

TABLEAU-GENERATED FIELDS

After we move any data source within Tableau the Data pane will contain an additional number of fields that were not present in the original data.

These are the **Tableau-Generated fields**.

Given below are the **Tableau-generated fields**:

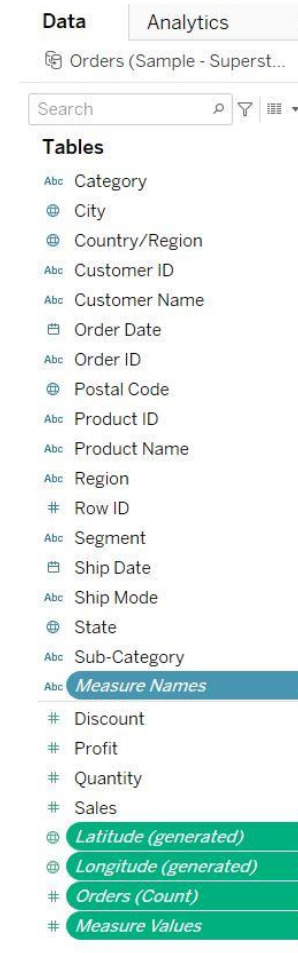
Measure Names

Measure Values

NameofTable(Count)/ Number of Records

Latitude

Longitude



MEASURE VALUES

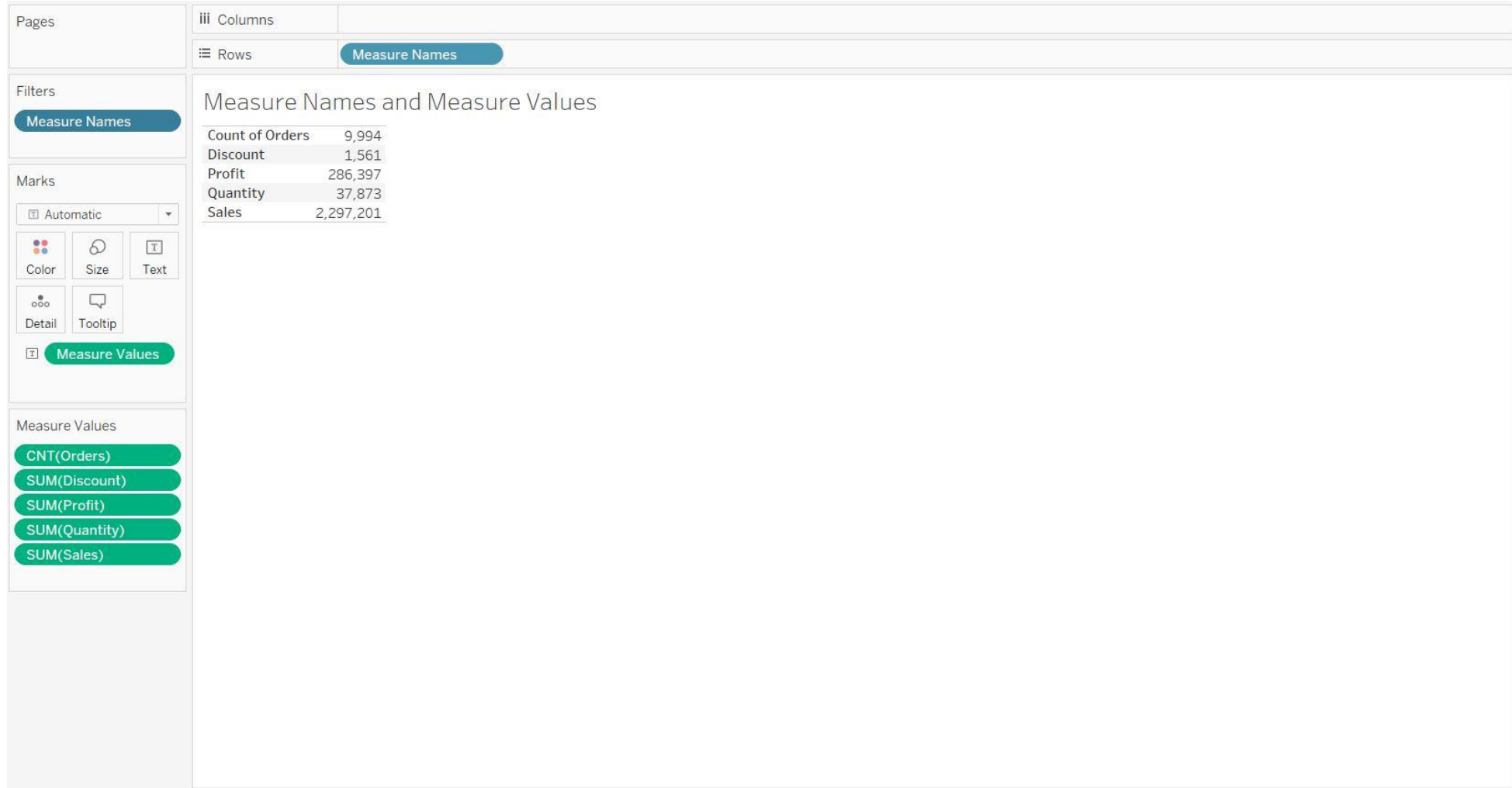
The **Measure Values** field contains all the measures in the data, combined into a single field with continuous values.

