Session 6



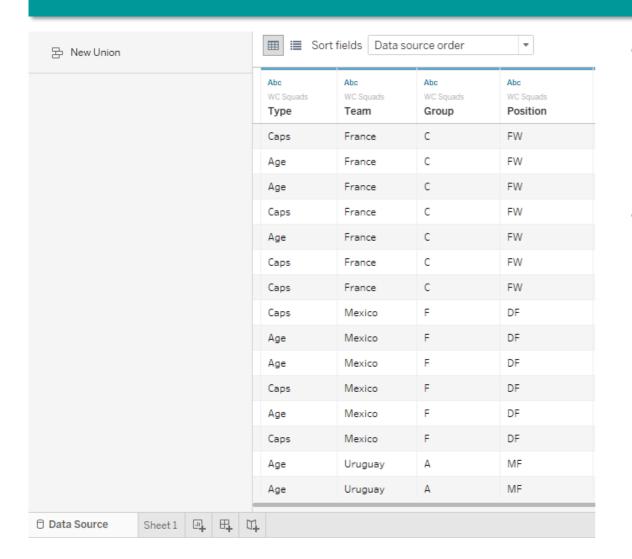
Tableau

Data Science Program





Data Visualization

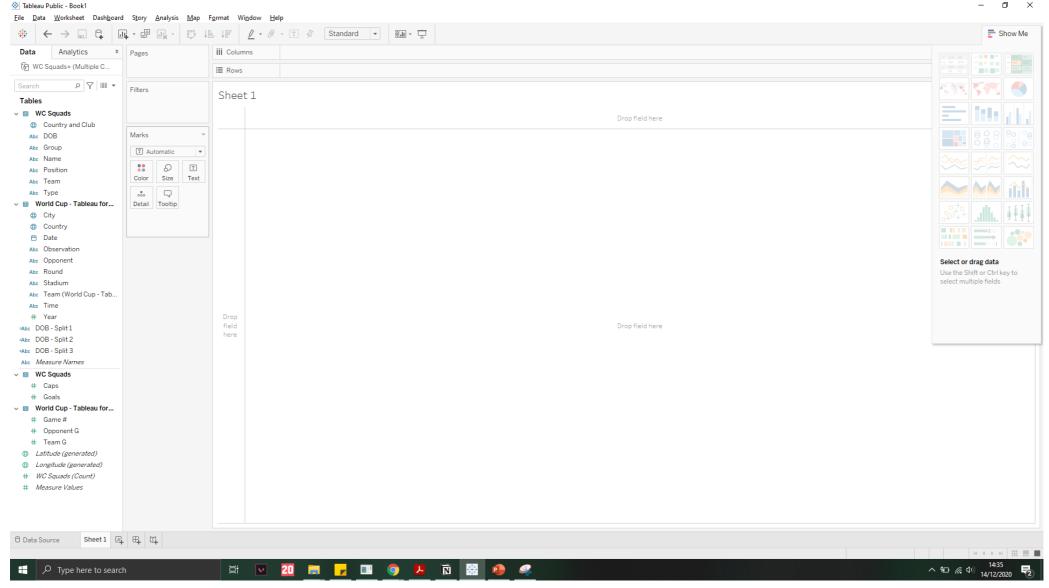


 As soon as data imported, select worhksheet to create data visualization

 You can add the sheet like an excel sheet, can be change (rename)







• There is worksheets interfaces in generally.





Tableau data type term

Dimensions

Abc

A Dimension is a field that is an independent variable.

A dimension is usually text

Measures



A Measure is a field that is a Dependent Variable and its value is a function of one or more Dimensions.

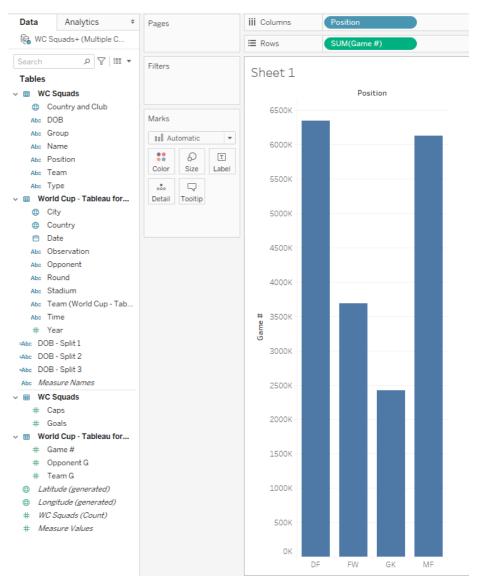
A measure is usually a number





Bar Graph

- Drag the position into columns and Game# into the rows
- The bar graph would be created automatically. If it is not, go to the Marks and select the Bar graph





