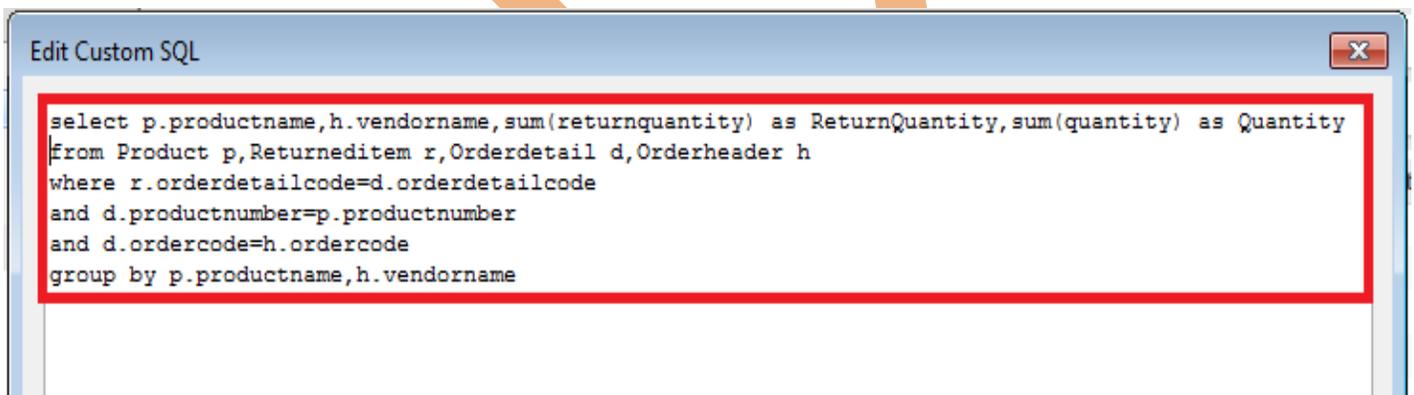


Step 2) These are the tables loaded in the worksheet.



Step 3) Then go to custom Sql , here add the query for fetching the returned product.s and here the query is used

```
Select p.productname,h.vendorname,sum(returnquantity) as ReturnQuantity,  
sum(quantity) as Quantity  
from Product p,Returneditem r,Orderdetail d,Orderheader h  
where r.orderdetailcode=d.orderdetailcode and d.productnumber=p.productnumber  
and d.ordercode=h.ordercode  
group by p.productname,h.vendorname
```



Step 8) Apply the query this will result the four fields productname ,vendorname ,Quantity and returned quantity.

