I

Box plot and Time Series Analysis

Data Science Academy

Box plot

- Box plots can answer questions about your data, such as: How is my data distributed? Are there any outliers in the dataset? What are the variations in the spread of several series in the dataset ?

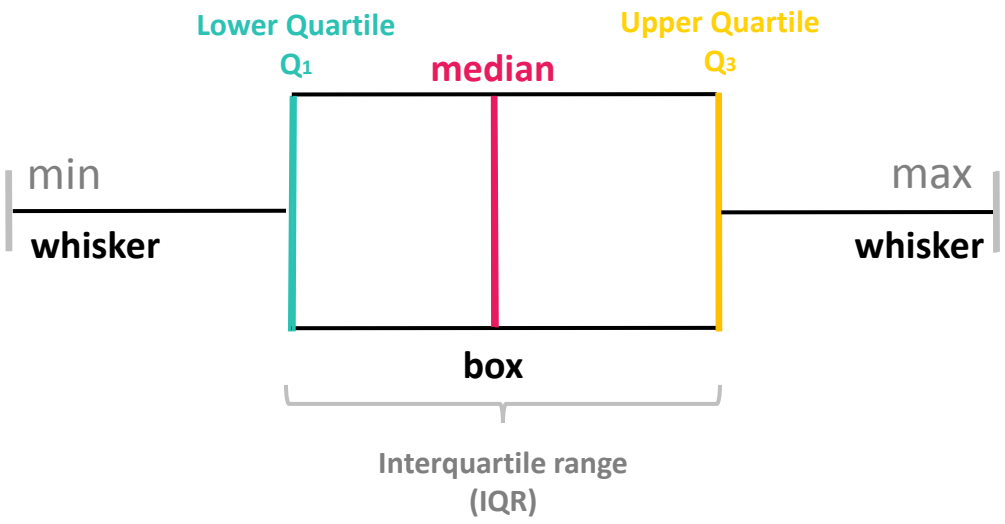
- Box and whisker plots are ideal for comparing distributions because the center, spread and overall range are immediately apparent.

Bütün hüquqlar qorunur.

Box plot

- **Boxes indicate** the middle 50 percent of the data which **is**, the middle two quartiles of the data's distribution.

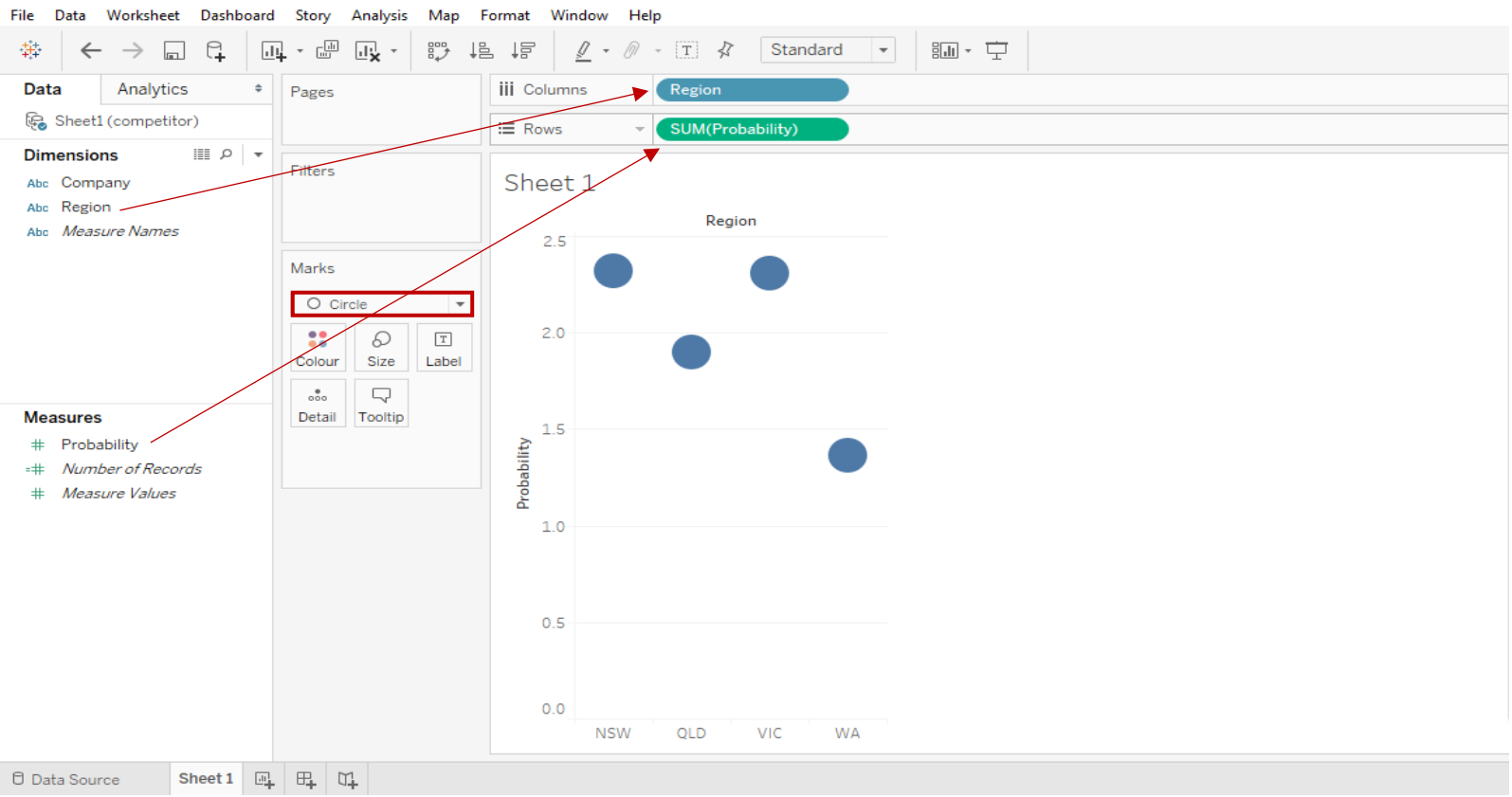
- **Box plots** are made of five key components: the **median**, the upper and lower hinges, and the upper and lower whiskers. The **median** is a standard statistical measure and is included in **Tableau's** list of formulas, it's the 50th percentile value, the middle number in a data set.



Bütün hüquqlar qorunur.

Box plot

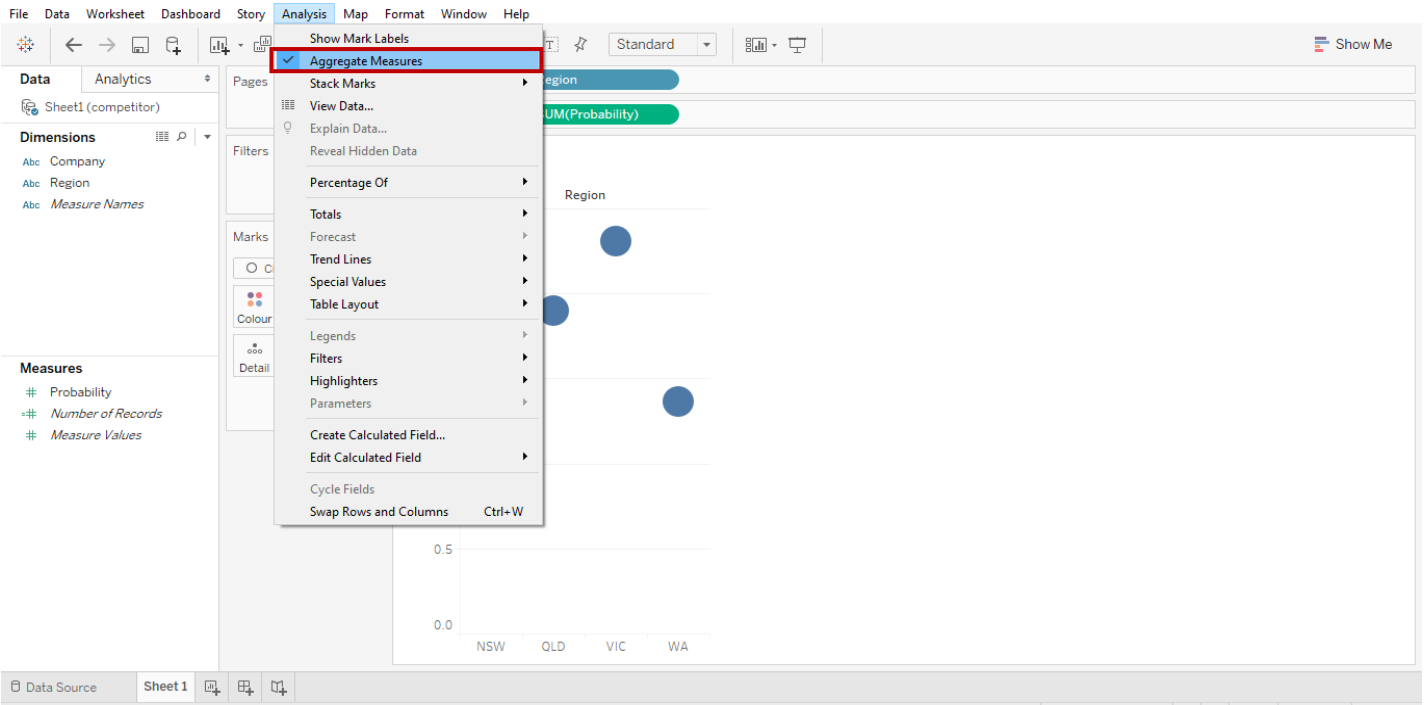
- Select Circle from Marks area
- Add region to columns
- Add Probability to rows



Bütün hüquqlar qorunur.

Box plot

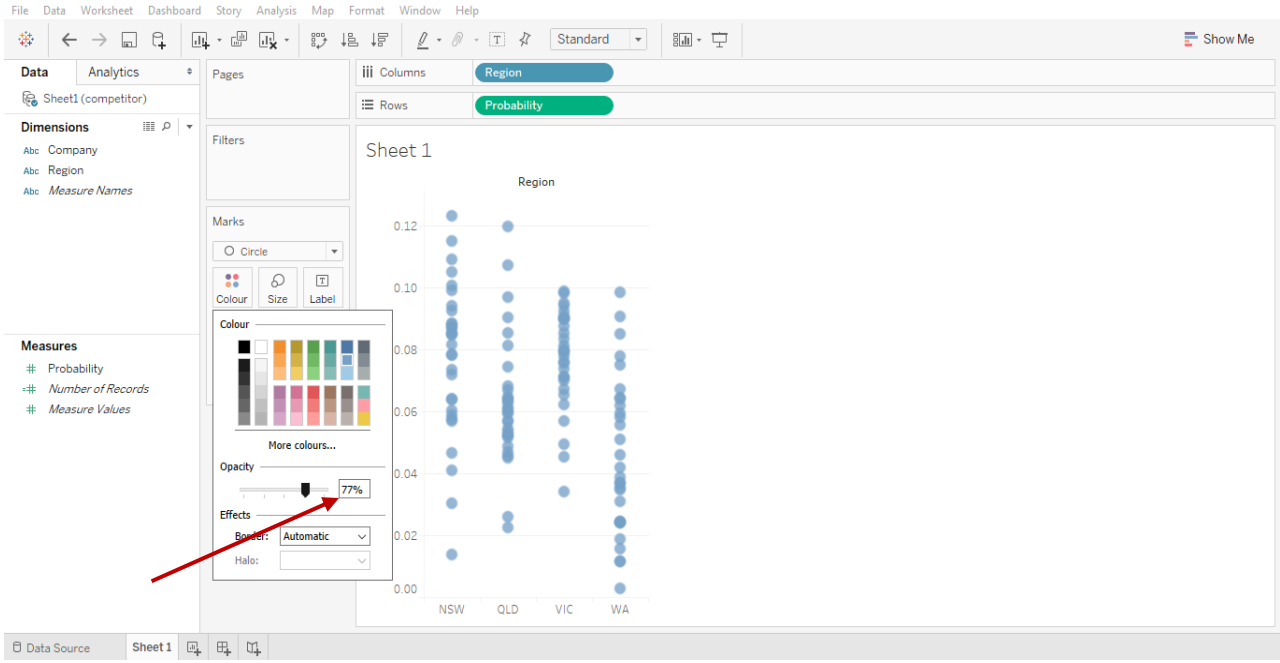
- Go to **Analysis**
- Unselect **Aggregate Measures**



Bütün hüquqlar qorunur.

Box plot

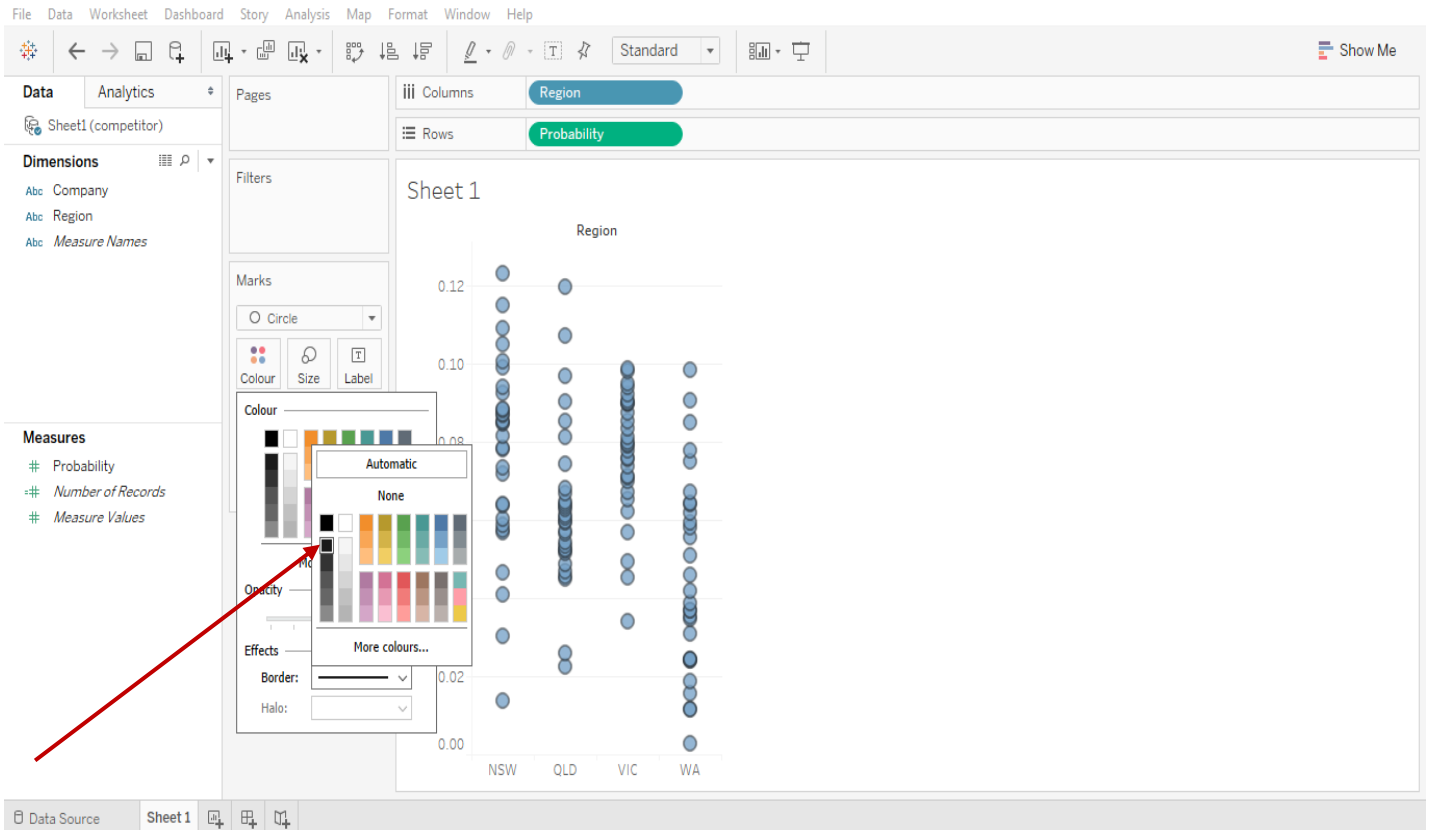
- Click on **‘Size’**
- Arrange the size of circles
- Click on **‘Color’**
- Select the highlighted color
- Finally, change the *capacity*



Bütün hüquqlar qorunur.

Box plot

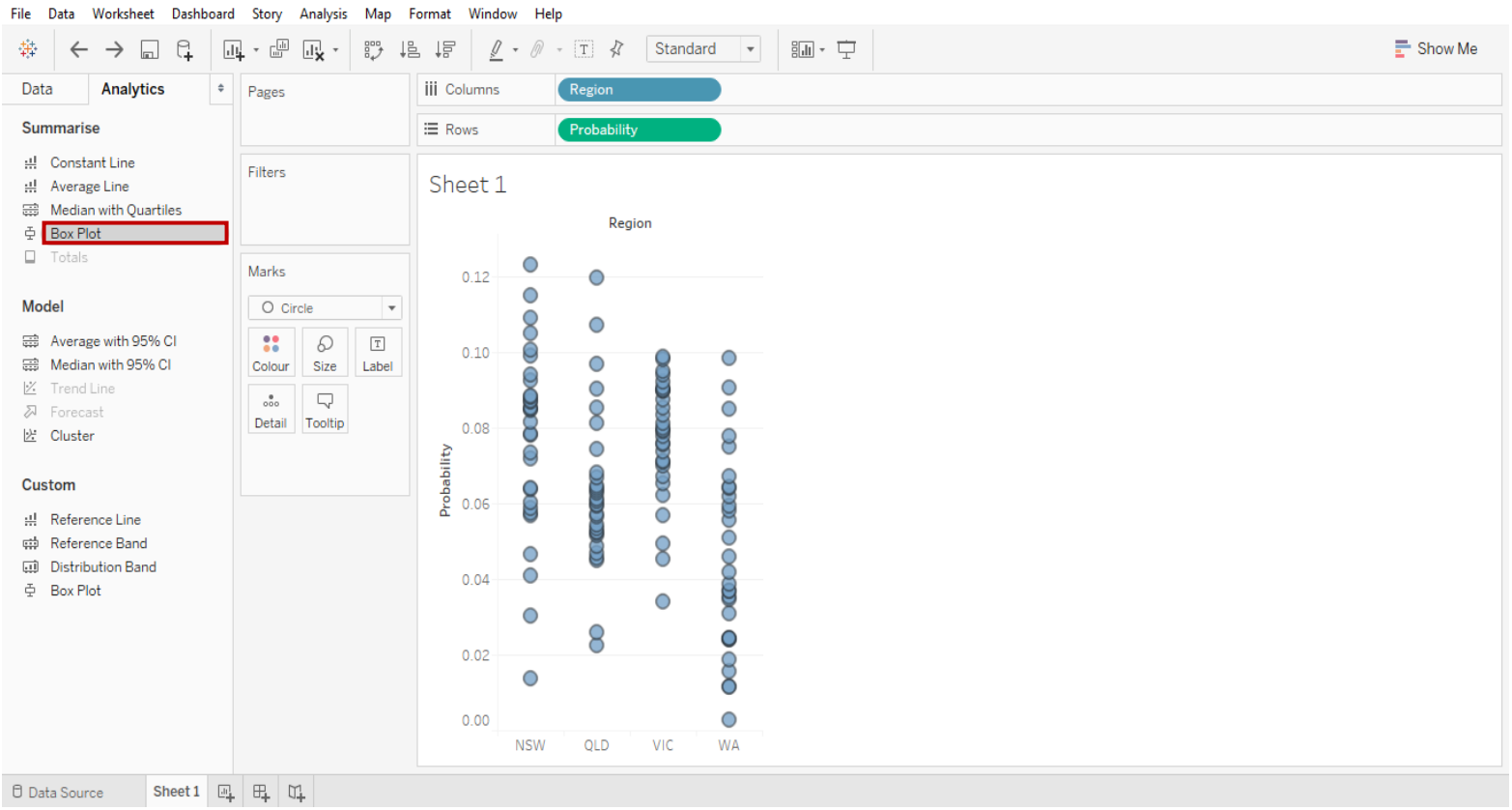
- Change the **border color** to *black*



Bütün hüquqlar qorunur.

