WHY DOES A SCATTER PLOT BY DEFAULT HAVE ONLY 1 MARK

If we place one **measure** on the **Rows** shelf e.g., Profit and another **measure** on the **Columns** shelf e.g., **Sale**s, we are by default asking Tableau to compare two numerical values.

Typically, Tableau chooses a **Scatter Plot** as the default visualization in such cases.
The initial view will most likely be single mark, showing the sum for all values for the two measures. We would need to increase the level of detail in the view

Given below are the possible methods of adding detail to a scatter plot:

Method-I: We can add **dimensions** to the view. **Marks** card, **Rows** Shelf, **Columns** Shelf etc.
Method-II: We can **disaggregate** the data i.e., **Clear the Analysis** > **Aggregate Measures** option

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STEP 1: Select the **Profit** measure in the **Data grid**, Press Ctrl and select **Sales** measure

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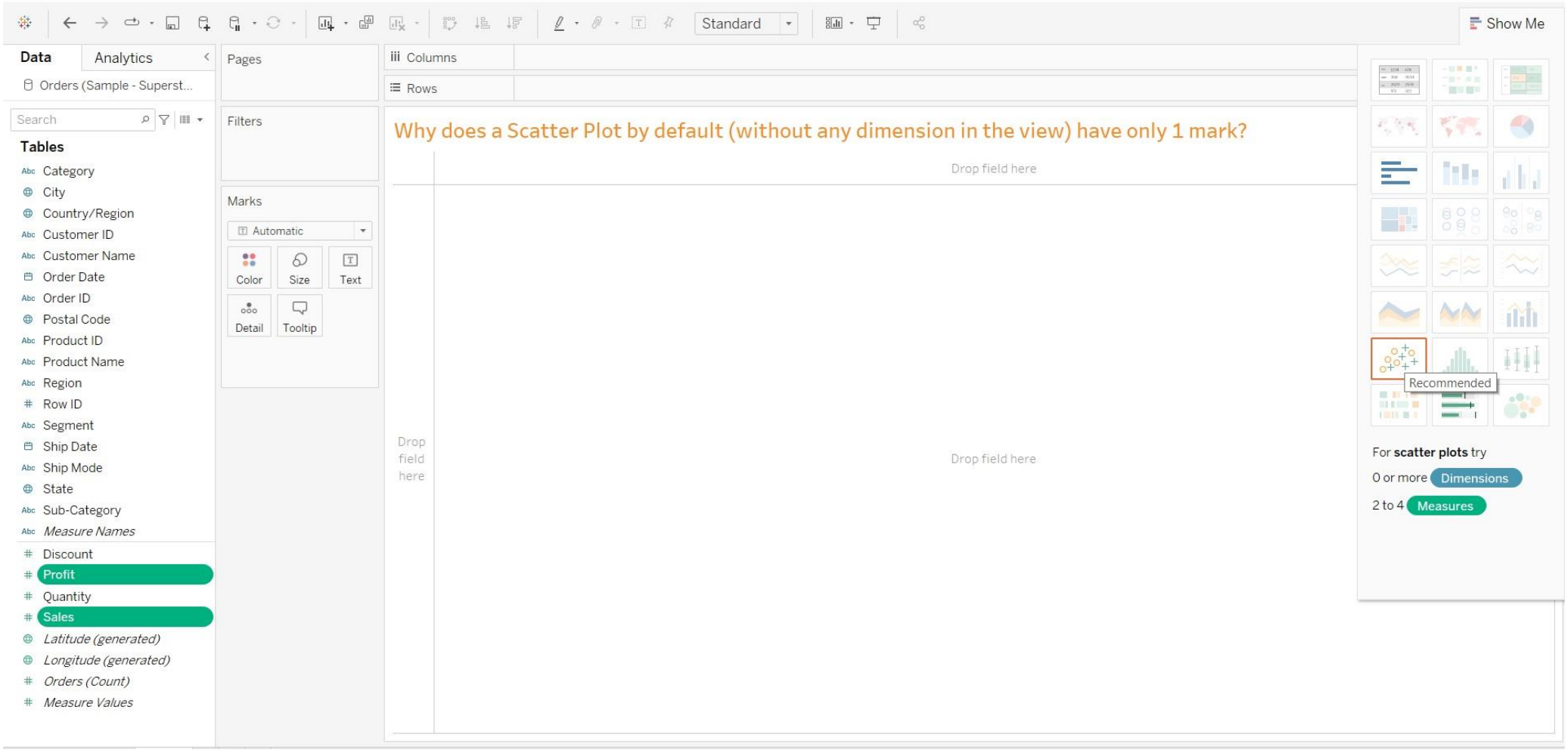
STEP 2: Under **Show Me** the **scatter plots** is the **Recommended** Viz
Select the **scatter plots**



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STEP 3: By default, whenever a **measure** is brought into a **view** it is always **aggregated** hence each **measure** will only **1 value**. In this case since we have **Sales** on the **X axis** and **Profit** on the **Y axis**.
We get only **1 mark** as the **intersection** of **Sales** and **Profit**