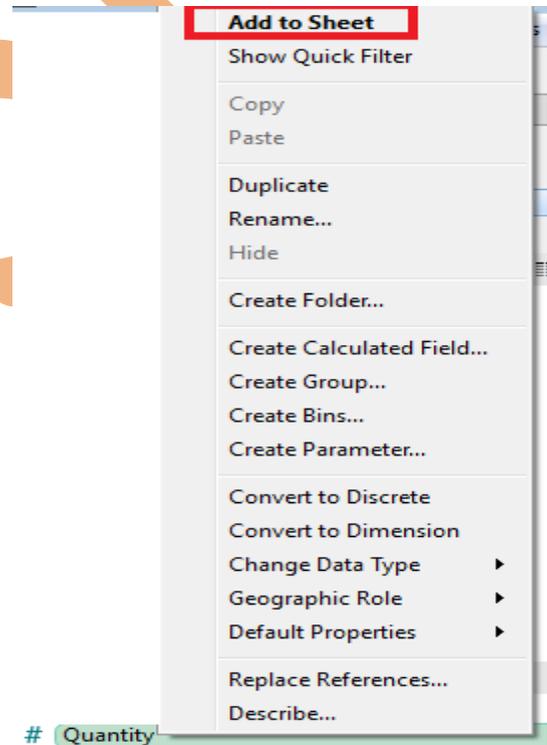
Dimensions

Abc productname
Abc vendorname
Abc Measure Names

Measures

=# Percentage of Return Quantity
Quantity
ReturnQuantity

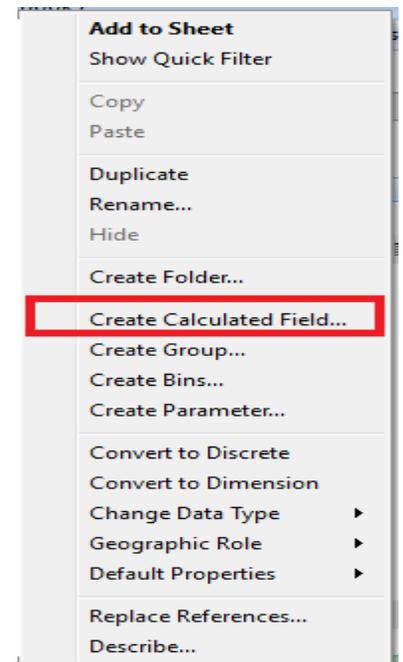
Step 9) Now drag and drop the productname field in the Rows shelf and right click on the field Quantity and choose the option Add to sheet do the same procedure with the field ReturnedQuantity.



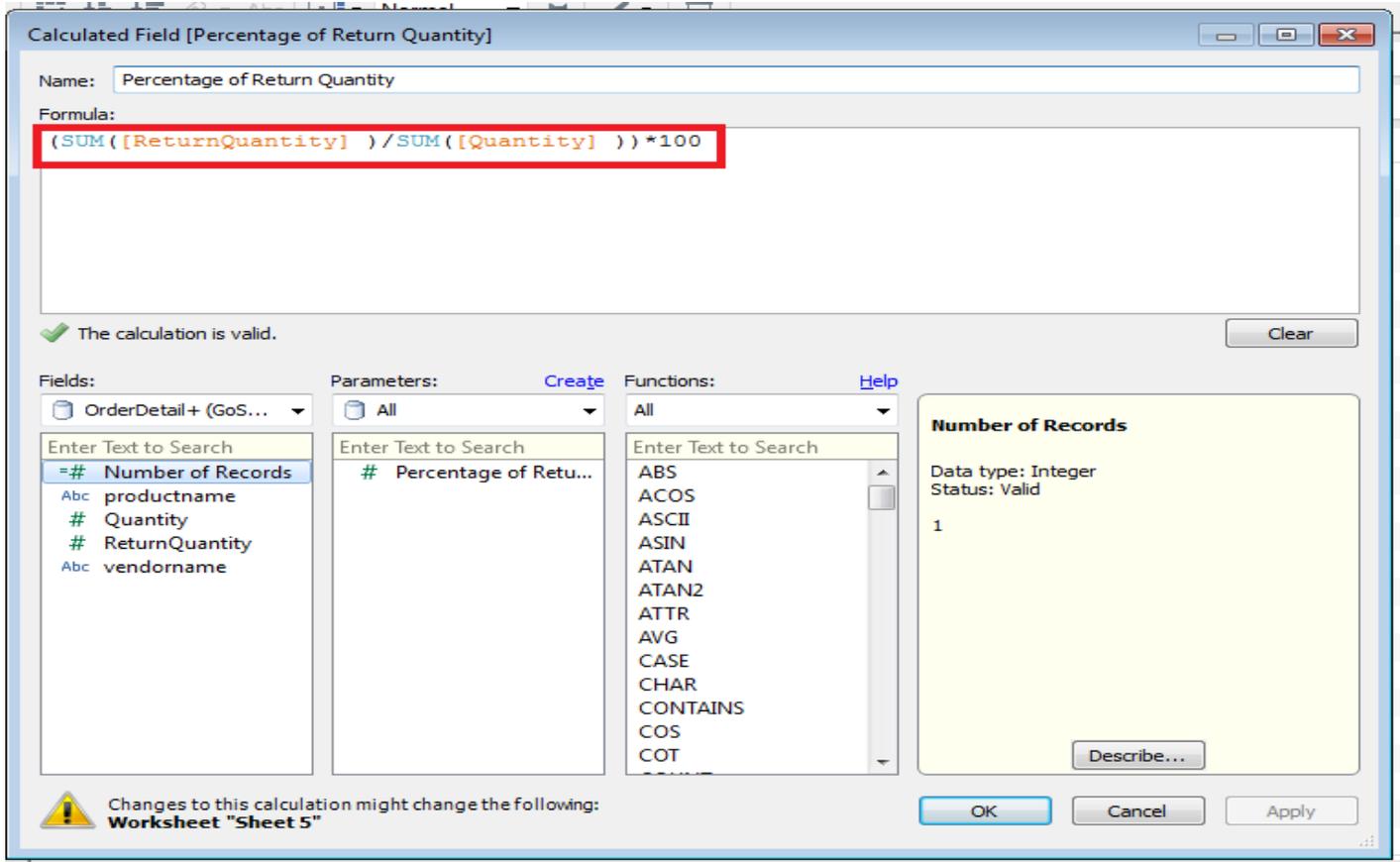
Step 10) Now here the table will be.