Box plot

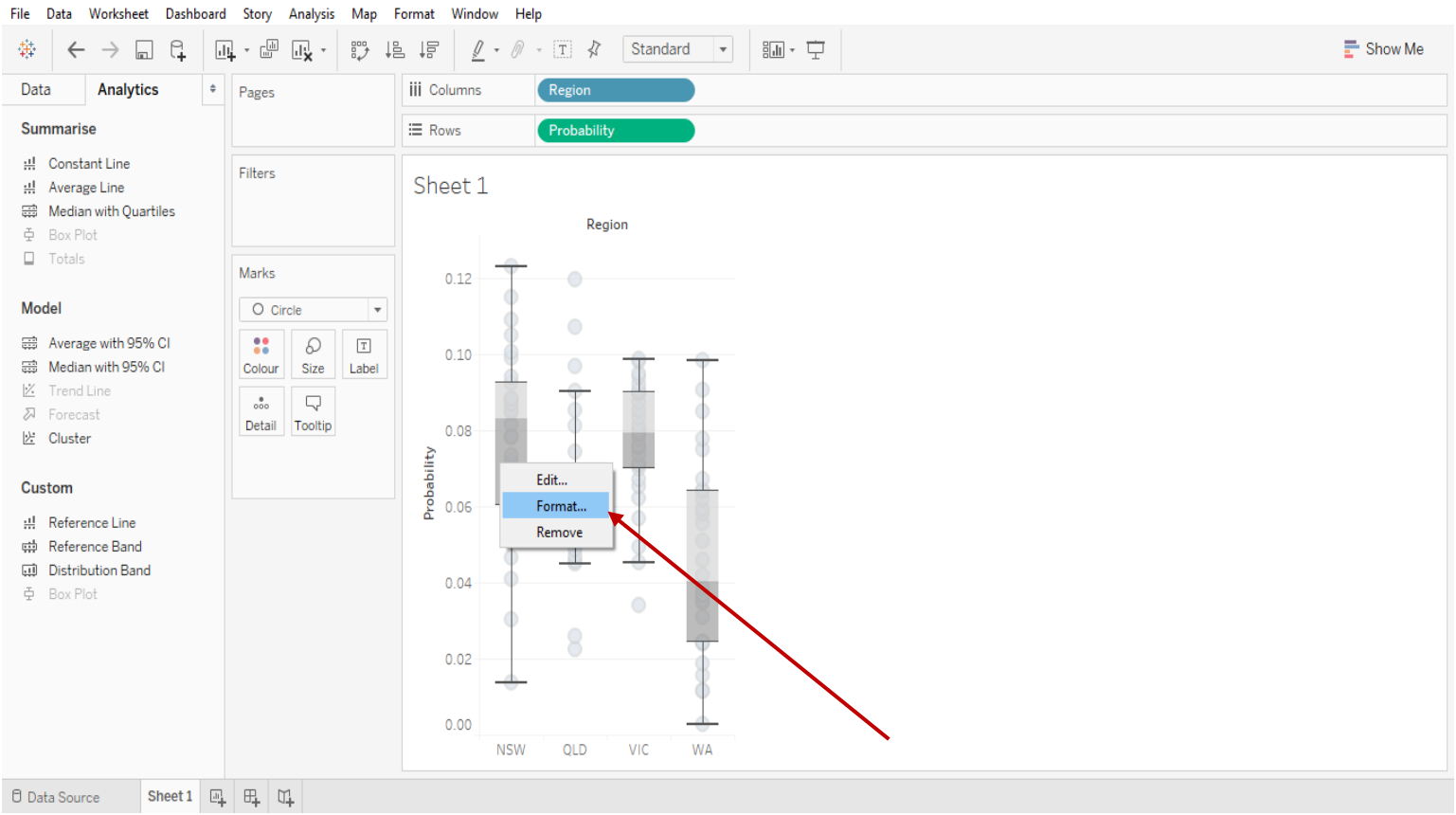
- Switch to **Analytics** pane
- Select **Box Plot**



Bütün hüquqlar qorunur.

Box plot

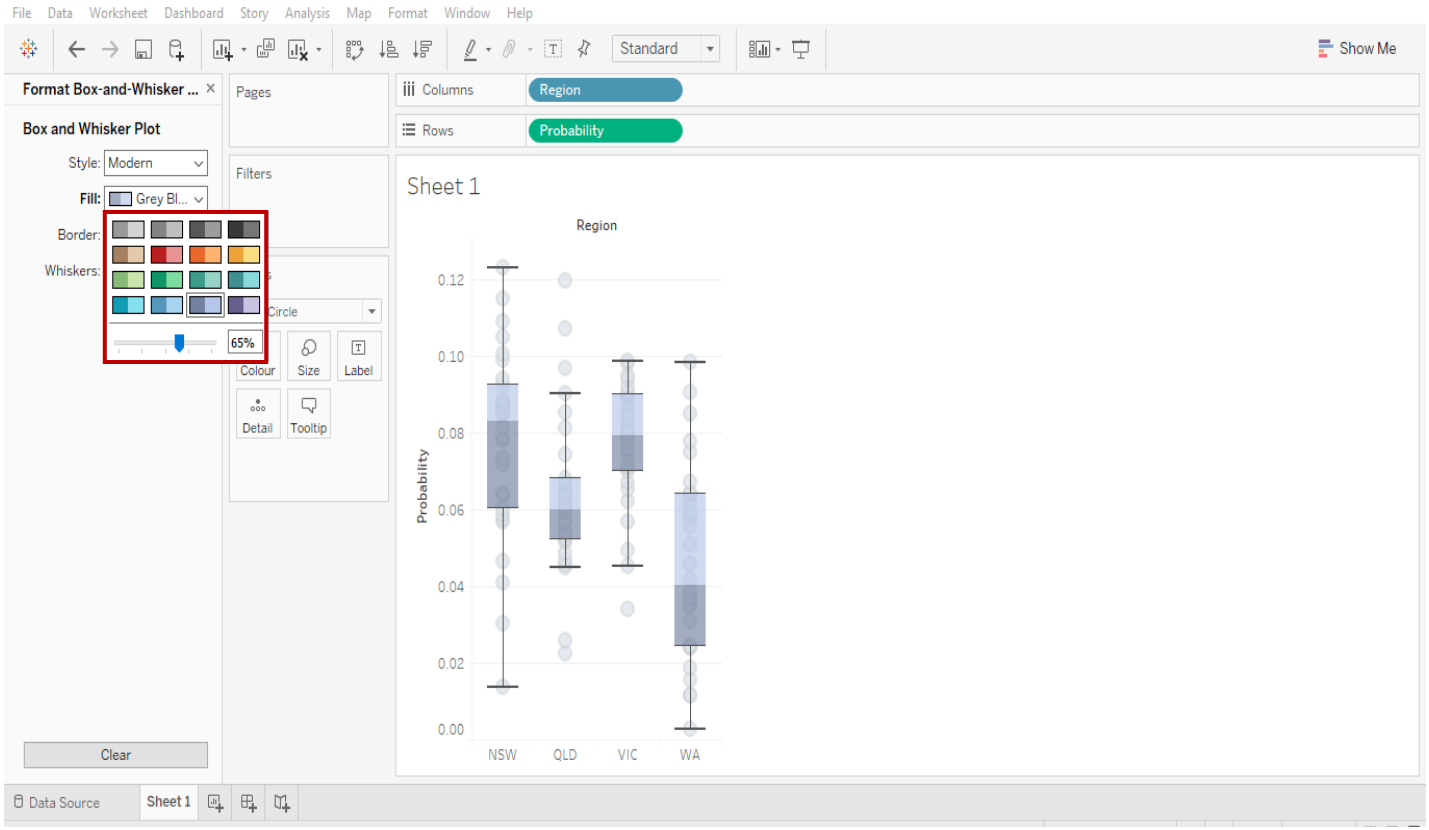
- Right click on *box plot*
- Select **Format**



Bütün hüquqlar qorunur.

Box plot

- *Color* can be chosen from **Fill section**

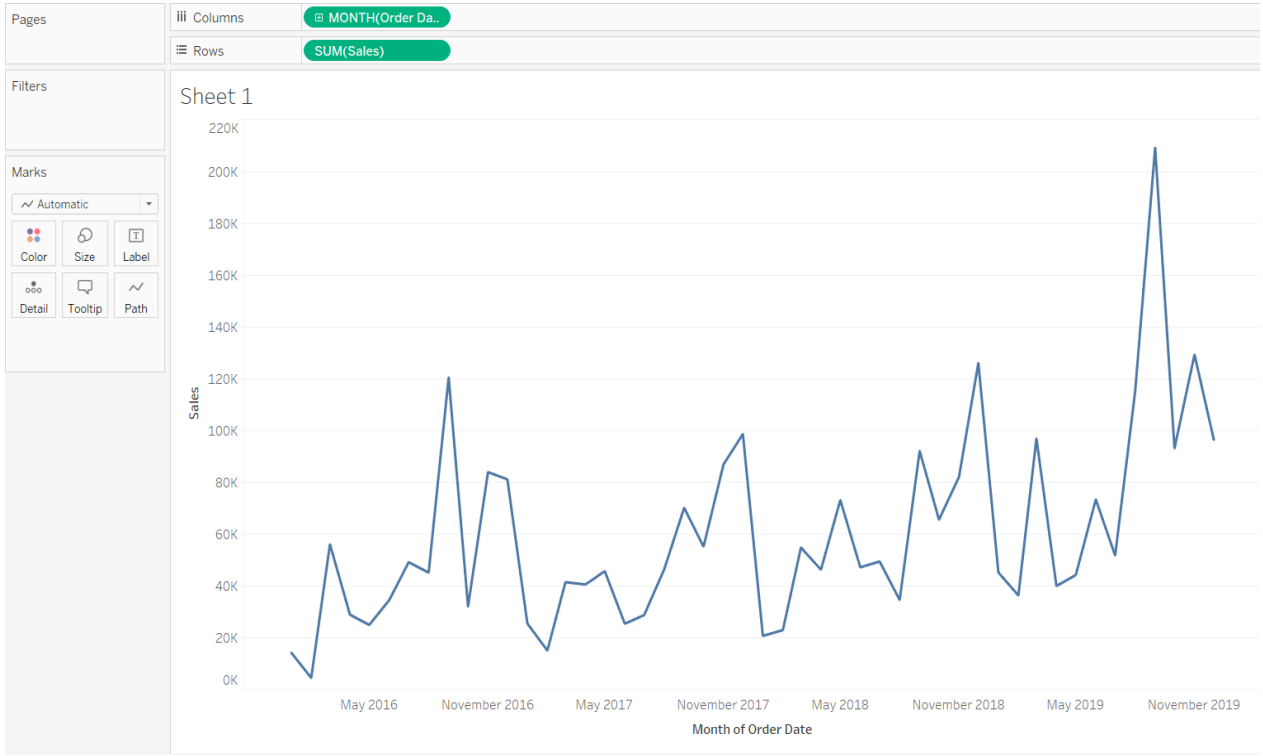


Bütün hüquqlar qorunur.

Time Series Analysis

- Time series graphs can be used to visualize trends in counts or numerical values over time.

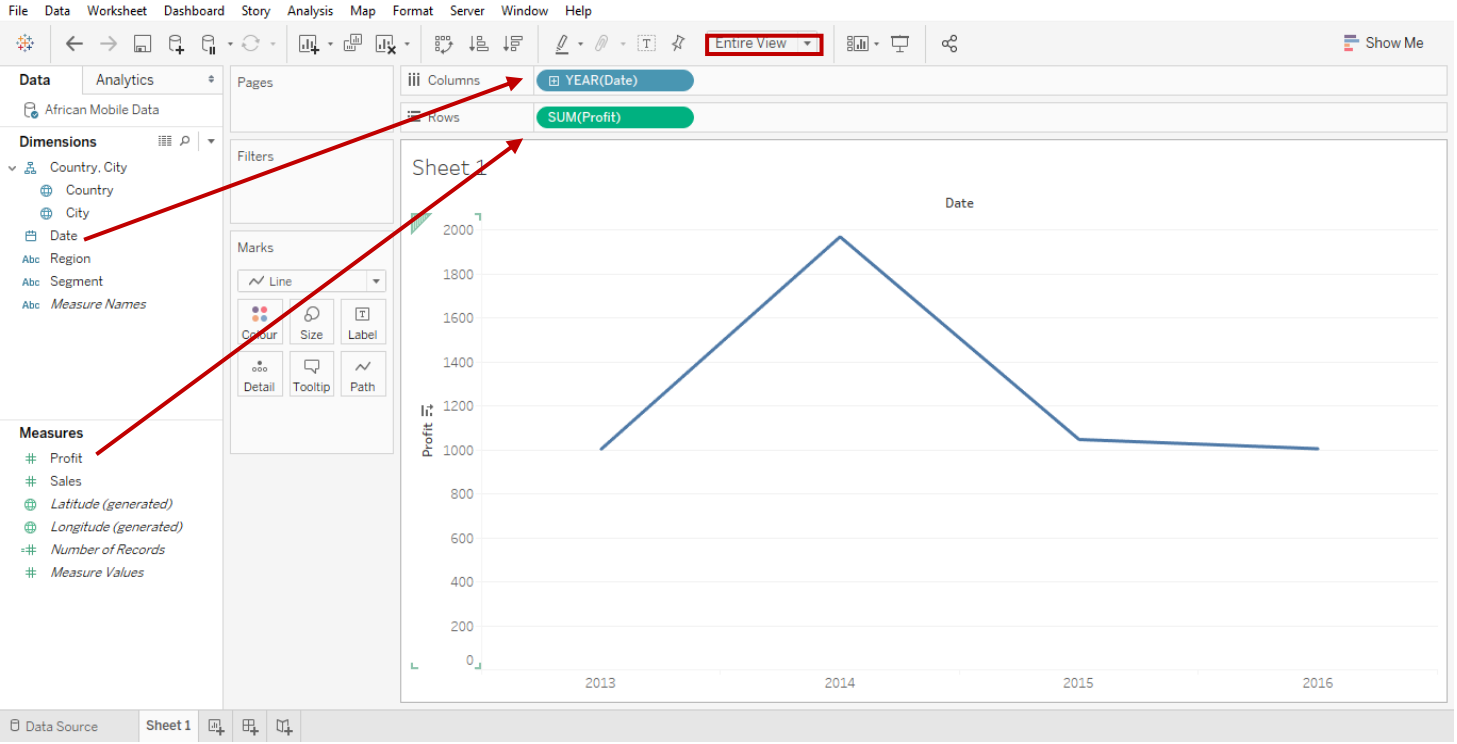
- Time series graphs can answer questions about your data, such as: How does the trend change over time?



Bütün hüquqlar qorunur.

Time Series Analysis

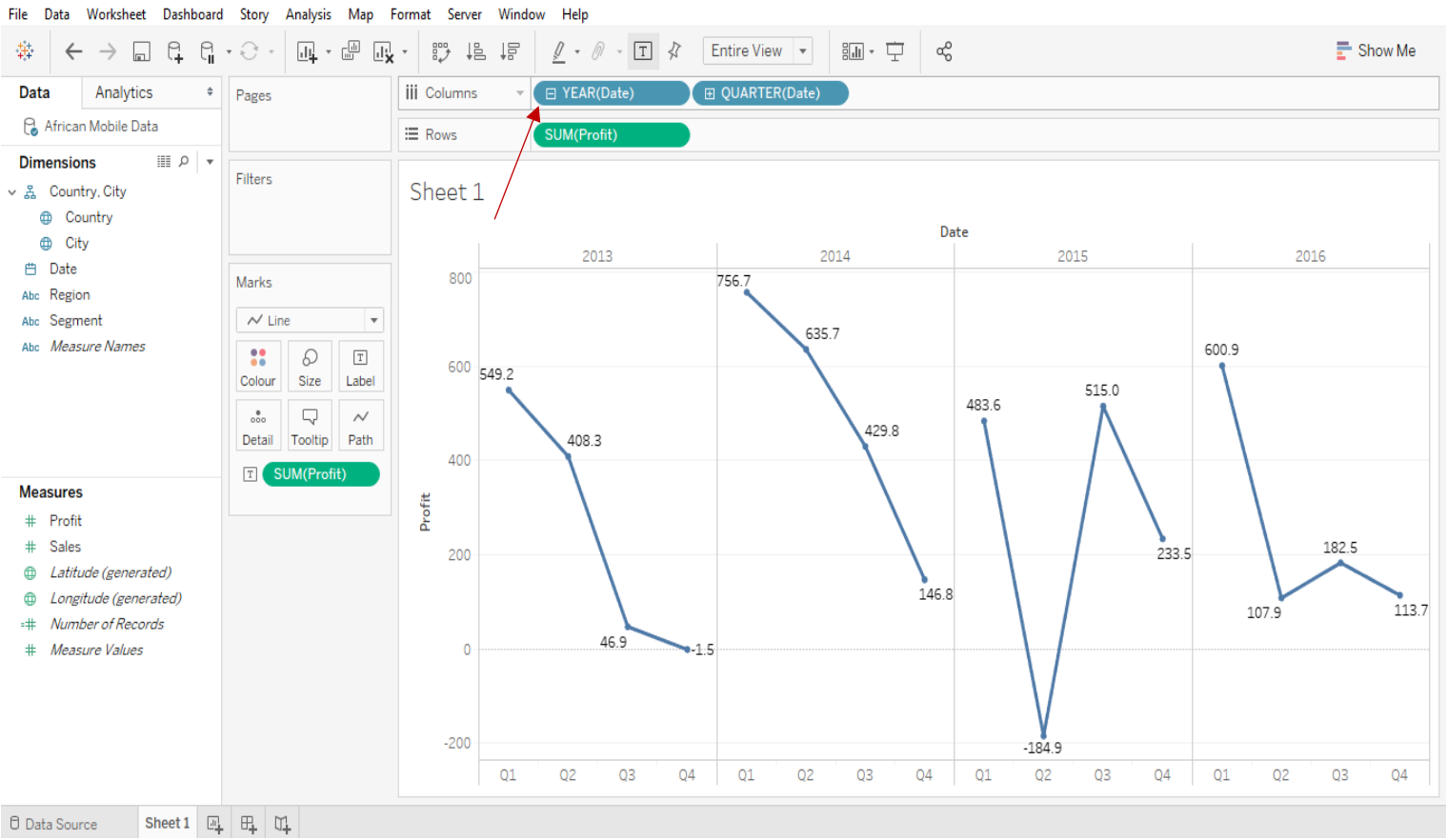
- Change the type to *Line* from Marks section
- Add *Date* to the **Columns**
- Add *Profit* to the **Rows**
- Change fit to entire view



Bütün hüquqlar qorunur.

Time Series Analysis

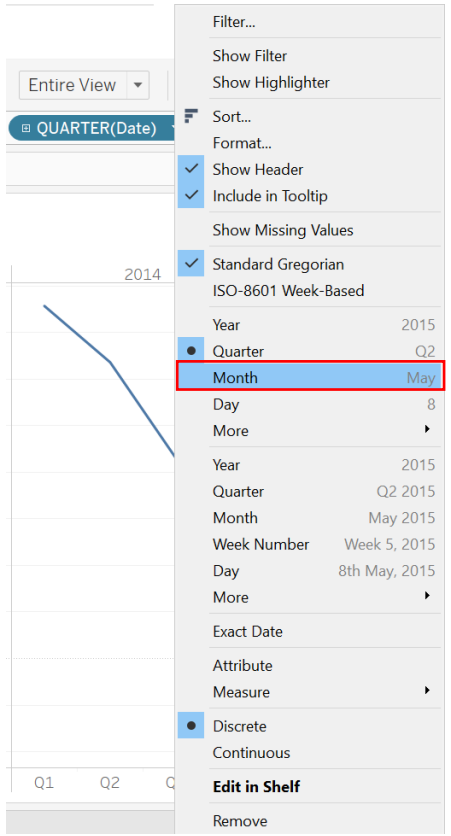
- Change date to *Quarter* by clicking on “+” sign on *Year*

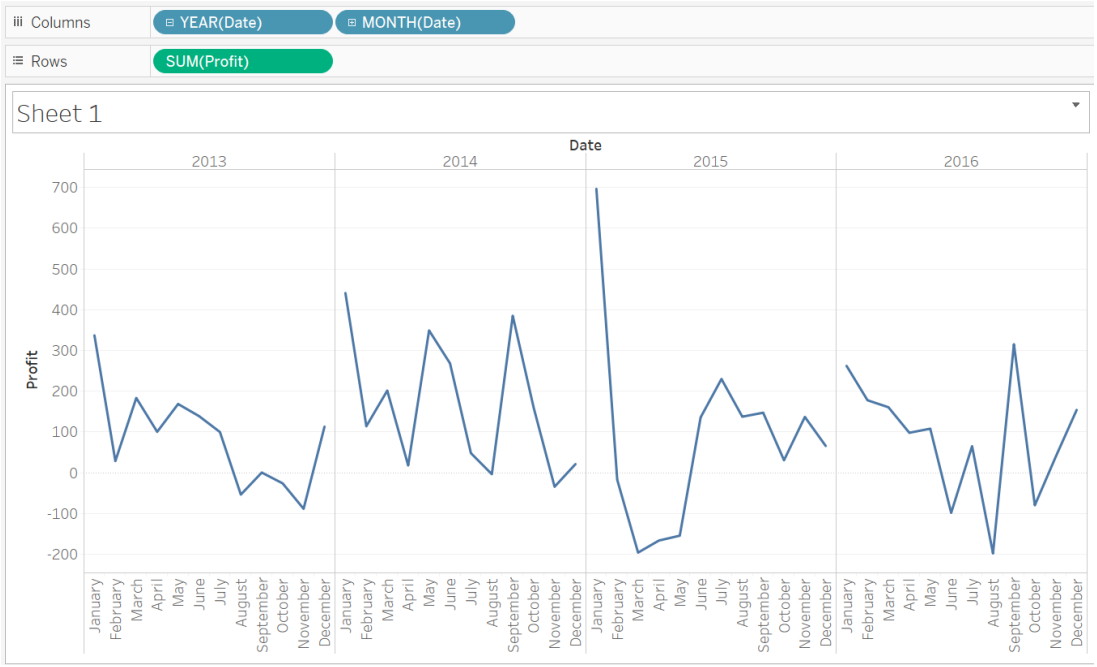


Bütün hüquqlar qorunur.

Time Series Analysis

- Right click on *Quarter*
- Select **Month** from highlighted areas





Bütün hüquqlar qorunur.