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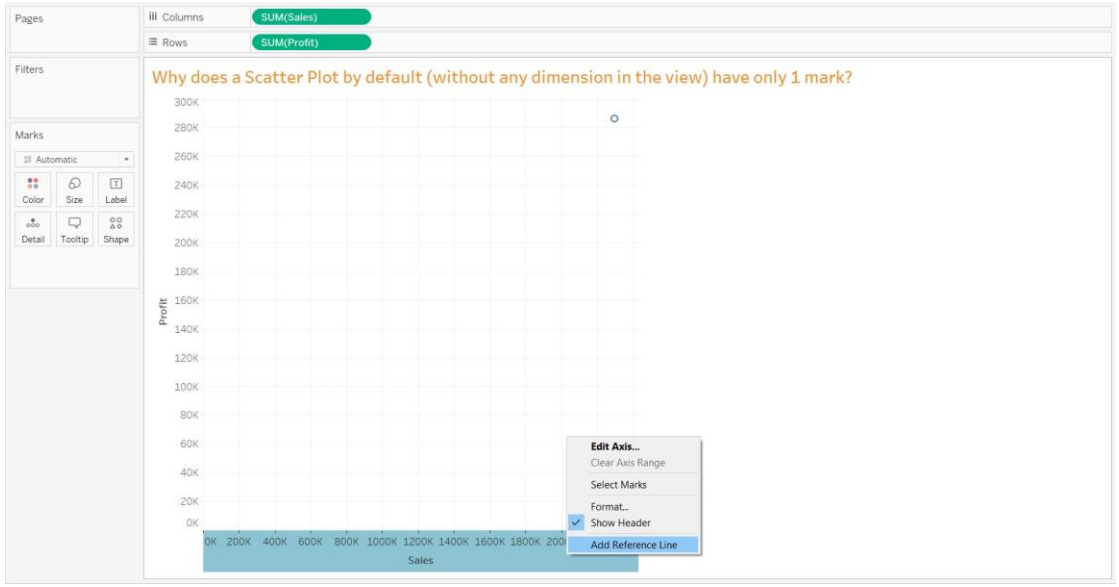
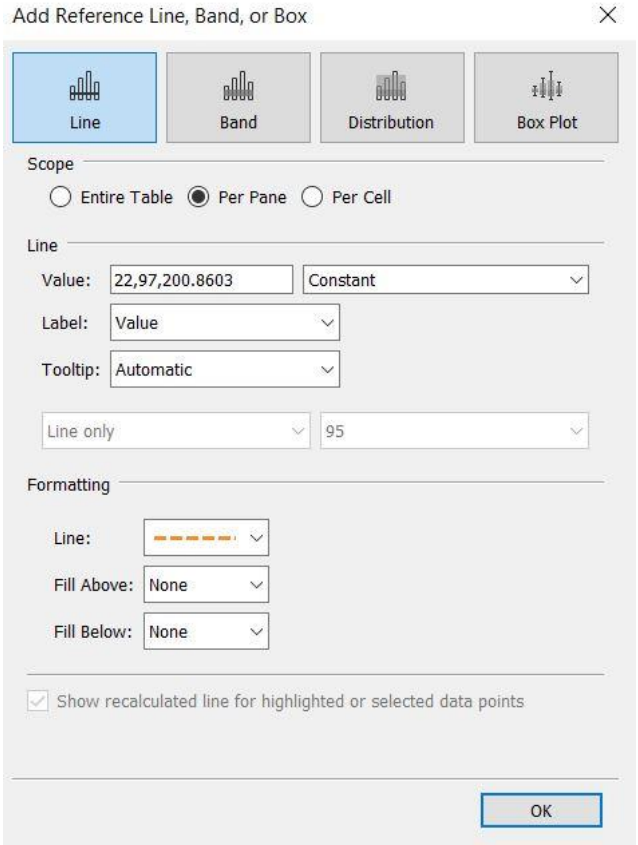
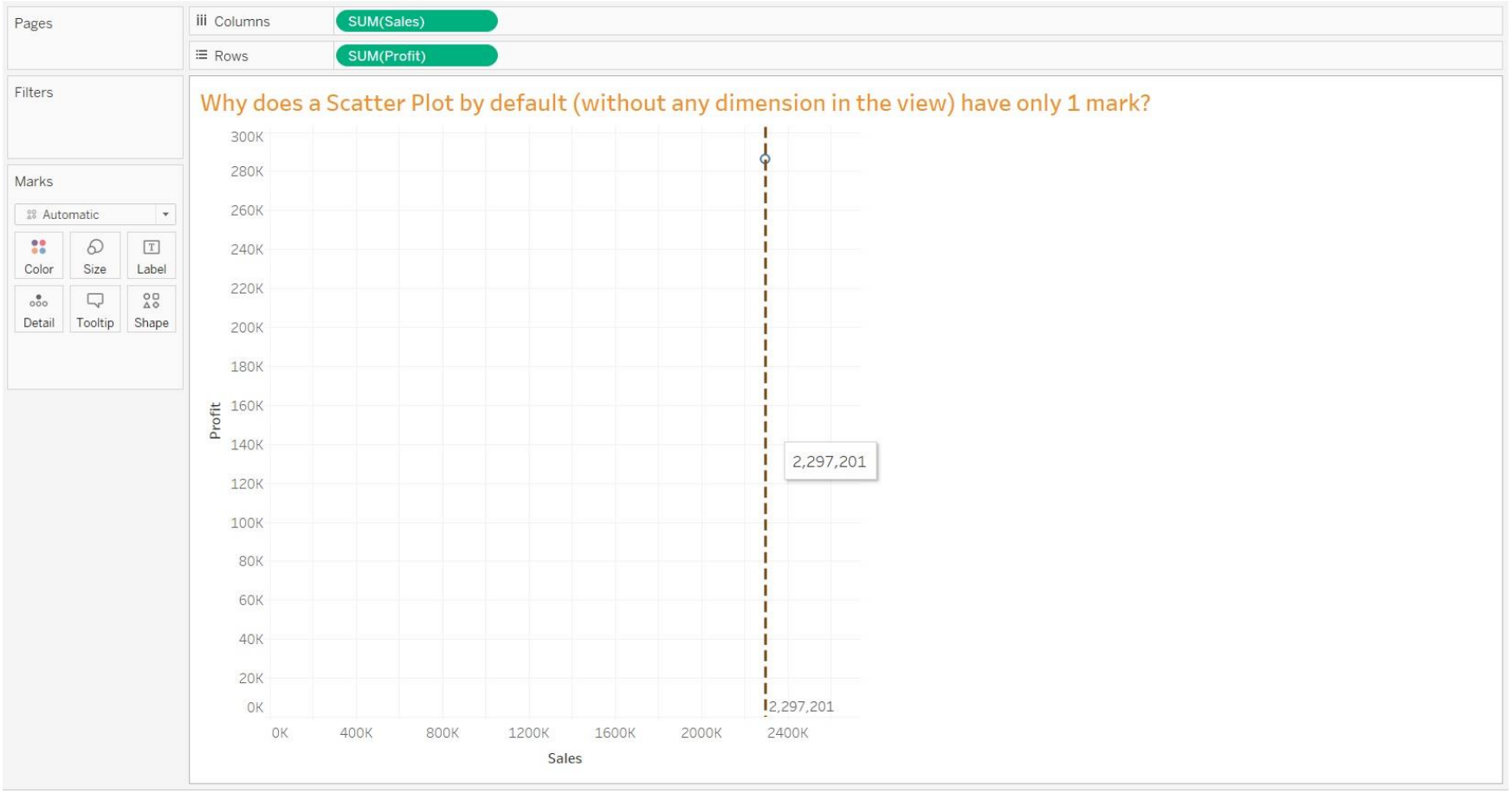
STEP 4: We can add a Reference Line, Right-click Sales Axis,
Click on **Add a Reference Line**
If required, we can carry out the various formatting options





