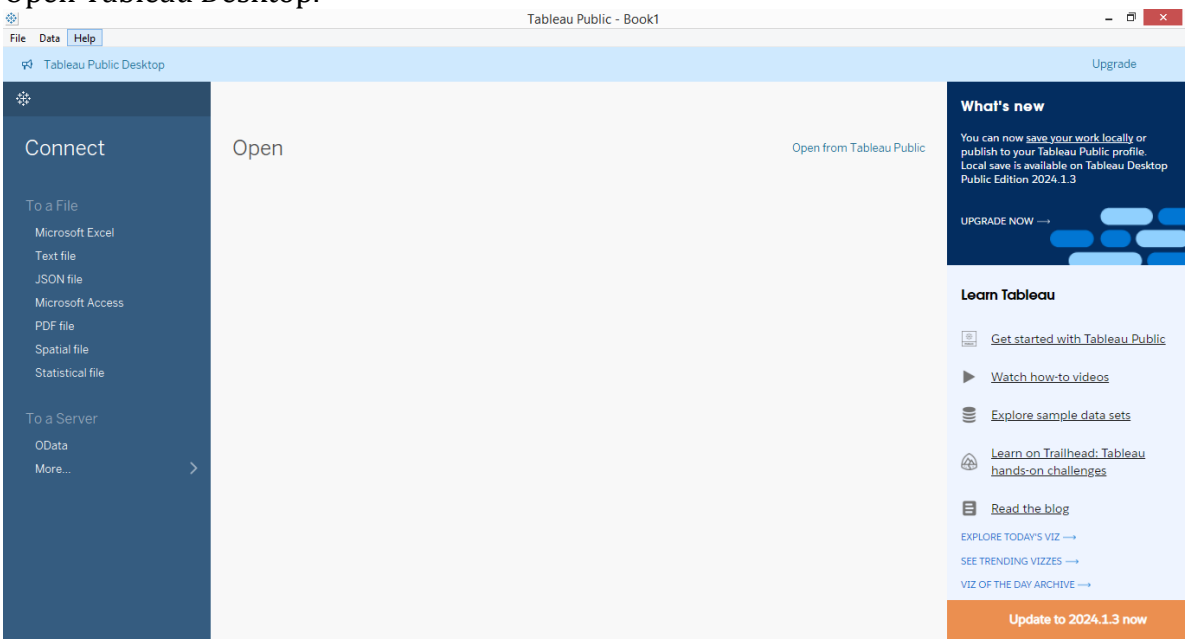
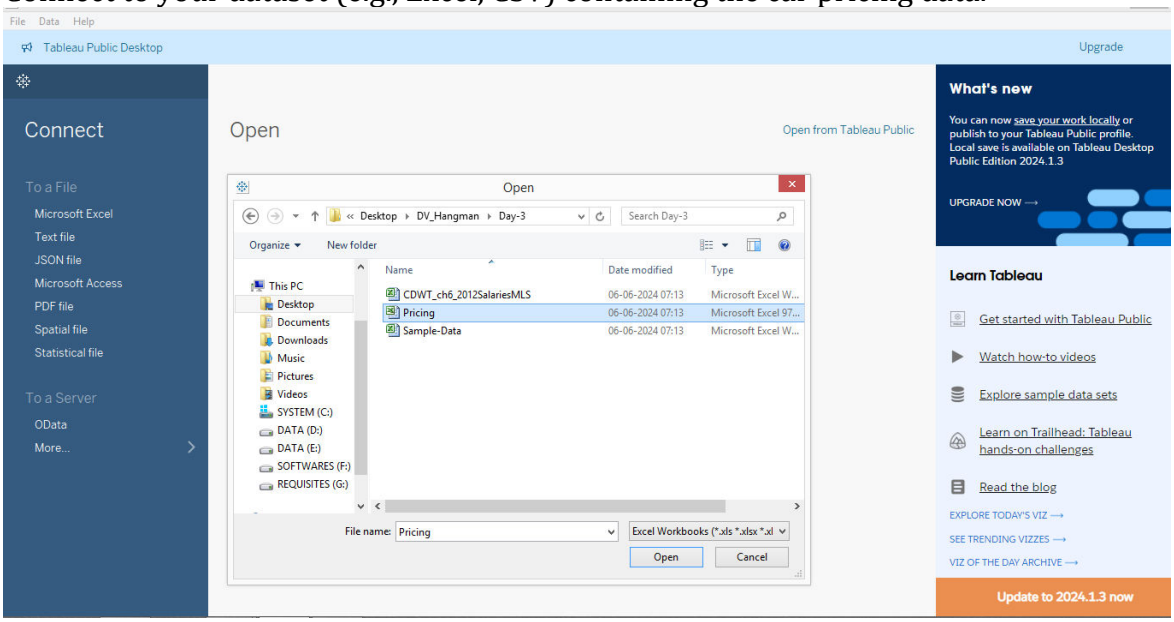
Tableau Assignment
Aryaman Mishra
Assignment 3

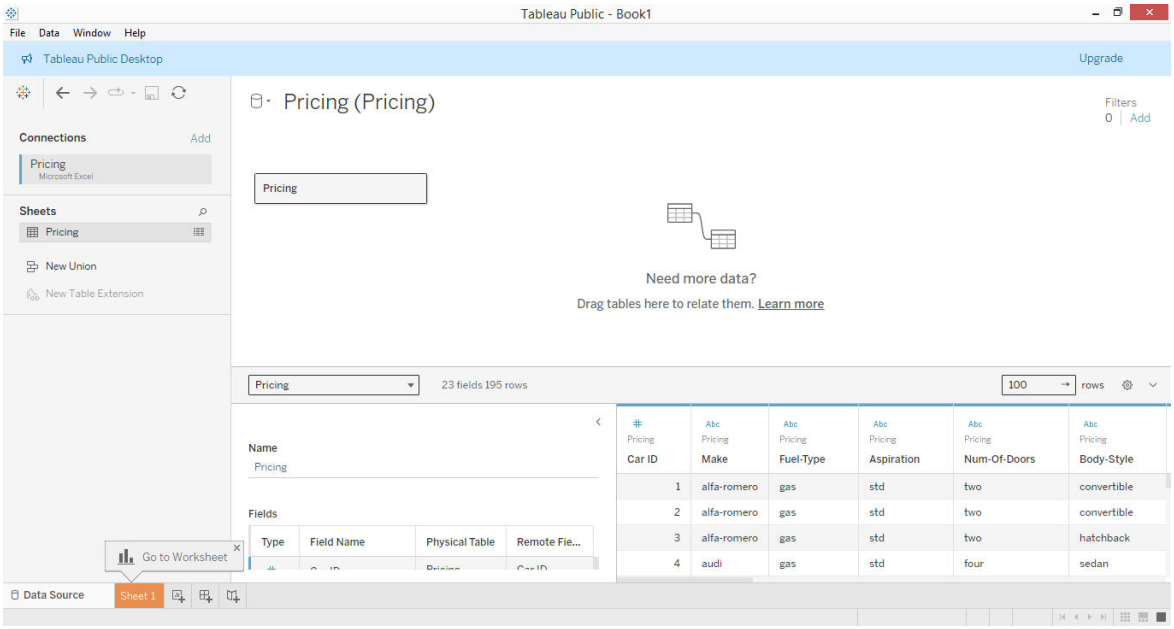
1 Plot a scatter Plot using pricing dataset. Investigate the power of the Car Vs price .if you want to buy a car with power of 170hp.,which one would you choose?..

Import the Dataset:
Open Tableau Desktop.



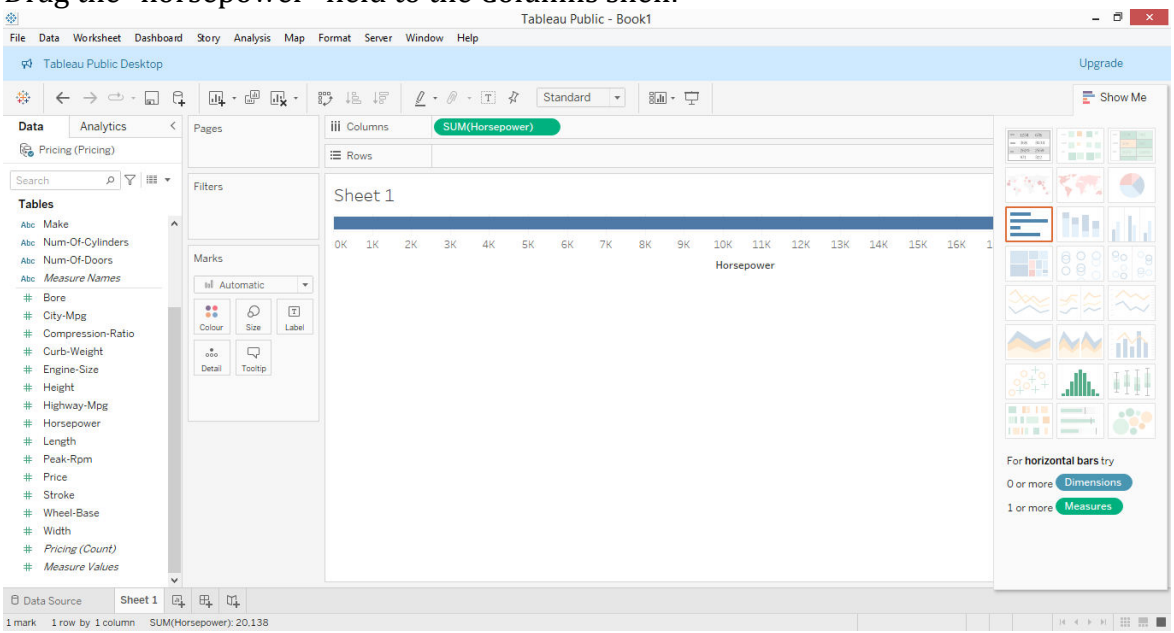
Connect to your dataset (e.g., Excel, CSV) containing the car pricing data.



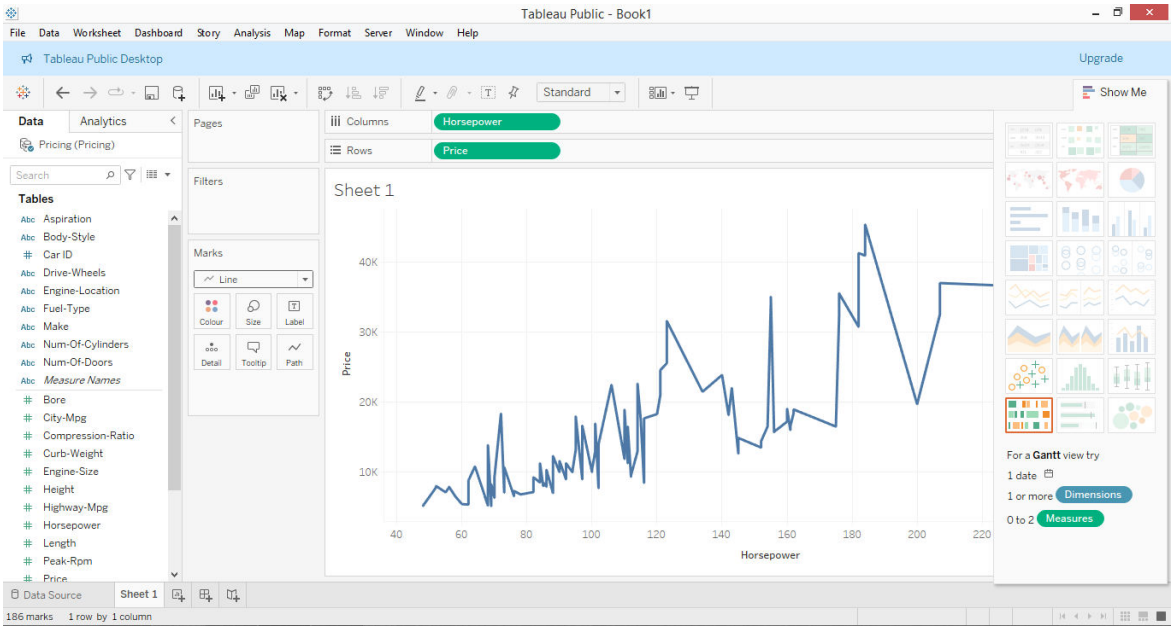


Drag and Drop Data:

Drag the "horsepower" field to the Columns shelf.



Drag the "price" field to the Rows shelf.

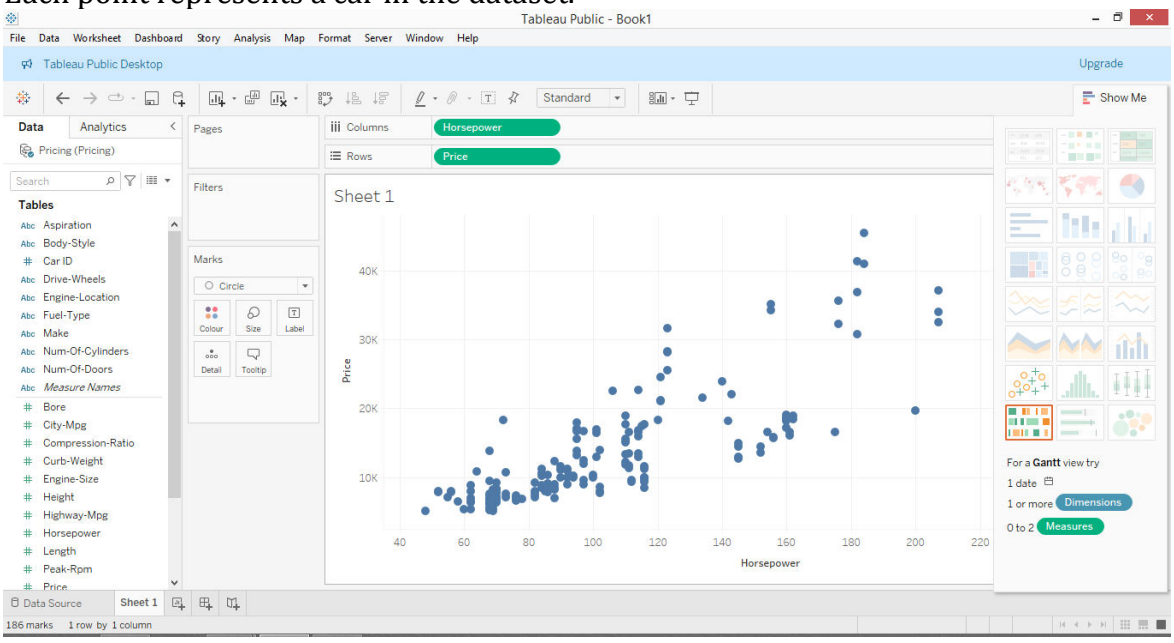


Adjust the Marks:

Change the mark type to "Circle" or "Point" to create a scatter plot.