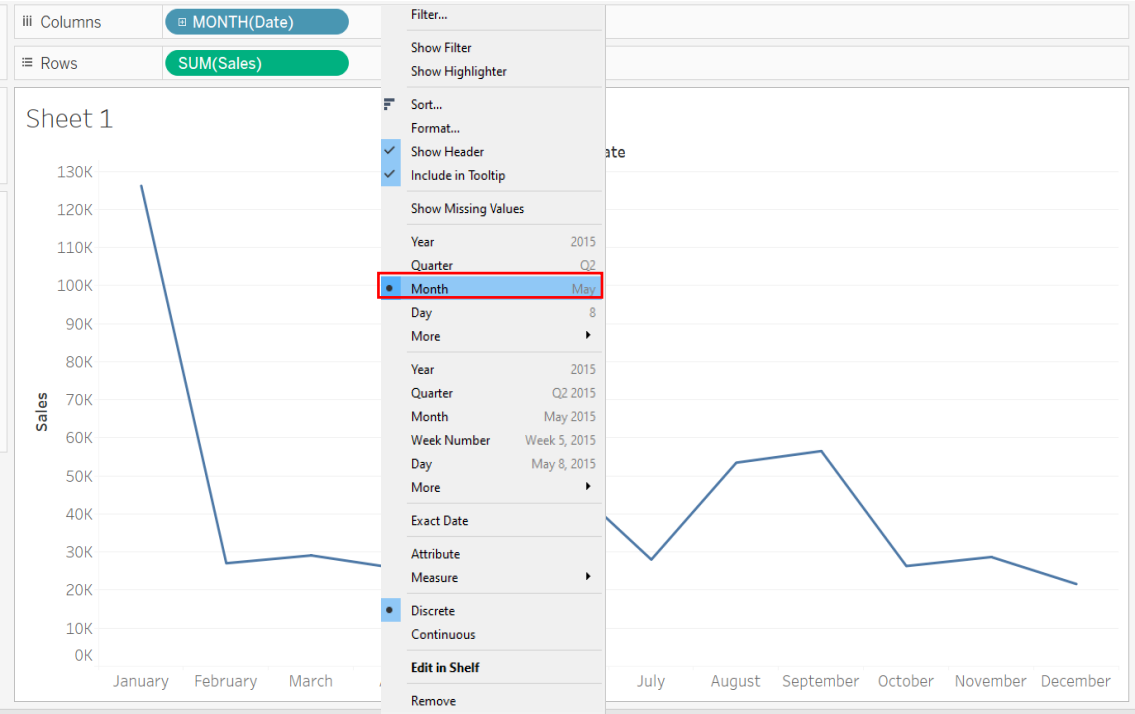
Time Series Analysis

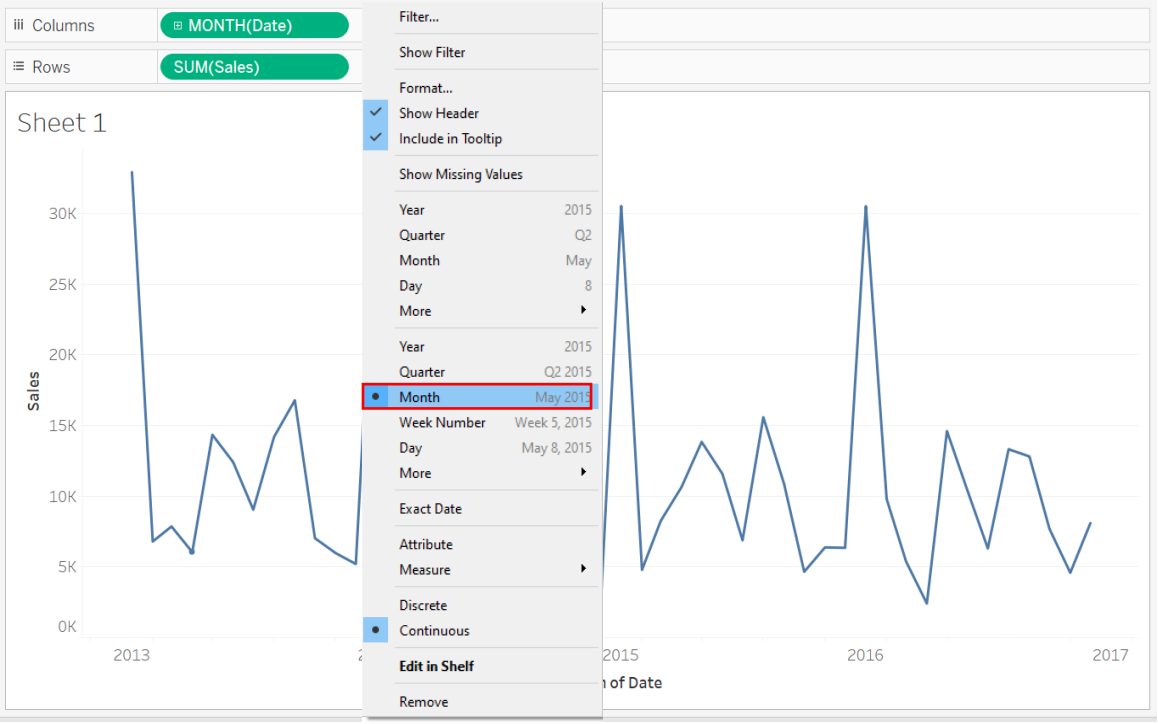
Difference between date forms:

- Add *Sales* to Rows
- *Date* to columns

1 Right click on date
Select highlighted option

2 Right click on date
Select highlighted option

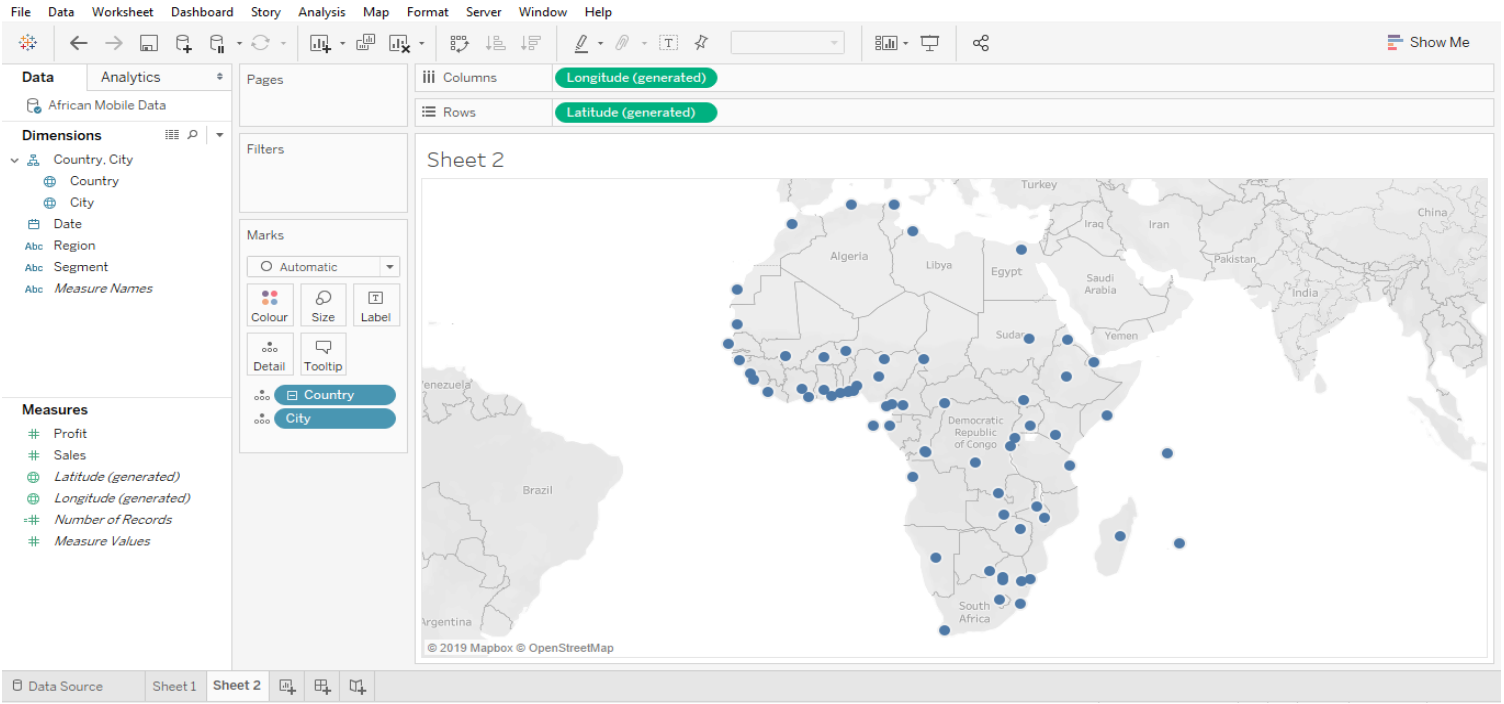




Bütün hüquqlar qorunur.

Maps

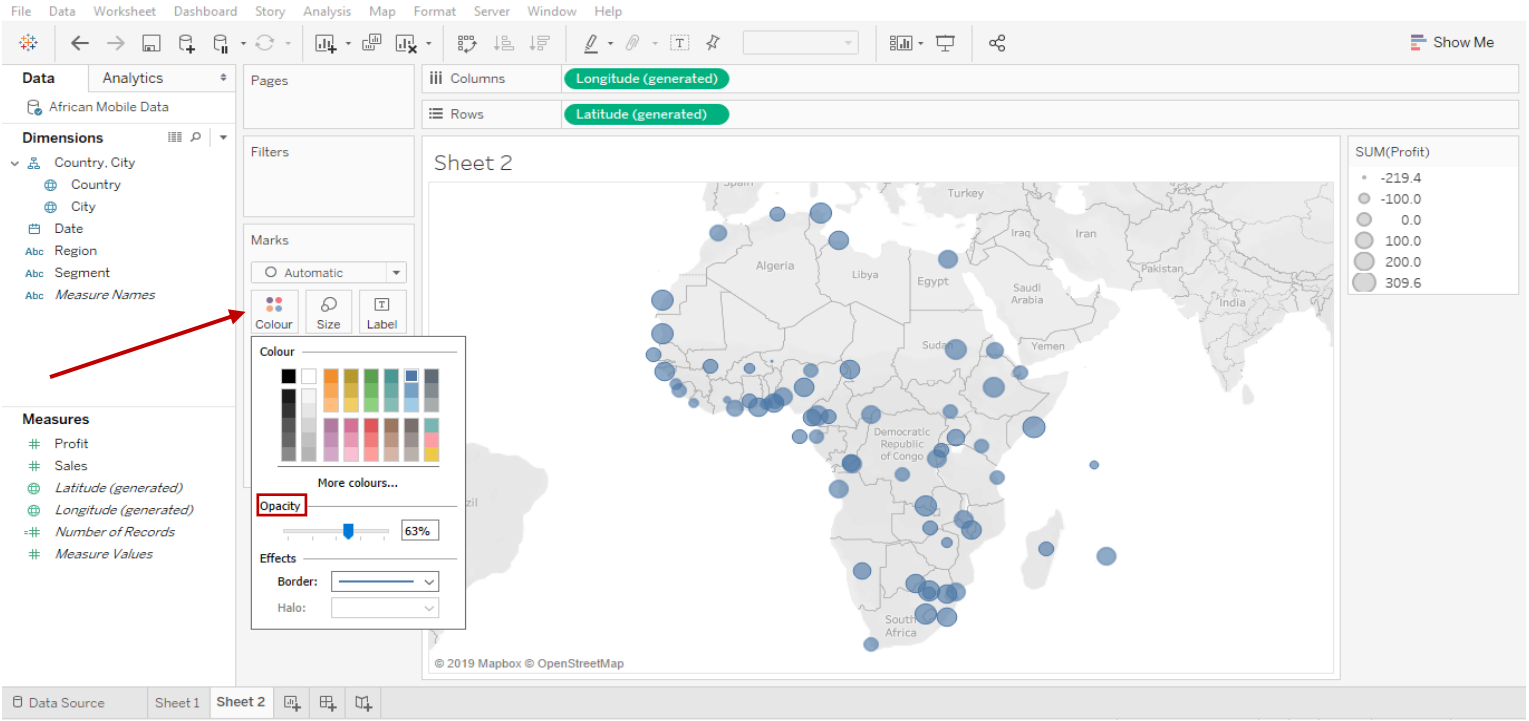
- Add *Country, City hierarchy* to the view
- Collapse *hierarchy* by clicking on + sign on country in *Marks section*



Bütün hüquqlar qorunur.

Maps

- Add **Profit** to *Size*
- Click on *Color*
- Change the opacity



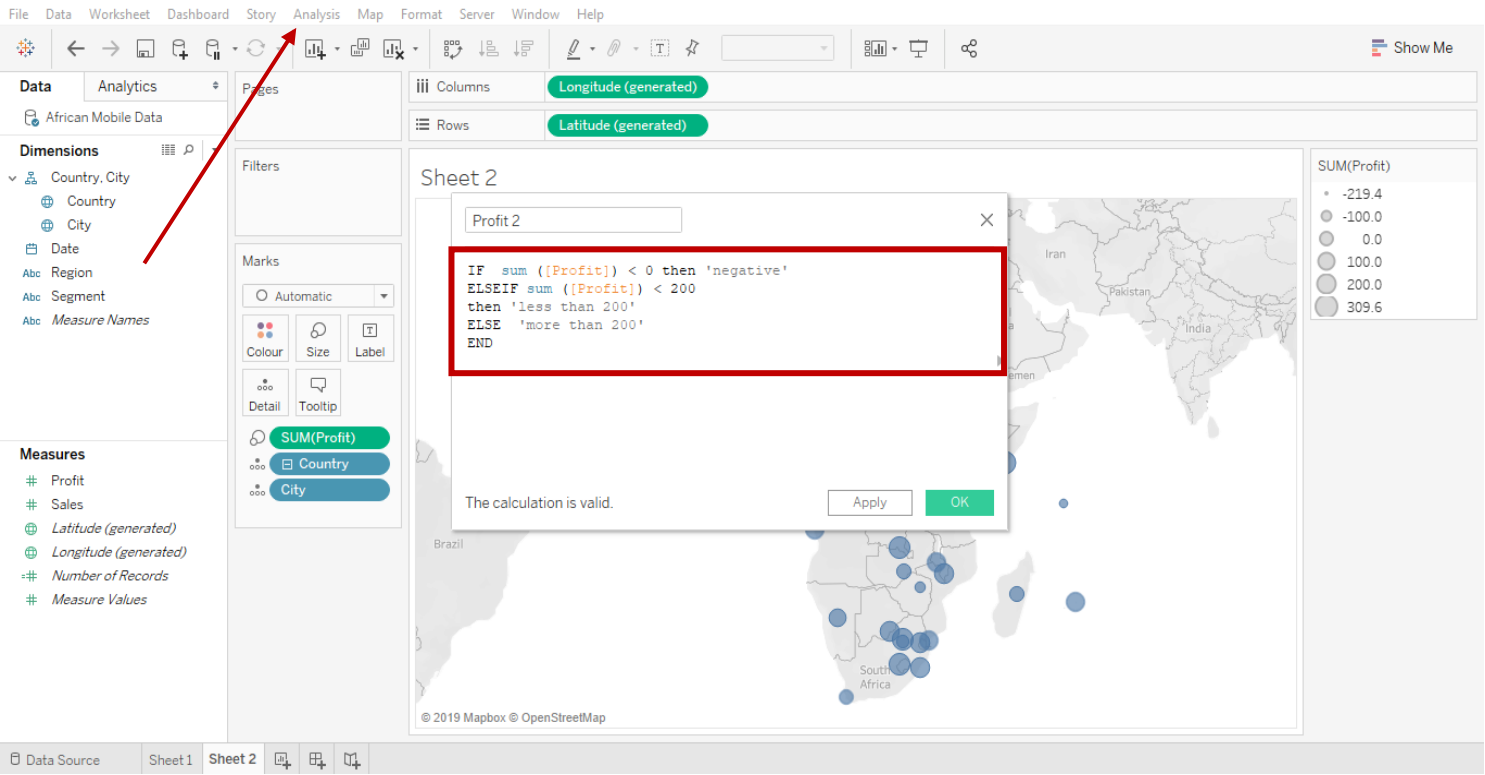
Bütün hüquqlar qorunur.

II
Dashboards

Data Science Academy

Maps

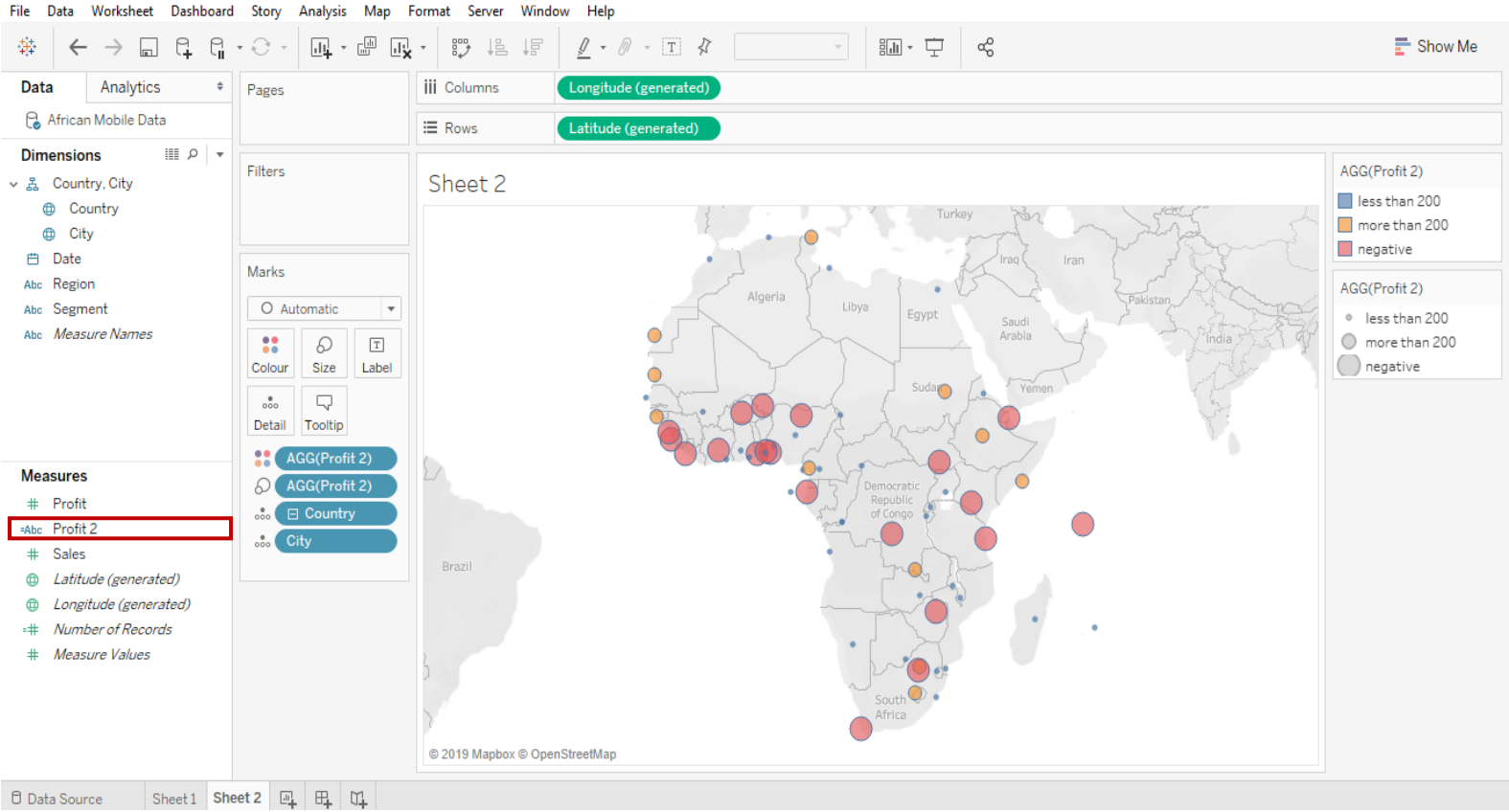
- From **analysis** create new calculated field
- Enter the following function as shown



Bütün hüquqlar qorunur.

Maps

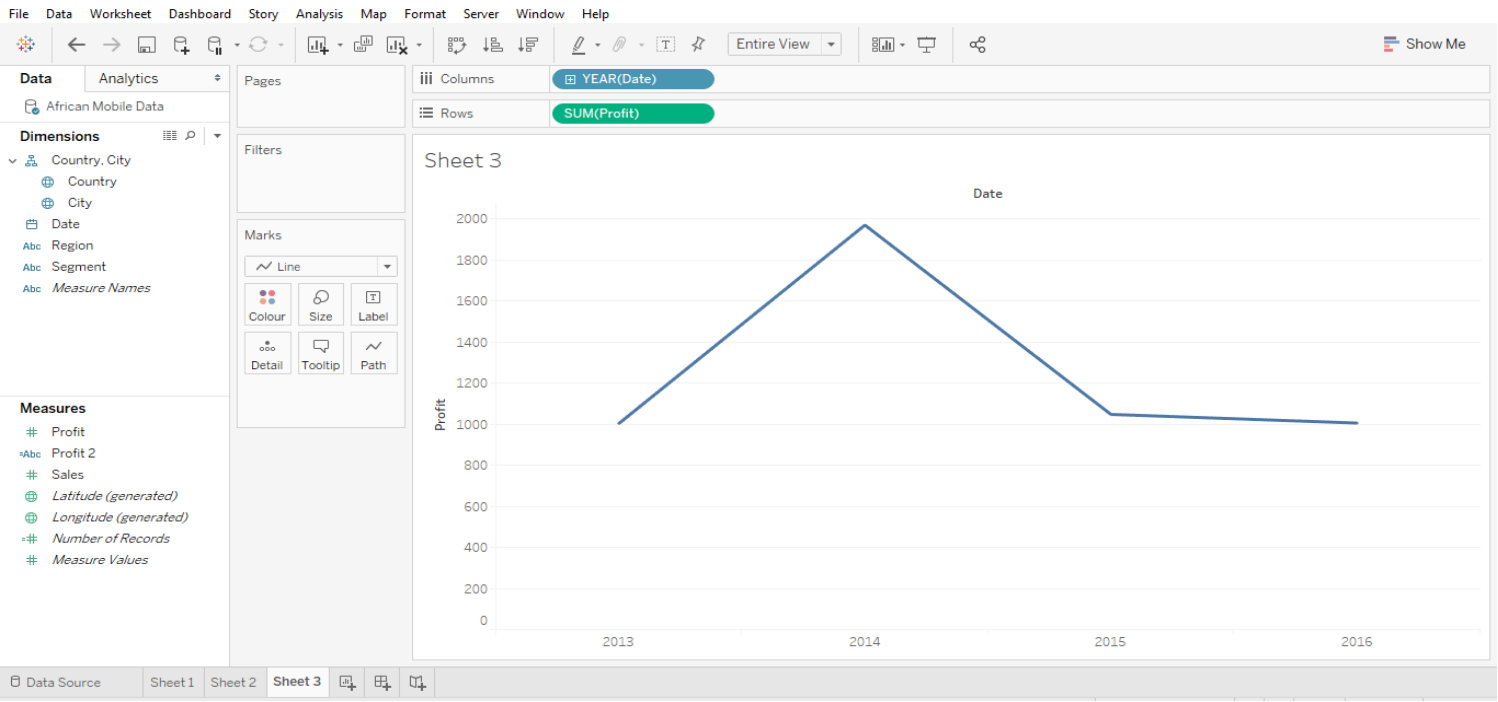
- Double-Click *Profit 2* **calculated field**



Bütün hüquqlar qorunur.

