

INSTANT ANALYTICS

Tableau introduced this feature in version 9.

This feature allows the analytic object to update based on the marks selected in the view.

Assume that we have a **Scatter Plot** of **Sales Vs Profit** broken down by **Product Names**. We add a **Linear Trend Line**. Let us say that we want to see the trend of only for some Products. This can be achieved by selecting the required marks. With the newly selected marks we observe that the trend line is **replotted** for the **selected data points**.

This works for reference lines, totals, and other analytics objects too.

When we select marks, the analytics object respond to the selection and shows us how the selected group compares to the original population.

The previously plotted analytic objects will be present in the view but are greyed out in the background.

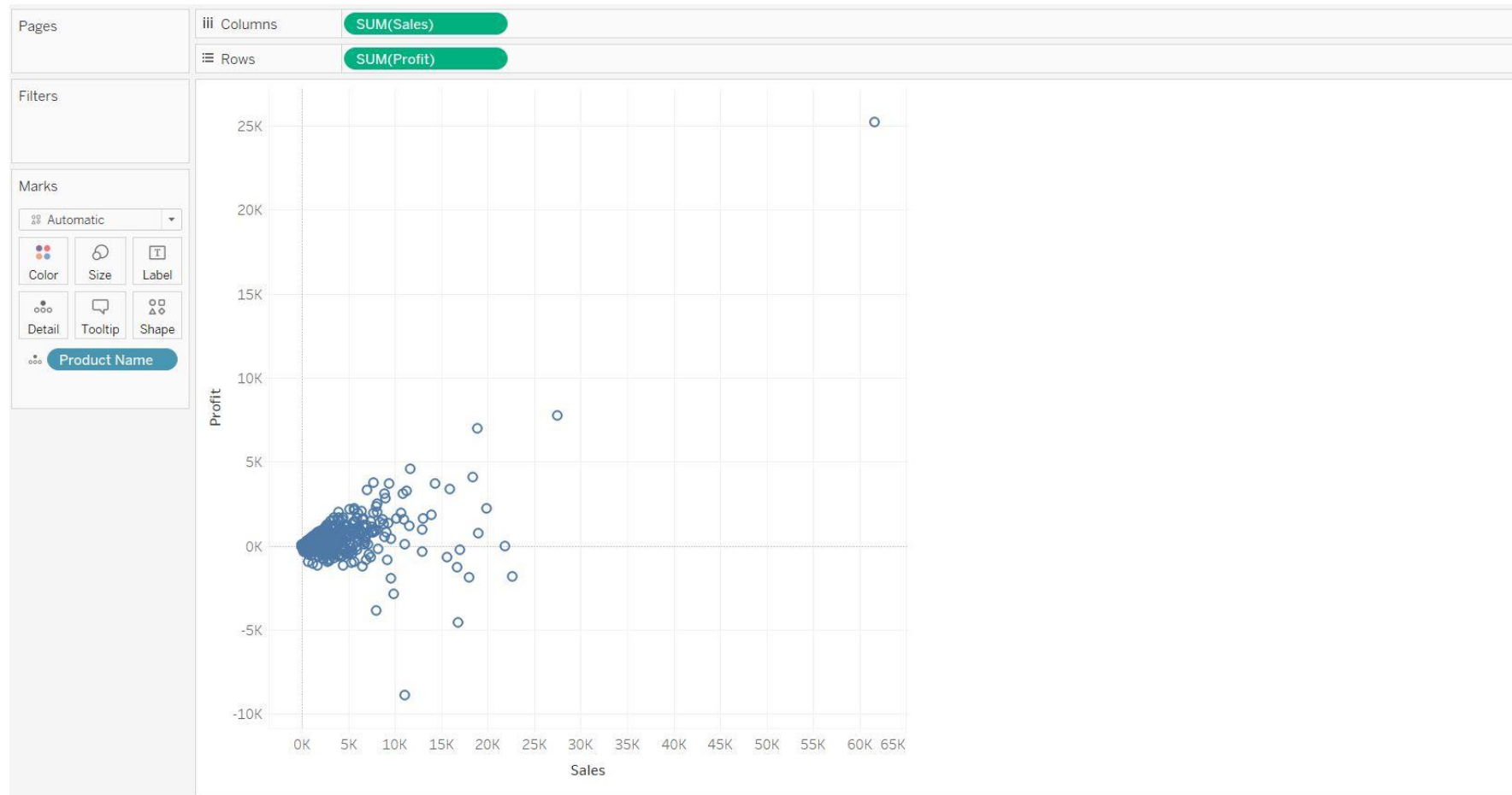
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Step 1: Let us assume that we have the below mentioned Scatter Plot visual