Explore the Scatter Plot:

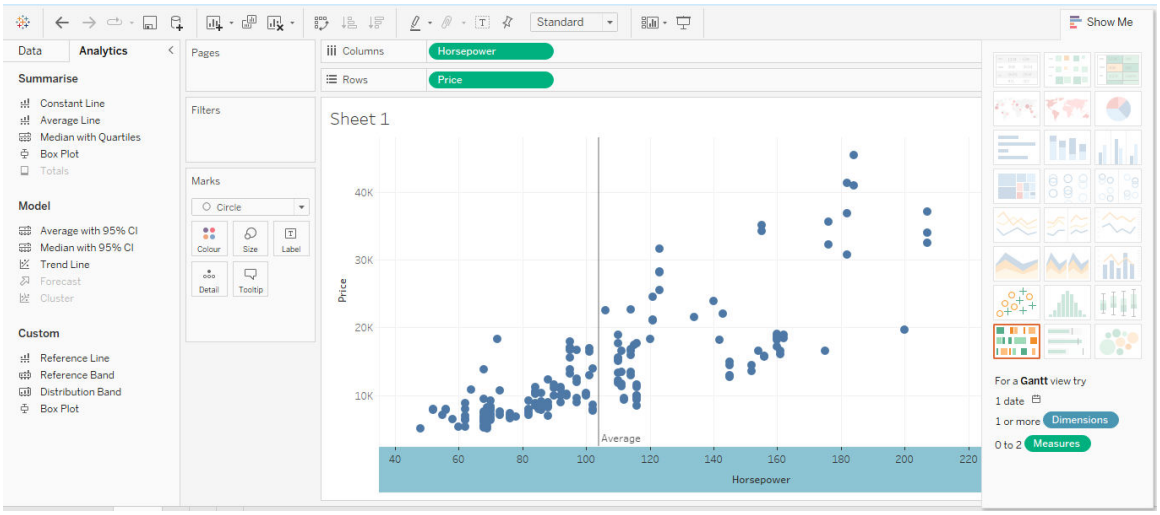
You should now see a scatter plot with horsepower on the x-axis and price on the y-axis. Each point represents a car in the dataset.



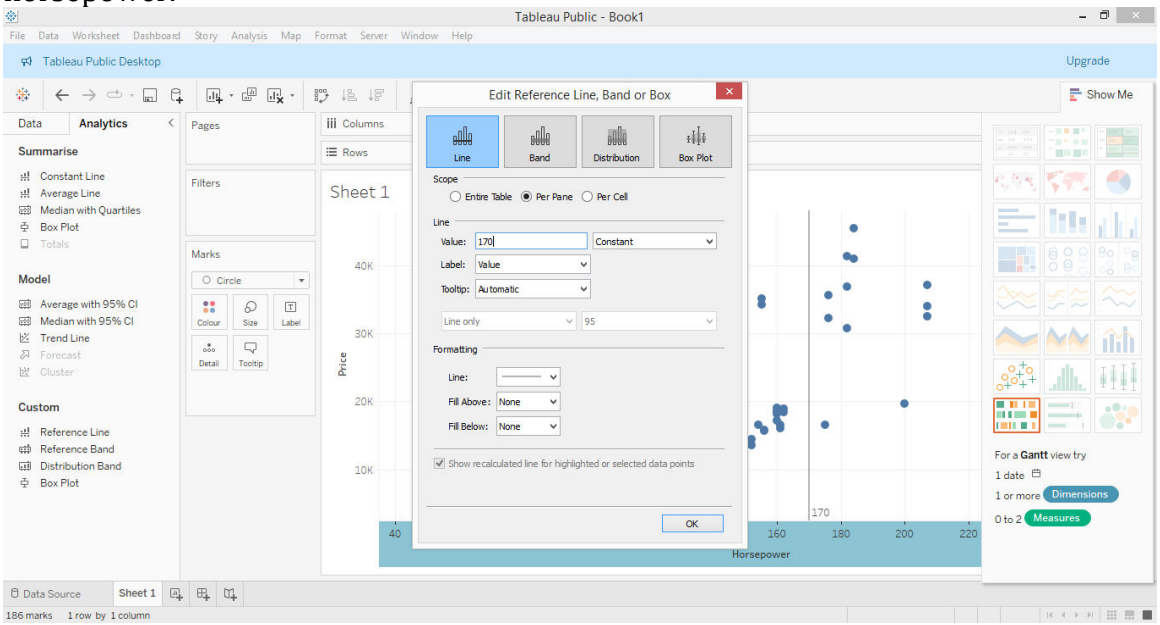
Add Reference Line:

To visualize the power of the car you want to buy (170hp), add a reference line.

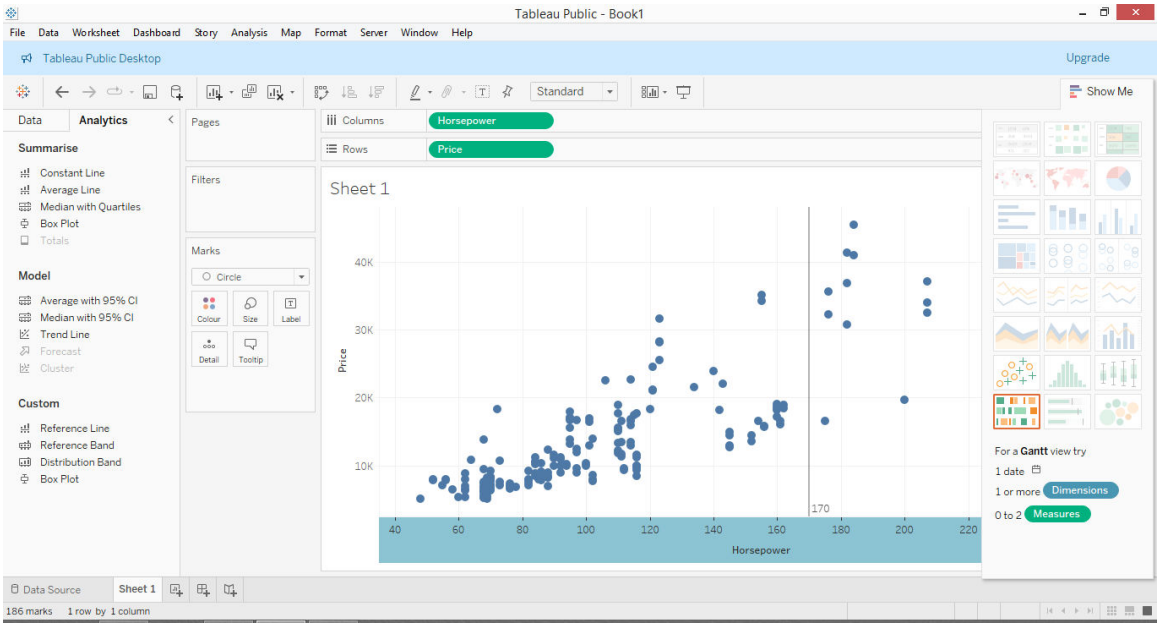
Right-click on the "horsepower" axis and select "Add Reference Line."



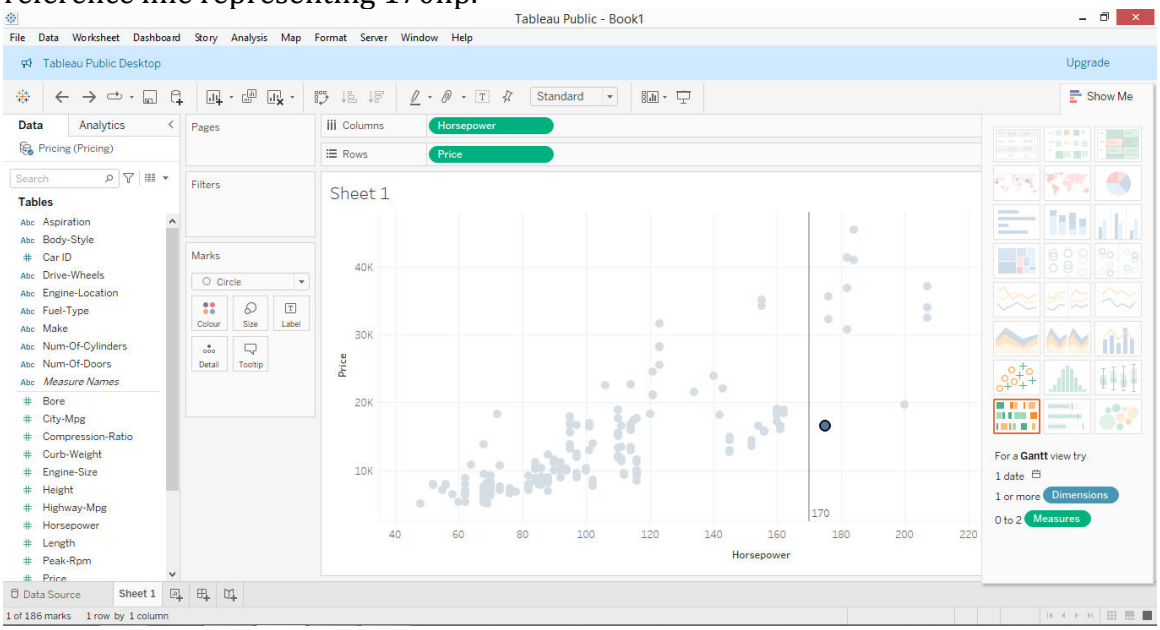
In the Reference Line dialog, choose "Constant" and enter the value "170" for horsepower.



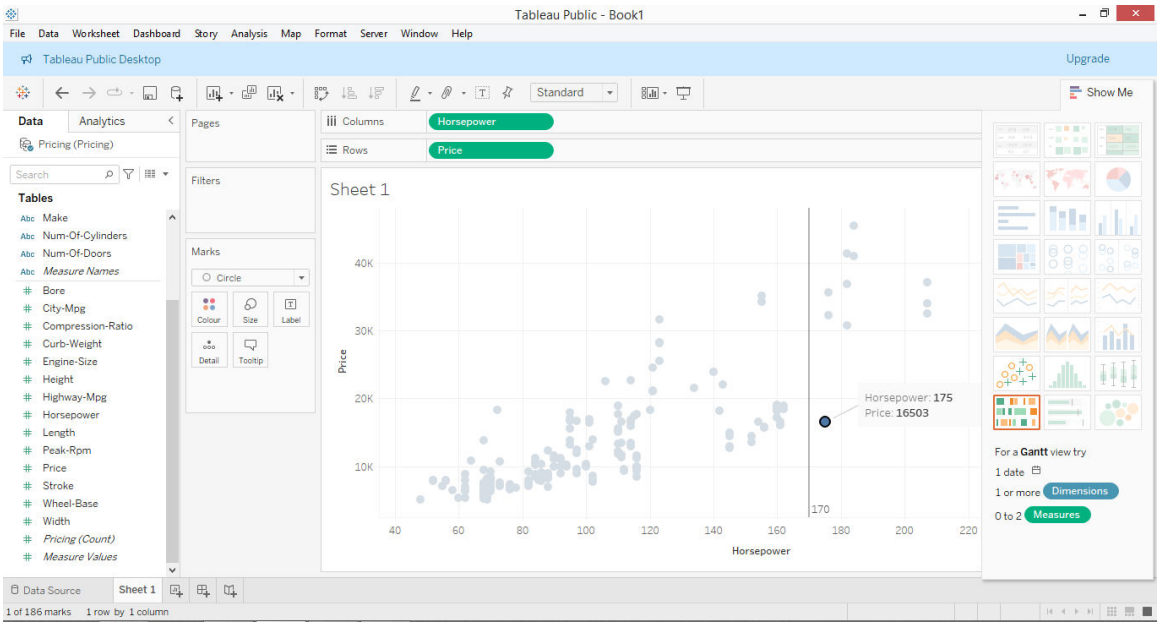
You can format the reference line to make it more visible if needed.



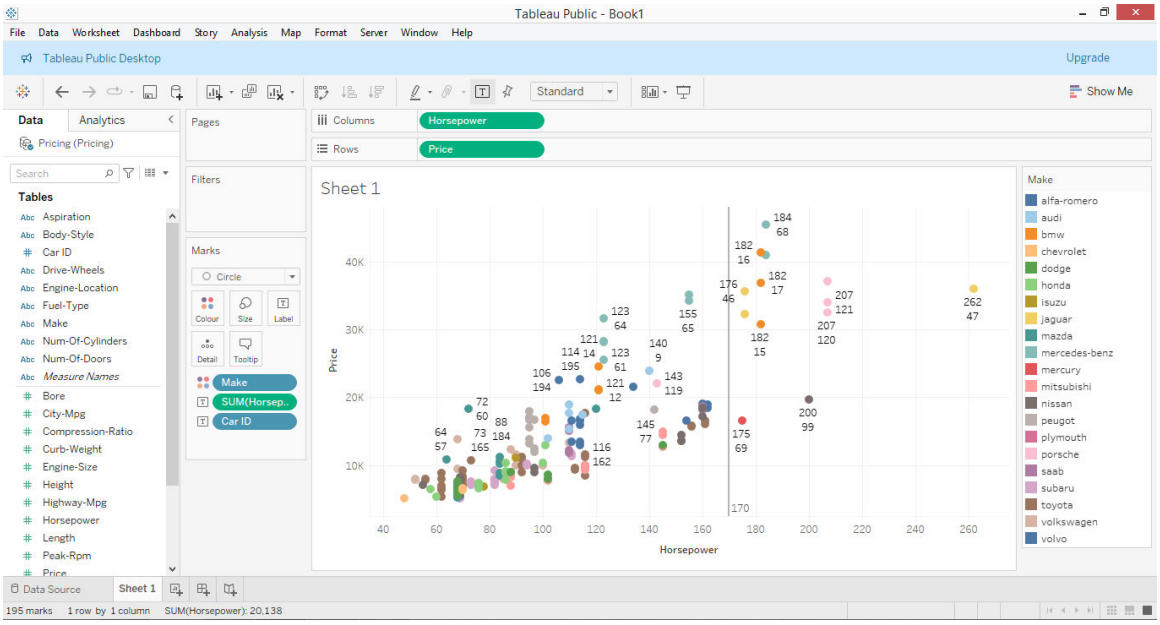
Analyze the Data:
Now, you can analyze the scatter plot to see how price varies with car power. Look for any patterns or trends.
Select a Car:
To choose a car with 170hp based on the scatter plot, identify the point(s) closest to the reference line representing 170hp.