Tooltip

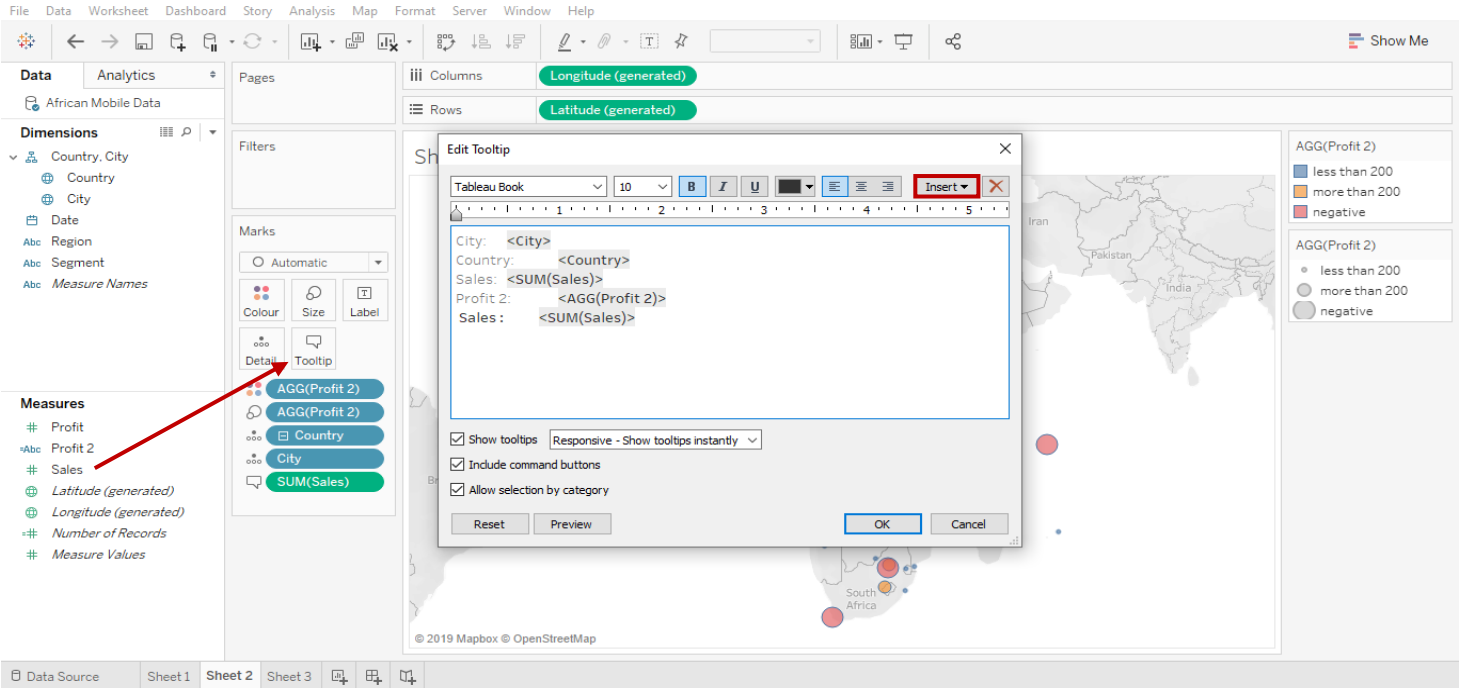
- Add **Year** to *columns*
- Add **Profit** to *rows*



Bütün hüquqlar qorunur.

Tooltip

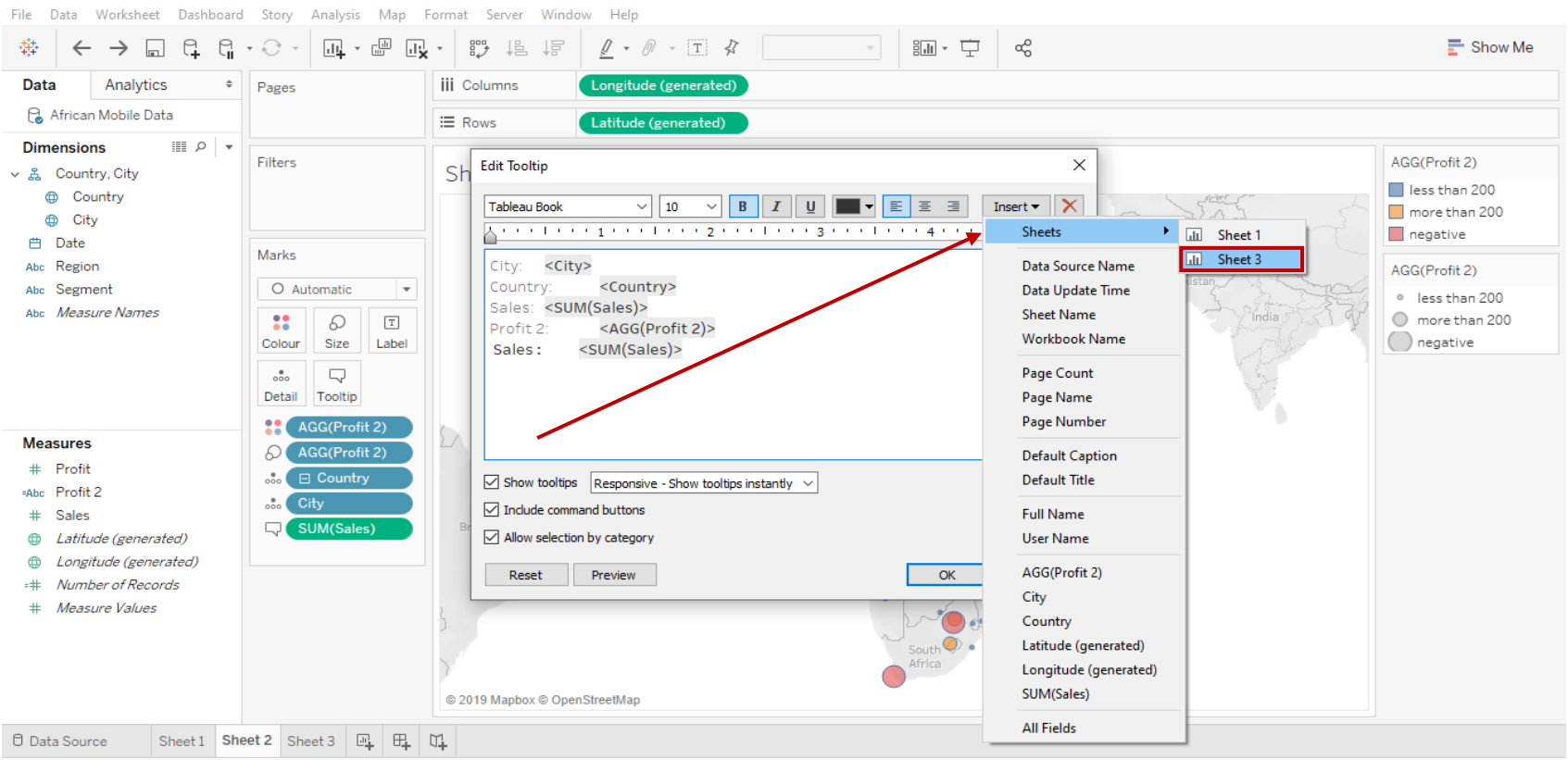
- Add *Sales* to **Tooltip**
- Double-Click **Tooltip**
- Insert *Sales* from highlighted area



Bütün hüquqlar qorunur.

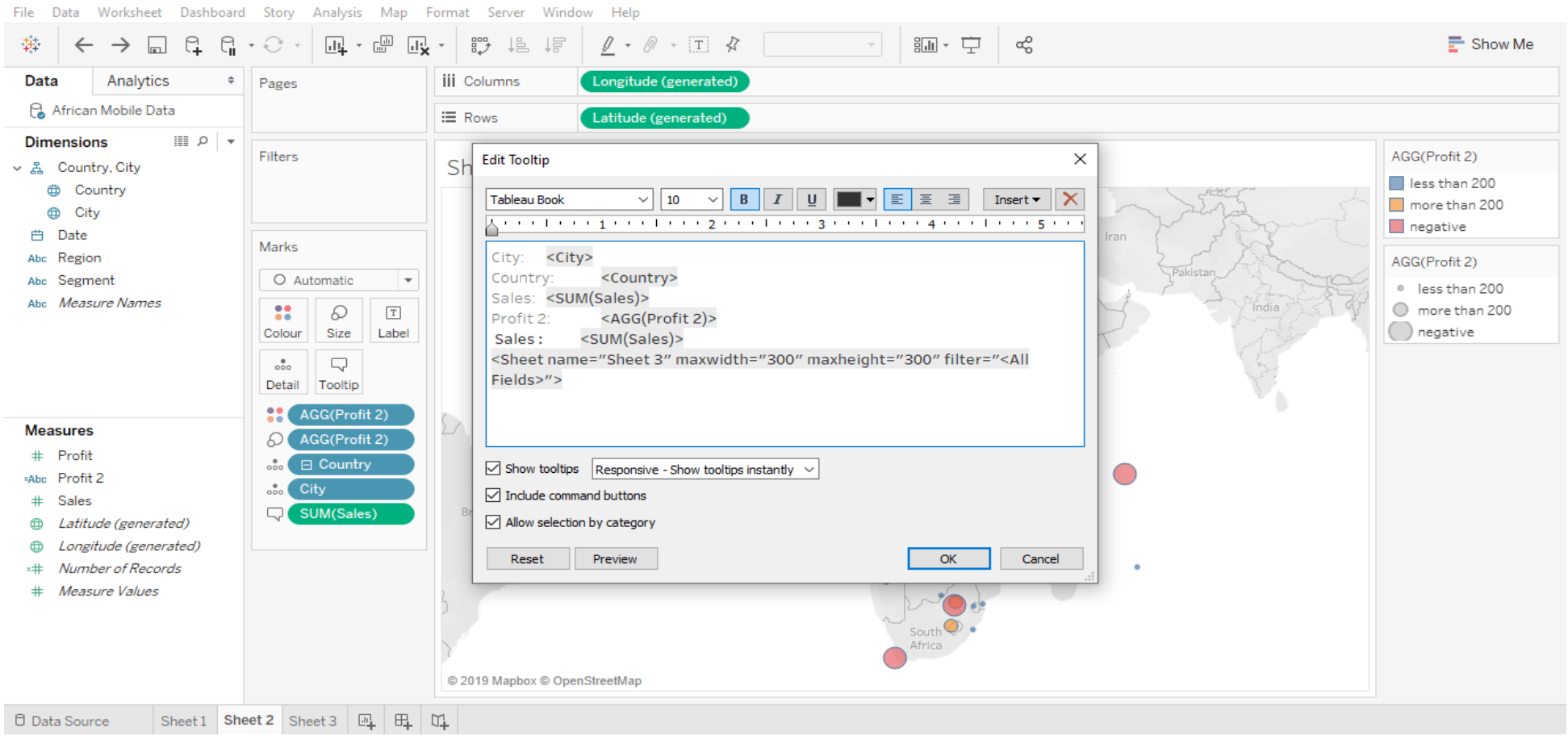
Tooltip

- Insert **sheet 3** from highlighted area



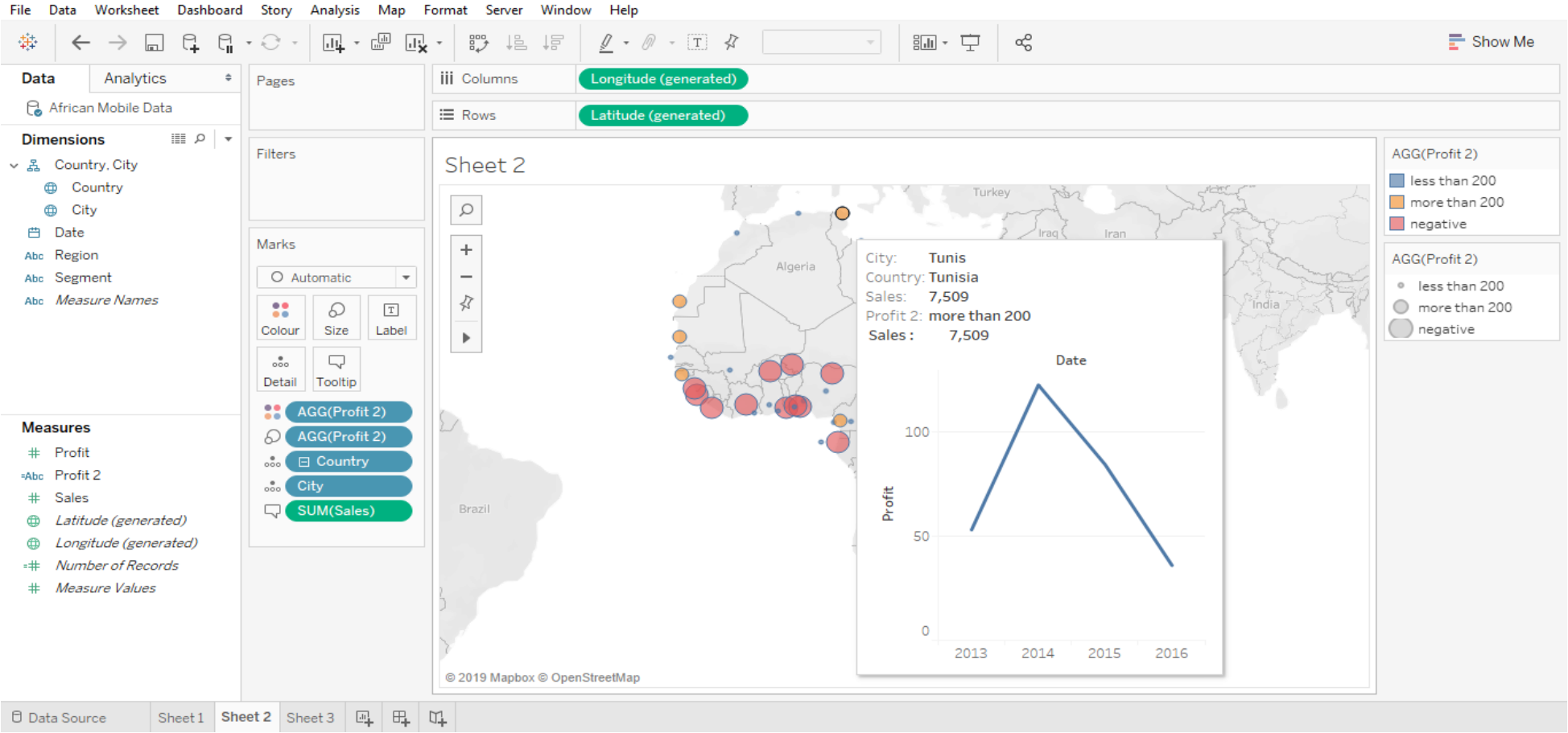
Bütün hüquqlar qorunur.

Tooltip



Bütün hüquqlar qorunur.

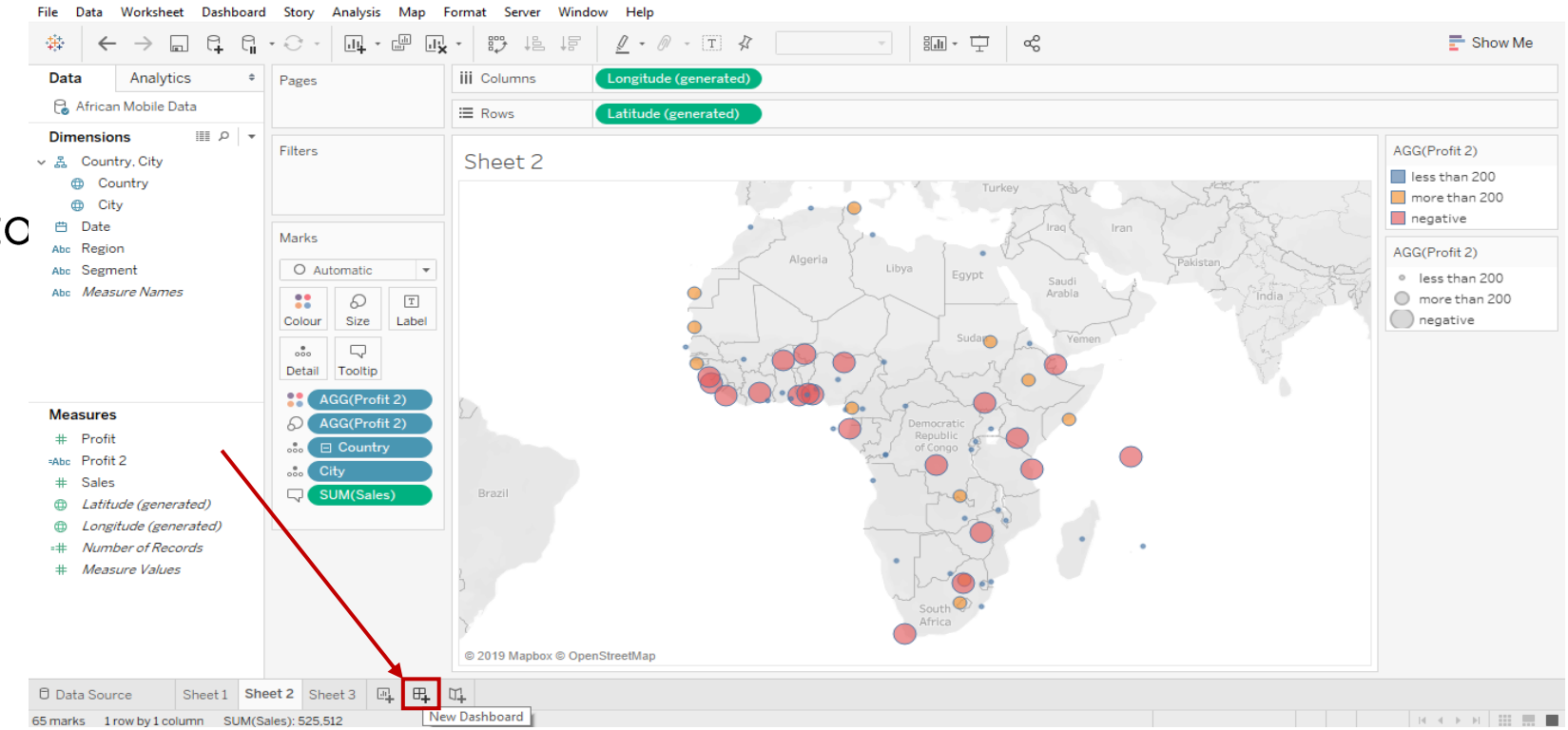
Tooltip



Bütün hüquqlar qorunur.

Dashboards

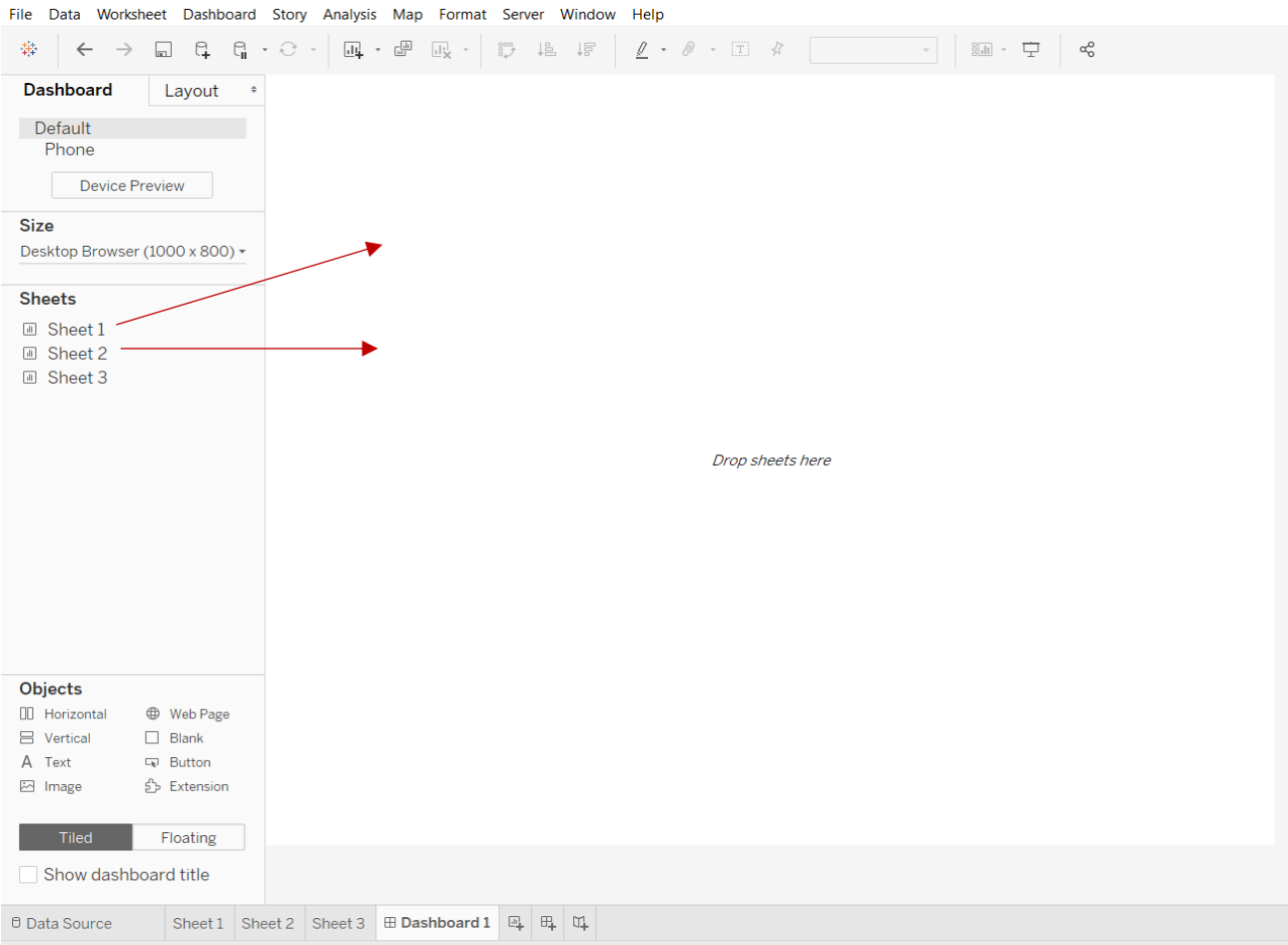
- Click highlighted area to create **new dashboard**



Bütün hüquqlar qorunur.