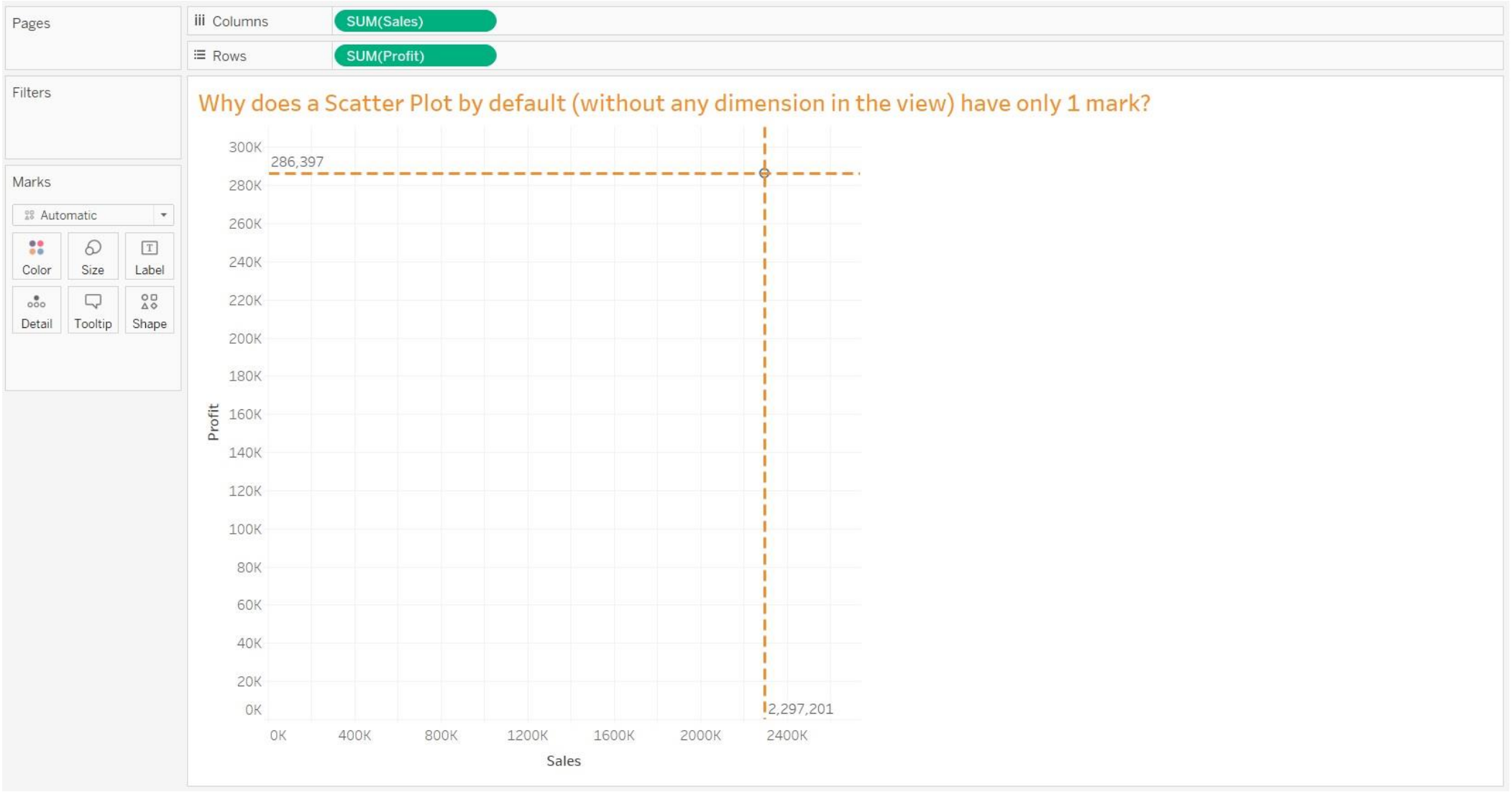
WHY DOES A SCATTER PLOT BY DEFAULT HAVE ONLY 1 MARK