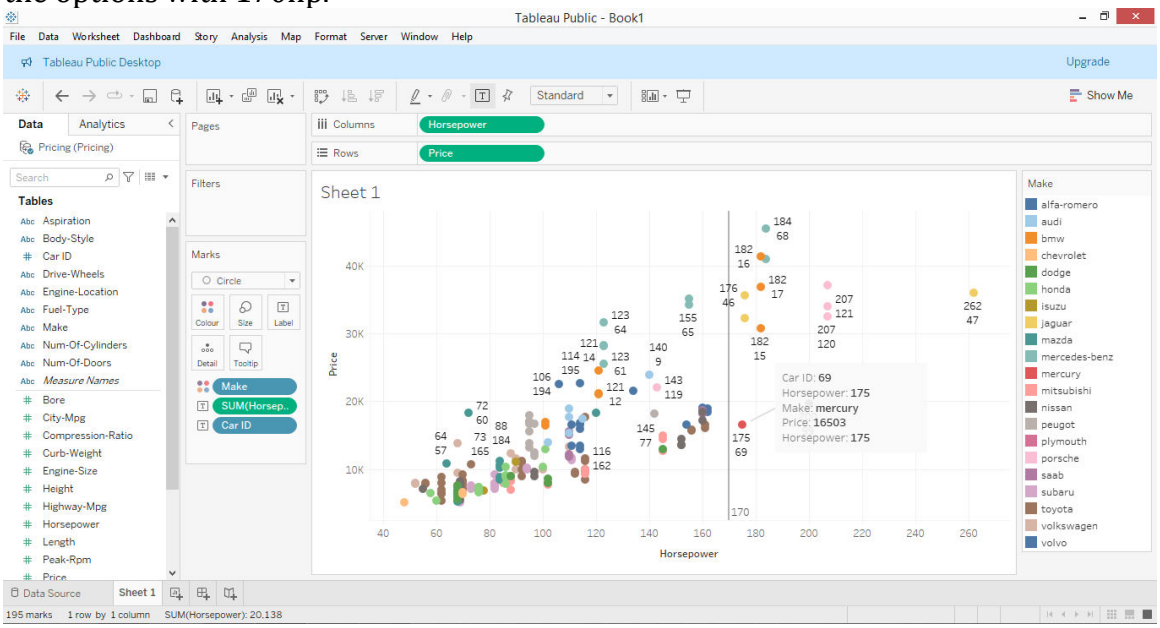
Use Annotation to mark that car information.



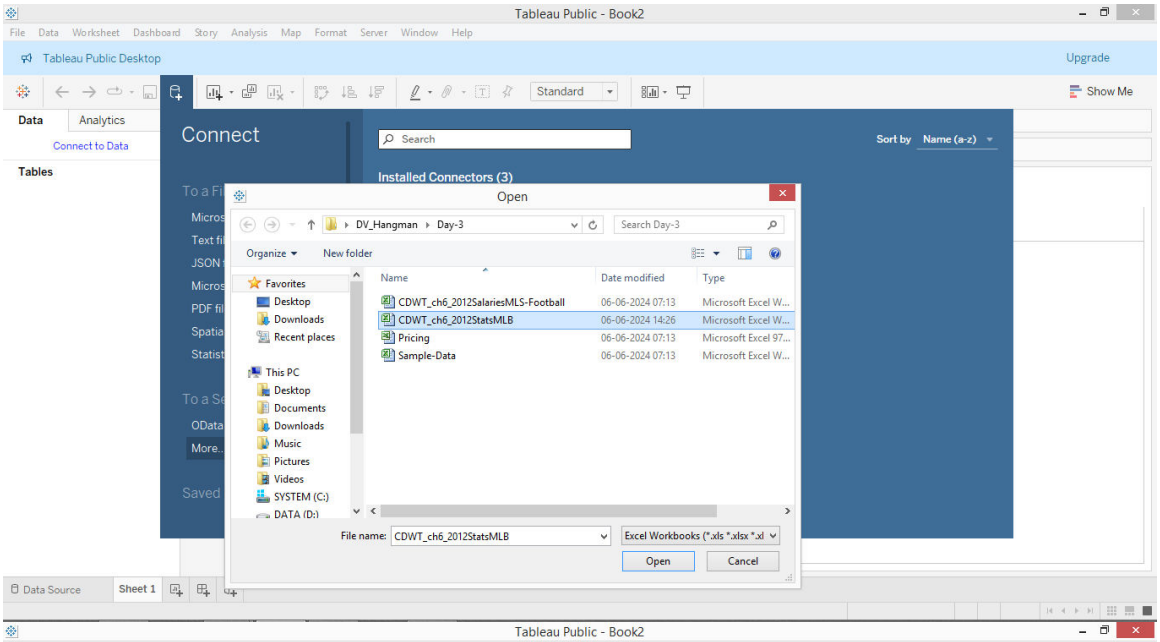
Hover over the points to see details such as make, model, and price.

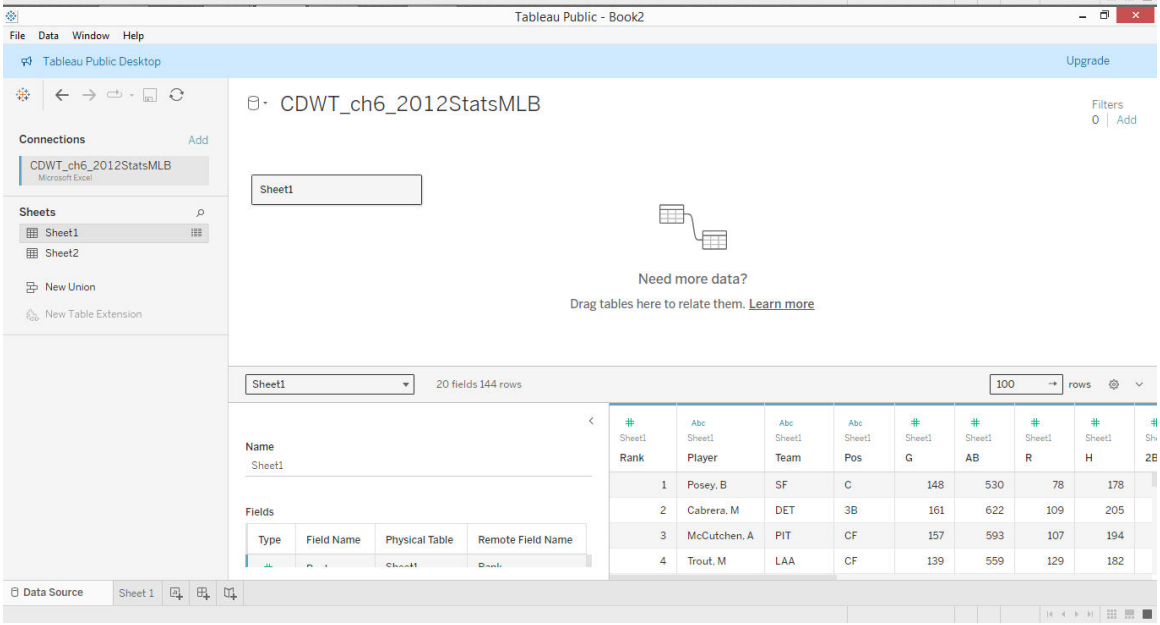


Based on your preferences (e.g., budget, brand), select the car that suits you best from the options with 170hp.

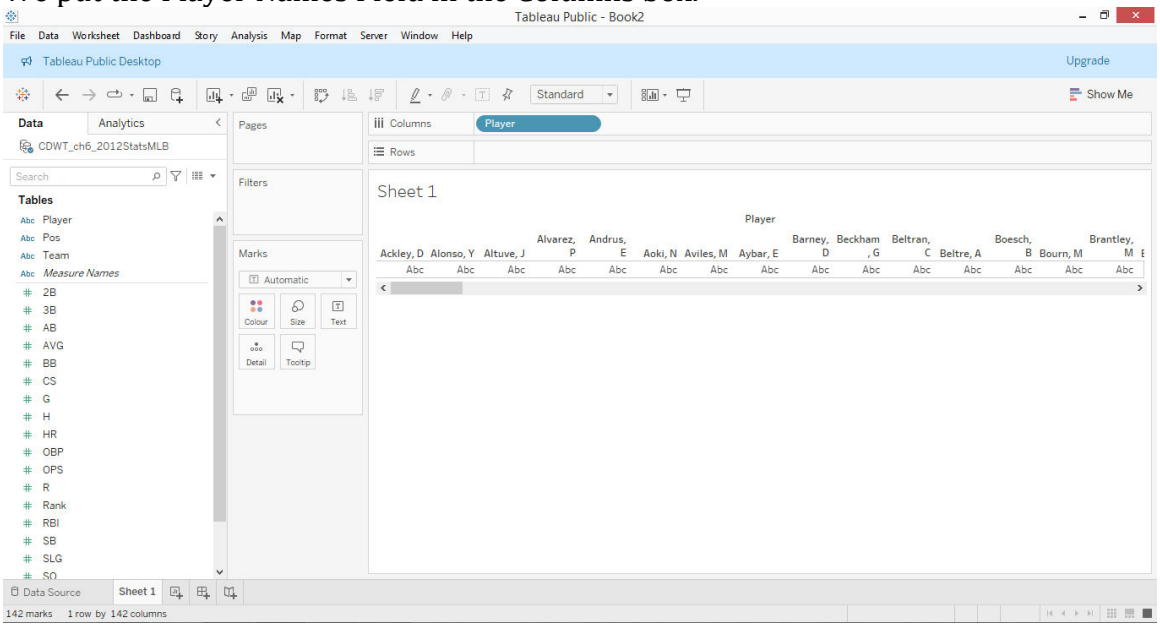


2. create using CDWT_ch6_2012StatsMLB .xls
Find out the qualifying players' distribution of RBI during 2012 baseball match.
We import the MLB Dataset into Tableau.

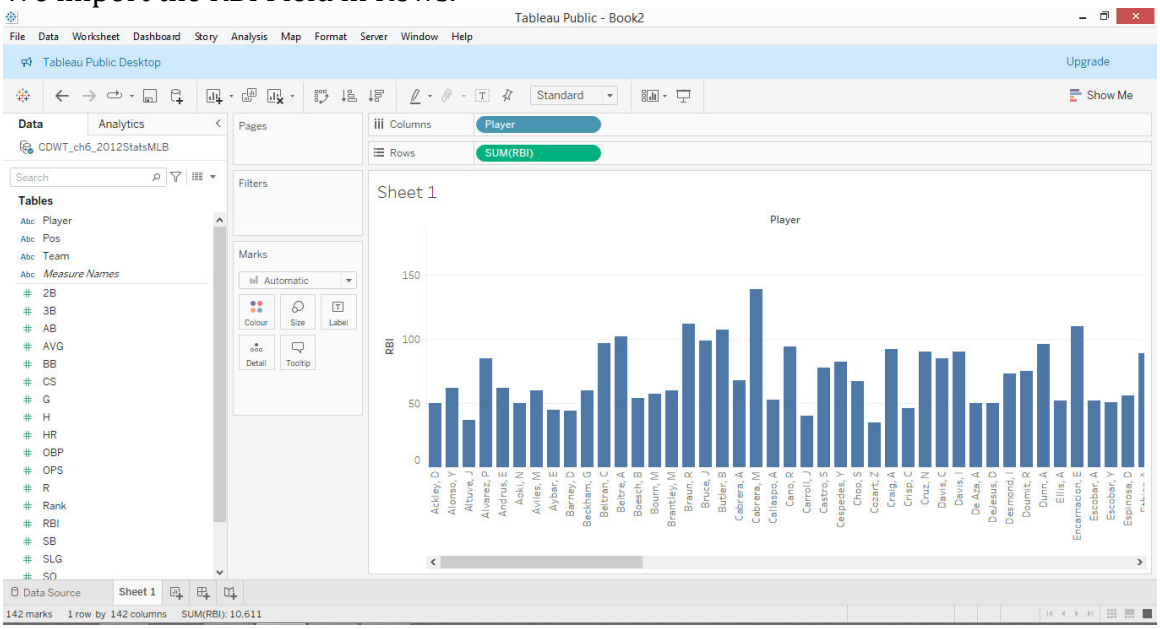




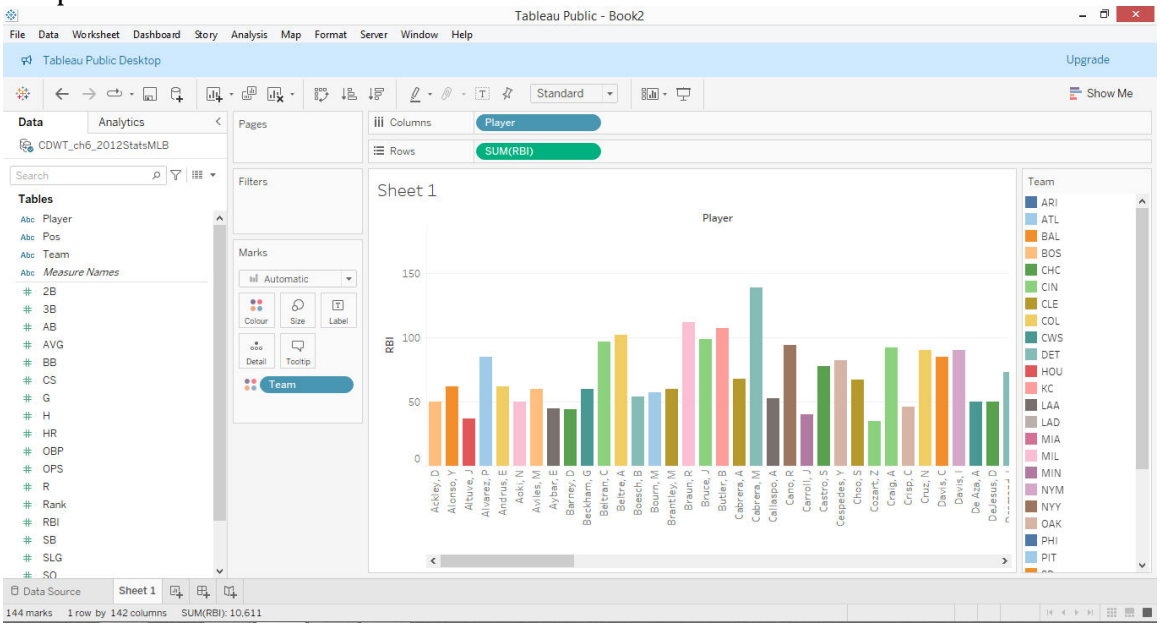
We put the Player Names Field in the Columns box.