productname	Quantity	ReturnQuantity
Aloe Relief	172	14
Bear Edge	422	68
Bear Survival Edge	888	268
Blue Steel Putter	62	48
BugShield Extreme	168	8
BugShield Lotion	354	194
BugShield Natural	114	12
BugShield Spray	232	14
Calamine Relief	38	2
Canyon Mule Carryall	536	294
Canyon Mule Climber ..	610	166
Canyon Mule Cooler	188	38
Canyon Mule Extreme ..	66	16
Canyon Mule Journey ..	38	22
Canyon Mule Weekend..	352	60
Compact Relief Kit	18	2
Course Pro Gloves	220	154
Course Pro Golf and T..	110	84
Course Pro Putter	44	18
Course Pro Umbrella	88	8

Step 11) Calculating the percentage of returned item, we Right click on the measure shelf then Select the option create calculated field from the available options.

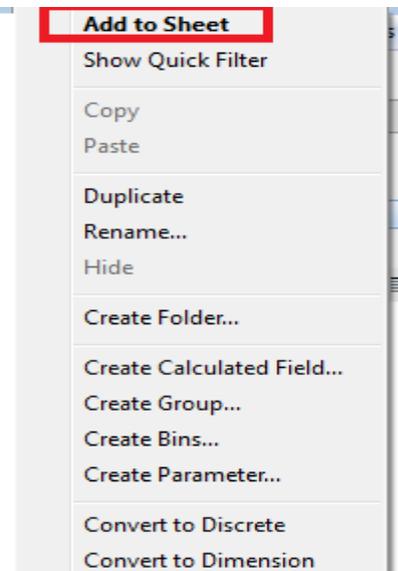


Step 12) Then the popup window will appear, here all the field display in the Fields tab and



Number of functions. We can choose any function from the list of available functions. Then write the expression for calculating the percentage $(\text{sum}(\text{ReturnedQuantity}) / \text{sum}(\text{Quantity})) * 100$ this will save the result of the expression in the new separate field and we have given the name percentage of returned quantity for this field.

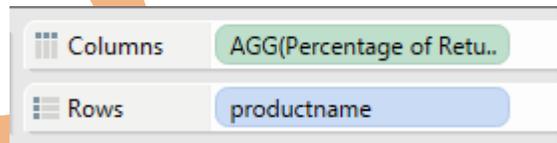
Step 13) How right click on the field percentage of Returned quantity and choose the Option Add to sheet.



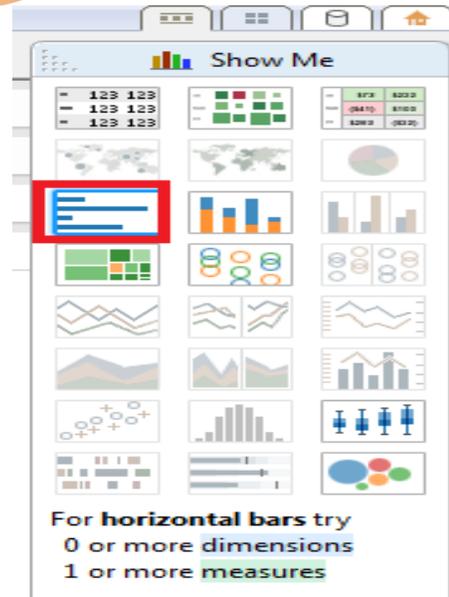
Step 14) Then the result will be display the total Quantity, returned quantity and the percentage of returned quantity .

productname	Quantity	ReturnQuantity	Percentage of Return Quan..
Aloe Relief	172	14	8%
Bear Edge	422	68	16%
Bear Survival Edge	888	268	30%
Blue Steel Putter	62	48	77%
BugShield Extreme	168	8	5%
BugShield Lotion	354	194	55%
BugShield Natural	114	12	11%
BugShield Spray	232	14	6%
Calamine Relief	38	2	5%
Canyon Mule Carryall	536	294	55%
Canyon Mule Climber ..	610	166	27%
Canyon Mule Cooler	188	38	20%
Canyon Mule Extreme ..	66	16	24%
Canyon Mule Journey ..	38	22	58%
Canyon Mule Weekend..	352	60	17%
Compact Relief Kit	18	2	11%
Course Pro Gloves	220	154	70%
Course Pro Golf and T..	110	84	76%
Course Pro Putter	44	18	41%
Course Pro Umbrella	88	8	9%
Deluxe Family Relief Kit	34	18	53%
Double Edge	1,032	324	31%
Edge Extreme	232	180	78%
EverGlow Butane	600	420	70%