Dashboards

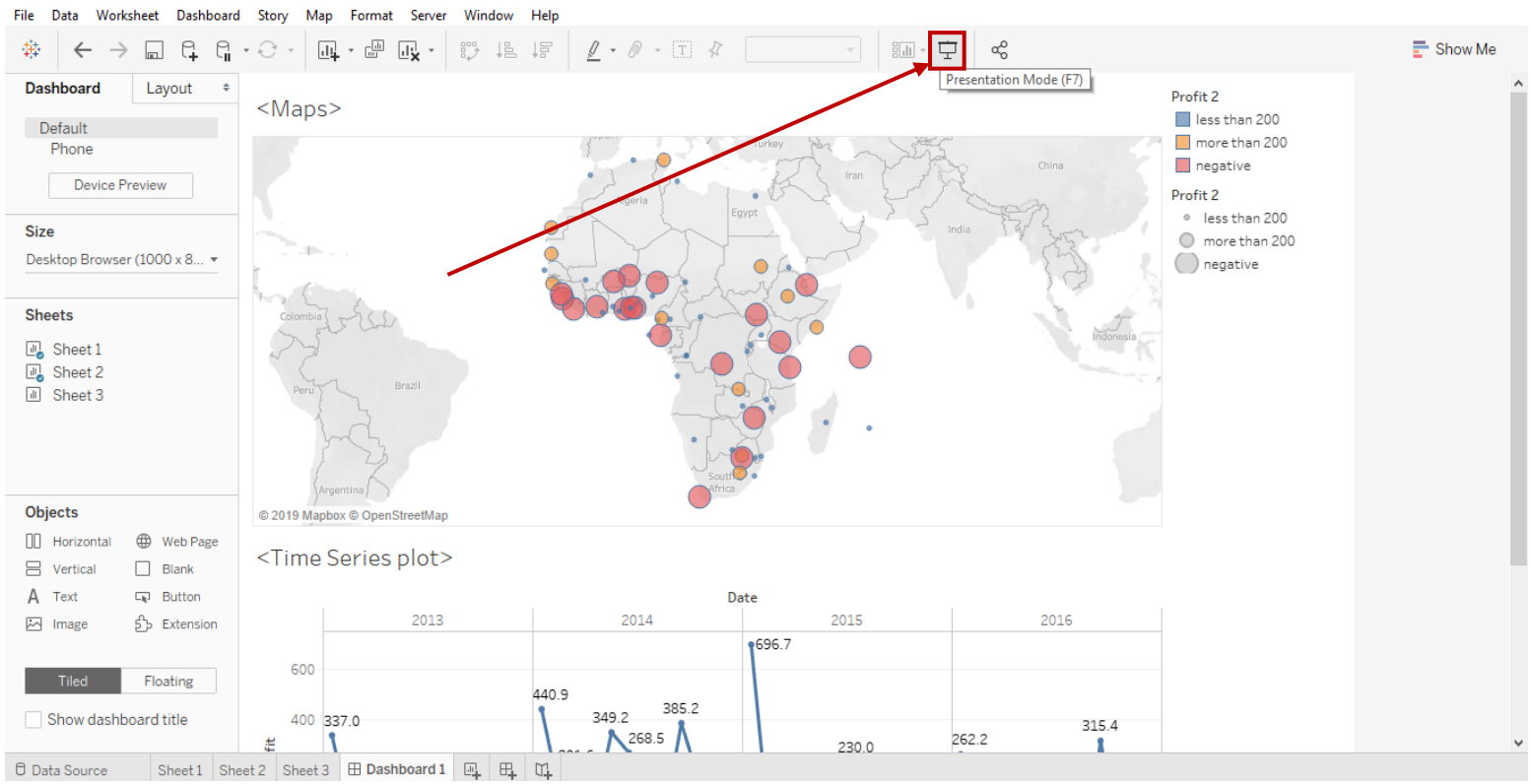
- Drop **Sheets** to the view



Bütün hüquqlar qorunur.

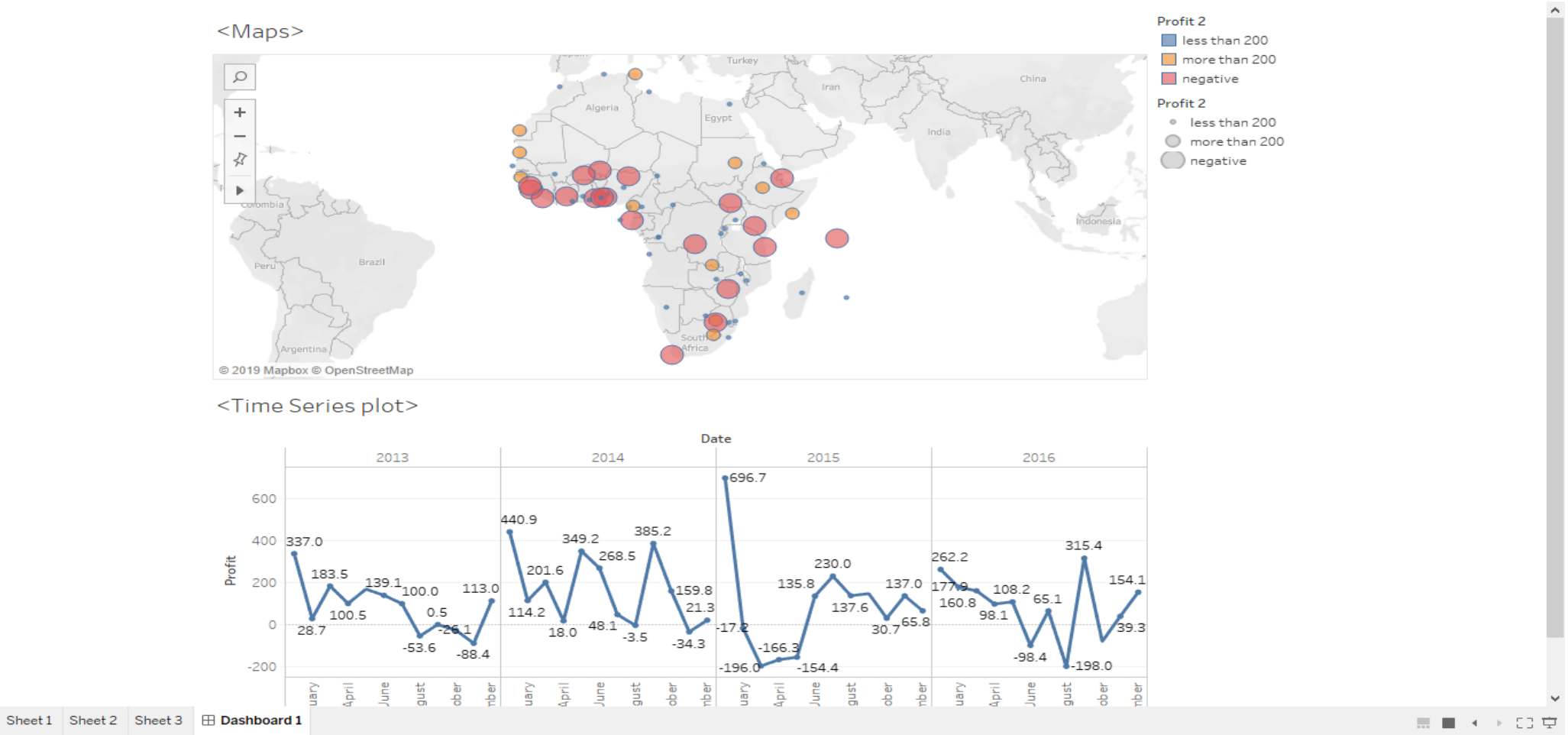
Dashboards

- Click **Presentation Mode** from highlighted area



Bütün hüquqlar qorunur.

Dashboards



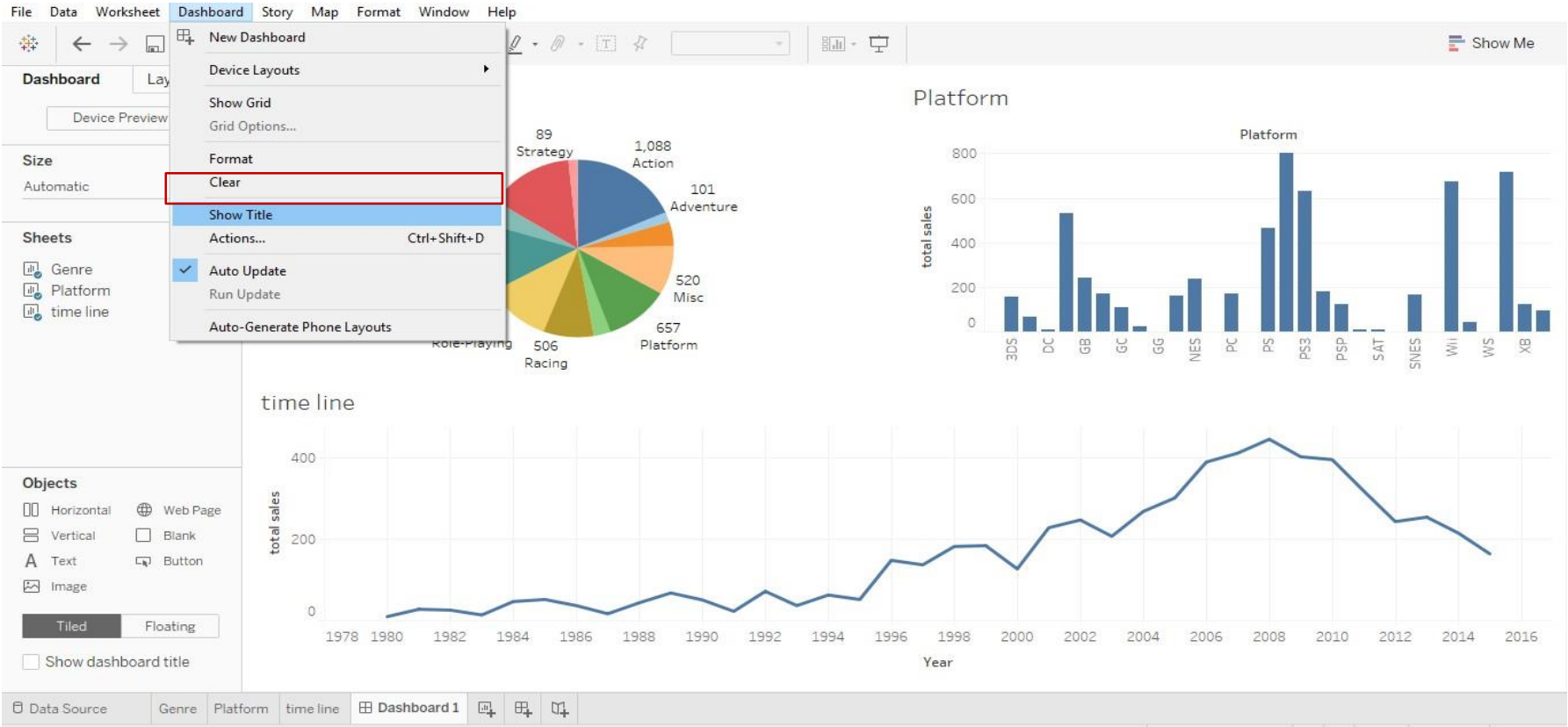
Bütün hüquqlar qorunur.

III
Complex Design Tools

Data Science Academy

Complex Design Tools

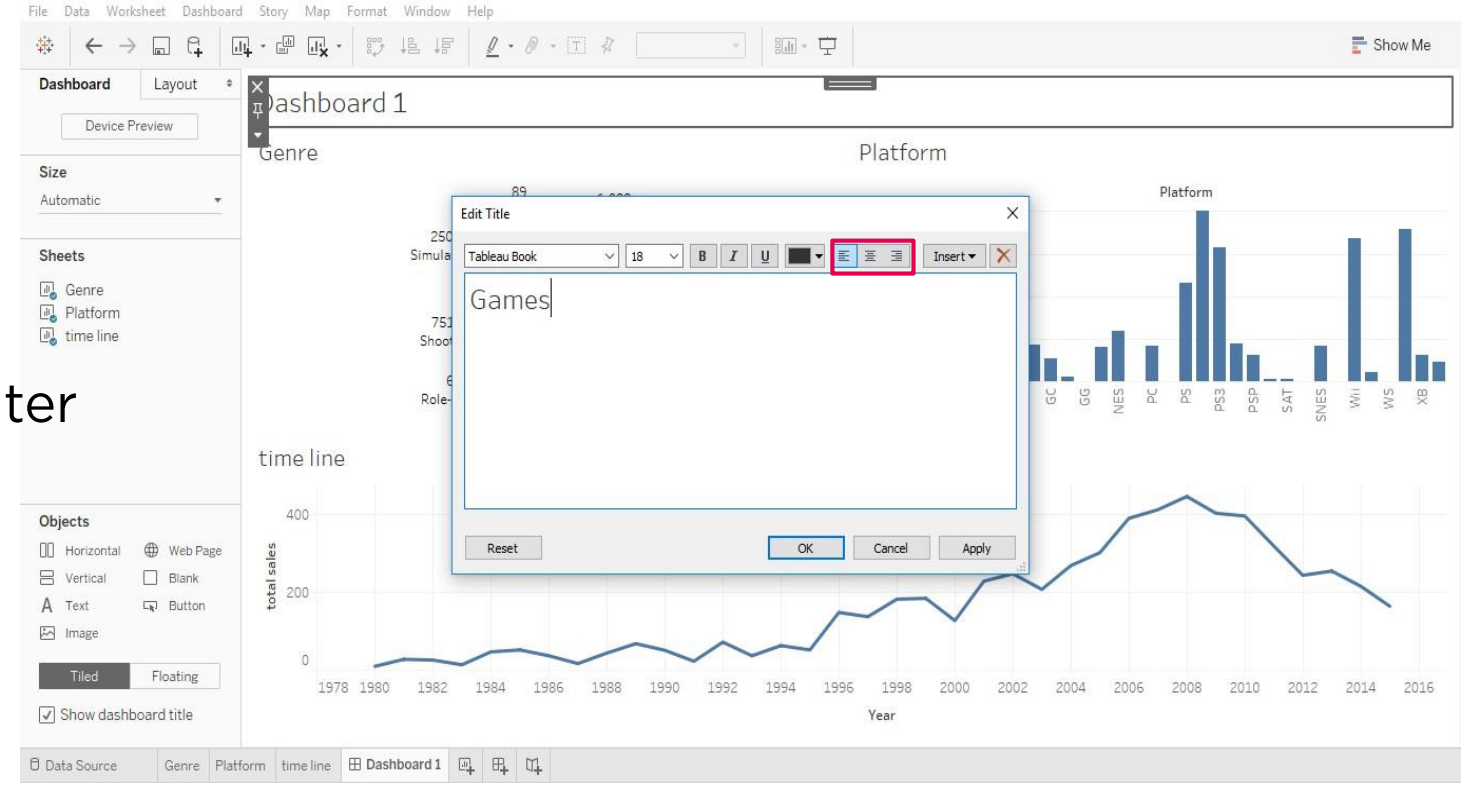
- Go to **Dashboard**
- Select Show Title



Bütün hüquqlar qorunur.

Complex Design Tools

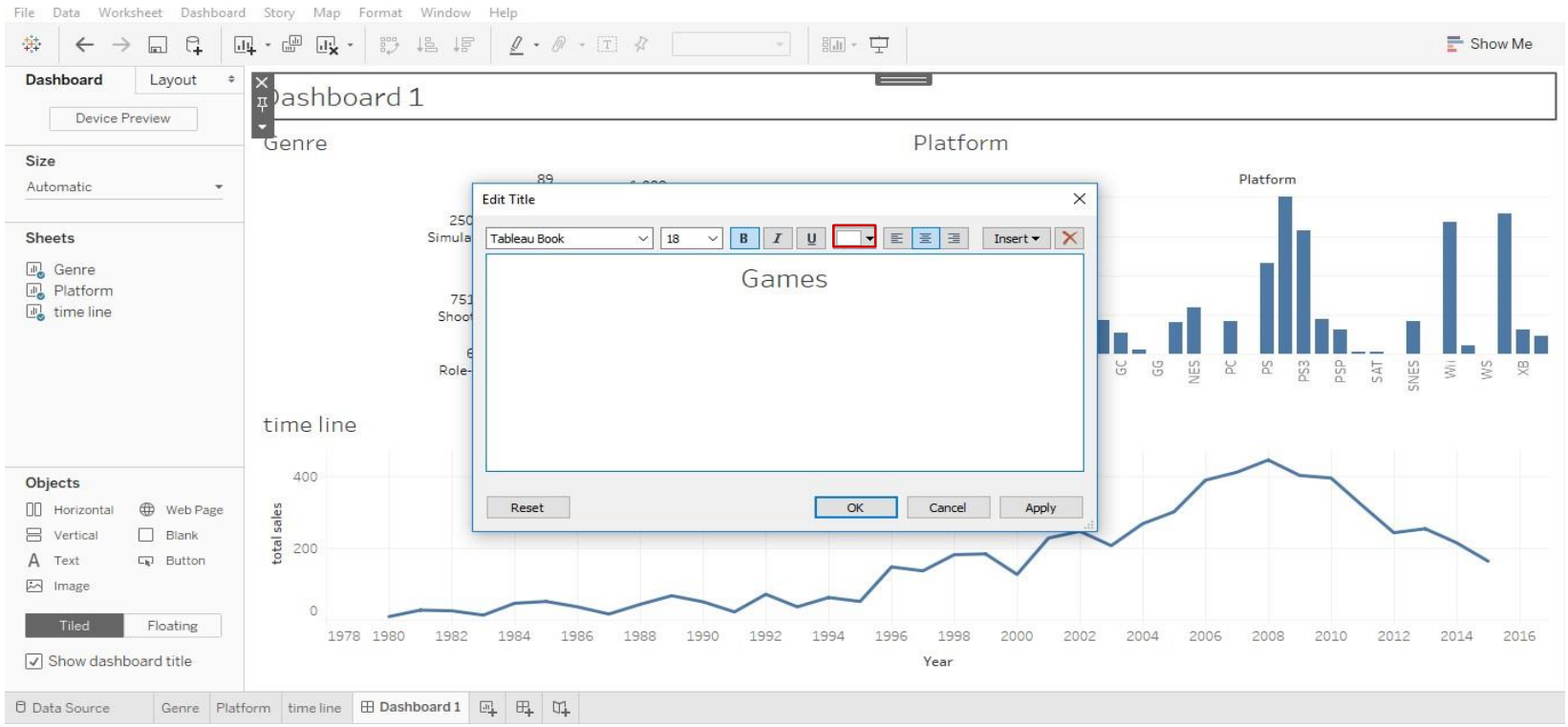
- Right click **Title**
- Edit title
- Type the name of dashboard
- Change alignment to the center



Bütün hüquqlar qorunur.

Complex Design Tools

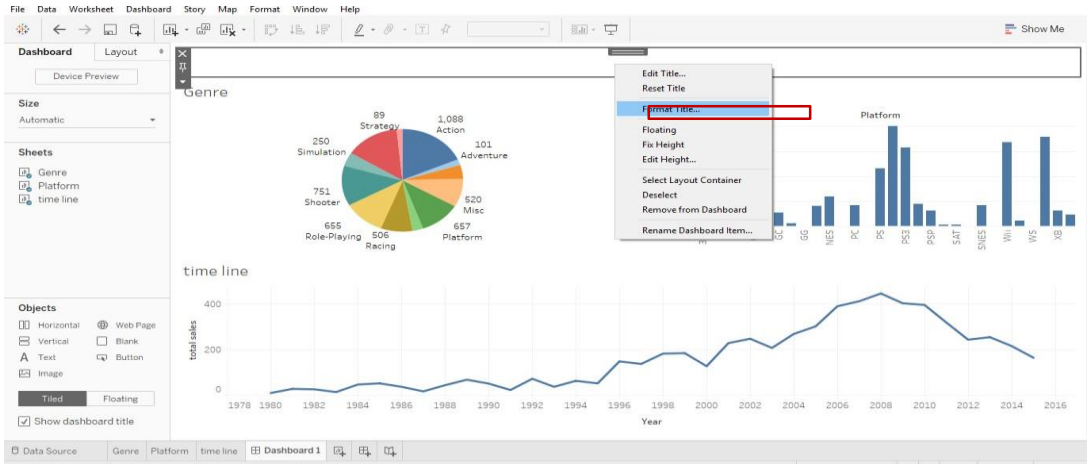
- Change color to white from highlighted area



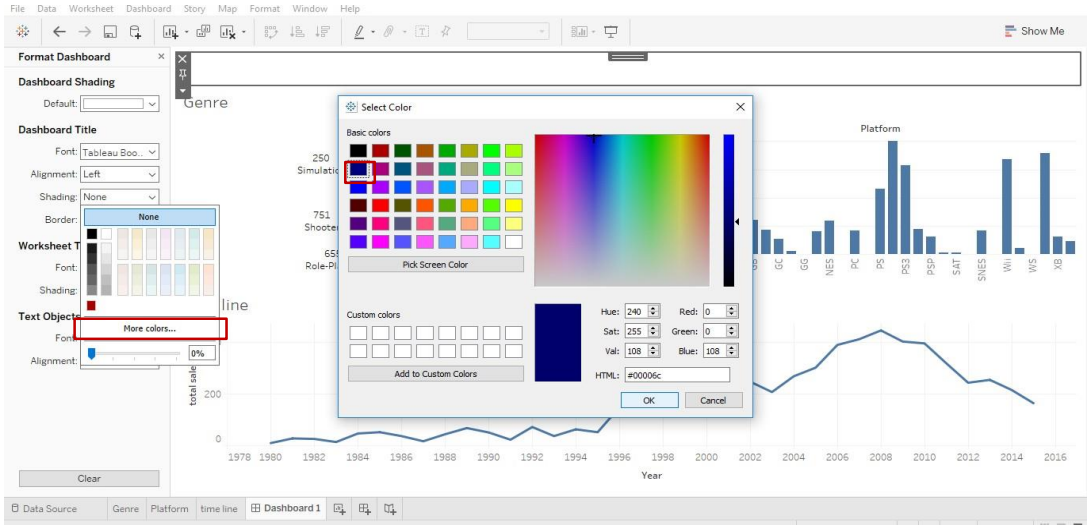
Bütün hüquqlar qorunur.