STEP 5: The **Reference Line** is added for **Sales**



WHY DOES A SCATTER PLOT BY DEFAULT HAVE ONLY 1 MARK

STEP 6: Similarly, a **Reference Line** can be added for **Profit**



WHY DOES A SCATTER PLOT BY DEFAULT HAVE ONLY 1 MARK

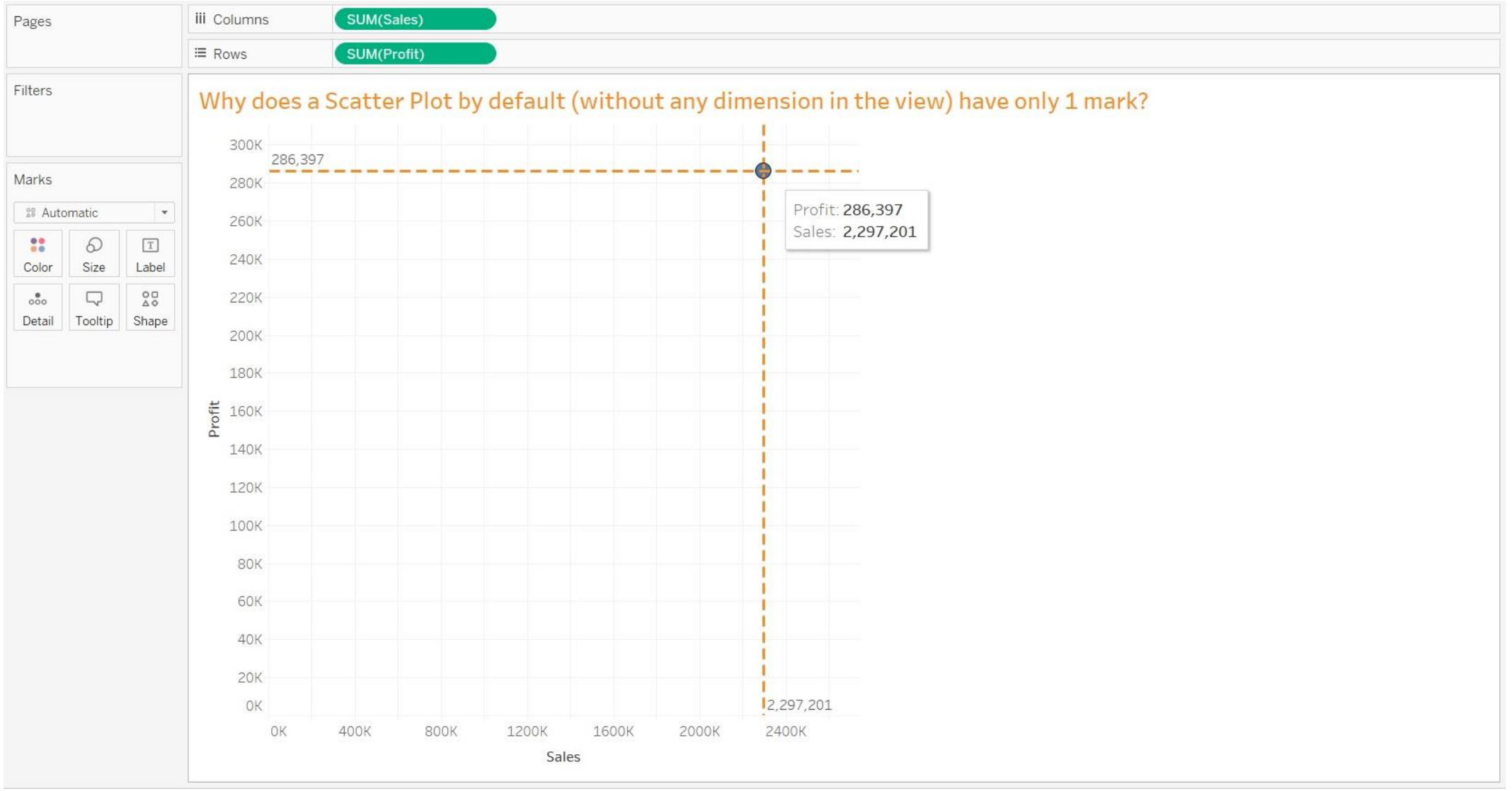
STEP 7: Increase the **Size** of the mark using the Slider