Rows Shelf: Profit

Columns Shelf: Sales

Detail on Marks card: Product Name



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Step 2: From **Analytics** pane drag and drop **Trend Line** to **Linear**



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Step 3: The **Linear Trend Line** is now visible in the view

If we hover over the trend line the line equation will be visible



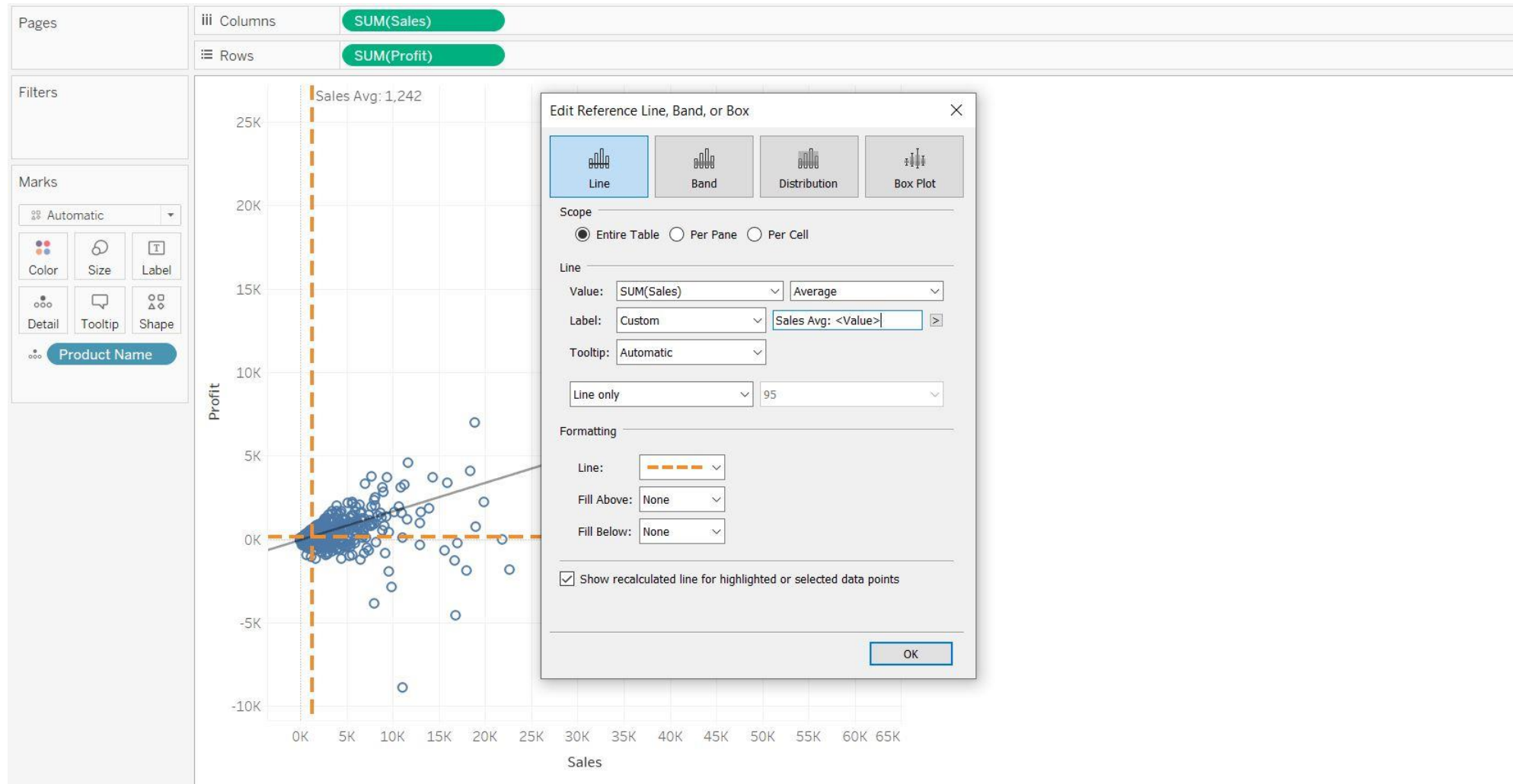
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Step 4: From **Analytics** pane drag and drop **Reference Line** to **Table**
This will add **Reference Lines** for both **Sales** and **Profit**