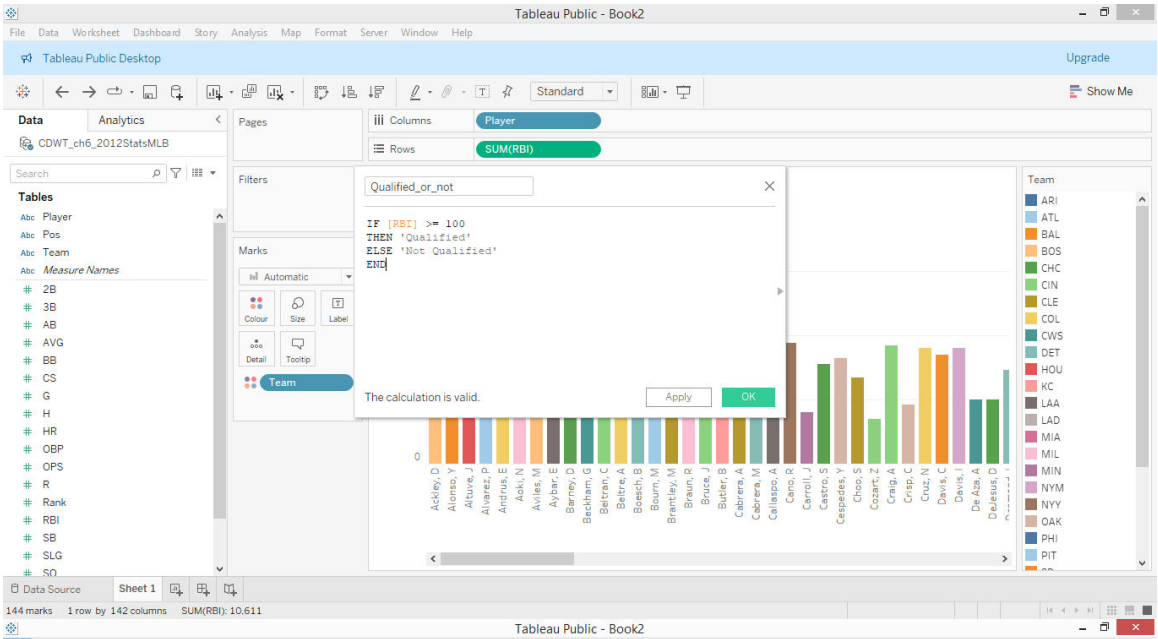
We import the RBI Field in Rows.

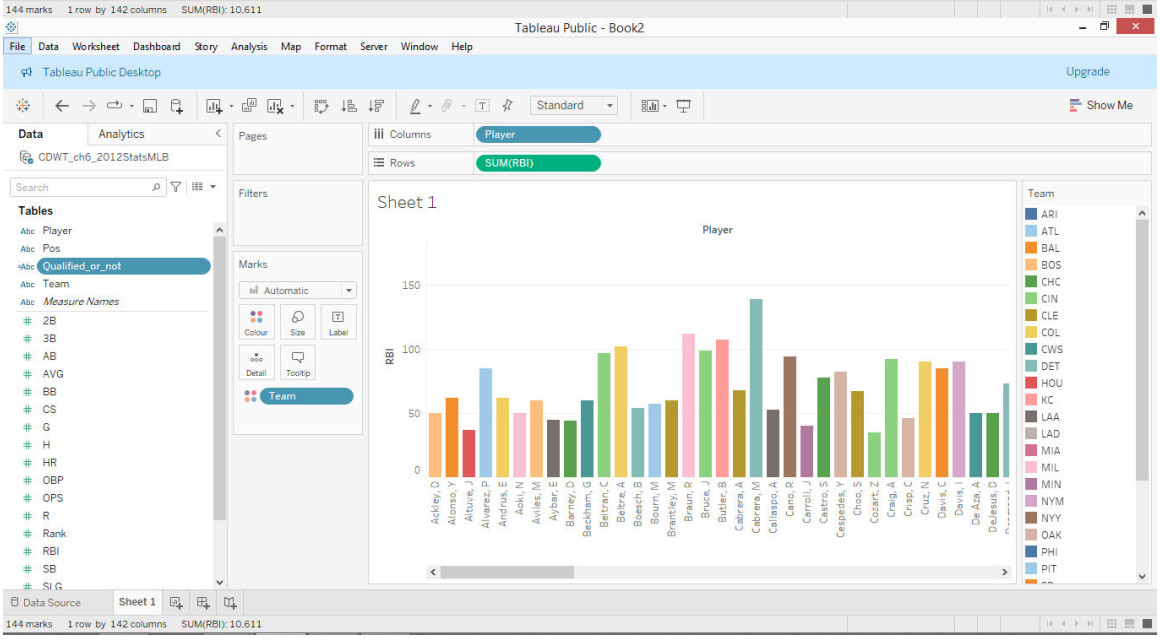


We put the Teams field in the colour field.

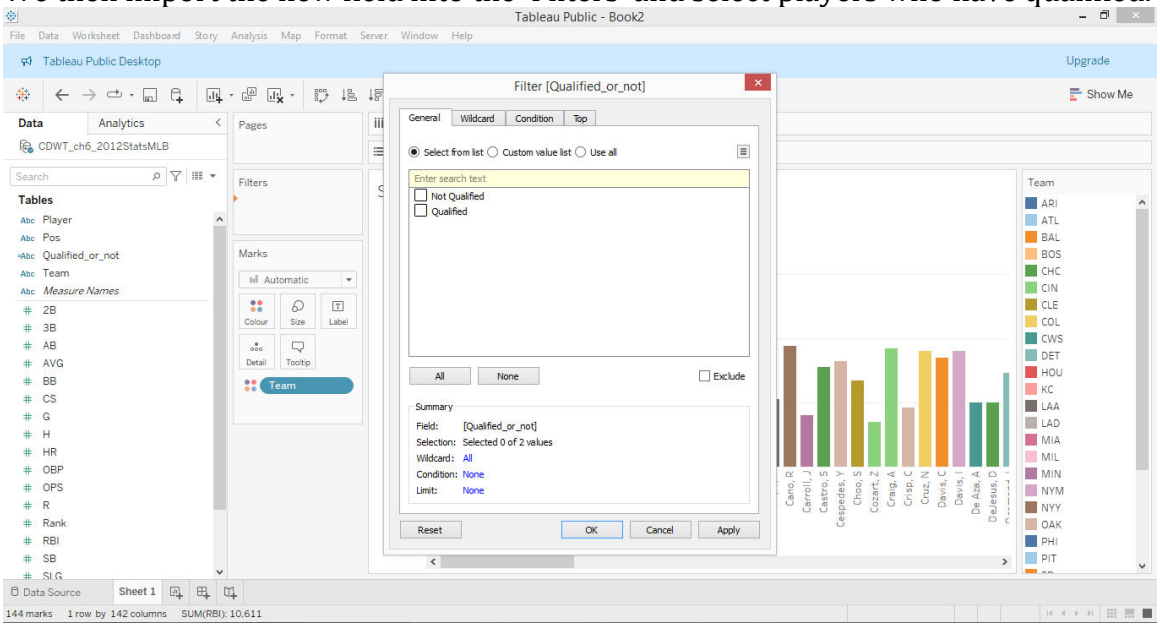


We create a Calculated field to find out players who qualified if they had an RBI (Runs Batted In) above 100, else they are 'Not Qualified.'

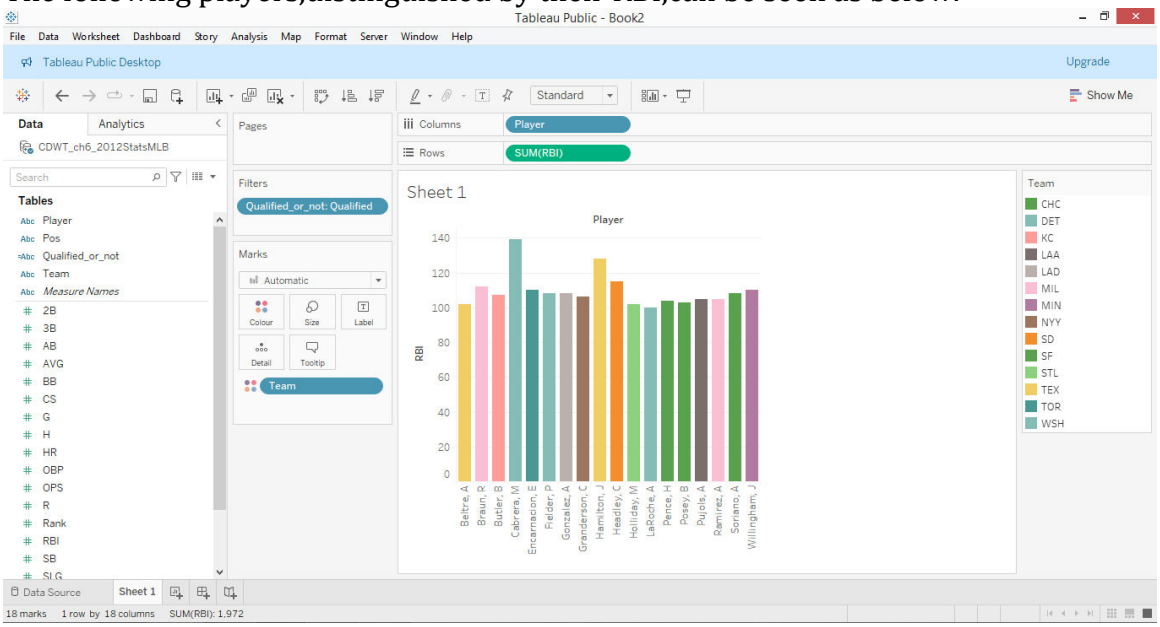




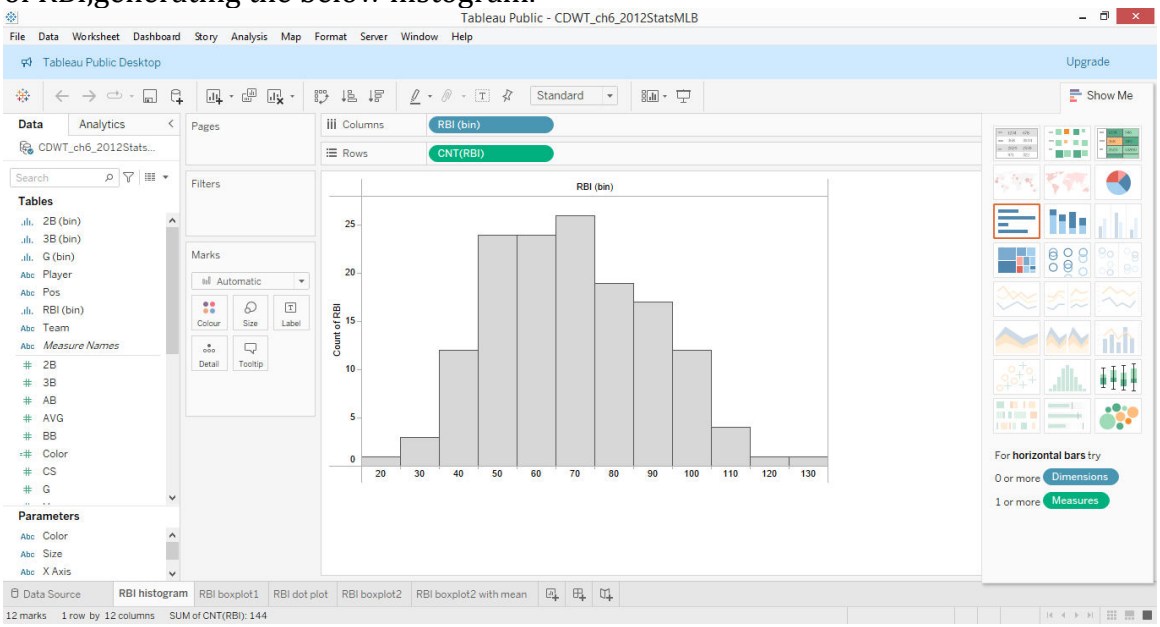
We then import the new field into the 'Filters' and select players who have qualified.



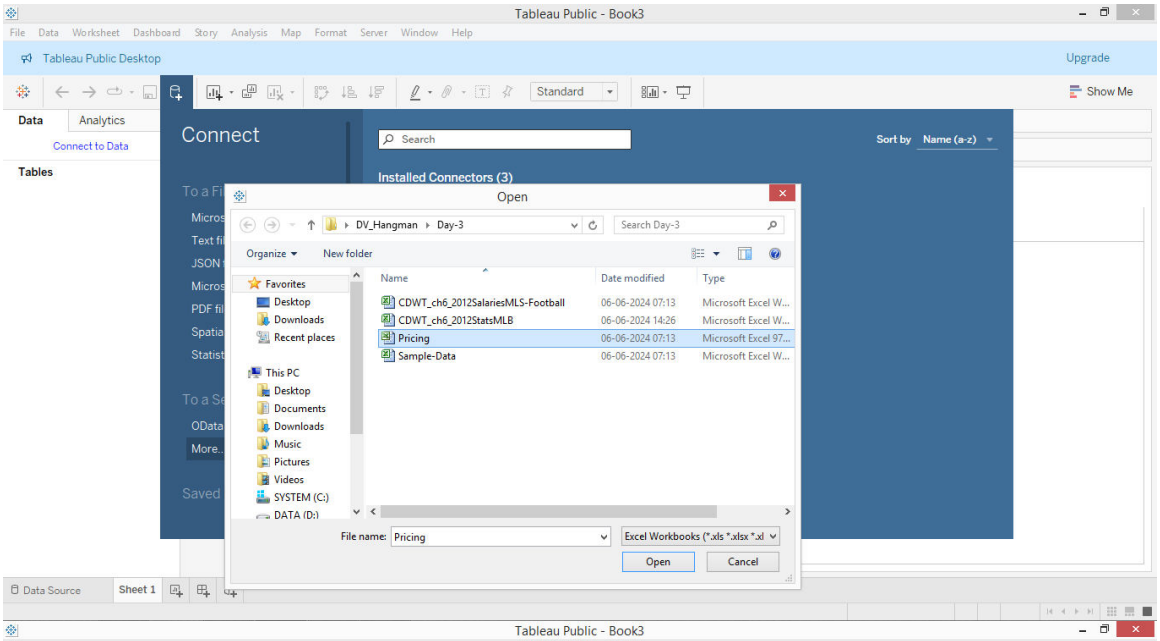
The following players,distinguished by their RBI,can be seen as below.