WHY DOES A SCATTER PLOT BY DEFAULT HAVE ONLY 1 MARK

STEP 8: Change the **Shape** of the mark to a filled circle

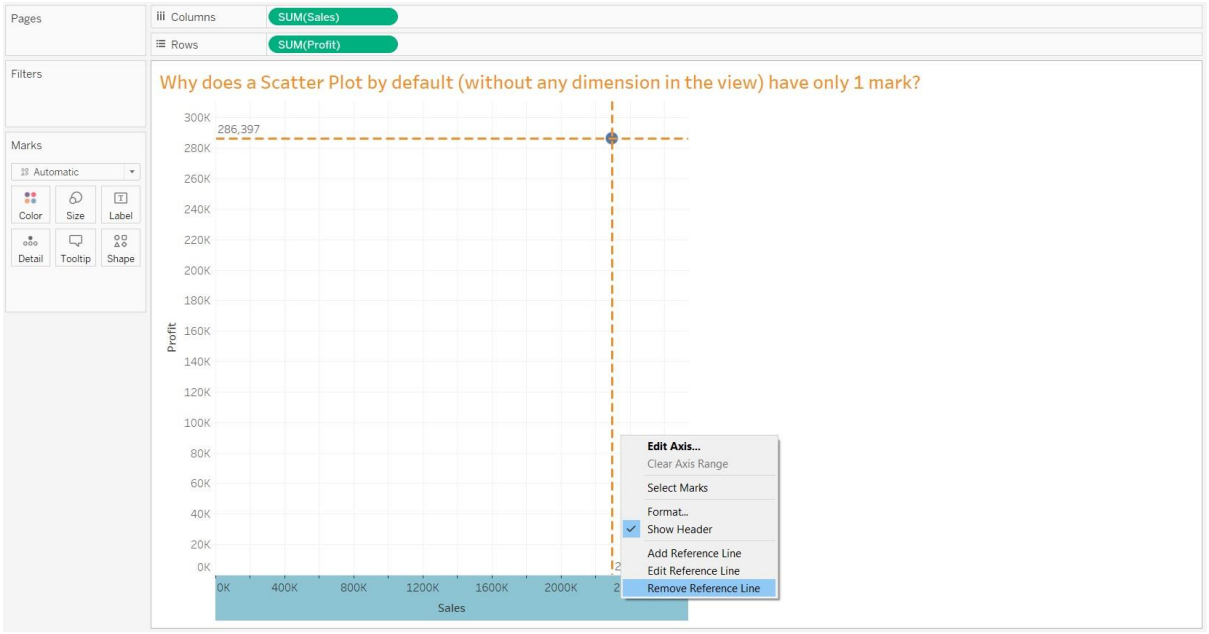
WHY DOES A SCATTER PLOT BY DEFAULT HAVE ONLY 1 MARK

STEP 9: Now it is very clear that the 1 mark is the intersection of Sales and Profit



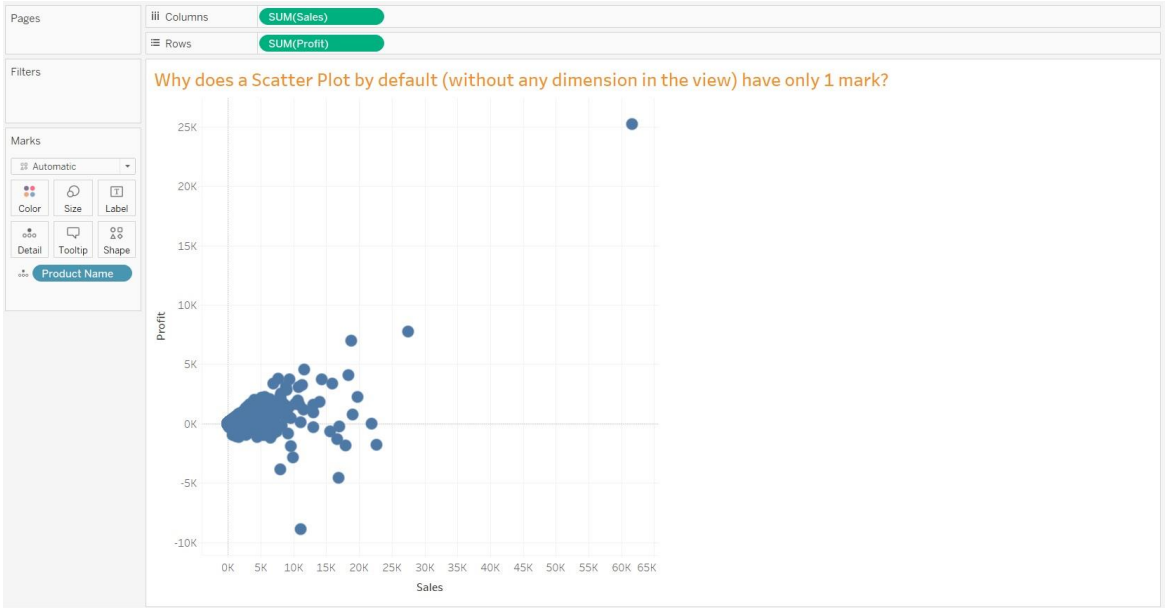
WHY DOES A SCATTER PLOT BY DEFAULT HAVE ONLY 1 MARK

STEP 10: Remove the Reference Lines, Right-click the axis,
Click on **Remove Reference Line**