Complex Design Tools

- Right click to **Title**
- Select to **Format Title**



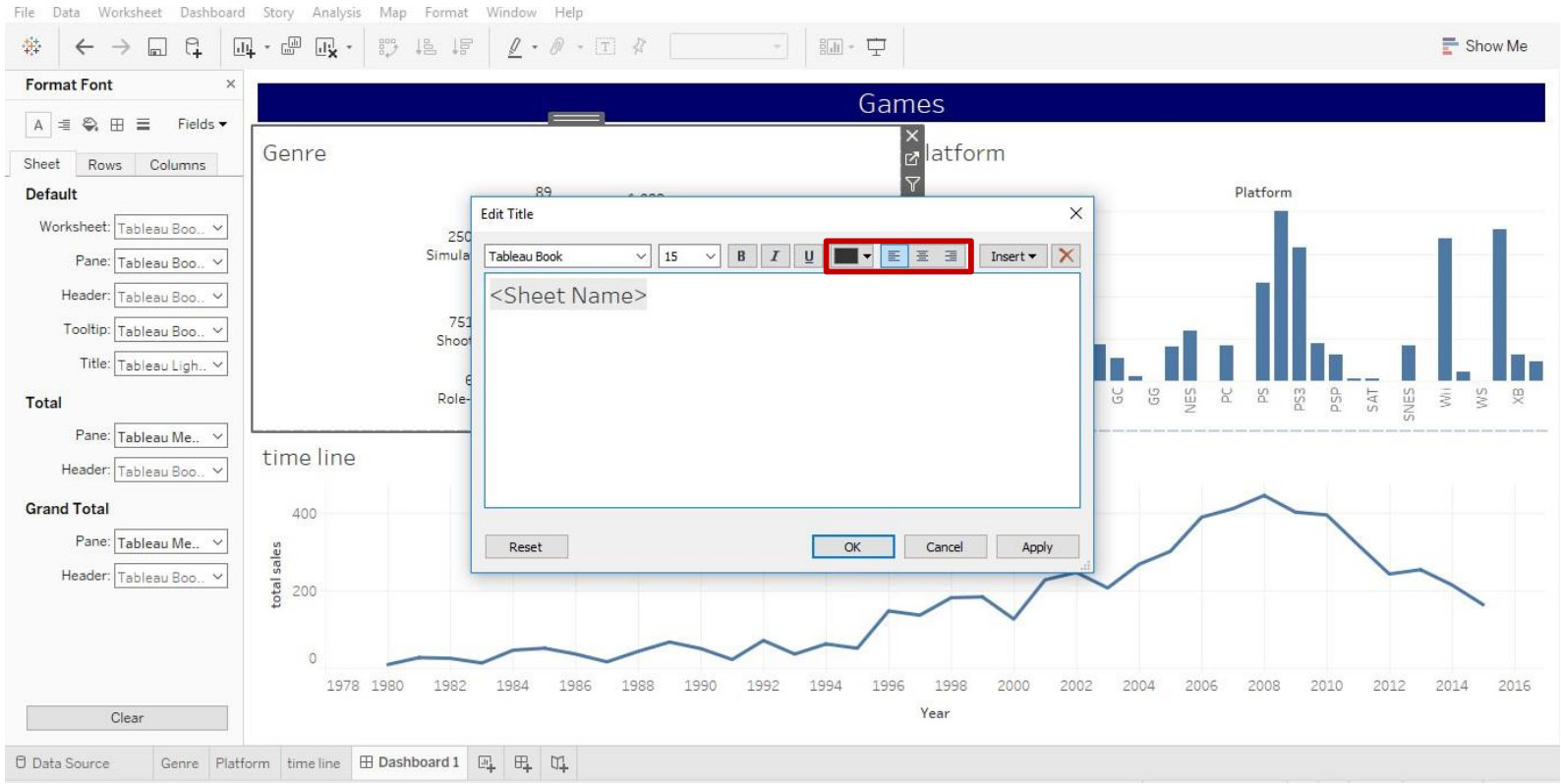
- Choose shading color of dashboard **Title**



Bütün hüquqlar qorunur.

Complex Design Tools

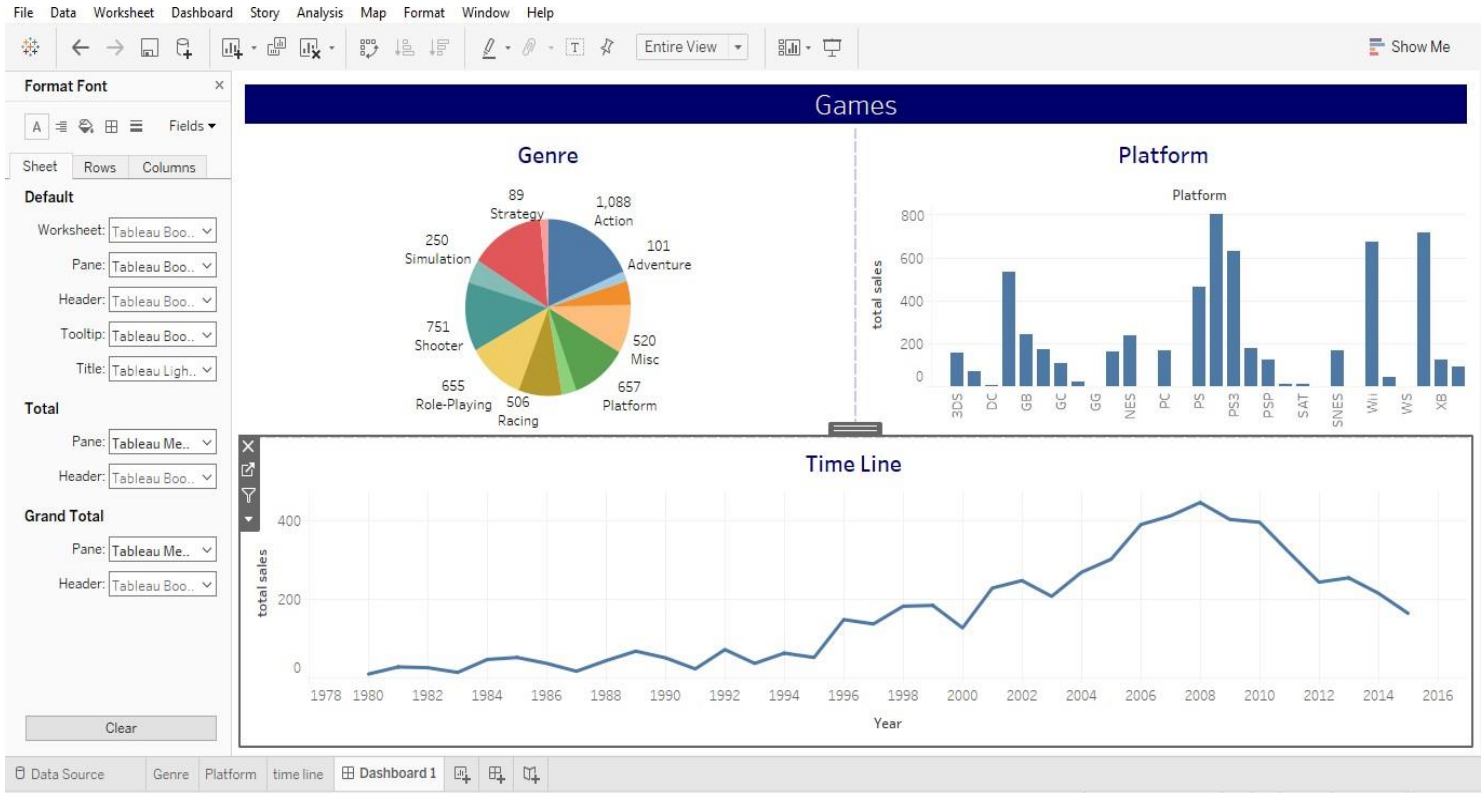
- Click to **Edit Title**
- Enter Title
- Choose color and alignment from highlighted section



Bütün hüquqlar qorunur.

Complex Design Tools

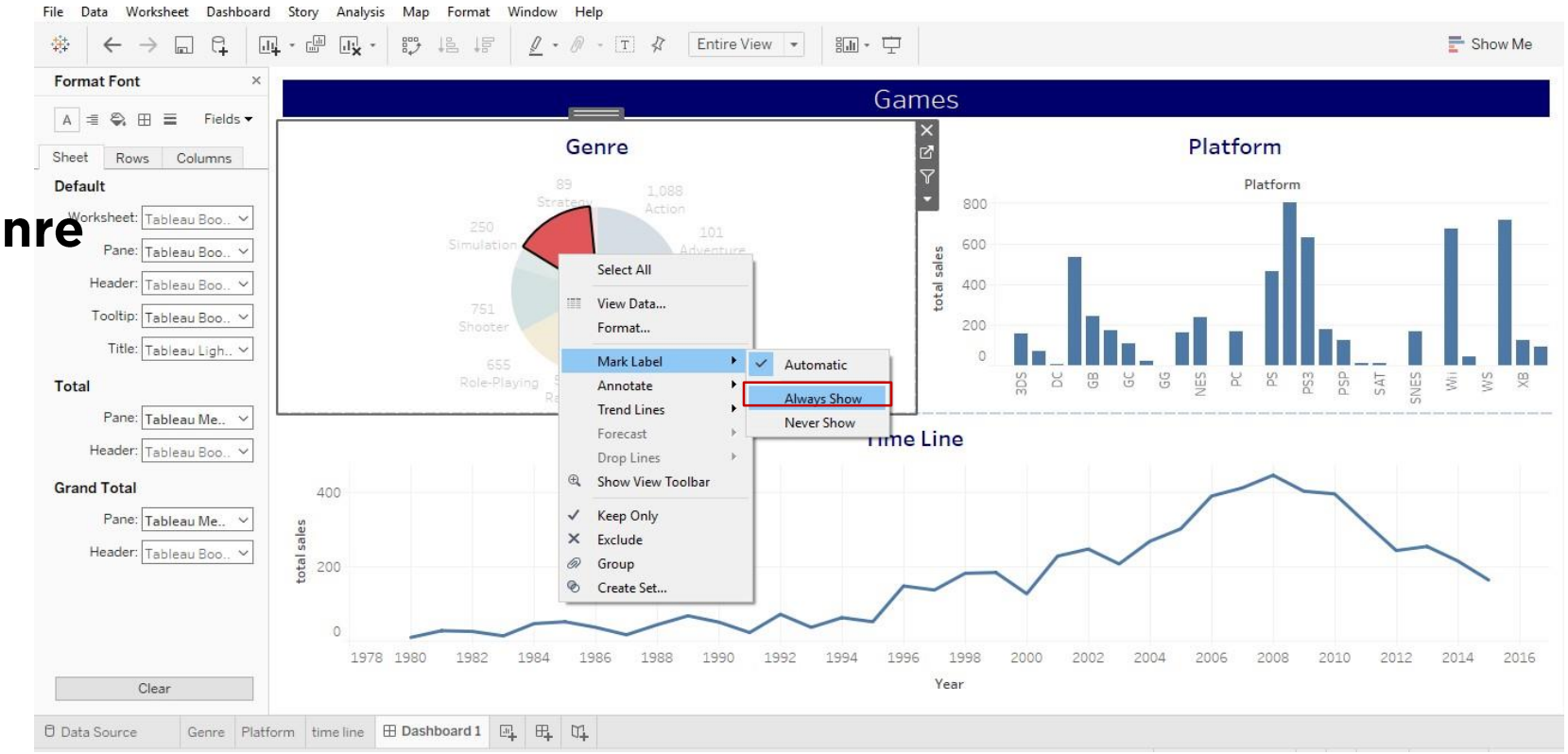
- Apply these processes for all sheets (**Genre, Platform, Time Line**) of dashboard



Bütün hüquqlar qorunur.

Complex Design Tools

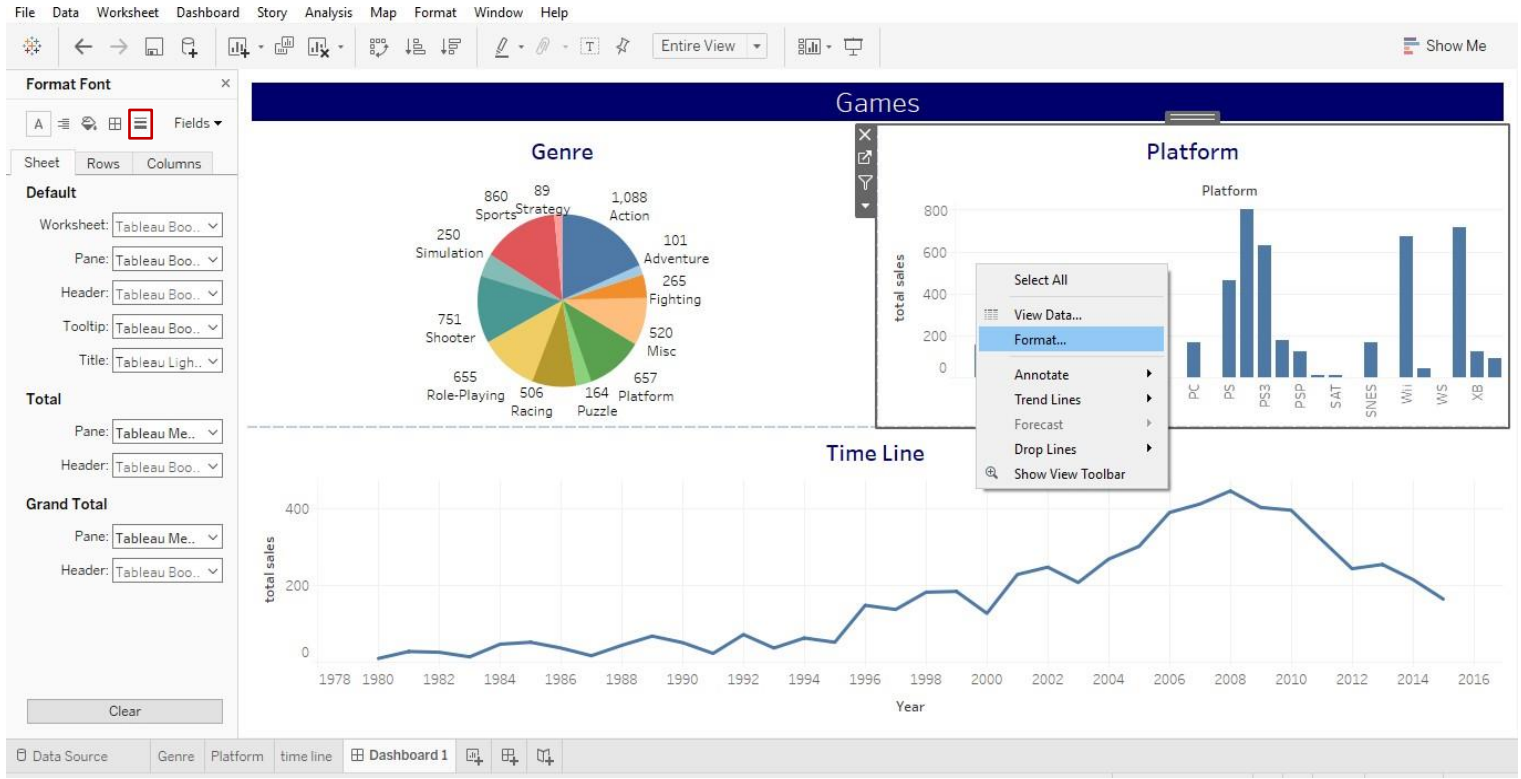
- Right click to **Sports Genre**
- Select Mark Label
- Select Always Show



Bütün hüquqlar qorunur.

Complex Design Tools

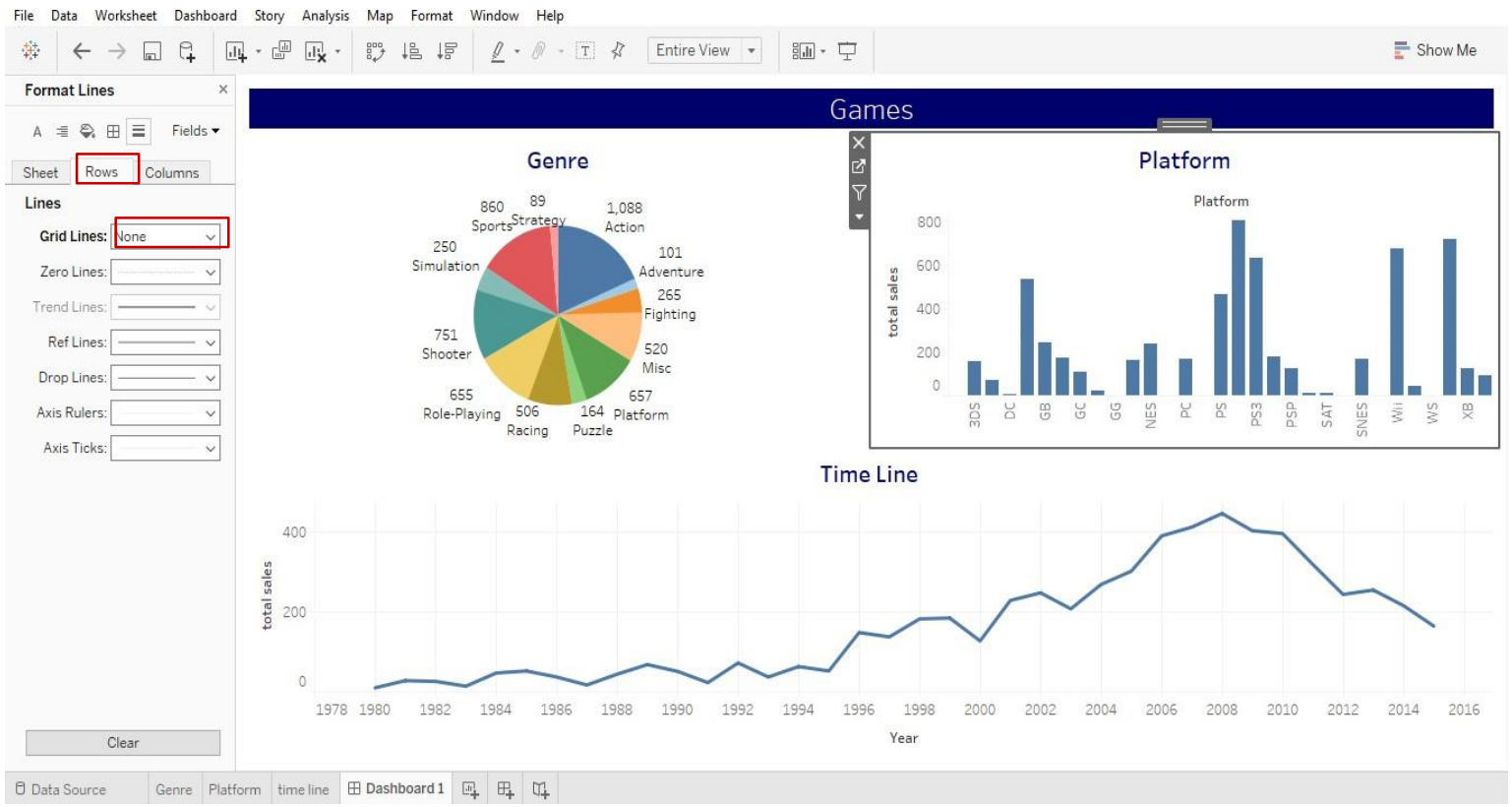
- Right click to an empty area of **Platform sheet**
- Select **Format**
- Go to Lines



Bütün hüquqlar qorunur.

Complex Design Tools

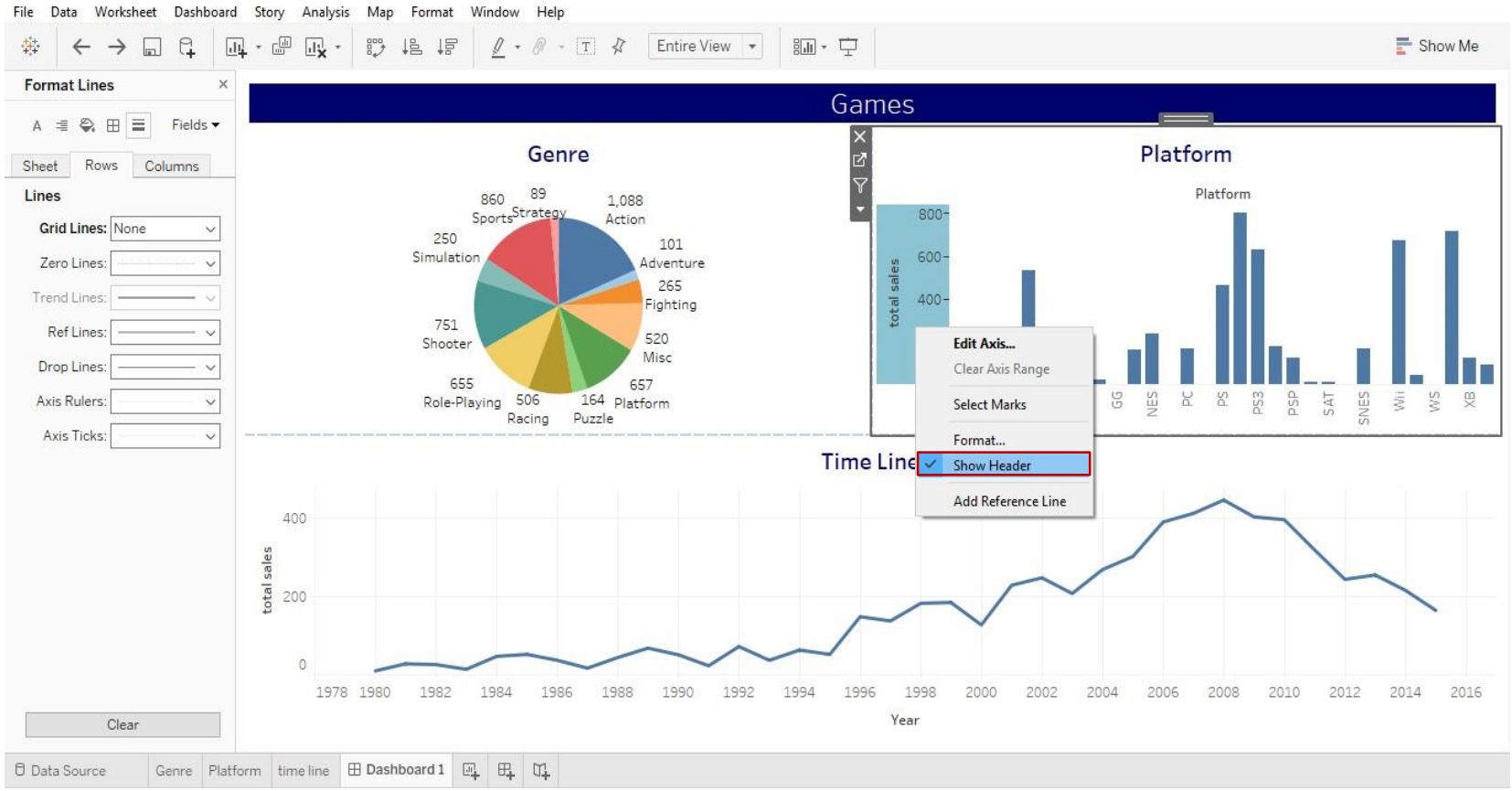
- Select **Rows**
- Choose None for **Grid Lines** from highlighted area



Bütün hüquqlar qorunur.