Measure Values is a generated field containing the values of each measure. We need to use it along with **Measure Names** to blend measures.

MEASURE VALUES

Drag the **Measure Names** field to the **Rows** shelf

By default, the view will contain all the measures that are present in the data



The screenshot shows the Tableau interface with the following components:

- Columns Shelf:** Empty.
- Rows Shelf:** Contains the 'Measure Names' field.
- Filters:** Contains the 'Measure Names' field.
- Marks:** Set to 'Automatic'.
- Measure Values:** A list of measures available for selection: CNT(Orders), SUM(Discount), SUM(Profit), SUM(Quantity), and SUM(Sales).

The main view displays a table titled 'Measure Names and Measure Values' with the following data:

Measure Name	Value
Count of Orders	9,994
Discount	1,561
Profit	286,397
Quantity	37,873
Sales	2,297,201

MEASURE VALUES

Drag individual measure fields out of the **Measure Values** card to remove them from the view

Pages

Filters

Marks

Measure Values

iii Columns

Rows

Measure Names

Measure Names and Measure Values

Count of Orders	9,994
Discount	1,561
Profit	286,397
Quantity	37,873
Sales	2,297,201

Measure Values

CNT(Orders)

SUM(Discount)

SUM(Profit)

SUM(Quantity)

SUM(Sales)

SUM(Sales)

MEASURE VALUES

Final View **does not** have the **Sales Measure**

Pages

Filters

Measure Names

Marks

Automatic

Color

Size

Text

Detail

Tooltip

Measure Values

Measure Values

CNT(Orders)

SUM(Discount)

SUM(Profit)

SUM(Quantity)