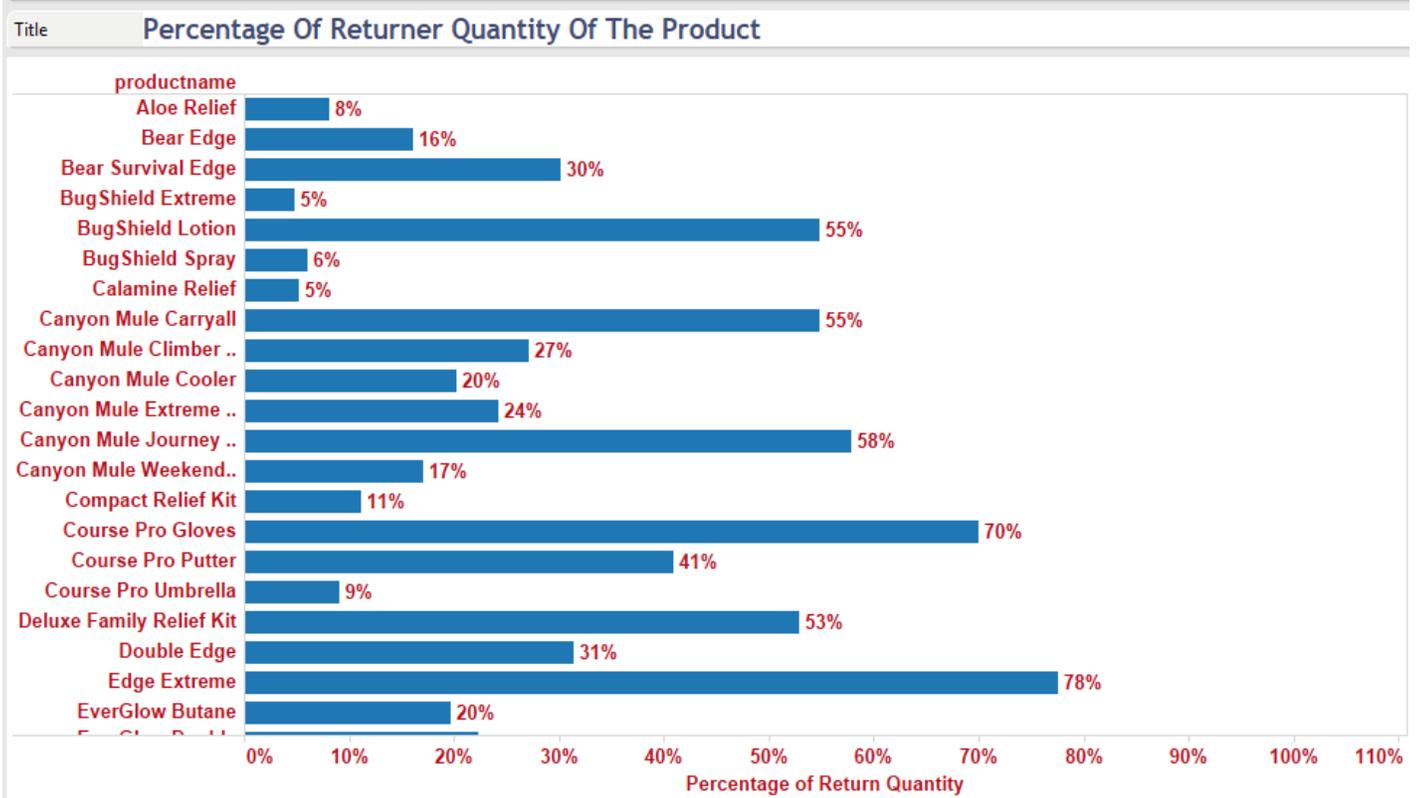
Step 15) Now Go to the new sheet and drag and drop Product Name in the rows shelf and Percentage of returned quantity in the column shelf from the measure.



Step 16) Now click on the bar chart from Show me toolbar.