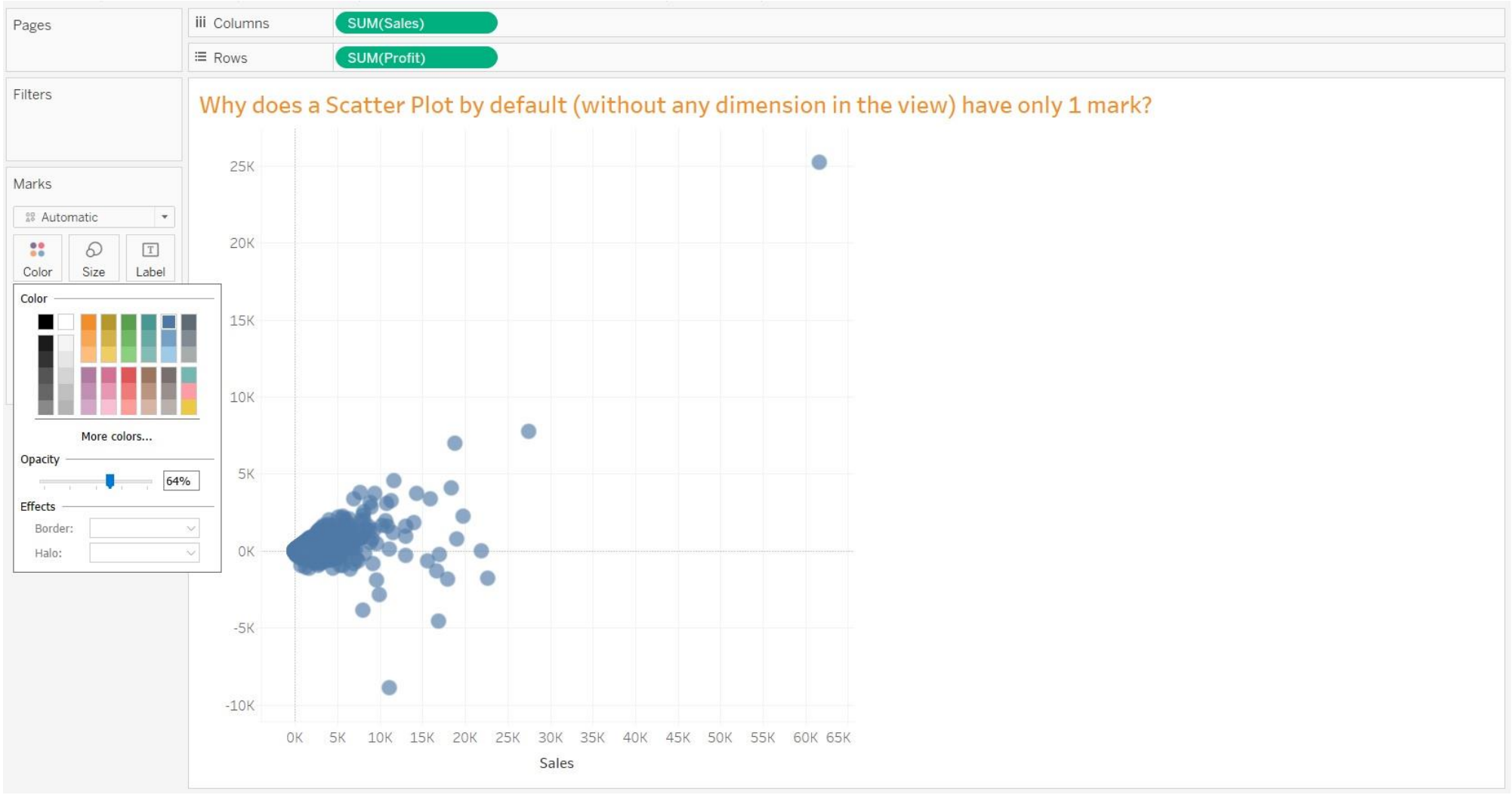
WHY DOES A SCATTER PLOT BY DEFAULT HAVE ONLY 1 MARK

STEP 11: One way of adding detail to the scatter plot is to add a dimension
Drag and drop **Product Name** to **Detail** on **Marks** card



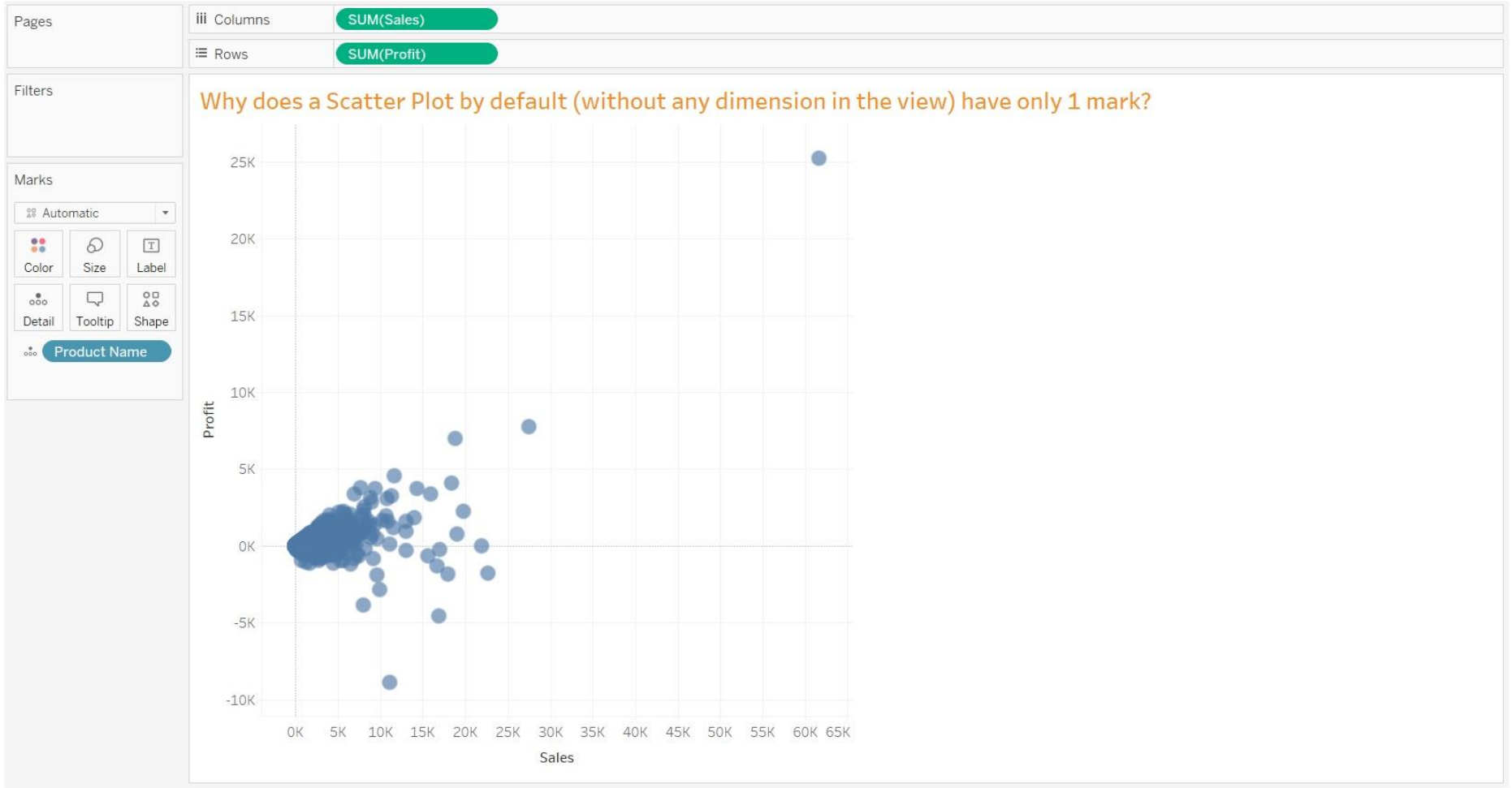
WHY DOES A SCATTER PLOT BY DEFAULT HAVE ONLY 1 MARK