Line Graph

20 marks 1 row by 1 column SUM(Goals): 208,474



H ← → H | | | | |

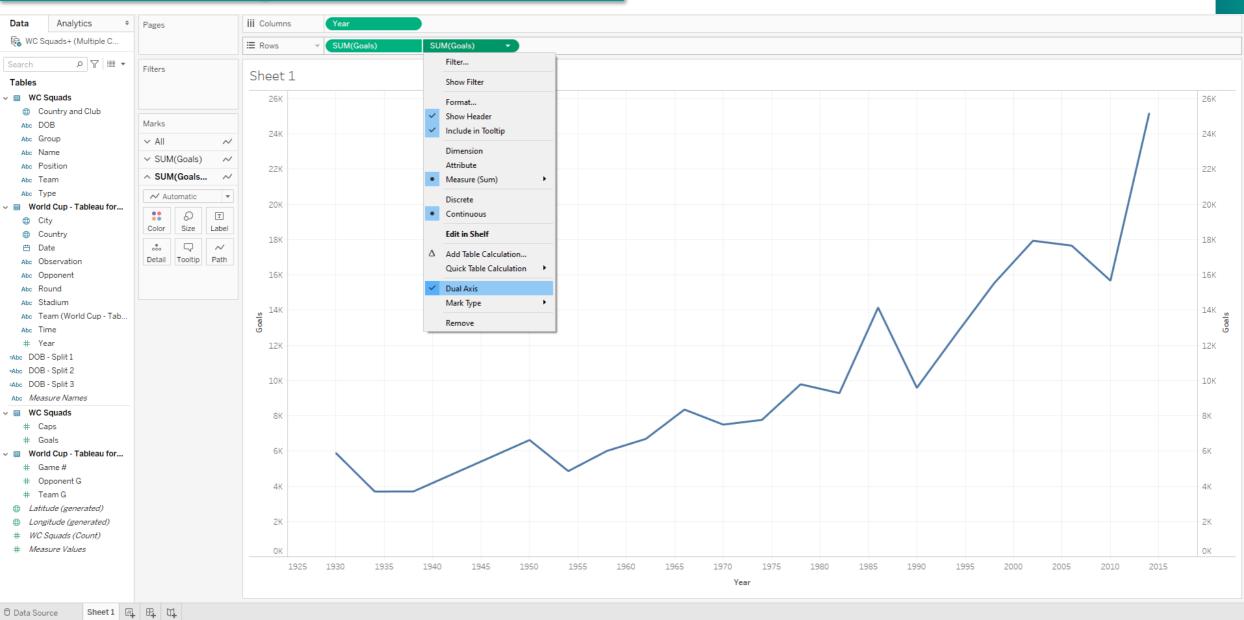


Dual Axis Graph

40 marks 1 row by 1 column SUM(Goals): 208,474

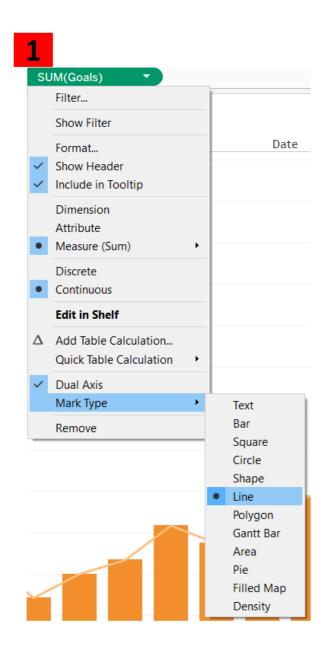