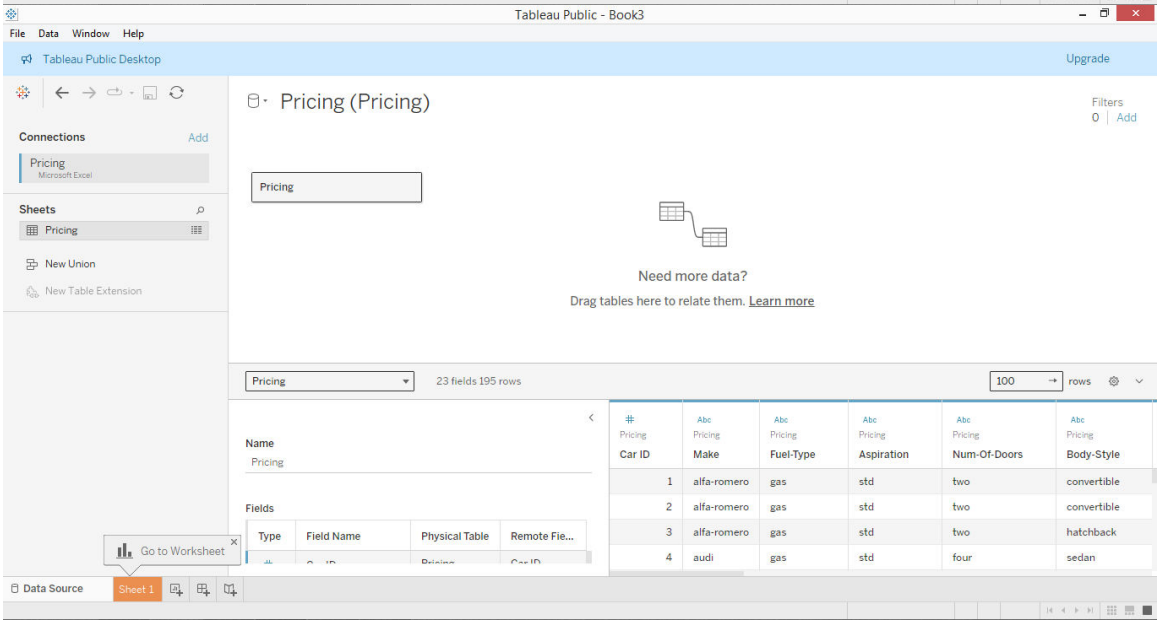


Now to see the distribution of RBI,we just use the discrete version of RBI against Count of RBI,generating the below histogram.

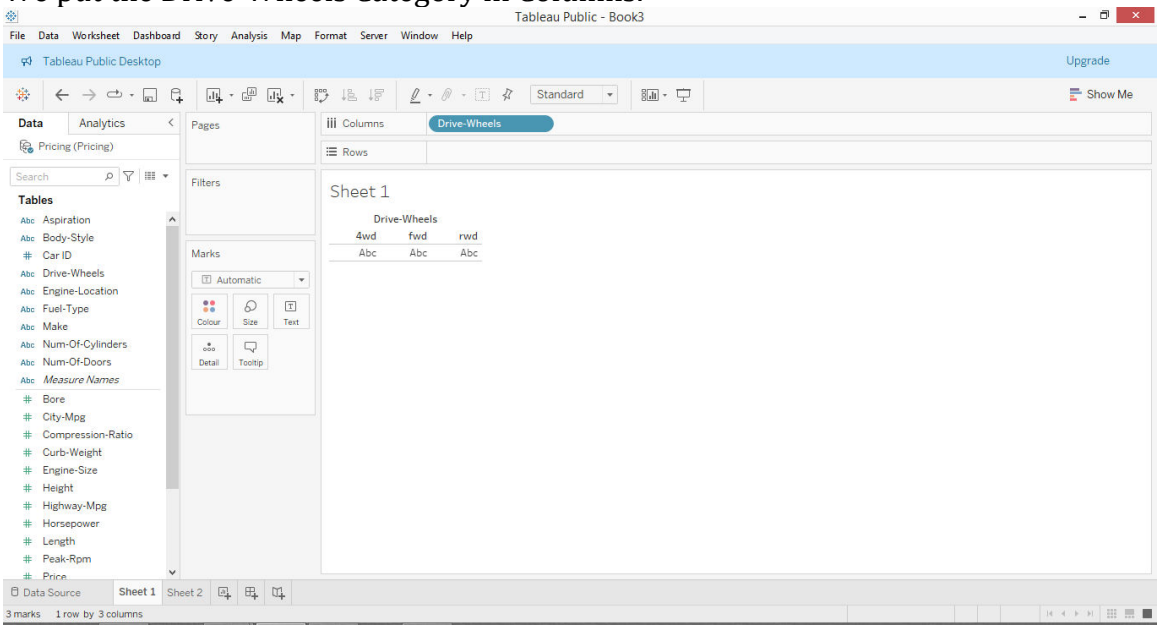


3. Create a Bar graph using pricing.xls, which kind of drive wheel -type is most common?
We import the Pricing dataset in Tableau,yet again.

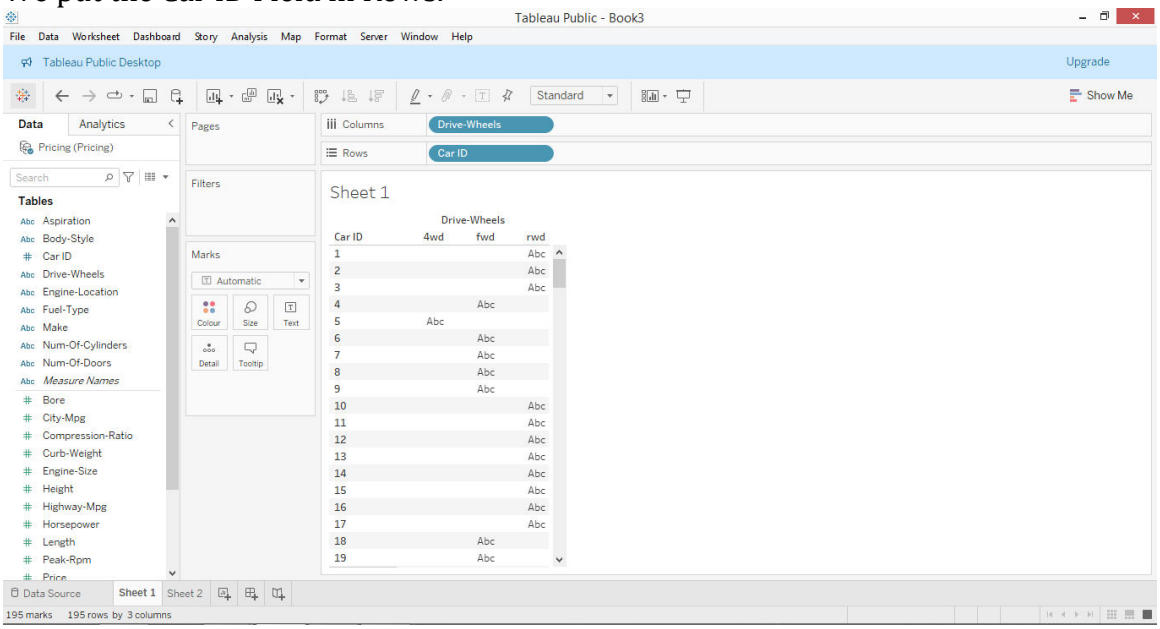




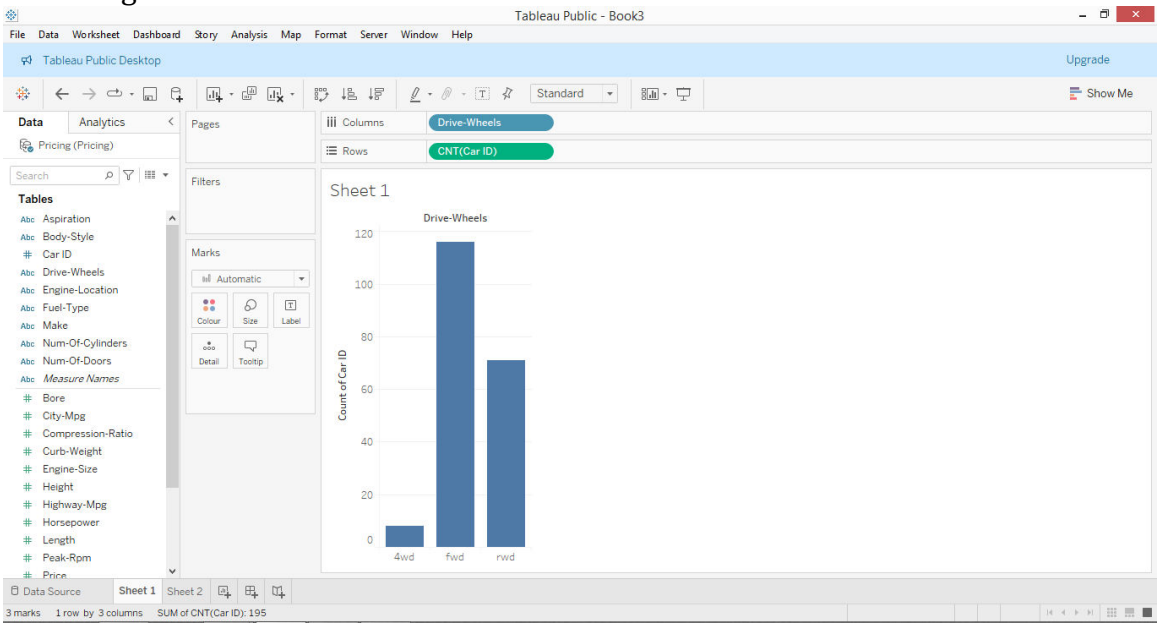
We put the Drive-Wheels Category in Columns.



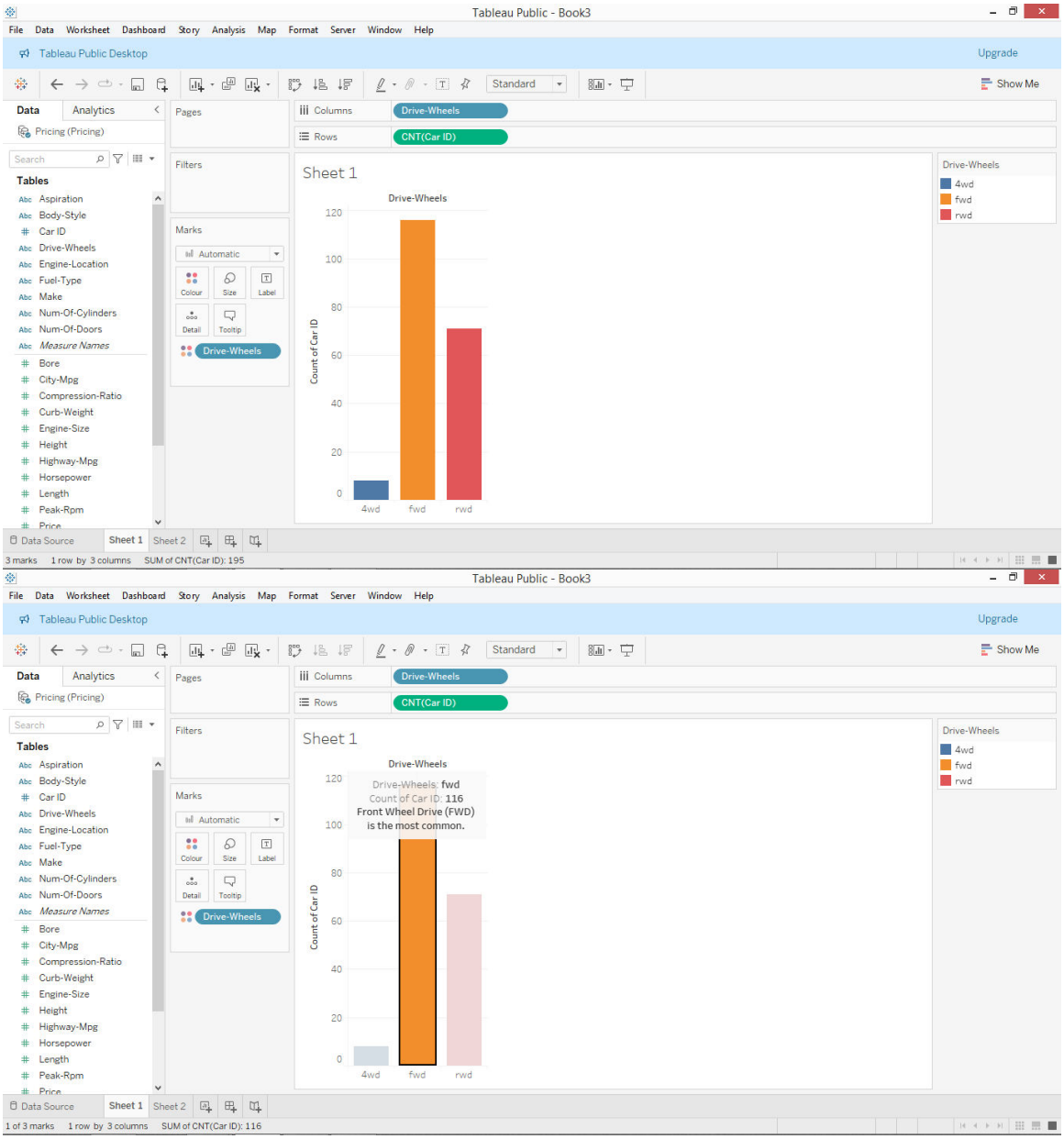
We put the Car ID Field in Rows.



We change the attribute of CarID to measure of Count of CarID.



We put the Drive Wheels Category in the Colour field.



Finally, we add the annotation displaying the data of the most common drive wheel type.

4Which kind of drive wheel -type is most common? [Already Answered Above]

a. Create a line chart that shows the sales by continuous years.

To create a line chart in Tableau that shows the sales by continuous years and add the category field to the color mark, follow these steps:

Connect to Data: Connect Tableau to your dataset containing the sales data.

