**IF Function in Tableau**

Last Updated : 24 May, 2024

In this article, we will learn about if function and its use in Tableau. For this first look into two terms:

* **Tableau:** Tableau is a very powerful data visualization tool that can be used by data analysts, scientists, statisticians, etc. to visualize the data and get a clear opinion based on the data analysis. Tableau is very famous as it can take in data and produce the required data visualization output in a very short time.
* **IF Function:** Tableau If Function is one of the foremost useful decision-making functions. If the function tests the condition and depending upon the condition result, it’ll return the output.

**How IF function works:**

* It starts with “IF” function evaluating the 1st logical expression corresponding to set/sequence of values and when the logical expression becomes True, it returns the respective specified value as result.
* If the first doesn’t match then it moves to another if i.e ELSEIF and checks the same as for IF.
* If in logical expressions no match is found then the value of default i.e; ELSE return expression is used.

**Syntax of IF Function:**

This function checks the given <expression> and returns the corresponding value as a result. The syntax is :

IF <Expression1> THEN <Statement1>

ELSEIF <Expression2> THEN <Statement2>

ELSEIF <Expression3> THEN <Statement3>

.....

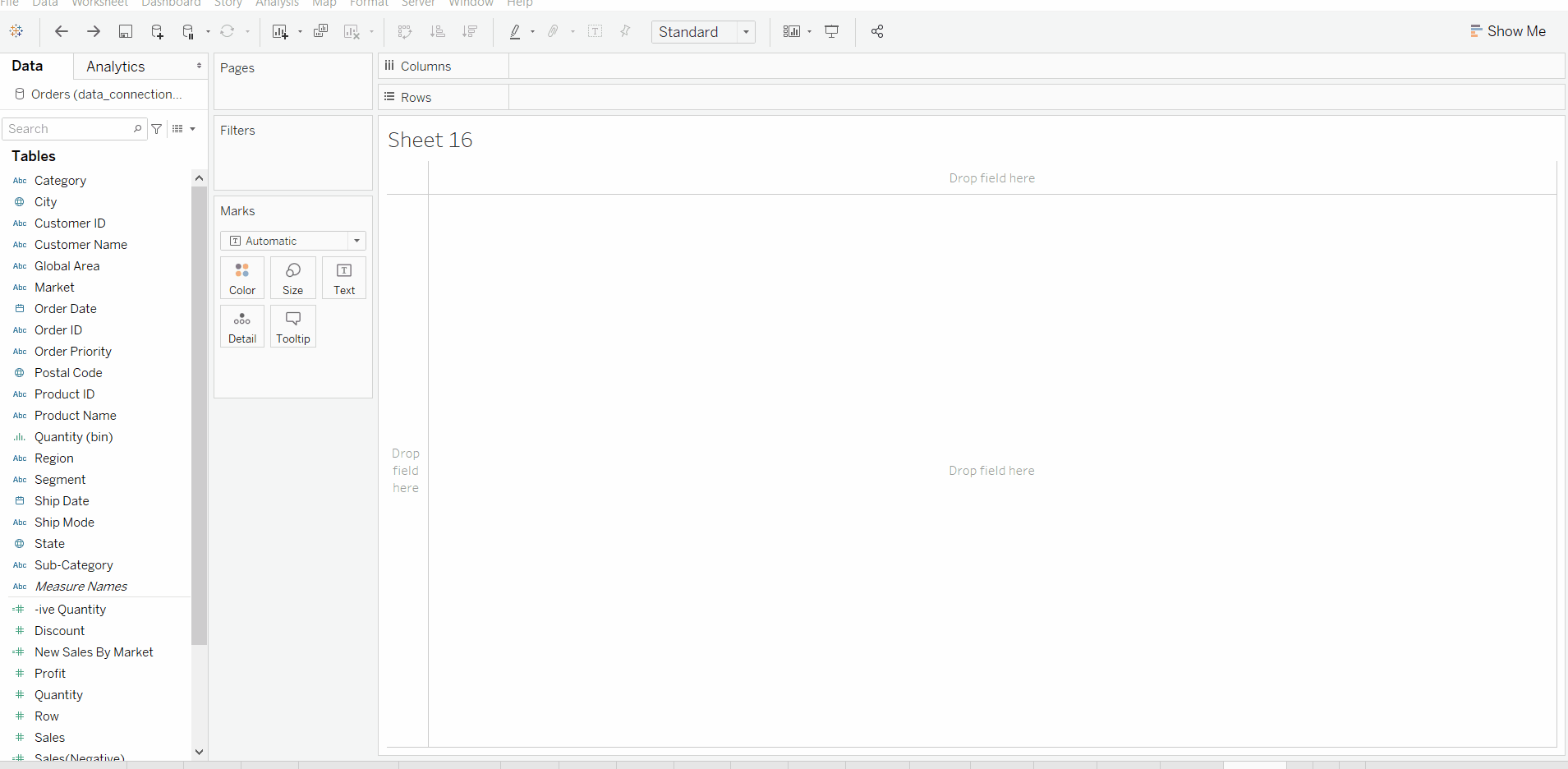
ELSEIF <ExpressionN> THEN <StatementN>

ELSE <Statement>

END

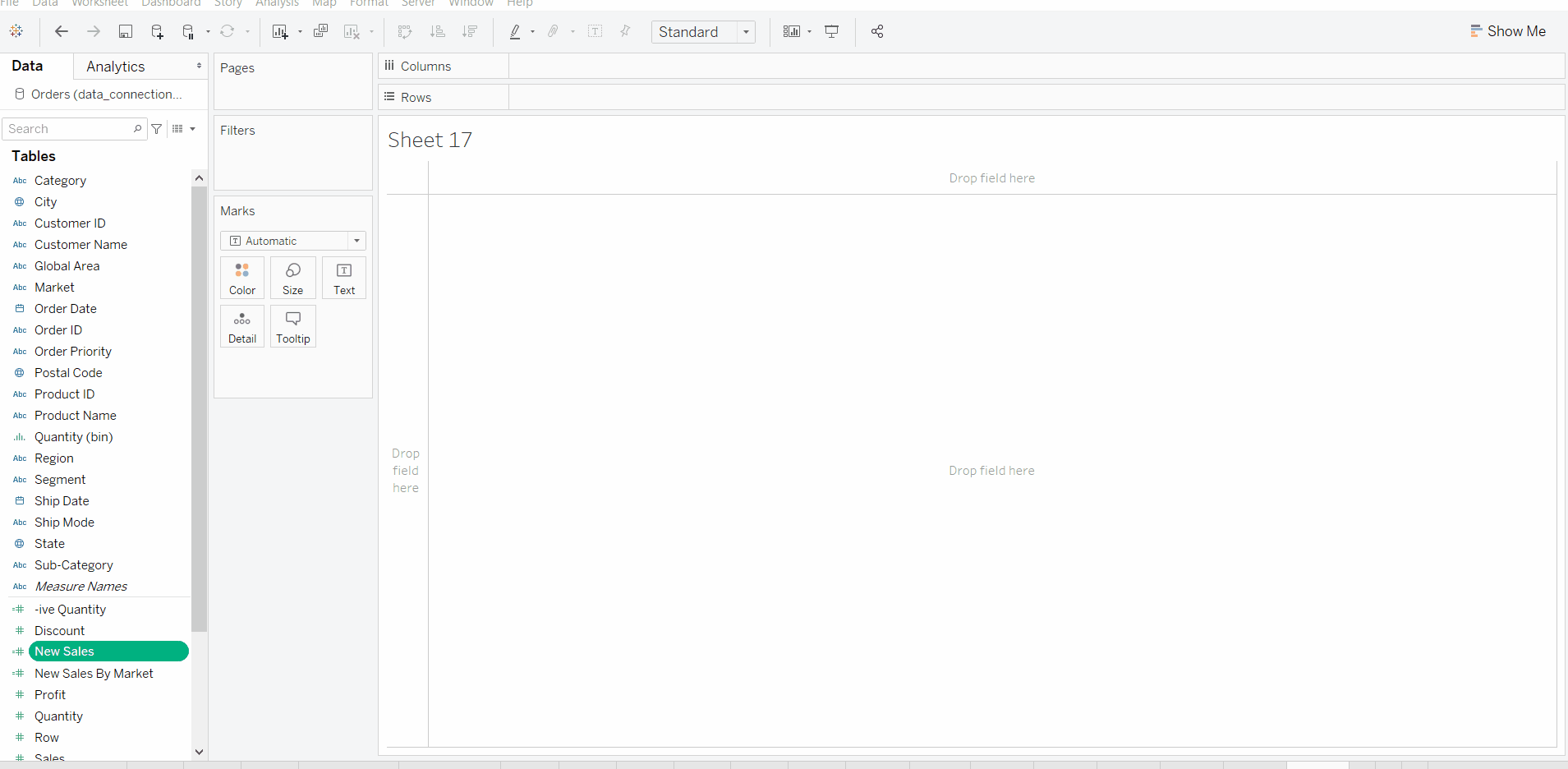
**Example 1: (IF-END)**

* In this example, we simply create a new calculated field by using the IF function on a field.
* View a new calculated field.
* Use in Visualization.
* It has a drawback that creates null values in case of the false condition.



**Example 2: (IF-ELSE-END)**

* In this example, we simply edit that previously calculated field by using the IF-ELSE function in the same field.
* View a new calculated field.
* Use in Visualization.
* It overcomes a drawback that creates null values in case of the false condition.



**Example 3: (IF-ELSEIF-ELSE-END)**

* In this example, we simply create a new calculated field by using the IF-ELSEIF-ELSE function on a field.
* View a new calculated field.
* Use in Visualization.