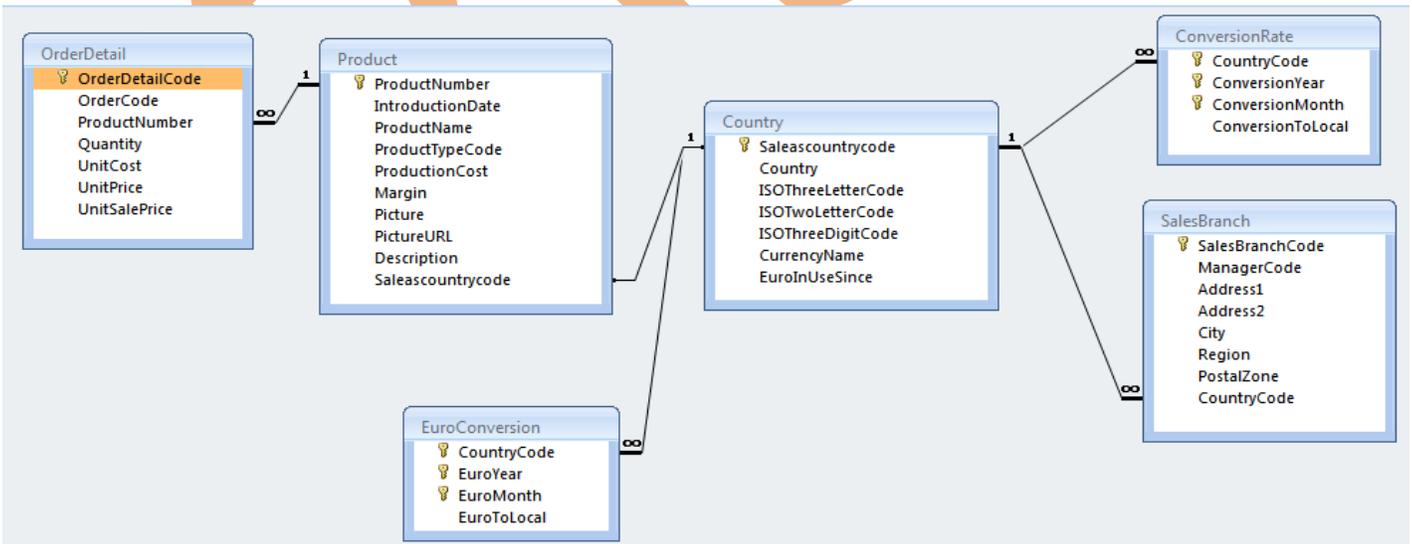


Step 17) Now the bar chart will be displayed, which shows the percentage of returned quantity of the product.