STEP 12: If required we can reduce the **Opacity** of the marks by using the Slider



WHY DOES A SCATTER PLOT BY DEFAULT HAVE ONLY 1 MARK

STEP 13: This is the final **Scatter Plot** with **Product Name** on **Detail**



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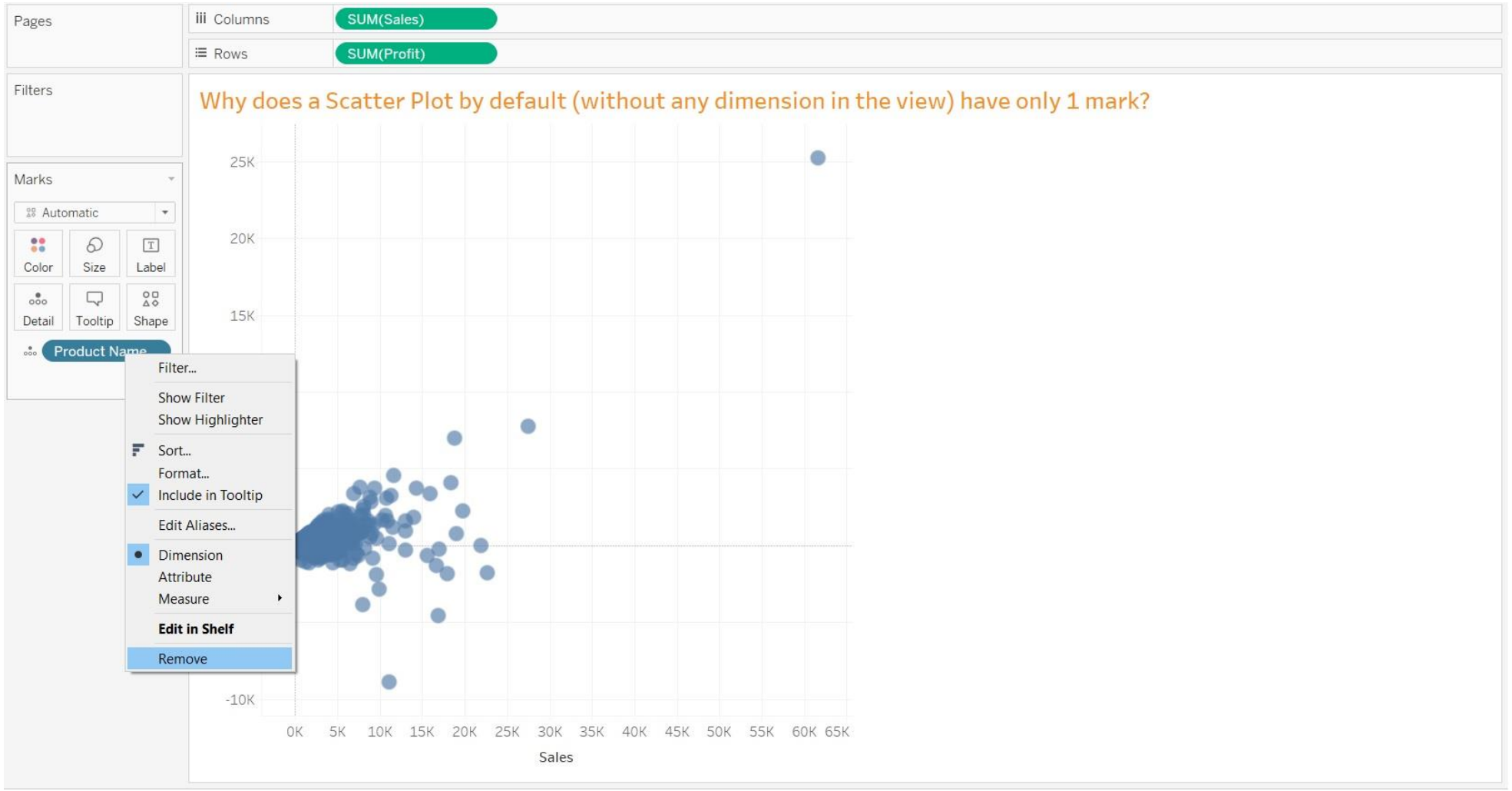
STEP 14: Right-click Product Name, Select **Remove**