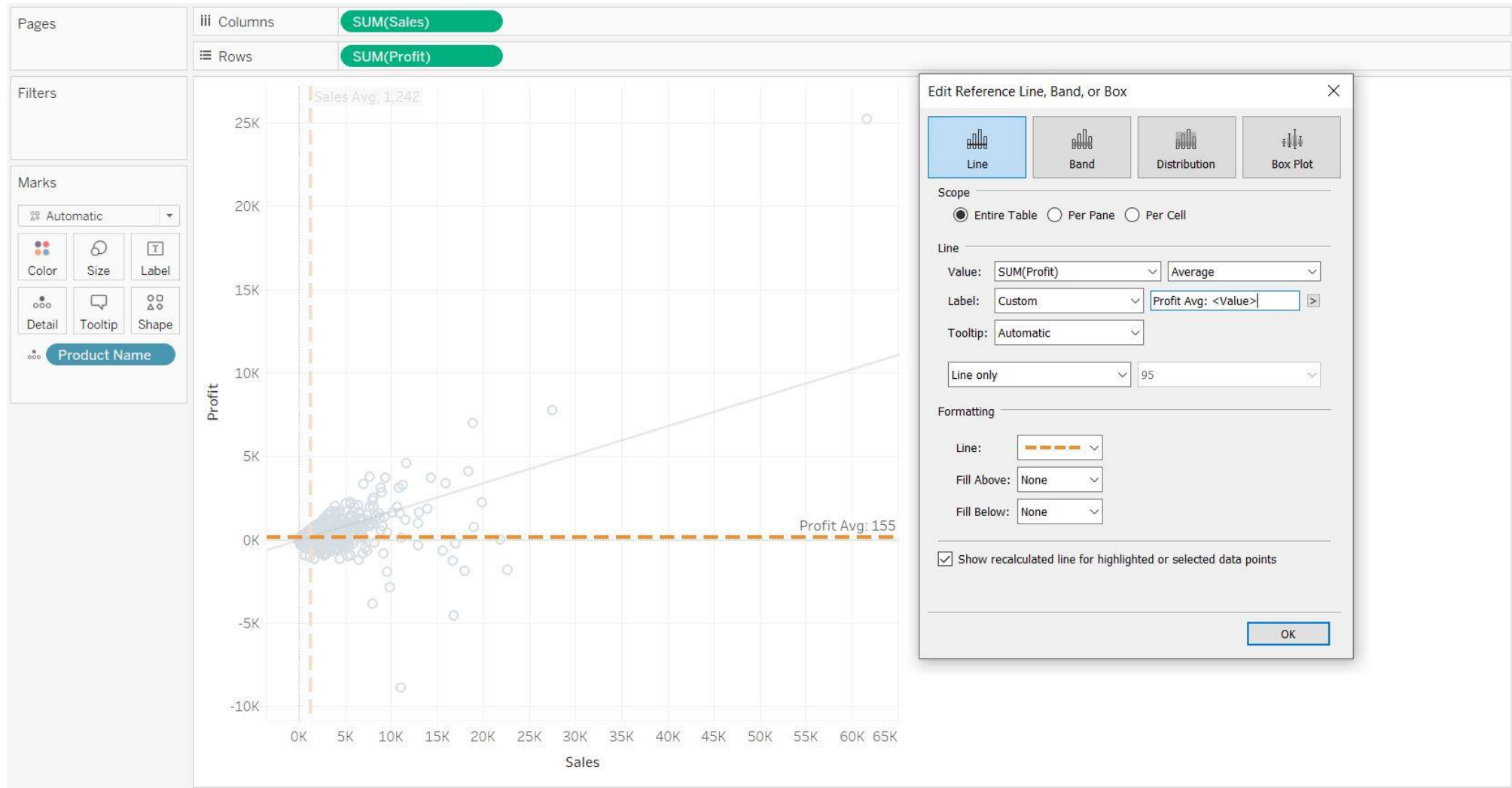
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Step 5: The desired changes can be done in the **Edit Reference Line, Band, or Box** dialog box for the **Sales Reference Line**