Columns

Rows

Measure Names

Measure Names and Measure Values

Count of Orders	9,994
Discount	1,561
Profit	286,397
Quantity	37,873

MEASURE NAMES

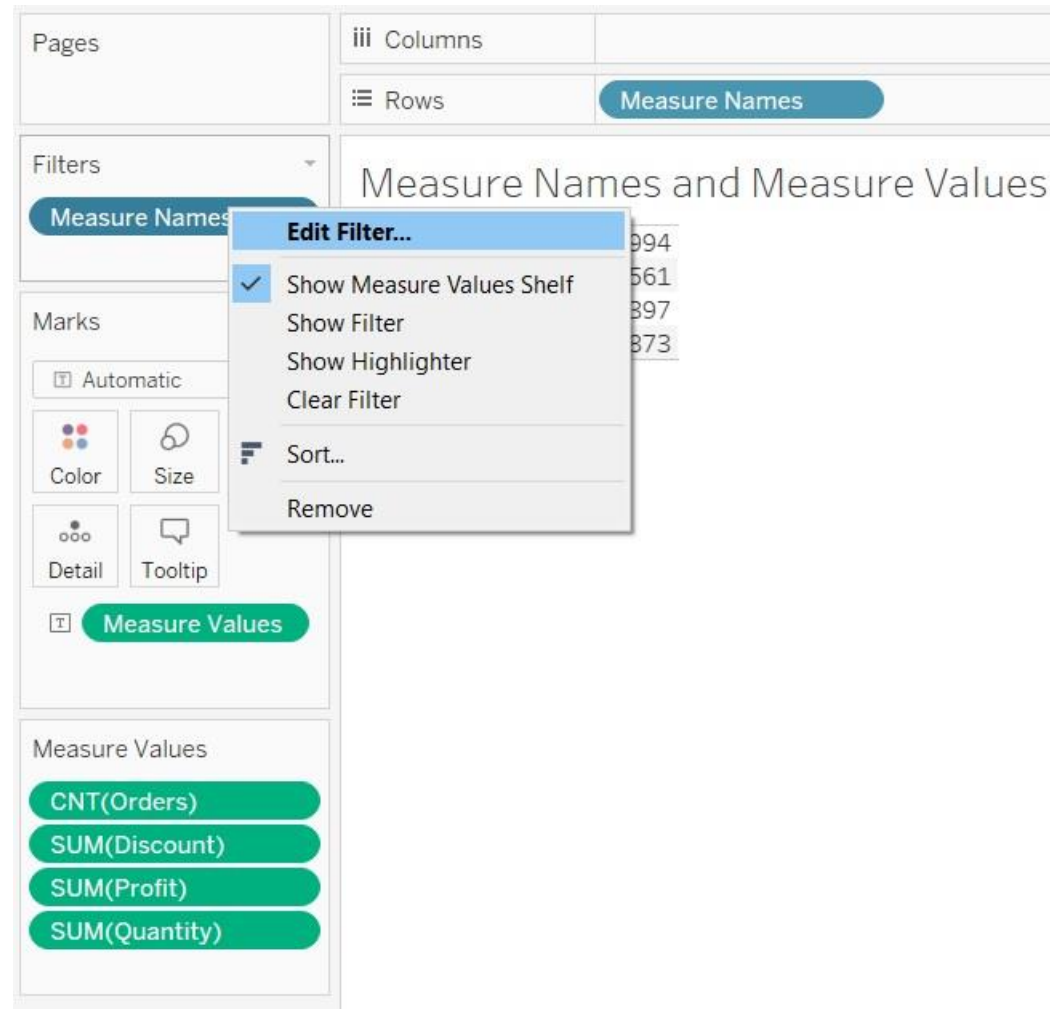
The **Measure Names** field contains the names of all measures in your data, collected into a single field with discrete values.

Measure Names is a generated field containing the names of each measure. We need to use it along with **Measure Values** to blend measures.

MEASURE NAMES

If required, we can remove any measure names by editing the **Measure Names** field in Filter shelf

Right-click **Measure Names** in Filter shelf, **Edit Filter**



MEASURE NAMES

Filter [Measure Names] Dialog box appears

Filter [Measure Names] ✕

General

Enter search text

- ☒ Count of Orders
- ☒ Discount
- ☒ Profit
- ☒ Quantity
- ☐ Sales

All None

Summary

Field: [Measure Names]
Selection: Selected 4 of 5 values
Wildcard: All
Condition: None
Limit: None

Reset OK Cancel Apply

MEASURE NAMES

De-select the **Measure Name** to be removed
e.g.: **Quantity**

Filter [Measure Names] X

General

Enter search text

- ☒ Count of Orders
- ☒ Discount
- ☒ Profit
- ☐ Quantity
- ☐ Sales

All None

Summary

Field: [Measure Names]
Selection: Selected 3 of 5 values
Wildcard: All
Condition: None
Limit: None

Reset OK Cancel Apply

MEASURE NAMES

Final View does not have the Quantity Measure

Pages

Filters

Marks

Measure Values

Columns

Rows

Measure Names

Measure Names and Measure Values

Count of Orders	9,994
Discount	1,561
Profit	286,397

Automatic

Color

Size

Text

Detail

Tooltip

Measure Values

CNT(Orders)

SUM(Discount)

SUM(Profit)

COUNT OF TABLE/ NUMBER OF RECORDS

Starting with Tableau 2020.2, every table in a data source has a Count field, in the form of **NameofTable(Count)**.

The table count field is an automatically generated, calculated field.