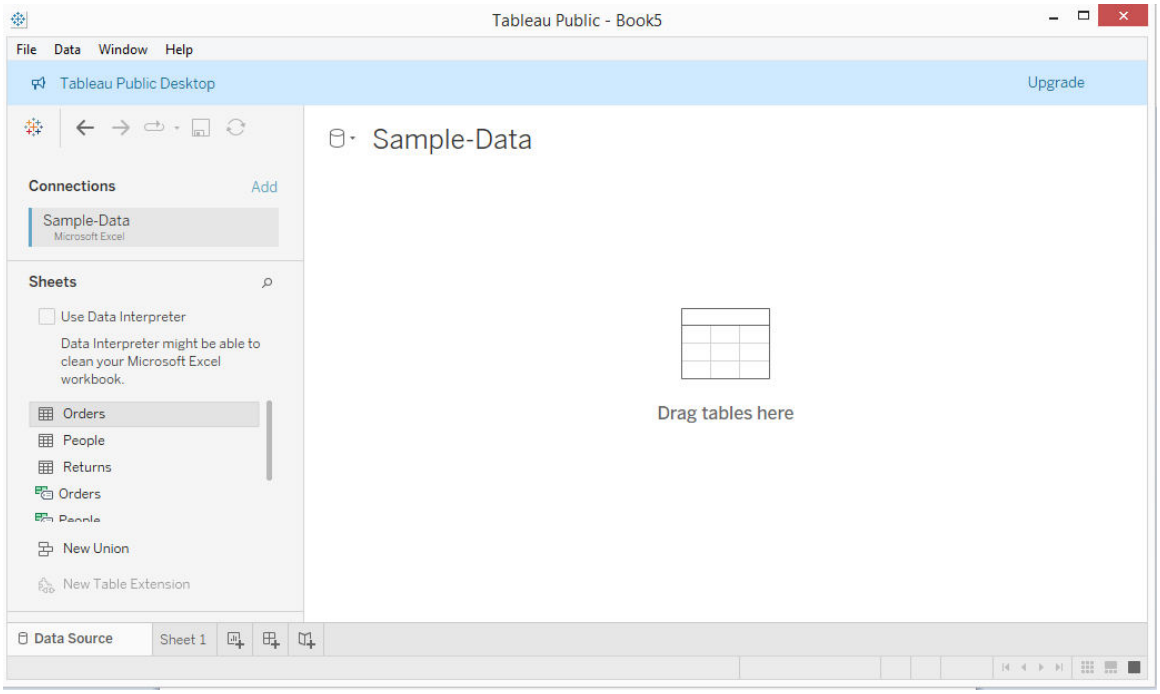


Tableau Public - Book5
File Data Window Help
Tableau Public Desktop
Upgrade
Connections
Add
Sample-Data
Microsoft Excel
Sheets
Use Data Interpreter
Data Interpreter might be able to clean your Microsoft Excel workbook.
Orders
People
Returns
Orders
People
New Union
New Table Extension
Sample-Data
Drag tables here
Data Source
Sheet 1

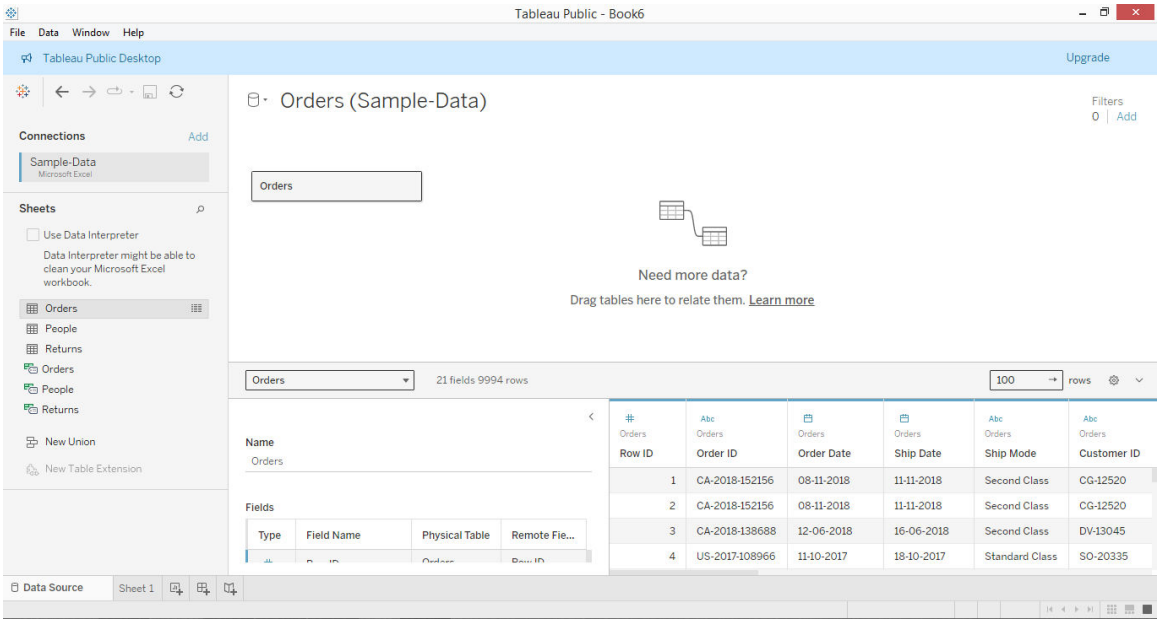
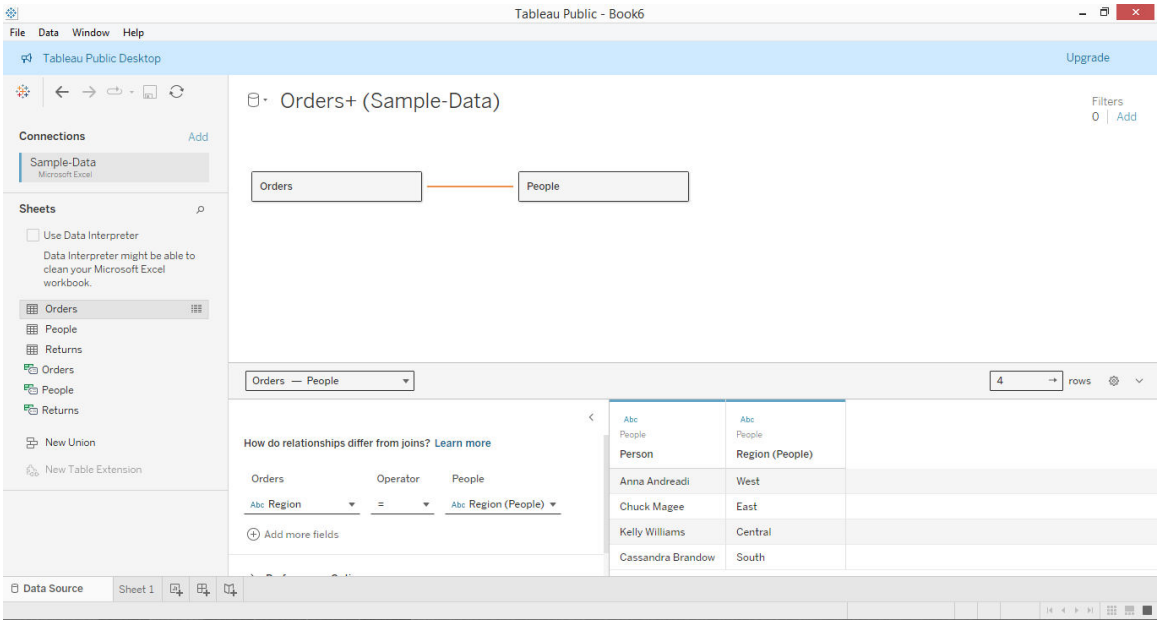
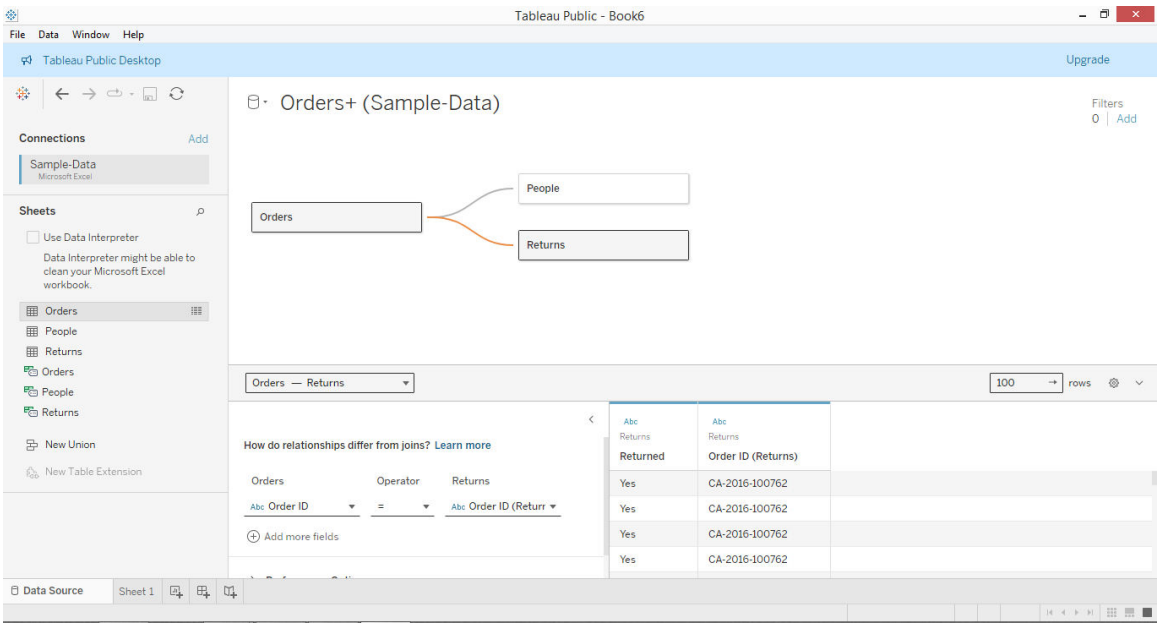
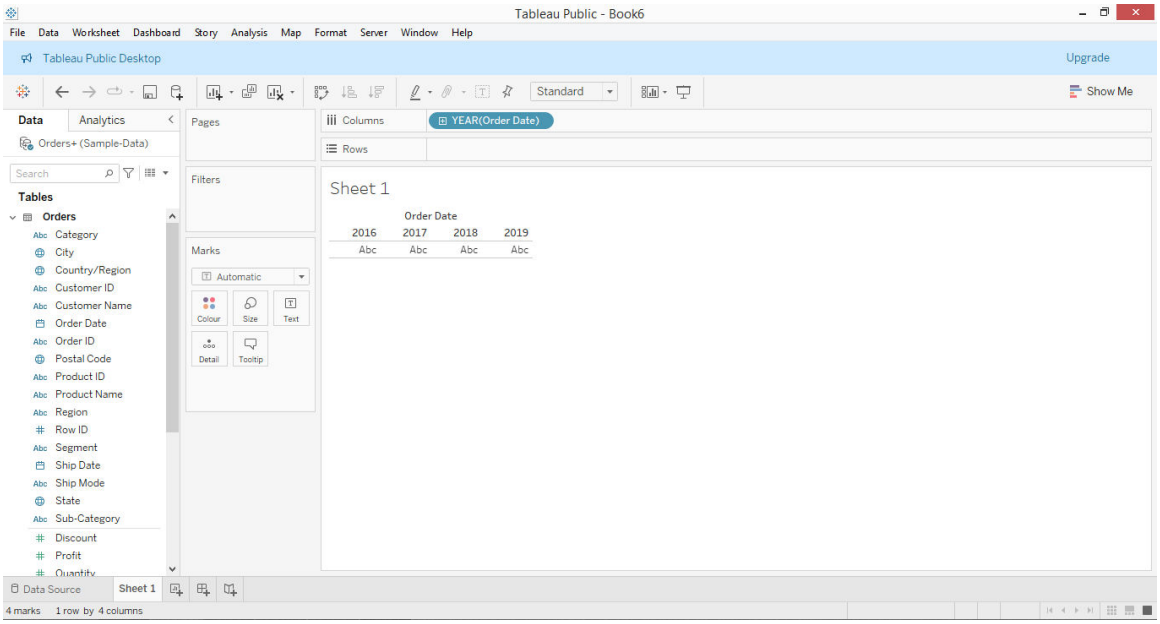


Tableau Public - Book6
File Data Window Help
Tableau Public Desktop
Upgrade
Connections
Add
Sample-Data
Microsoft Excel
Sheets
Use Data Interpreter
Data Interpreter might be able to clean your Microsoft Excel workbook.
Orders
People
Returns
Orders
People
Returns
New Union
New Table Extension
Orders (Sample-Data)
Filters
0 | Add
Orders
Need more data?
Drag tables here to relate them. Learn more
Orders
21 fields 9994 rows
100 rows
Name
Orders
Fields
Type
Field Name
Physical Table
Remote Fie...
Orders
Row ID
Order ID
Order Date
Ship Date
Ship Mode
Customer ID
1 CA-2018-152156 08-11-2018 11-11-2018 Second Class CG-12520
2 CA-2018-152156 08-11-2018 11-11-2018 Second Class CG-12520
3 CA-2018-138688 12-06-2018 16-06-2018 Second Class DV-13045
4 US-2017-108966 11-10-2017 18-10-2017 Standard Class SO-20335
Data Source
Sheet 1