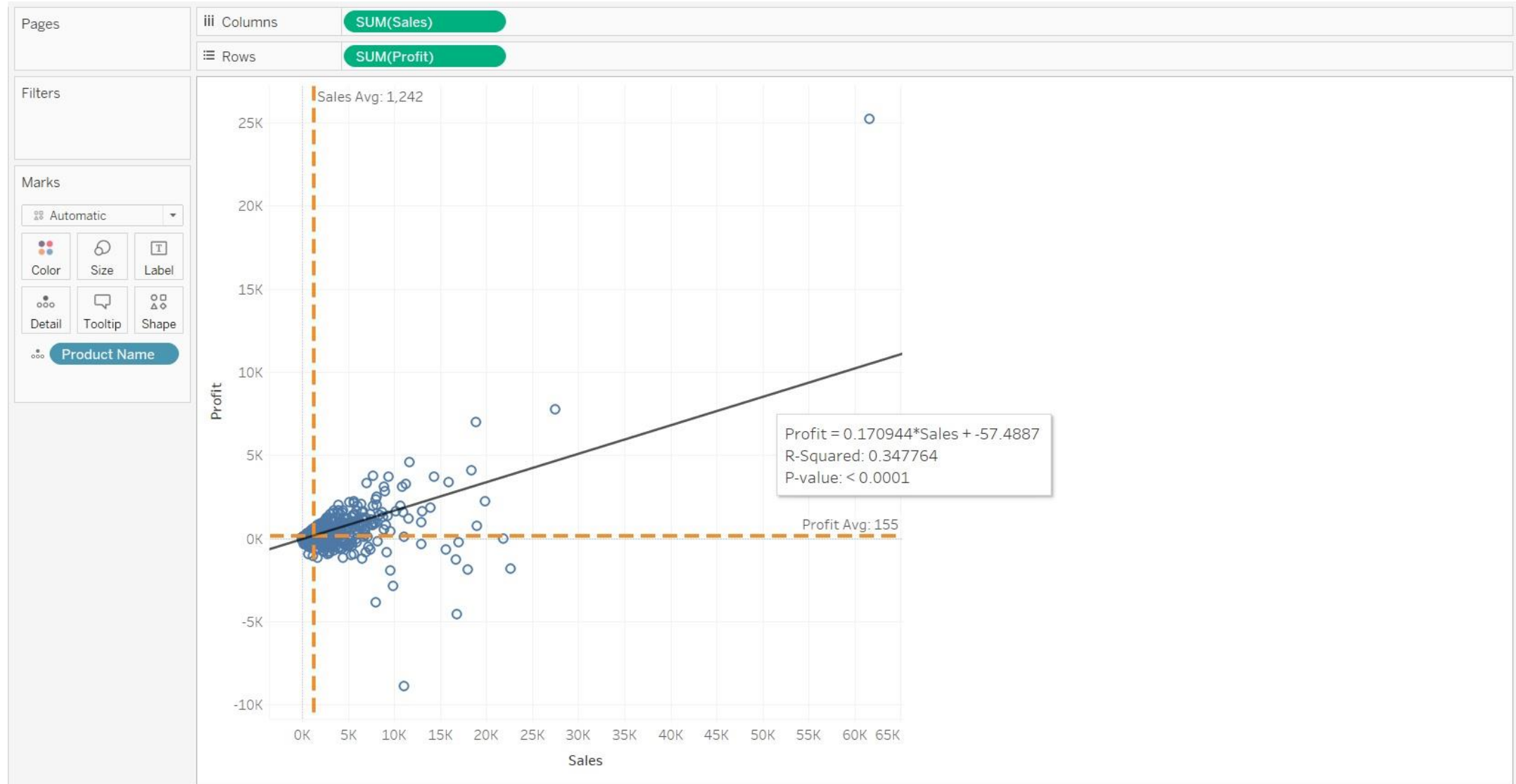
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Step 6: Similarly, the desired changes can be done in the **Edit Reference Line, Band, or Box** dialog box for the **Profit Reference Line**



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Step 7: Now the view shows all Analytic objects along with their values displayed



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Step 8: Select the desired marks



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Step 9: Now the view shows the replotted analytic objects along with updated values



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Step 10: If required we can select the Trend Line, Right-click, Select **Edit All Trend Lines**



NOTE: This is to be done in case we don't want the Trend Line to be replotted based on newly selected marks

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Step 11: In the **Trend Line Options** dialog box, de-select the below mentioned option
Show recalculated line for highlighted or selected data points

Trend Lines Options

Model Type

- ☒ Linear
- ☐ Logarithmic
- ☐ Exponential
- ☐ Power
- ☐ Polynomial Degree: 3

Factors

Build separate trend lines based on the following dimensions:

Options

- ☒ Show tooltips
- ☐ Show confidence bands
- ☒ Allow a trend line per color
- ☐ Show recalculated line for highlighted or selected data points
- ☐ Force y-intercept to zero

OK

NOTE: We can carry out this configuration even for other Analytic objects e.g: Reference Lines etc.

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Step 12: If we select the same marks, it is observed that only the **Reference Lines** are replotted. The **Trend Line** is not replotted.