Complex Design Tools

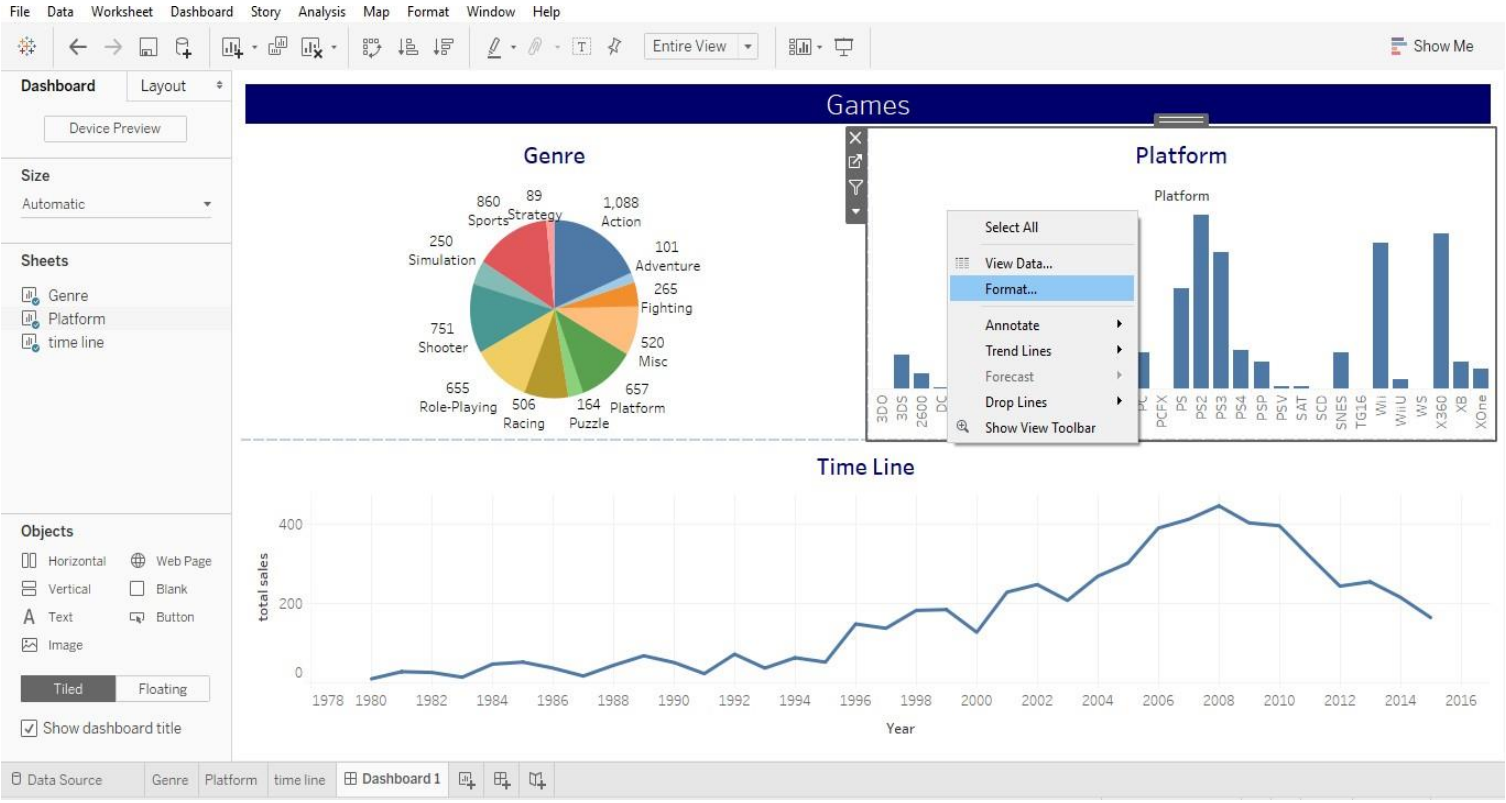
- Right Click to **axis**
- Select *Show Header*



Bütün hüquqlar qorunur.

Complex Design Tools

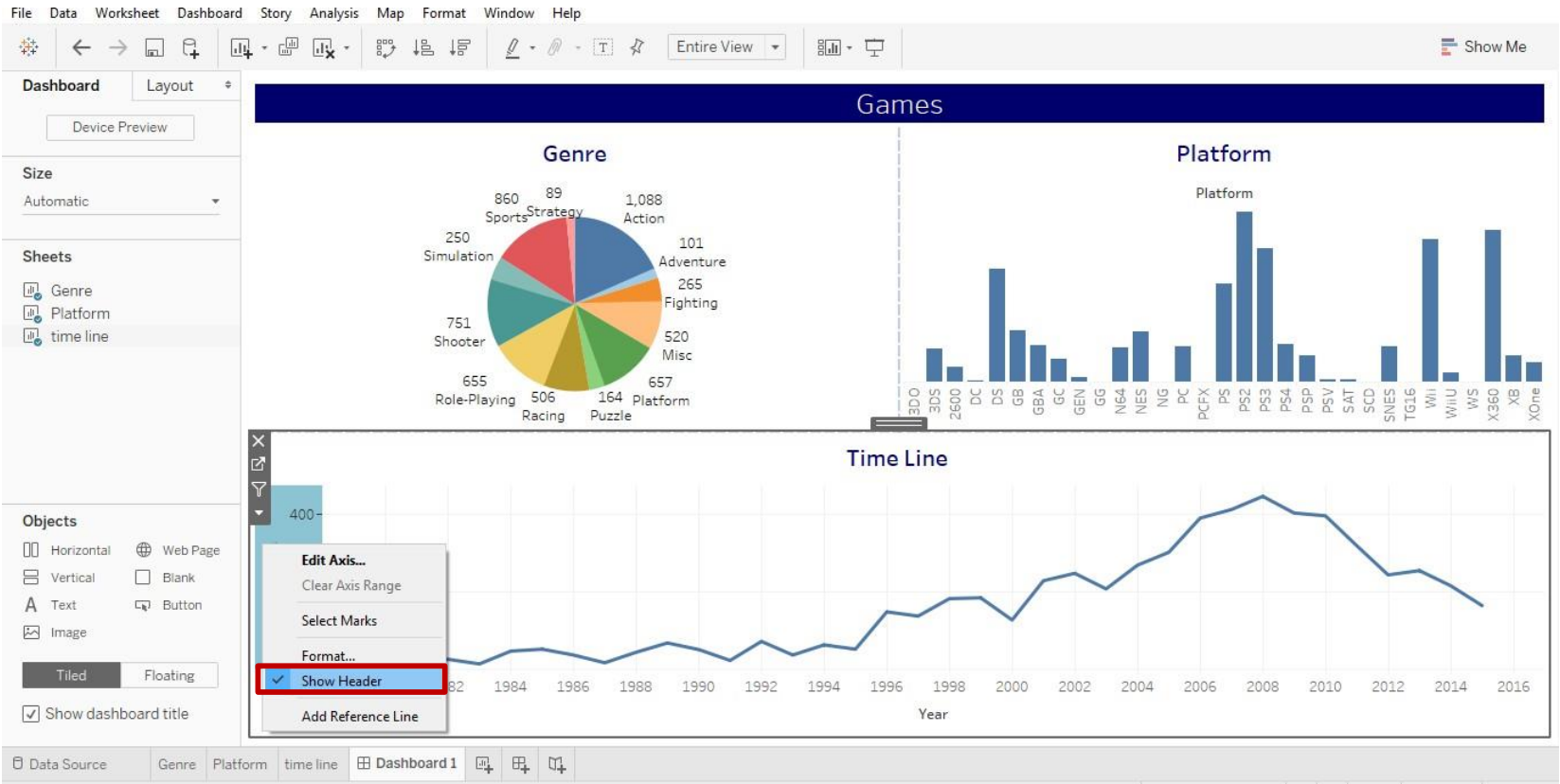
- Right click to an empty area of **Platform Sheet**
- Select *Format*



Bütün hüquqlar qorunur.

Complex Design Tools

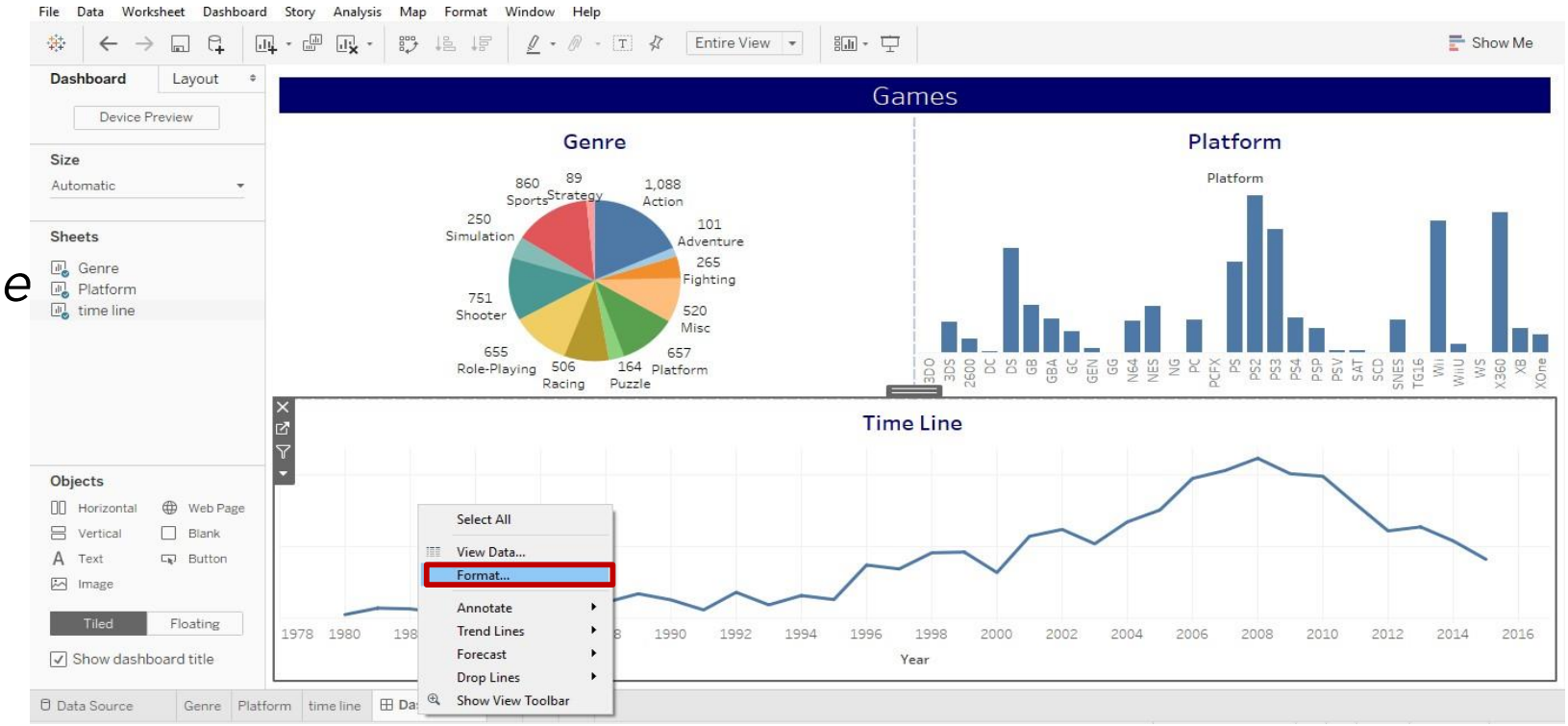
- Right Click to **axis**
- Select **Show Header**



Bütün hüquqlar qorunur.

Complex Design Tools

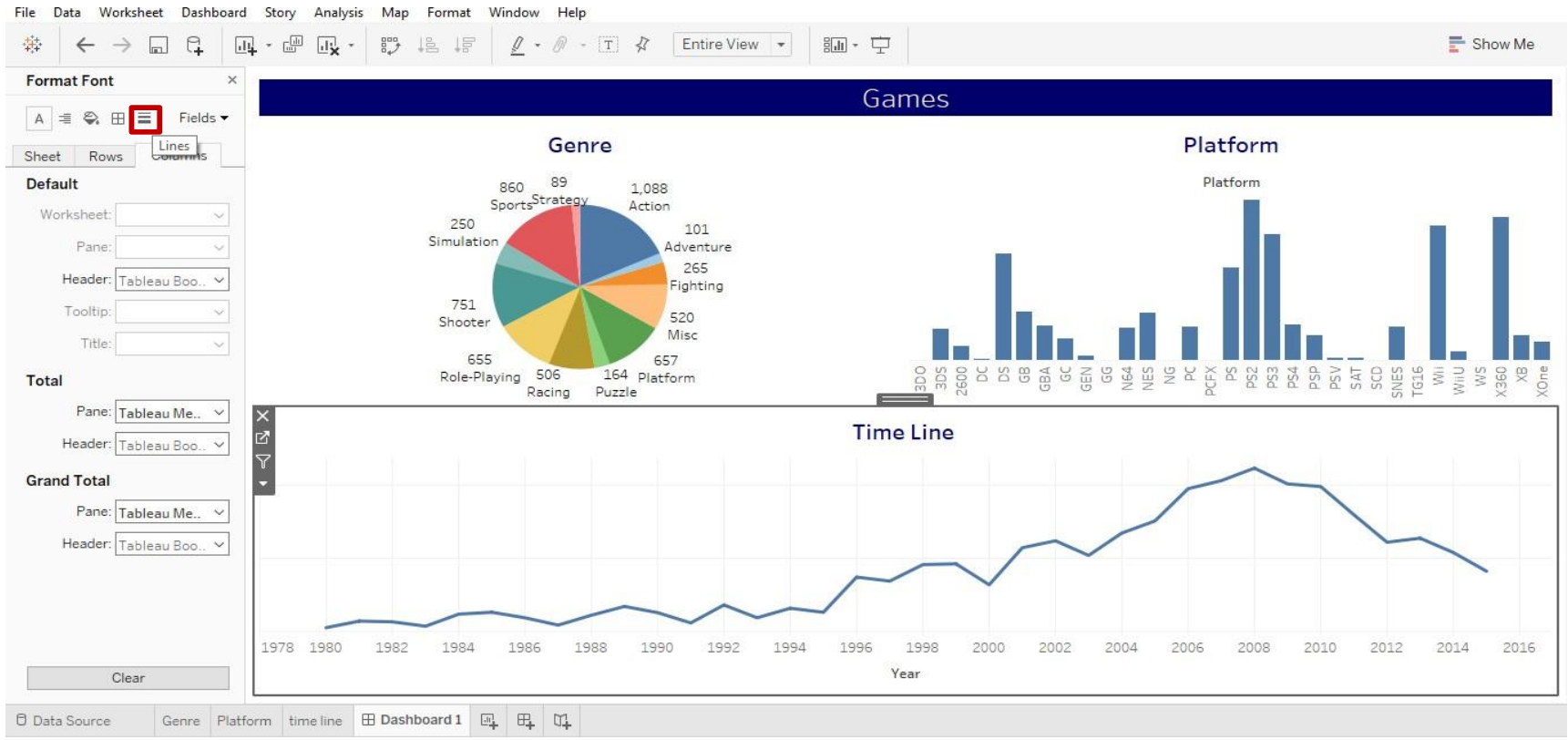
- Right Click to *Time Line*
- Select **Format**



Bütün hüquqlar qorunur.

Complex Design Tools

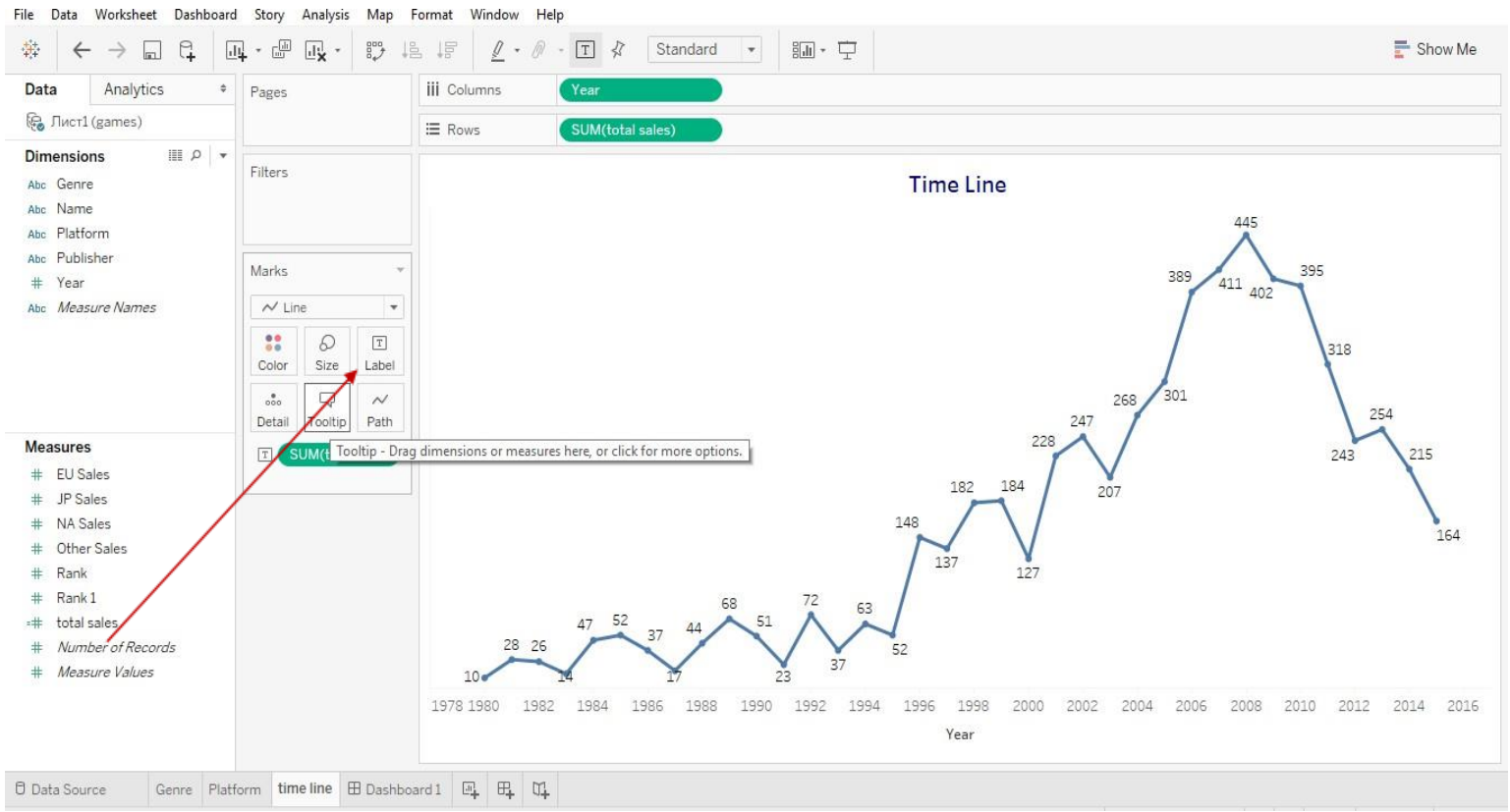
- Select **Lines**
- Select **Sheet**
- *None* for Grid Lines



Bütün hüquqlar qorunur.