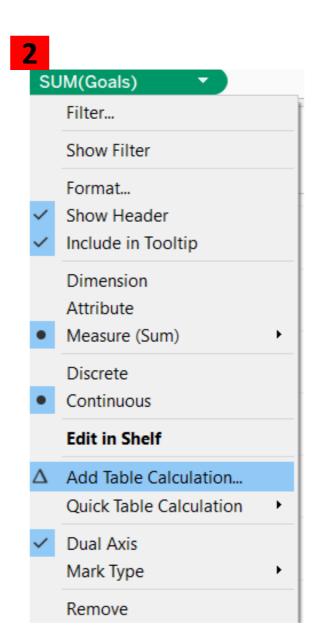
H 4 → H | ## ## |

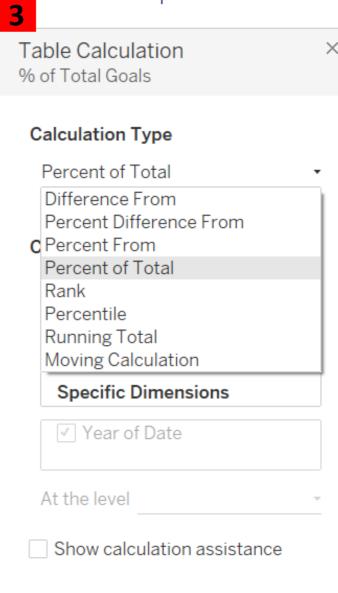


Dual Axis Graph







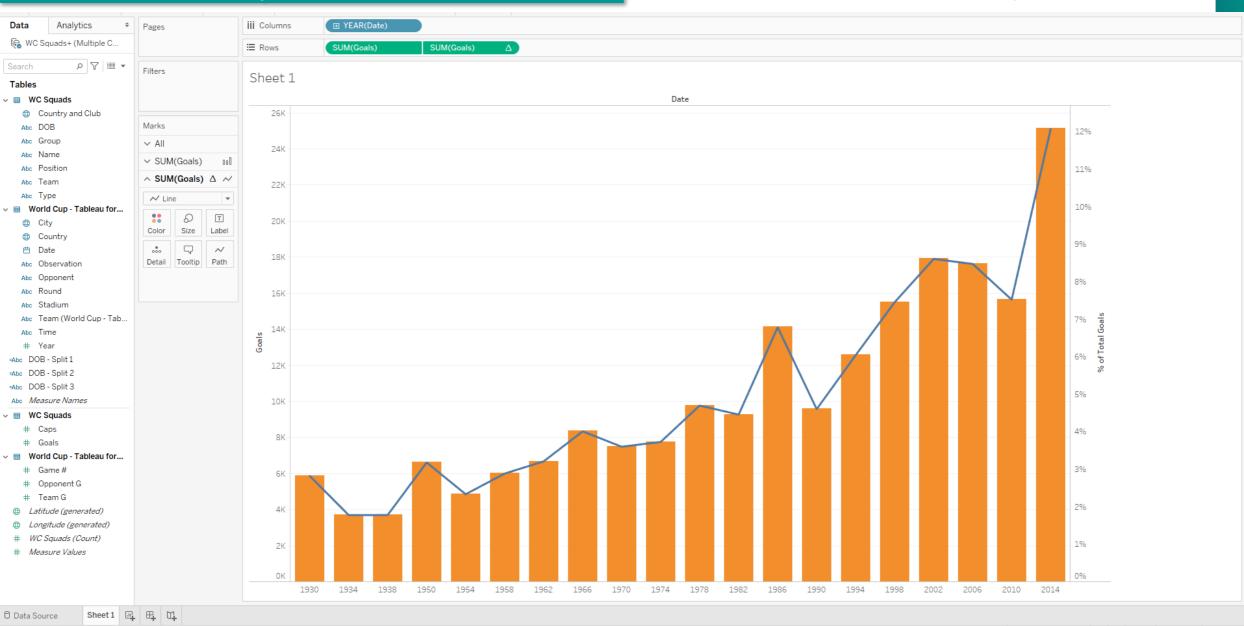




Dual Axis Graph

40 marks 1 row by 20 columns % of Total SUM(Goals): 100,00%