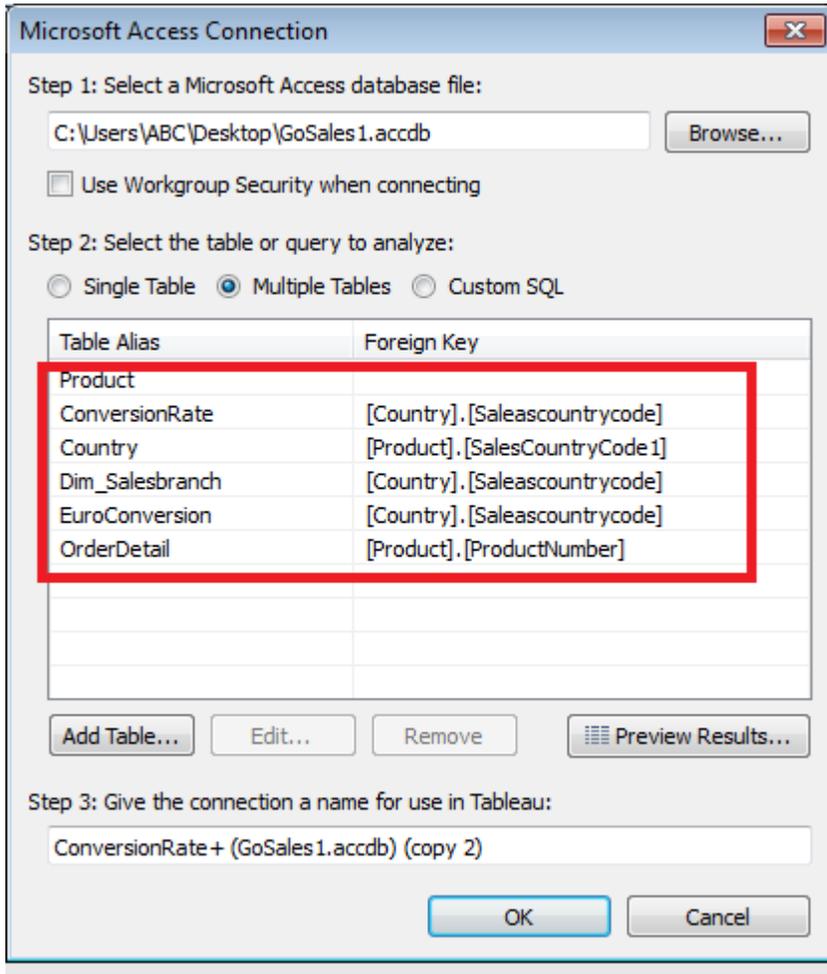


Top 10 Product Revenue Displaying Sheet

Step 1) Here is our data model in which OrderDetail is our fact table and product, EuroConversion, Country, ConversionRate and SalesBranch is our dimension tables.



Step 18) Then we have create the joins between the tables country, Conversionrate ,Euroconversion ,Orderdetail ,product and SalesBranch.



Step 19) Now all the fields will get imported in the worksheet.

Dimensions

Abc productname

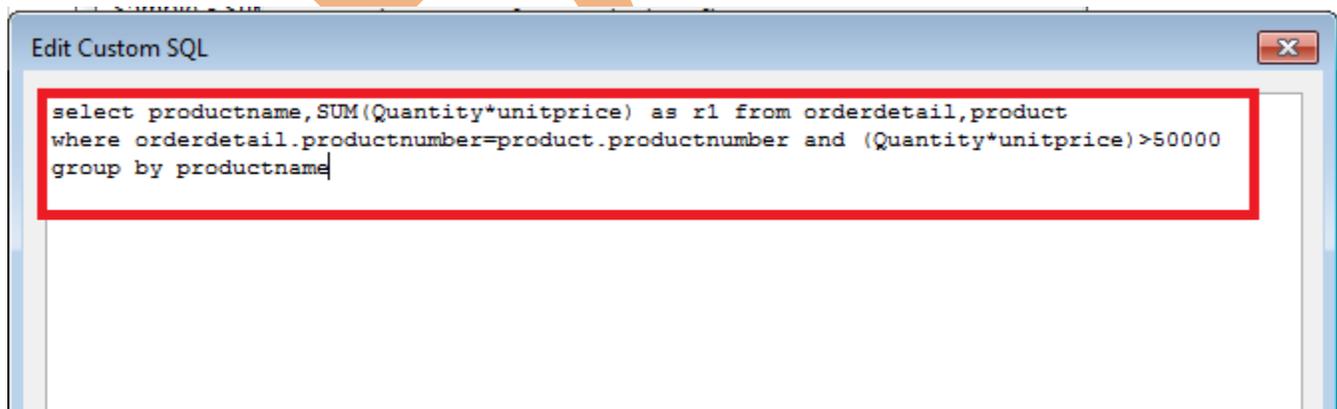
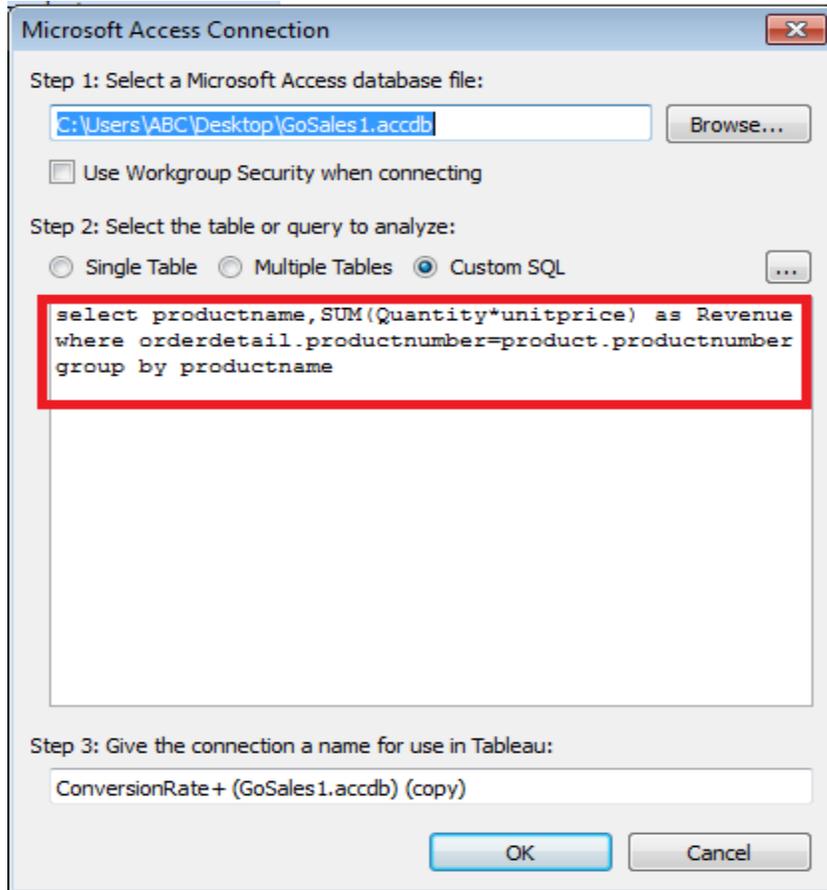
Abc Measure Names