COUNT of table = SUM of the number of records per table

We can't build calculations on top of a table's Count field, and it is aggregate-only.

COUNT OF TABLE/ NUMBER OF RECORDS

We might see a **Number of Records** field if it is being used in a visualization from a **previous version of Tableau**.

In versions of **Tableau before 2020.2**, the **Number of Records** field is an automatically generated, calculated field that is set to the number 1.

That number gets associated with each row in the data source.

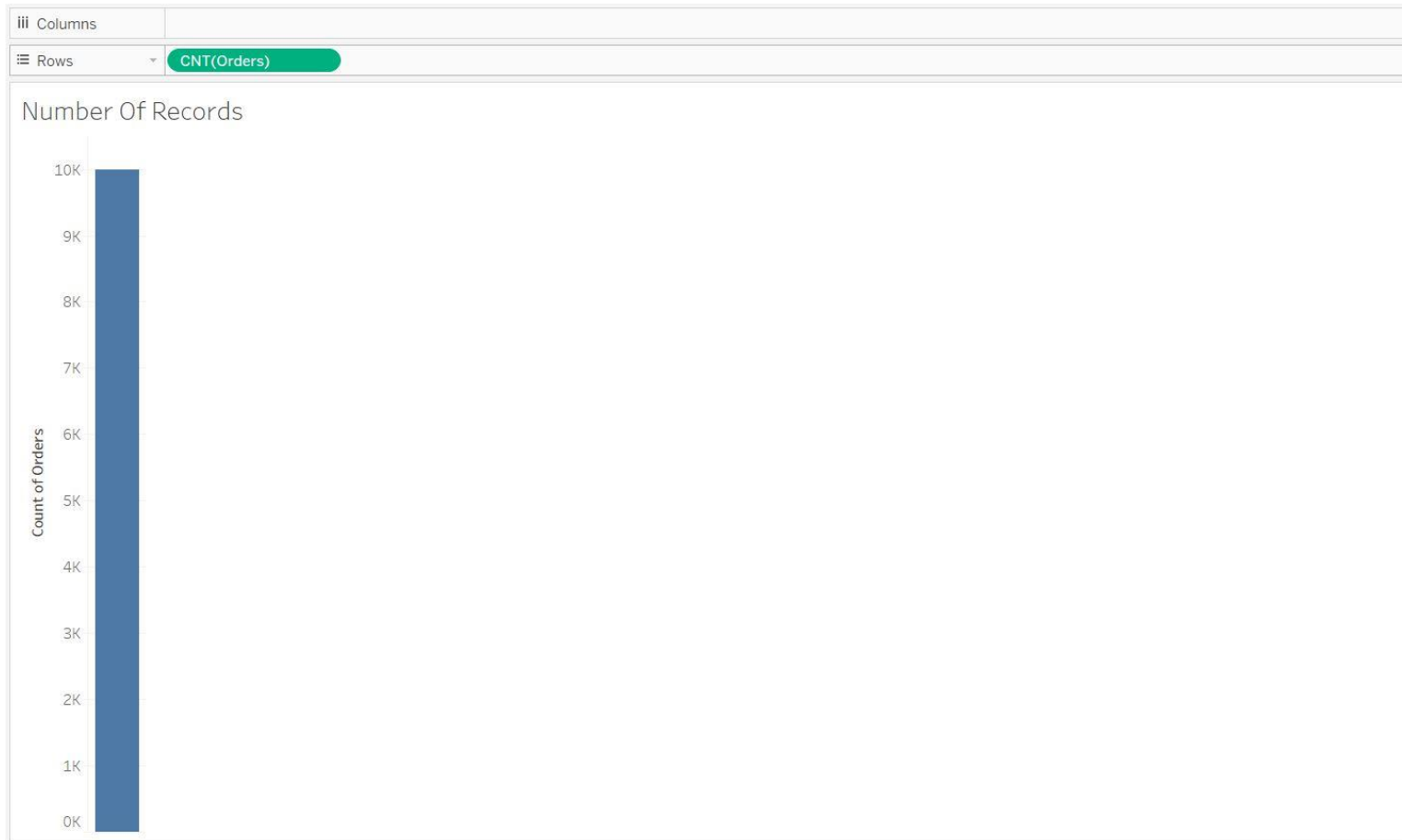
If we add the Number of Records field to the view, you will see the summed count of all the rows in a data source (the number of records).