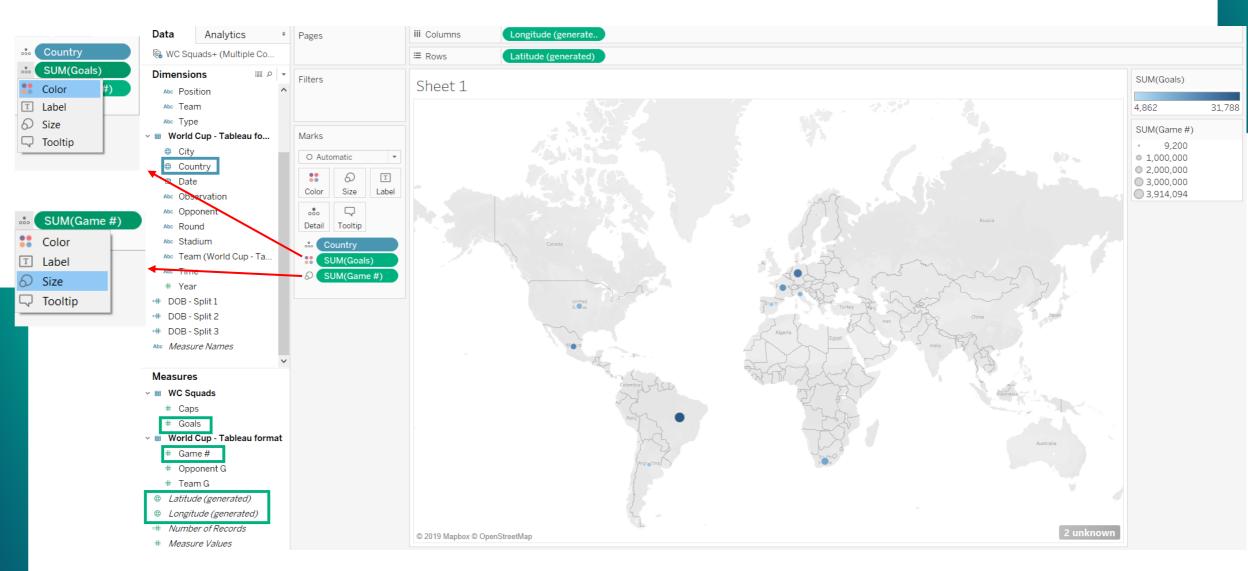




Geographical Graph

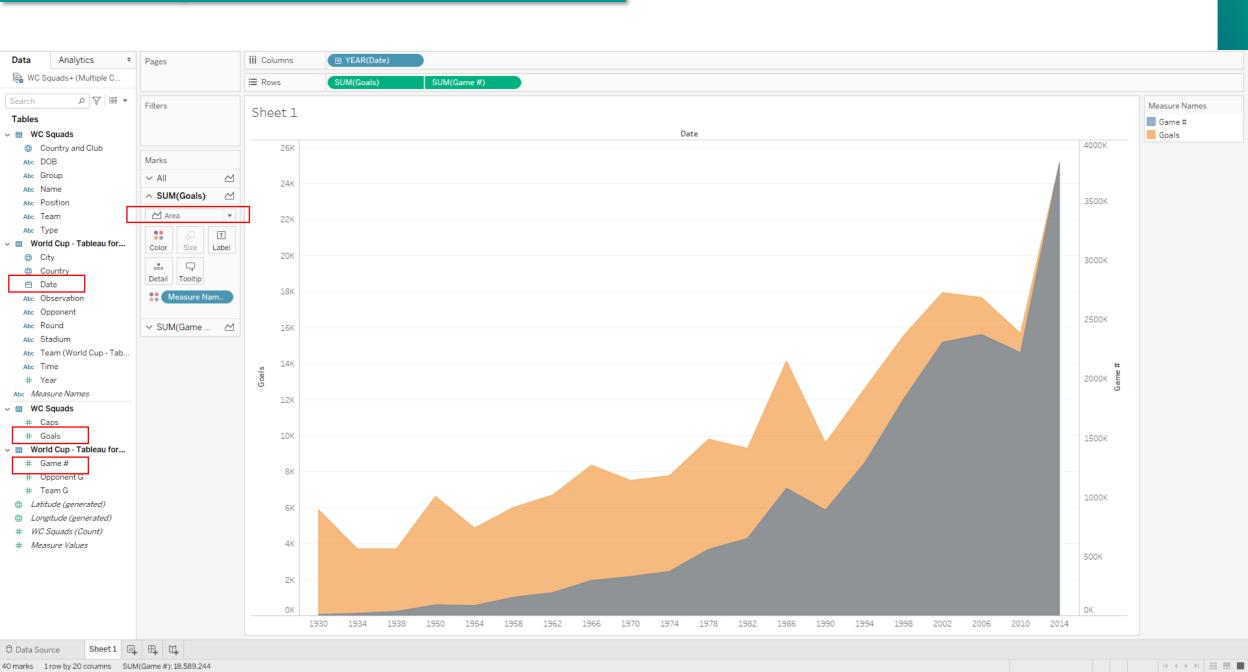


• Put the dimension and measurement in the marks card to mark all the point in the map.