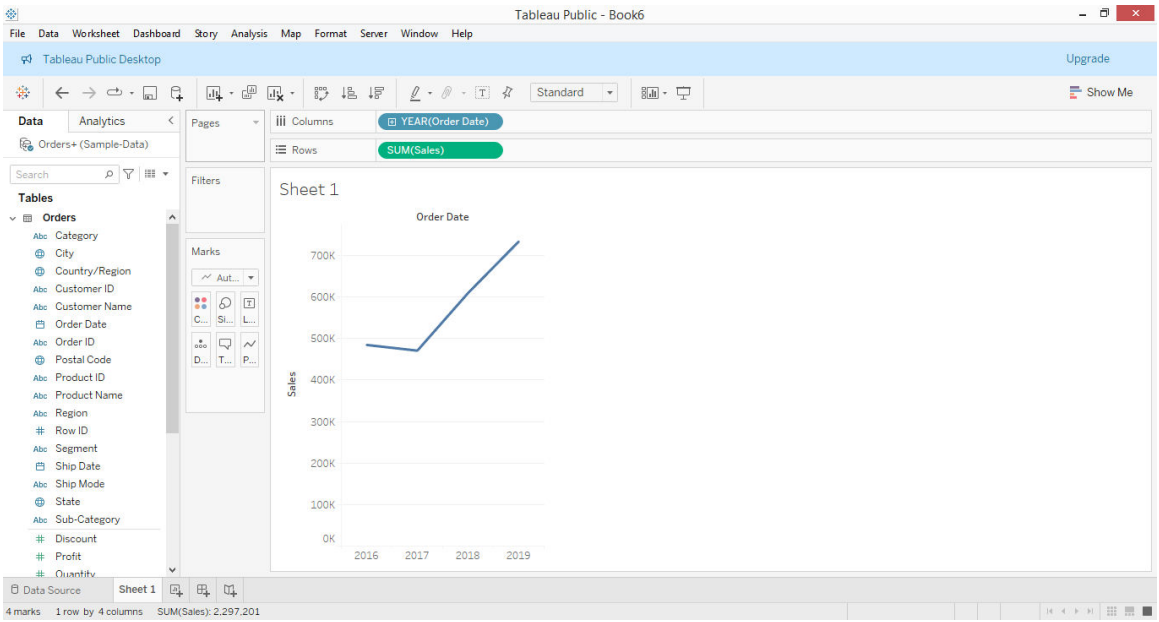


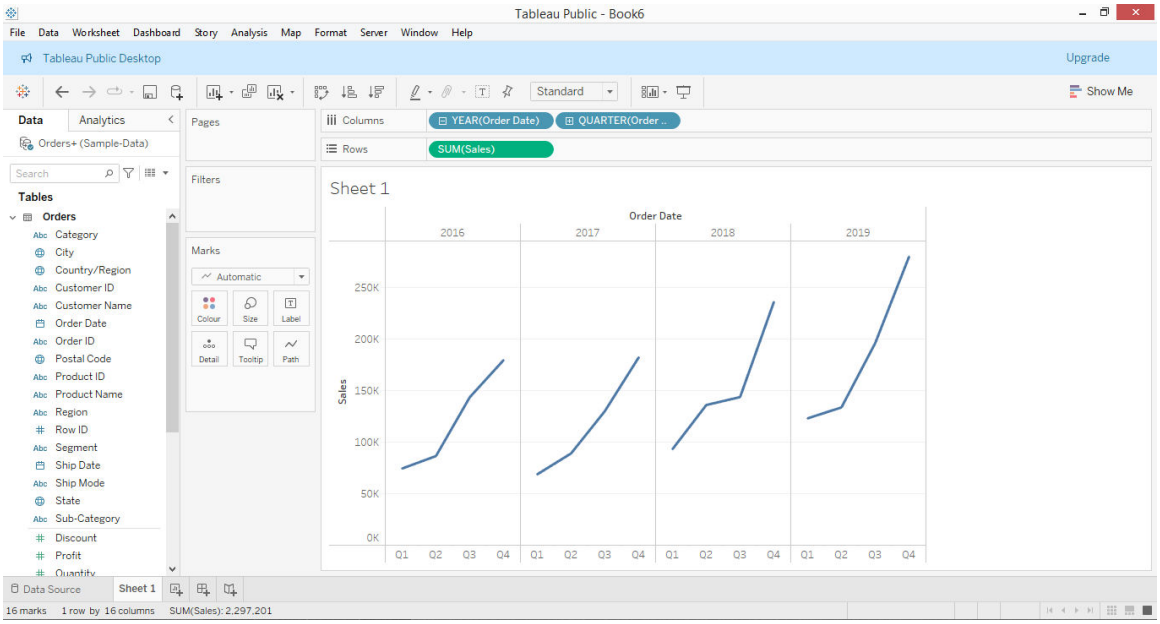


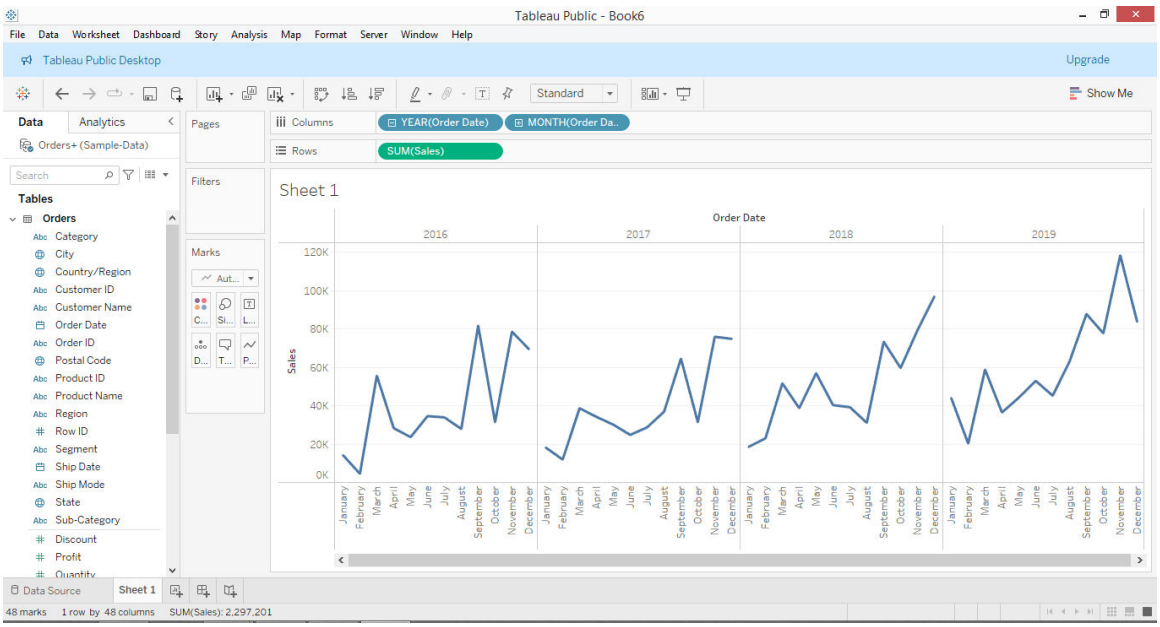
Drag Date Field: Drag the date field representing the continuous years (e.g., order date) to the Columns shelf.



Drag Sales Field: Drag the sales field to the Rows shelf. Tableau will automatically aggregate the sales data.

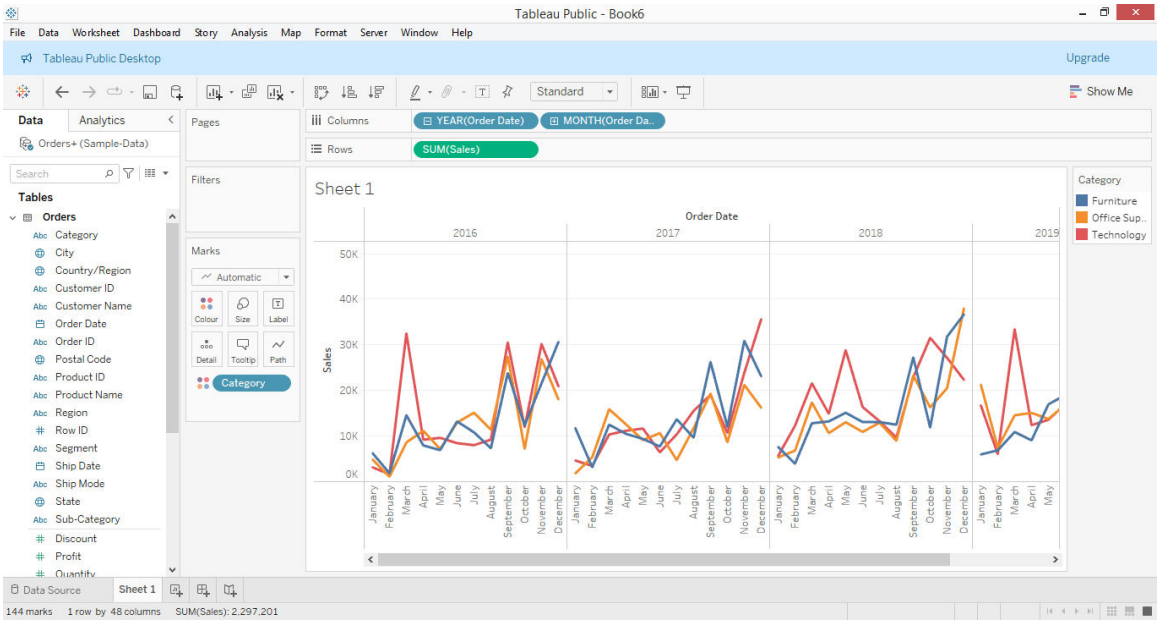


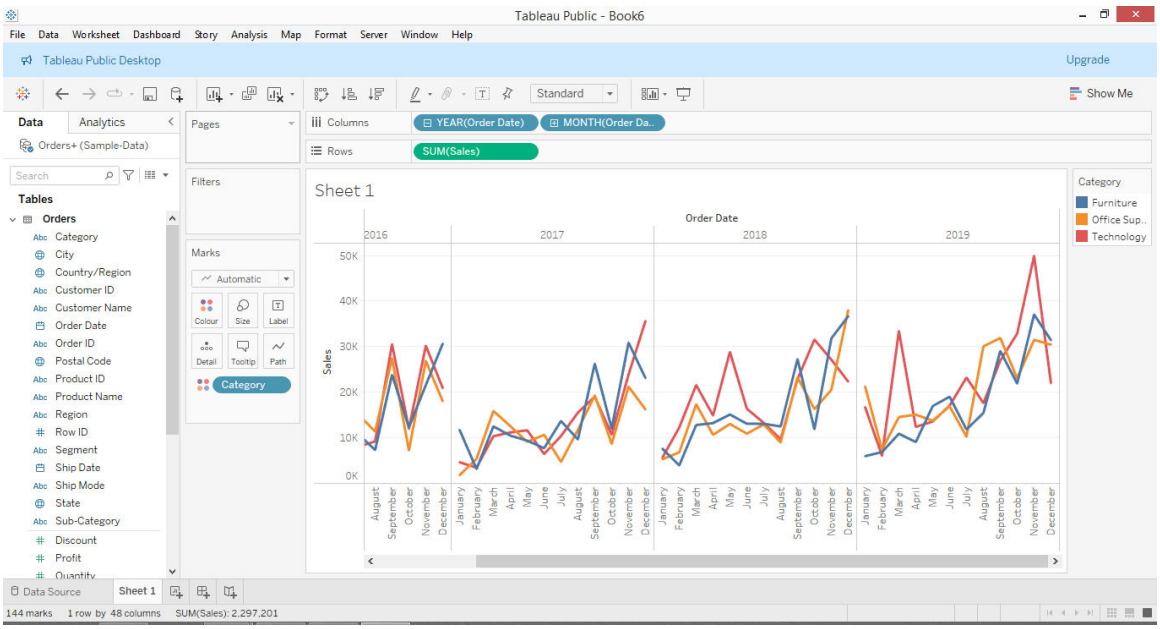




b. Add the category field to the color mark.

Add Category Field to Color: Drag the category field to the Color mark. This will differentiate the lines on the chart by category.

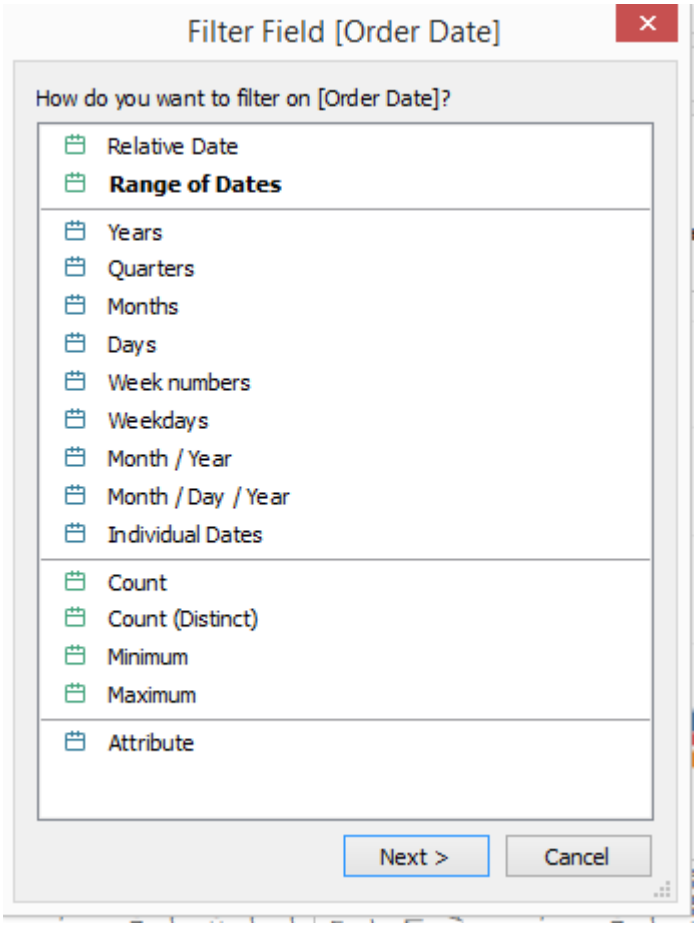


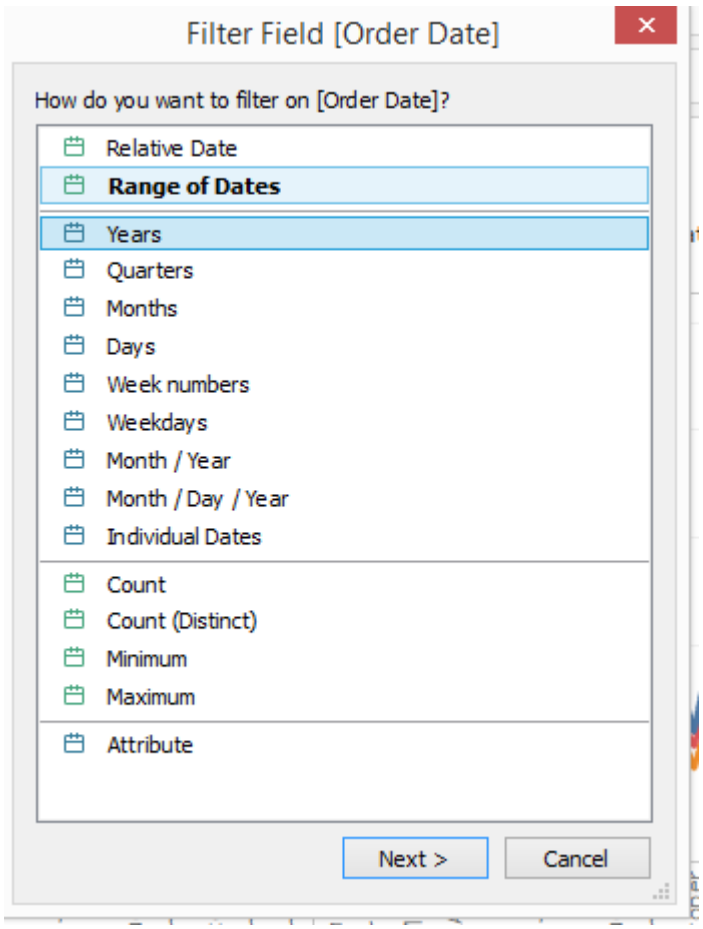


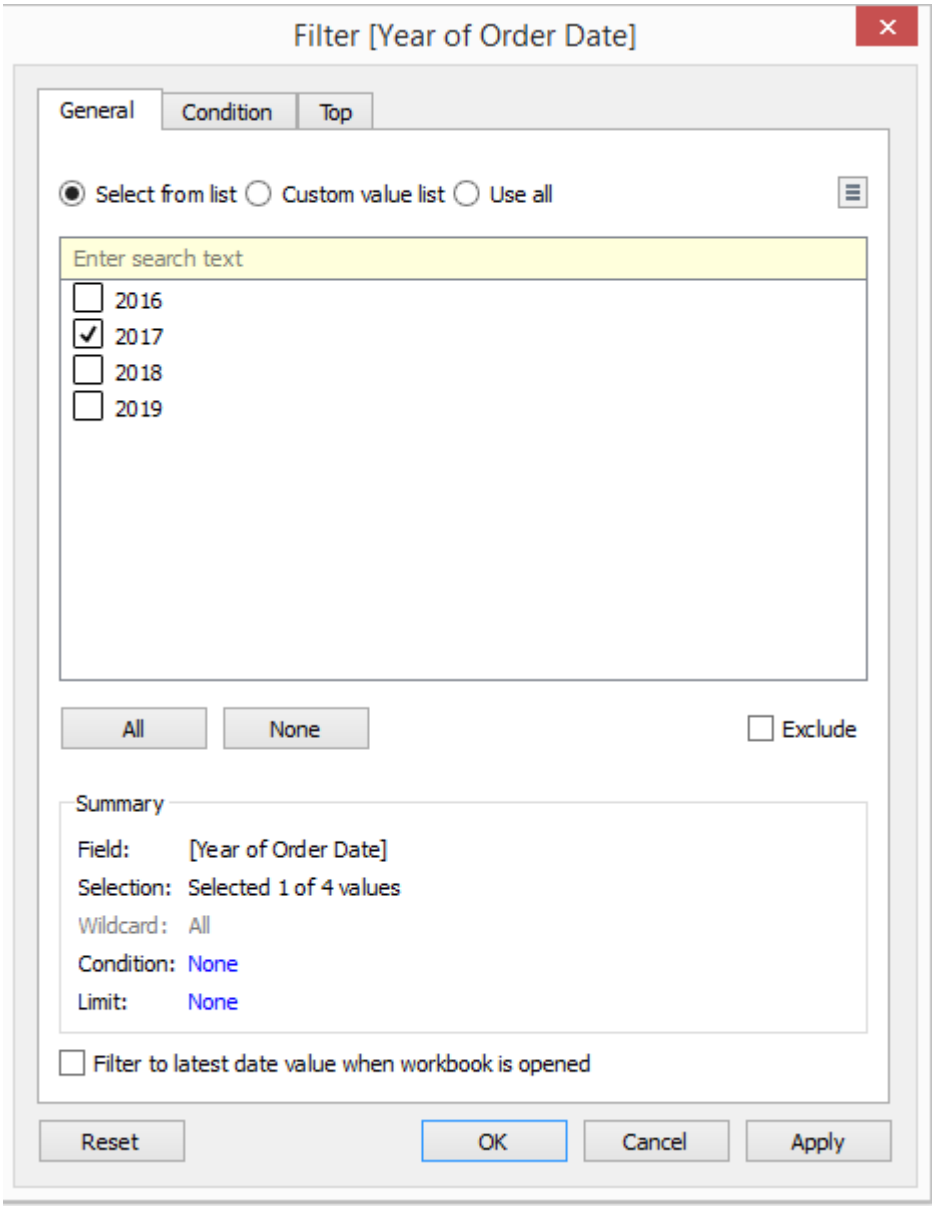
c. Which category has the highest sum of sales in 2017?