Complex Design Tools

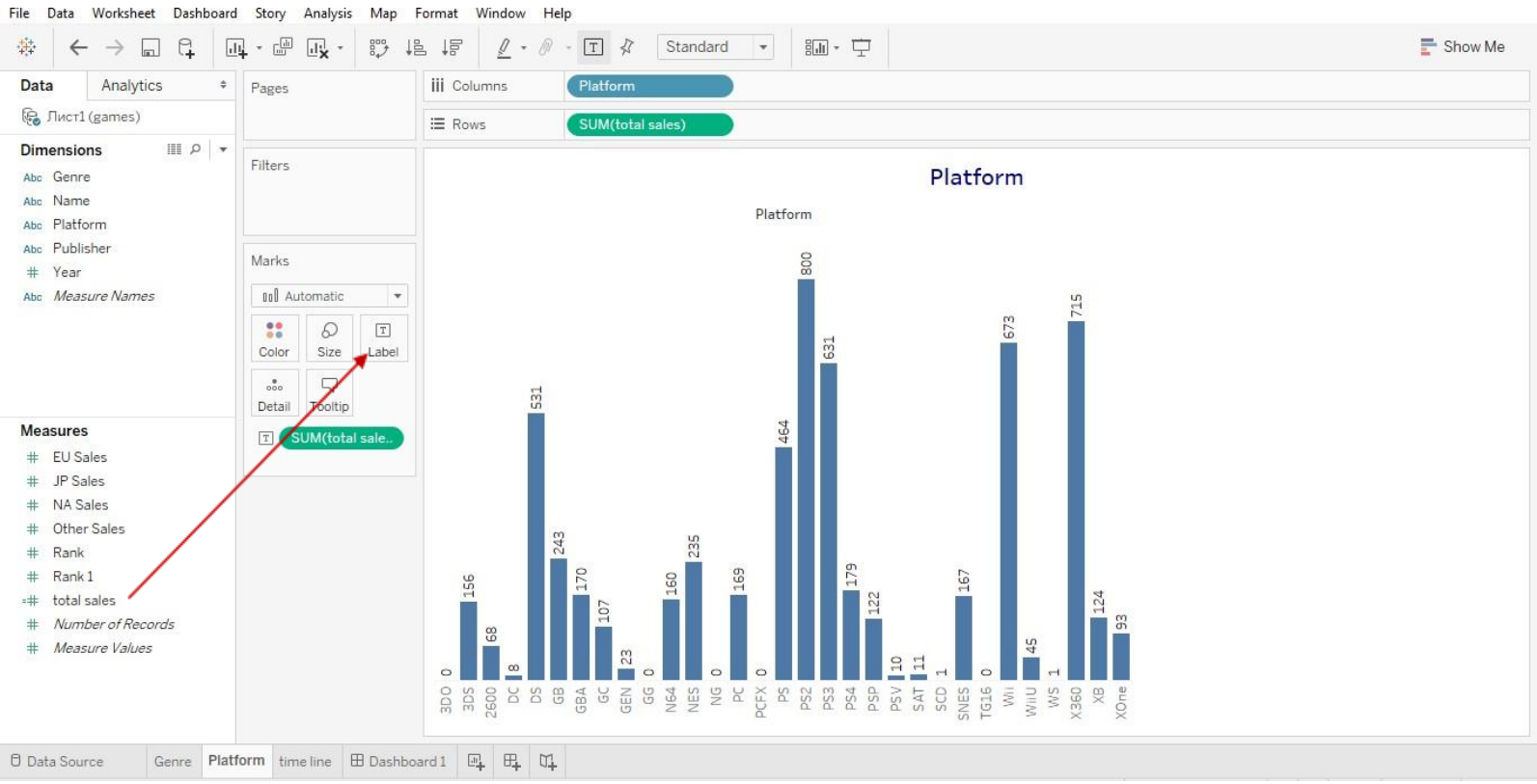
- Add **total sales** to *Label* for time line sheet



Bütün hüquqlar qorunur.

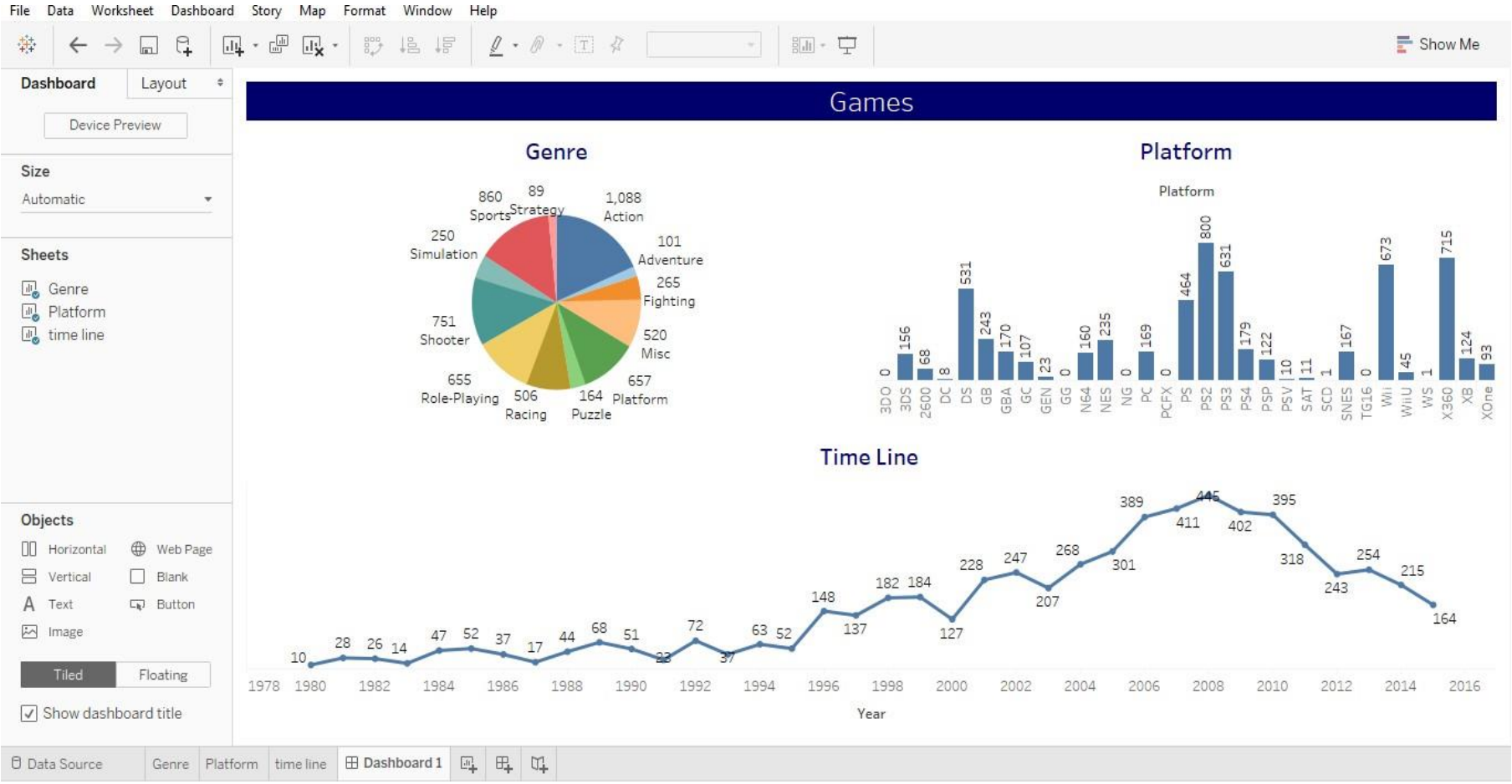
Complex Design Tools

- Add **total sales** to *Label* for **Platform sheet**



Bütün hüquqlar qorunur.

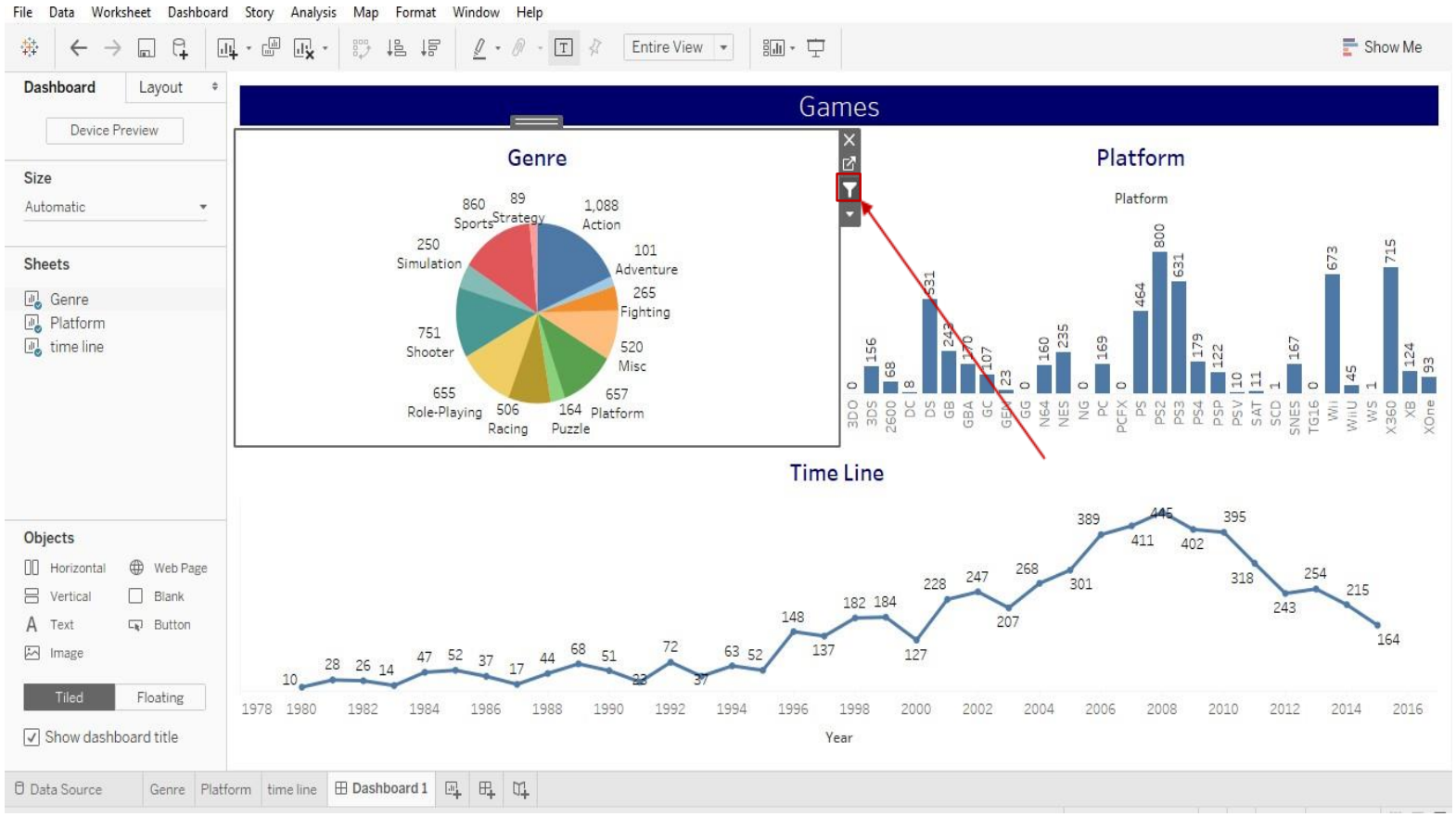
Complex Design Tools



Bütün hüquqlar qorunur.

Complex Design Tools

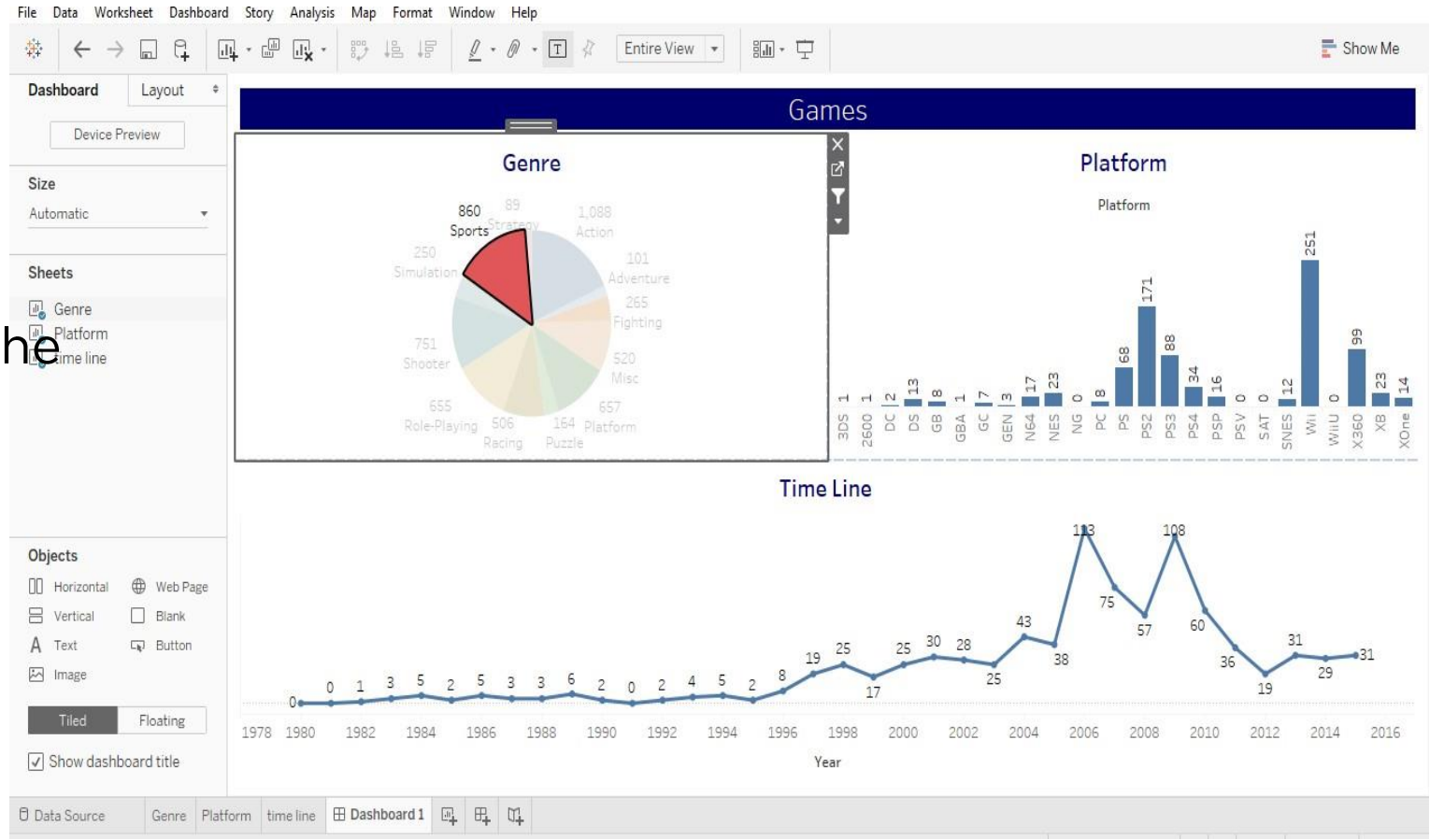
- To Add Filter actions
- Right click to the highlighted section



Bütün hüquqlar qorunur.

Complex Design Tools

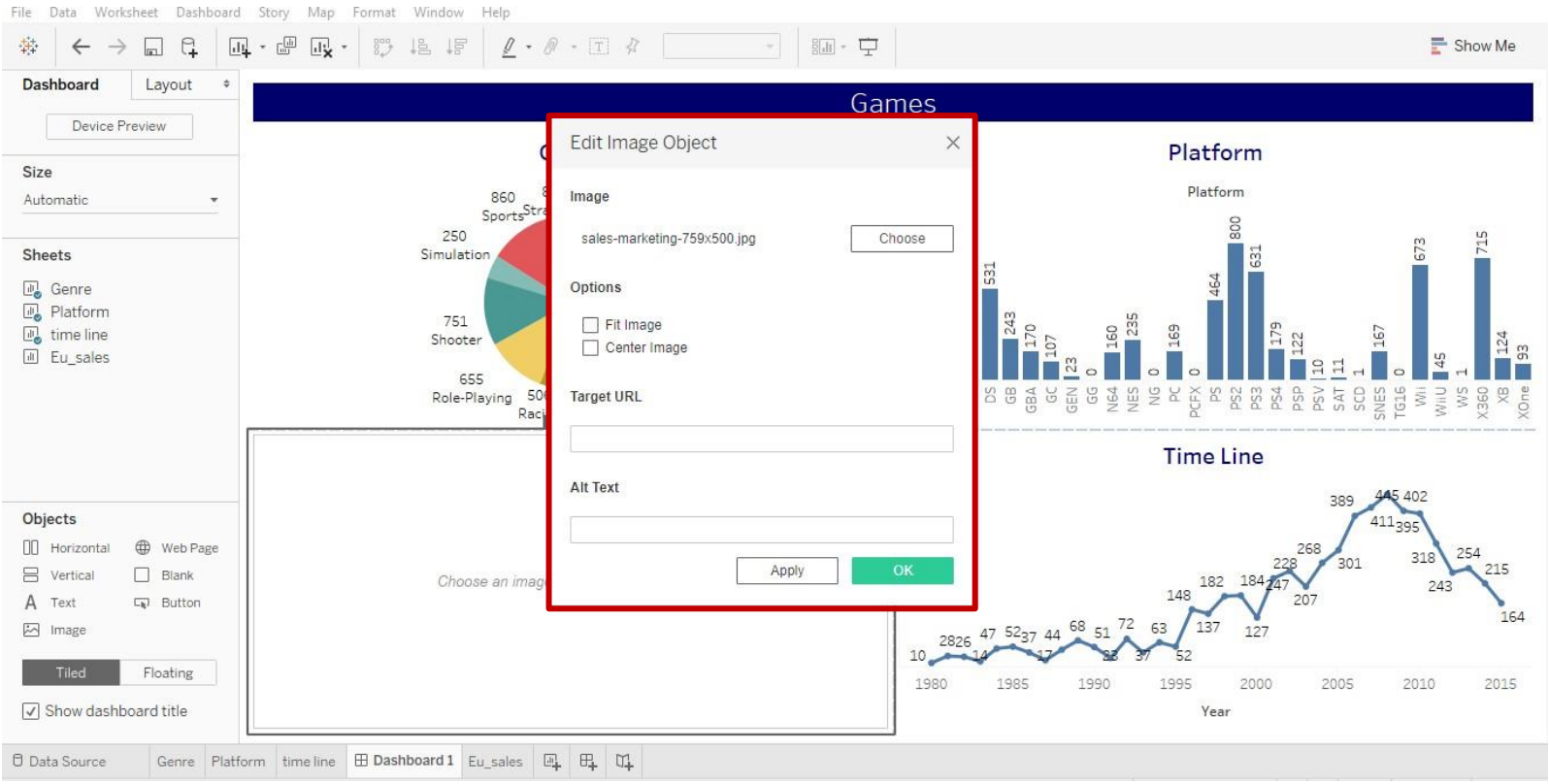
- **Genre Pie Chart** now plays the main role and other sections change when you choose the **specific pie** of the Pie Chart



Bütün hüquqlar qorunur.

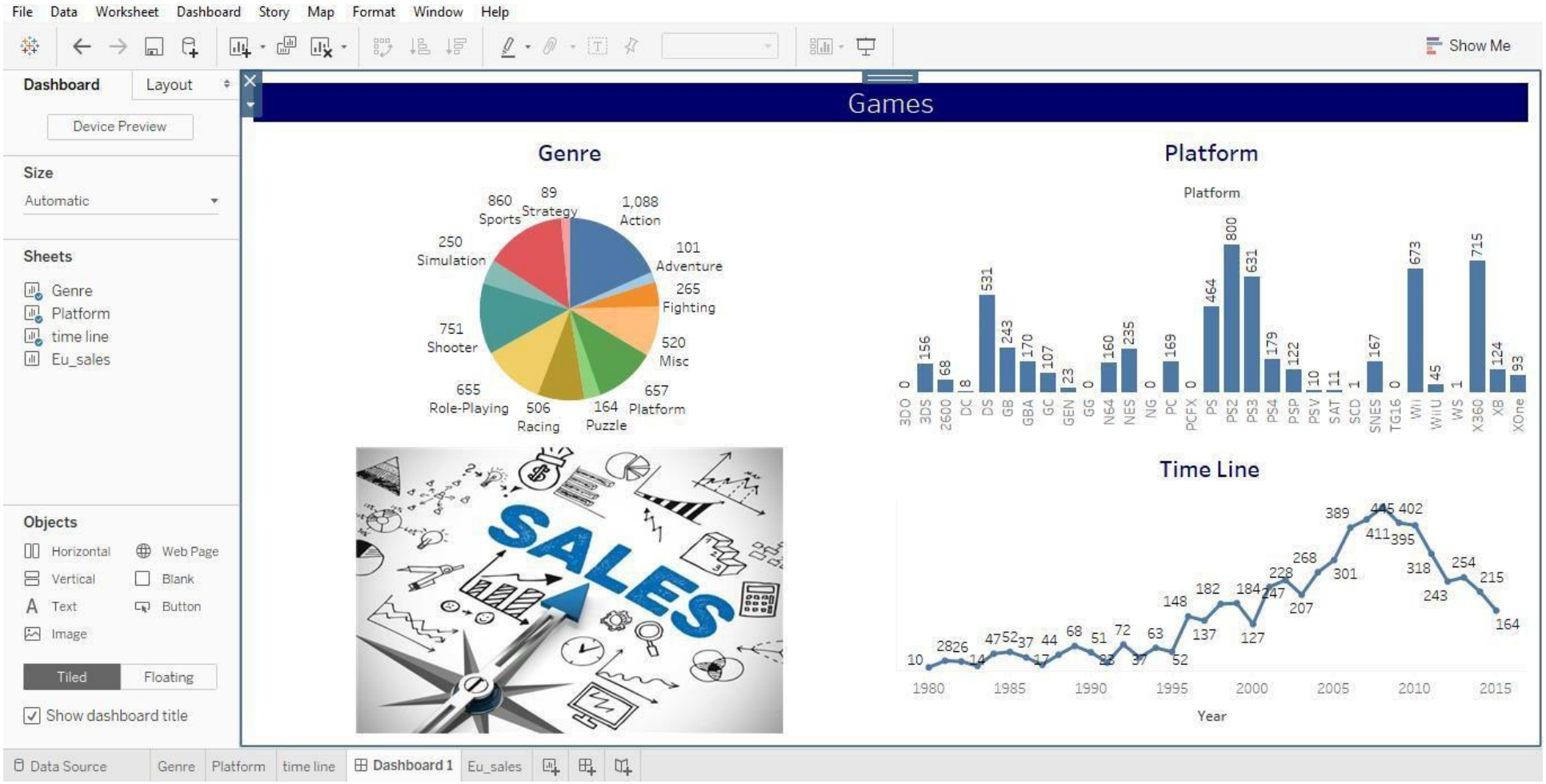
Complex Design Tools

- From **Objects** drag Image to dashboard
- Choose **Image**
- Select *Fit Image* and *Center Image*



Bütün hüquqlar qorunur.

Complex Design Tools



Bütün hüquqlar qorunur.

Thank You!

Data Science Academy