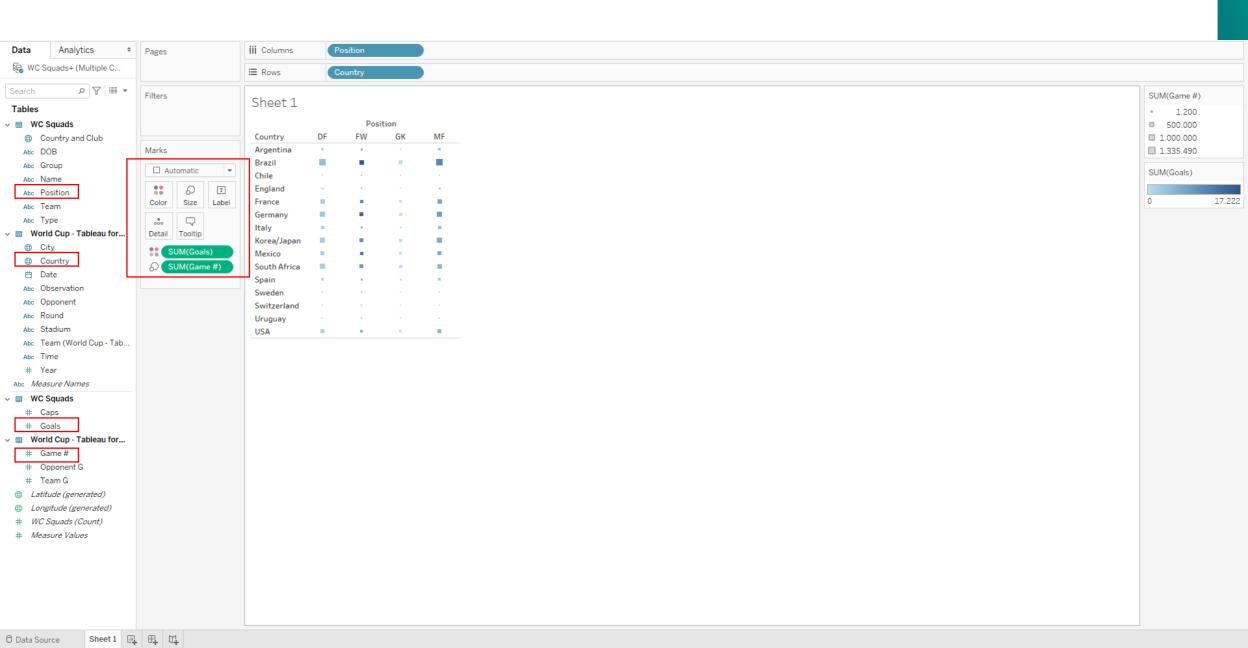
Area Graph – Dual Axis





Heat Map

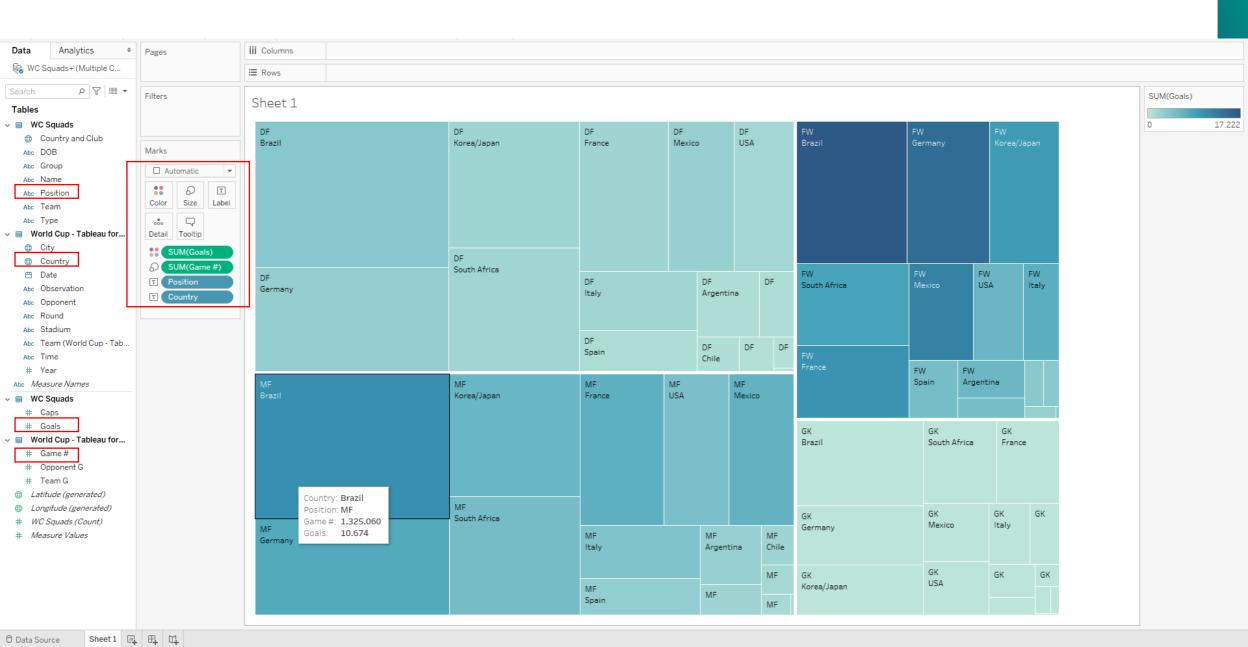




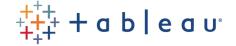
60 marks 15 rows by 4 columns SUM(Goals): 208,474

Tree Map



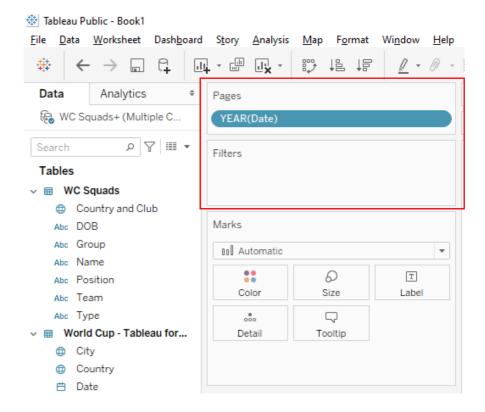


60 marks 1 row by 1 column SUM(Goals): 208,474



Worksheet – Pages & Filter

- Pages: Tableau allows you to analyze your data with the Pages shelf. Sometimes you may want to analyze your data based on the individual values contained within a field. This type of analysis may help you determine whether you're doing better over time.
- Filter: The filters can be applied in a worksheet to restrict the number of records present in a dataset. There are various way to filtering the data in the worksheets, depend on the user intention