After creating the line chart, to identify which category has the highest sum of sales in 2017, you can do the following:

Filter Data: Add a filter to the view to only include data for the year 2017.


Filter Field [Order Date]
How do you want to filter on [Order Date]?
Relative Date
Range of Dates
Years
Quarters
Months
Days
Week numbers
Weekdays
Month / Year
Month / Day / Year
Individual Dates
Count
Count (Distinct)
Minimum
Maximum
Attribute
Next >
Cancel


Filter Field [Order Date]
How do you want to filter on [Order Date]?
Relative Date
Range of Dates
Years
Quarters
Months
Days
Week numbers
Weekdays
Month / Year
Month / Day / Year
Individual Dates
Count
Count (Distinct)
Minimum
Maximum
Attribute
Next >
Cancel


Filter [Year of Order Date]
General
Condition
Top
Select from list
Custom value list
Use all
Enter search text
2016
2017
2018
2019
All
None
Exclude
Summary
Field: [Year of Order Date]
Selection: Selected 1 of 4 values
Wildcard: All
Condition: None
Limit: None
Filter to latest date value when workbook is opened
Reset
OK
Cancel
Apply

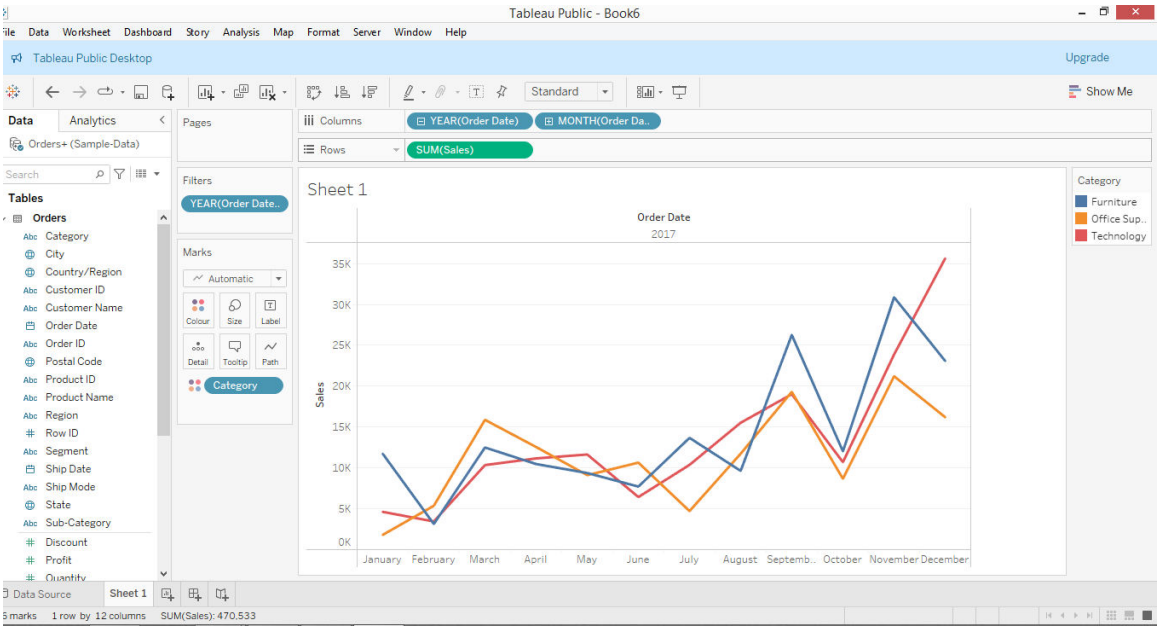
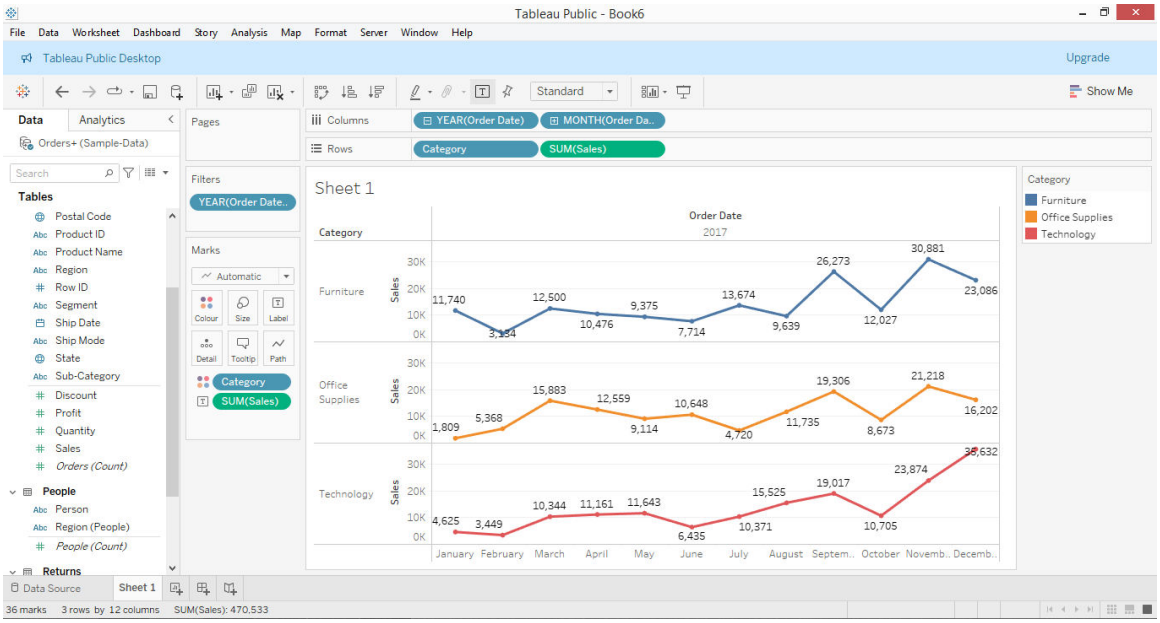
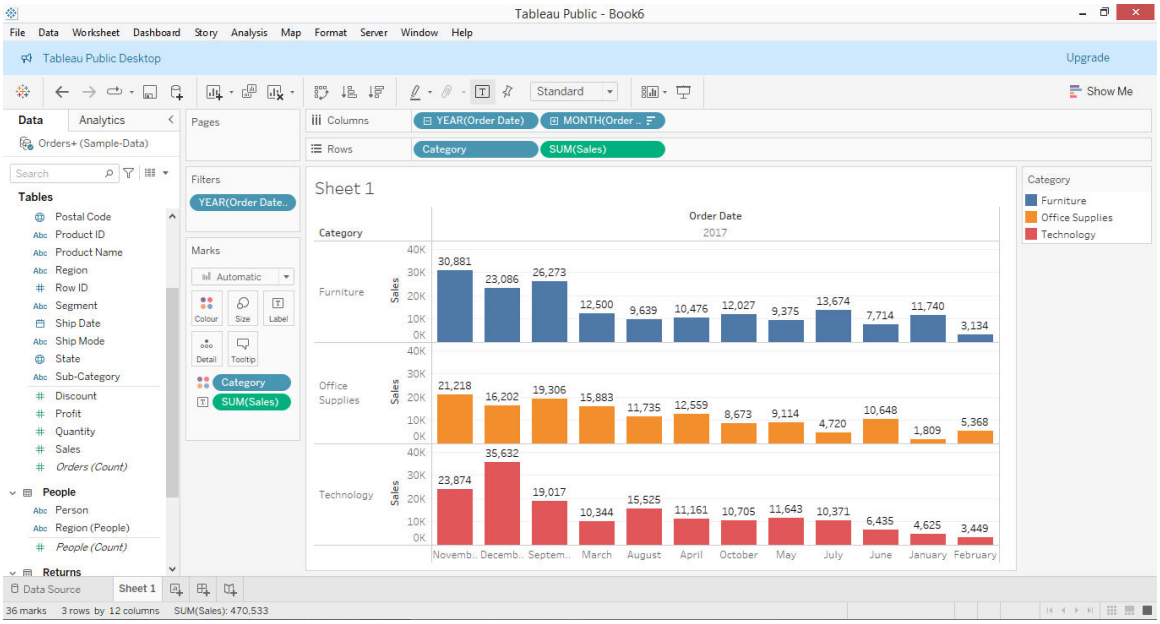


Tableau Public - Book6
Tableau Public Desktop
Upgrade
Show Me
Data
Analytics
Orders+ (Sample-Data)
Tables
Orders
Category
City
Country/Region
Customer ID
Customer Name
Order Date
Order ID
Postal Code
Product ID
Product Name
Region
Row ID
Segment
Ship Date
Ship Mode
State
Sub-Category
Discount
Profit
Quantity
Pages
Filters
YEAR(Order Date..
Marks
Automatic
Colour
Size
Label
Detail
Tooltip
Path
Category
Columns
YEAR(Order Date)
MONTH(Order Da..
Rows
SUM(Sales)
Sheet 1
Order Date
2017
Sales
35K
30K
25K
20K
15K
10K
5K
0K
January
February
March
April
May
June
July
August
Septemb..
October
November
December
Category
Furniture
Office Sup..
Technology
Data Source
Sheet 1
1 row by 12 columns
SUM(Sales): 470,533

Summarize Sales by Category: Drag the category field to the Rows shelf and the sales field to the Text mark to display the sum of sales for each category.



Sort Data: Sort the categories by the sum of sales in descending order to easily identify which category has the highest sum of sales in 2017.



Put Category and Order Date (in Year) in Columns and Sum of Sales in Rows to find the needed category.Use Annotation of the point to justify it.

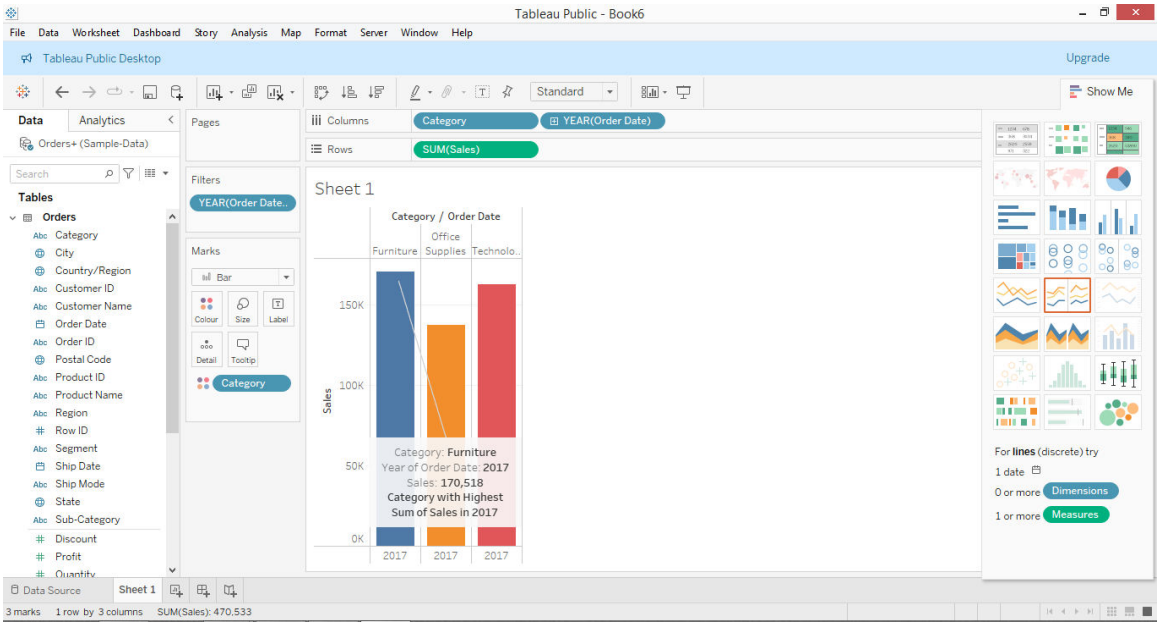


Tableau Public - Book6
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Tableau Public Desktop
Upgrade
Standard
Show Me
Data
Analytics
Orders+ (Sample-Data)
Search
Tables
Orders
Abc Category
City
Country/Region
Abc Customer ID
Abc Customer Name
Order Date
Abc Order ID
Postal Code
Abc Product ID
Abc Product Name
Abc Region
Row ID
Abc Segment
Ship Date
Abc Ship Mode
State
Abc Sub-Category
Discount
Profit
Quantity
Pages
Filters
YEAR(Order Date..
Marks
Bar
Colour
Size
Label
Detail
Tooltip
Category
Columns
Category
YEAR(Order Date)
Rows
SUM(Sales)
Sheet 1
Category / Order Date
Furniture
Office Supplies
Technolo..
150K
100K
50K
0K
Sales
Category: Furniture
Year of Order Date: 2017
Sales: 170,518
Category with Highest Sum of Sales in 2017
2017
2017
2017
For lines (discrete) try
1 date
0 or more
Dimensions
1 or more
Measures
Data Source
Sheet 1
3 marks
1 row by 3 columns
SUM(Sales): 470,533