Measures

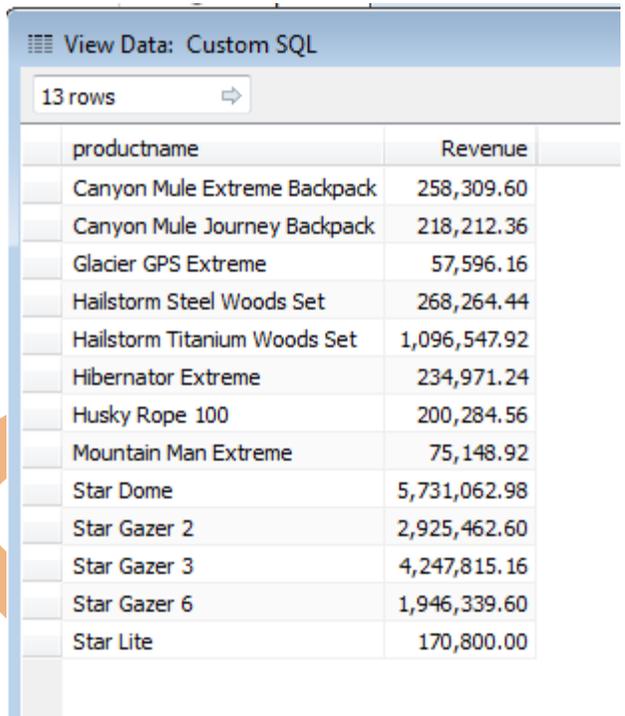
Revenue

Step 20) Then we have to fetch those products having the highest revenue from all of the products, so here we have used the query which will result those products which having the revenue greater than 50000. The query used here is

```
select productname, SUM(Quantity*unitprice) as Revenue from orderdetail, product
where orderdetail.productnumber=product.productnumber and (Quantity*unitprice)>50000
group by productname
```



Step 21) Then the query will result those product which having the Highest revenue.

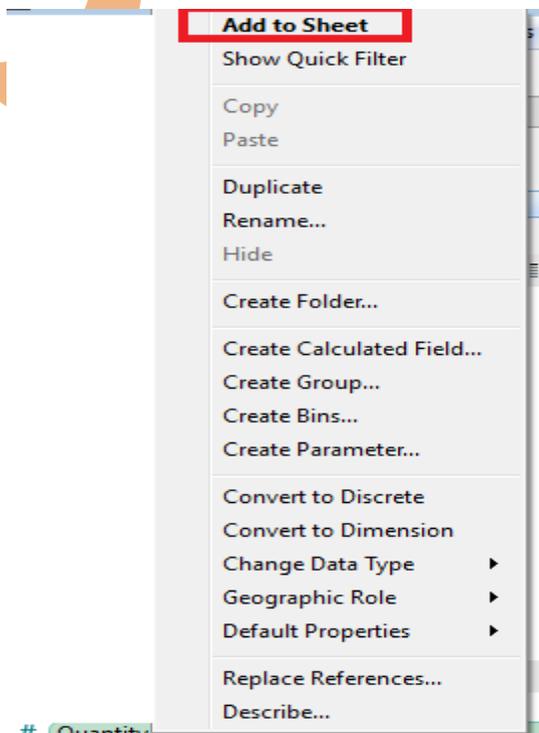


productname	Revenue
Canyon Mule Extreme Backpack	258,309.60
Canyon Mule Journey Backpack	218,212.36
Glacier GPS Extreme	57,596.16
Hailstorm Steel Woods Set	268,264.44
Hailstorm Titanium Woods Set	1,096,547.92
Hibernator Extreme	234,971.24
Husky Rope 100	200,284.56
Mountain Man Extreme	75,148.92
Star Dome	5,731,062.98
Star Gazer 2	2,925,462.60
Star Gazer 3	4,247,815.16
Star Gazer 6	1,946,339.60
Star Lite	170,800.00

Step 22) Now drag and drop ProductName in rows shelf.