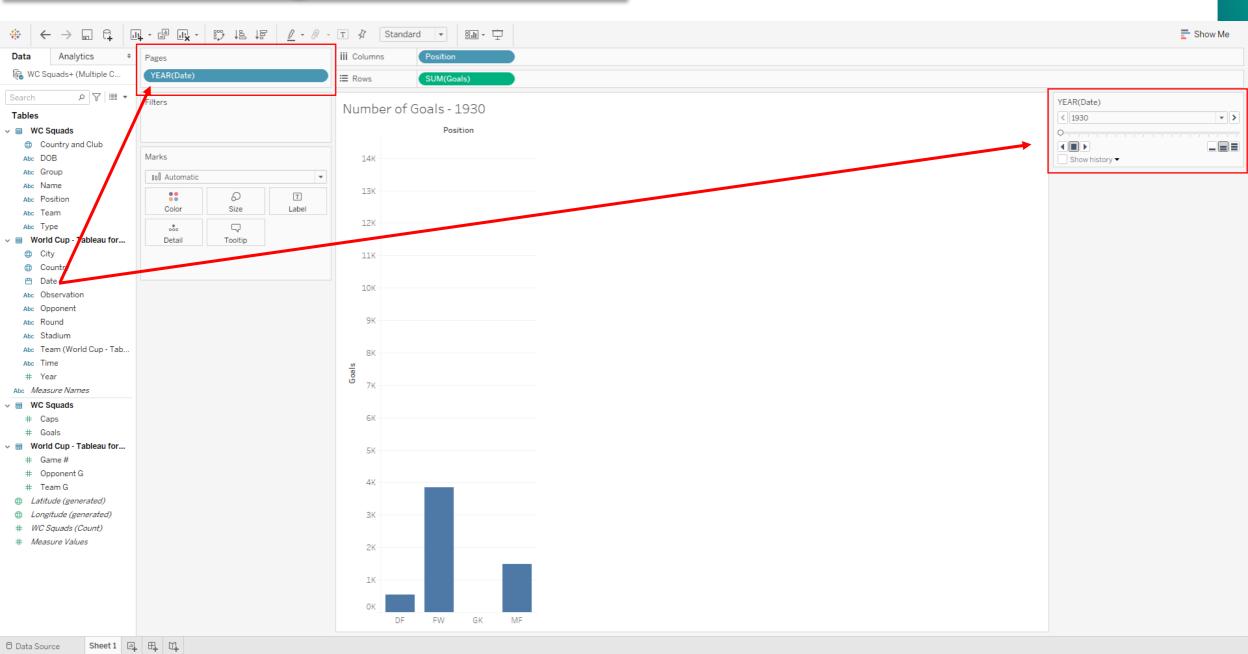




Work Sheet Pages

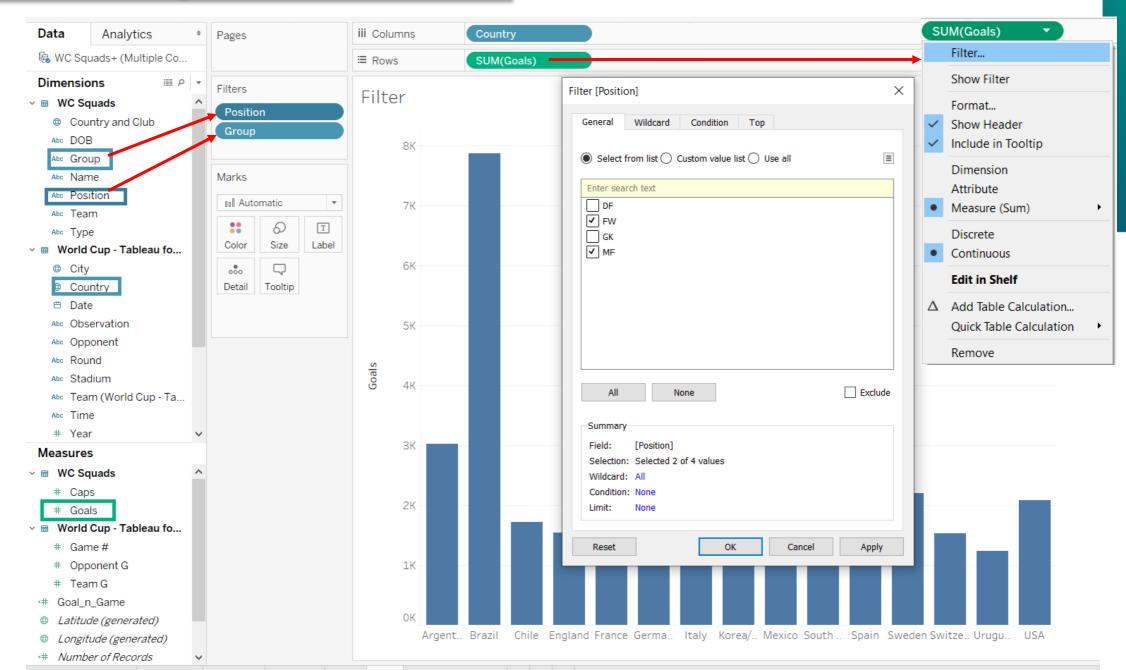
4 marks 1 row by 4 columns SUM(Goals): 5,884