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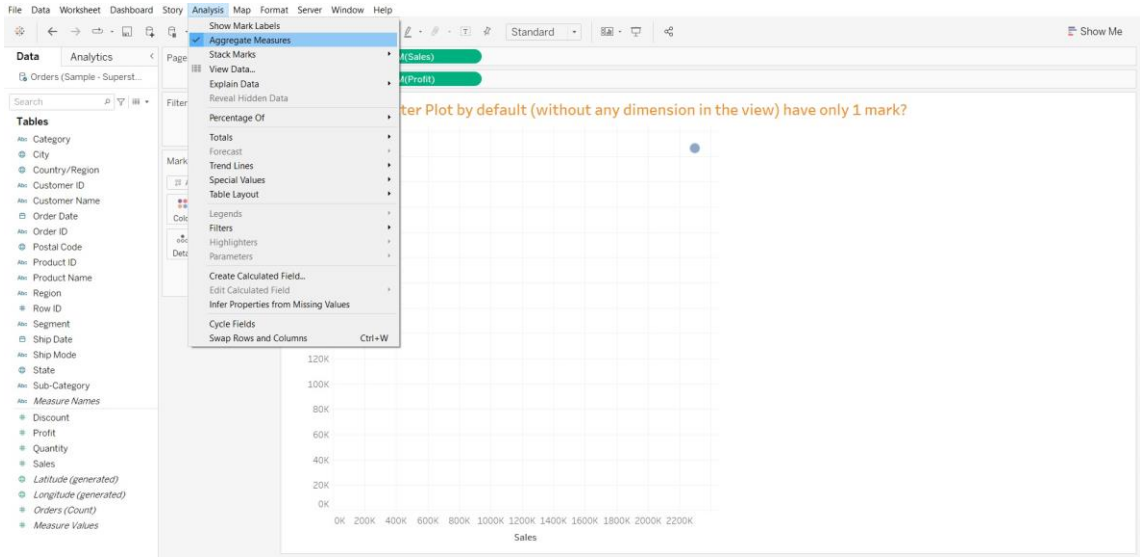
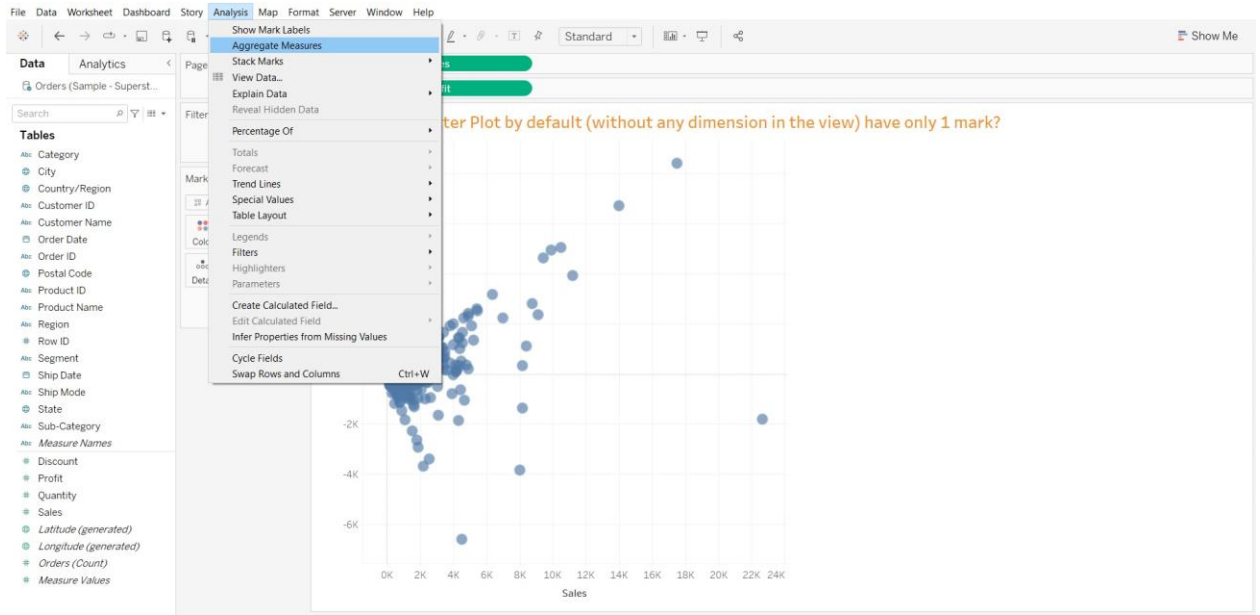
STEP 15: Another way of adding detail to the **scatter plot** it is to **disaggregate** the **measure**
Clear the **Analysis** > **Aggregate Measures** option (by default it is selected)





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STEP 16: This is the final **Scatter Plot** with the **measures disaggregated**

The status bar will show the number of **marks** as **9964** (i.e., the most granular view possible for this data set)