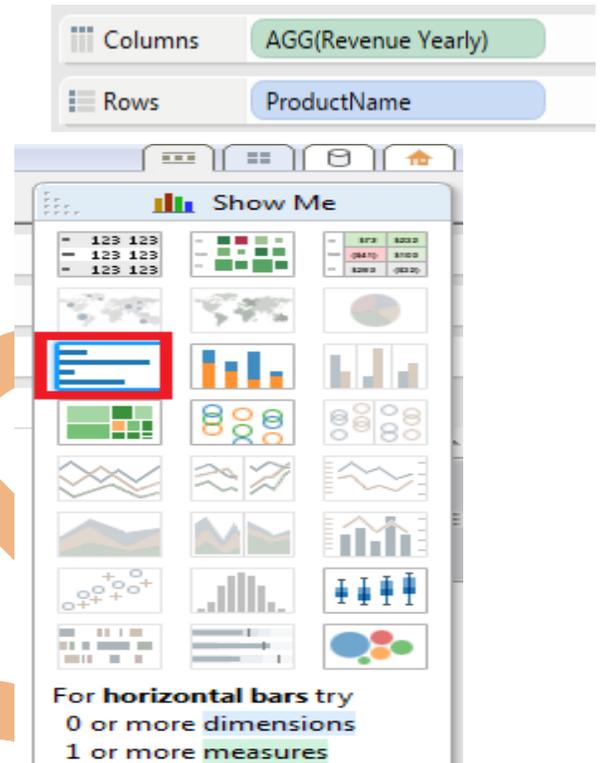
Step 25) Now right click on the field percentage of Revenue and choose the Option Add to sheet.



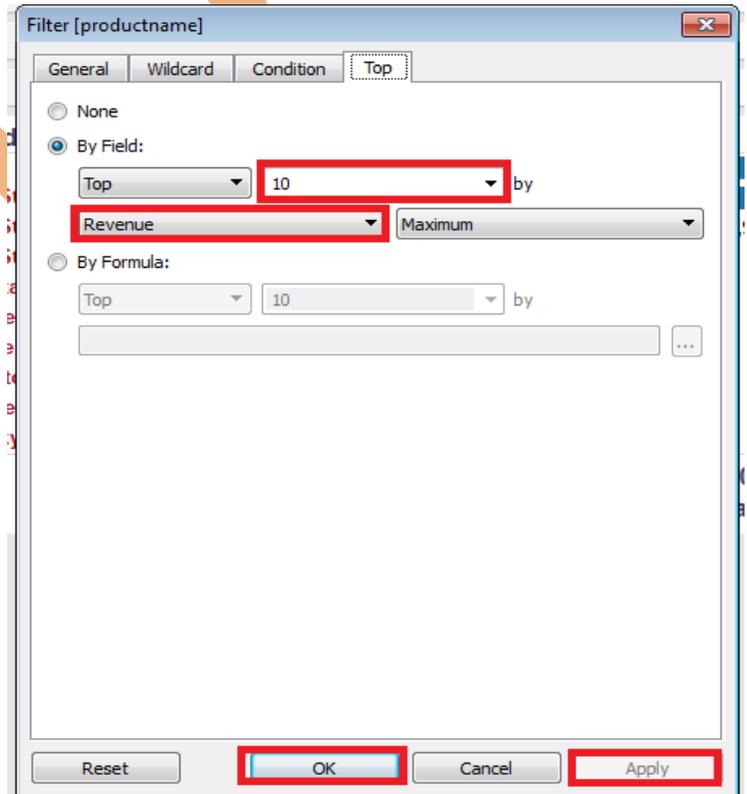
Step 26) Now this is the table created where the products displaying who have highest revenue and its corresponding Country name , currency name and Revenue yearly.

Step 27) Now drag and drop the Product name in the Rows Shelf and Revenue Yearly in the column shelf From the measure shelf.

Step 28) Now click on the bar chart from Show me toolbar.



Step 29) Now we want the Top 10 products who having the highest revenue so here we will apply the filters. Select the option Top and here apply the condition for top 10 products who having highest revenue then Apply then ok.



Step 30) Now the chart have been created here which is giving the top 10 product who having highest revenue.