Work Sheet Pages

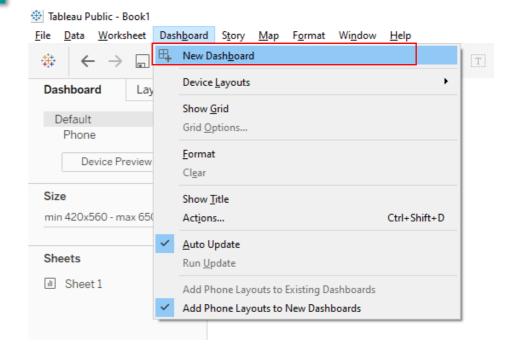






Dashboard

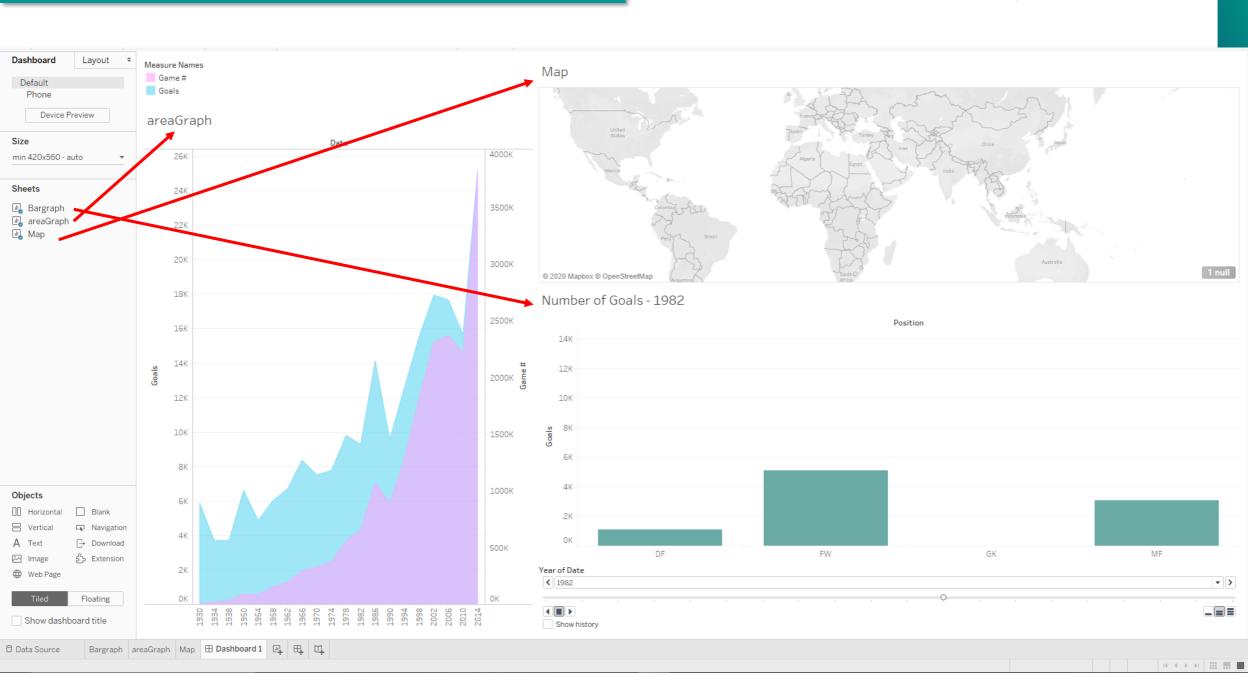
- A dashboard is a consolidated display of many worksheets and related information in a single place. It is used to compare and monitor a variety of data simultaneously.
- Each view you add to the dashboard is connected to its corresponding worksheet.
 So when you modify the worksheet, the dashboard is updated and when you modify the view in the dashboard, the worksheet is updated.





Dashboard

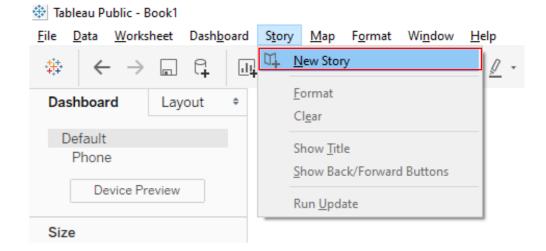






Story

- In Tableau, a story is a sequence of visualizations that work together to convey information. A Story is a sheet, so the methods to create, name, and manage worksheets and dashboards also apply to stories.
- At the same time, a story is also a collection of sheets, arranged in a sequence. Each individual sheet in a story is called a story point.







T

Use this to add more story point

All sheet and dashboard created would be listed here. Just drag and drop to create the story

Story Layout Story Test New story point Story 1. Game and goals Story 2. Goal number in Story 3. Filtered goals Blank Duplicate different position by year Line Graph Bar Graph Game # Number of game and goal Geograph Geograph 9,200 Pages Goals Filter 4,862 ■ Dashboard Test 0 10,000 0 15,000 20,000 25,000 31,788 © 2019 Mapbox © OpenStreetMap Number of Goals per country Date vs number of Games Country Date 4M 30K A Drag to add text Goals 50K ✓ Show title 10K Size Story (1016 x 964) 958 974 982 990 998 006 Line Graph Bar Graph Geograph Pages Filter Story Test 🖽 Dashboard Test 🖳 🖳 🗓 Data Source

1 - 0 - I A

Use this option to tweak the story size or adding text