We can use the Number of Records field to get quick counts of various dimensions' values.

Viewing the Number of Records can help us to see if the data joins are working as expected.

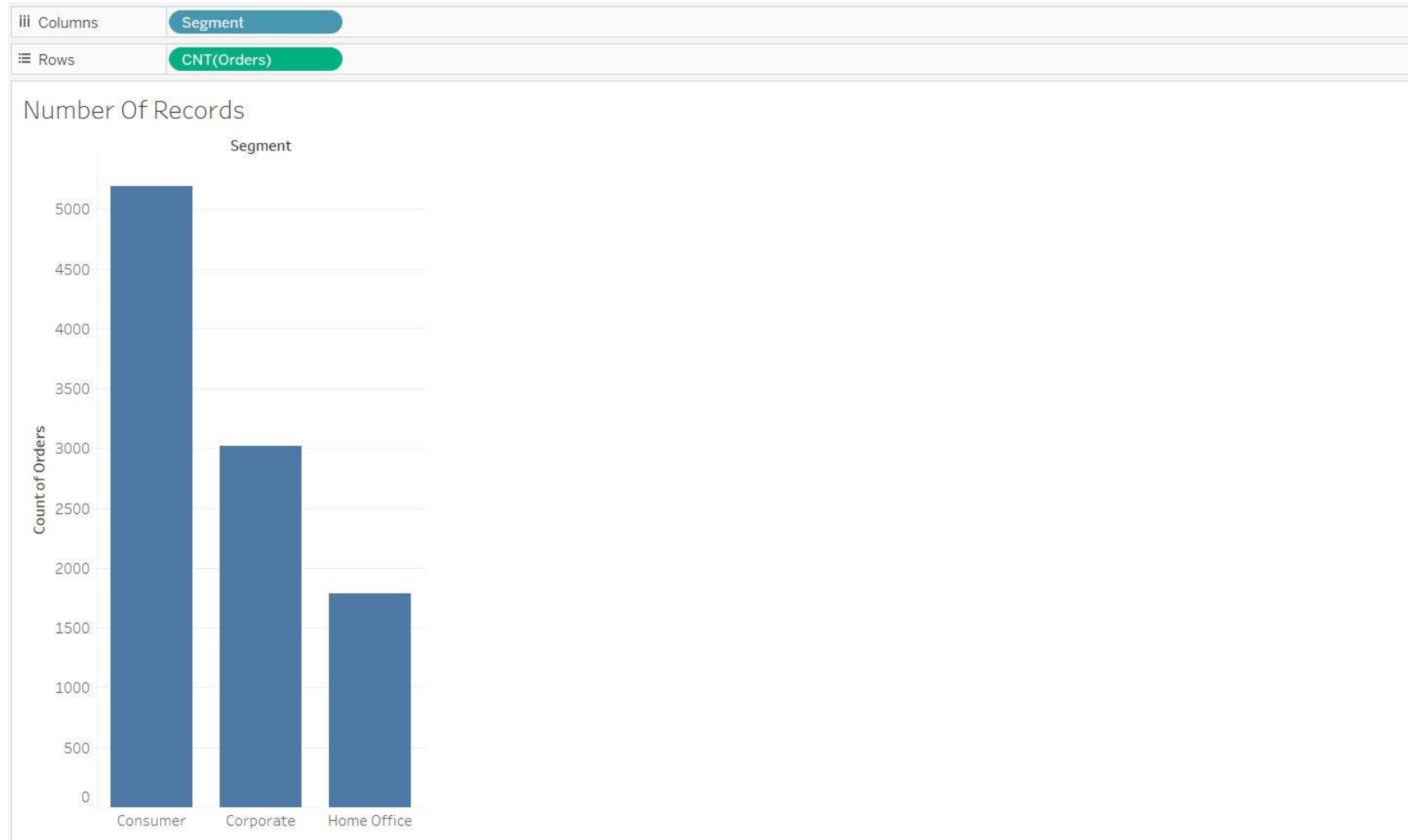
NUMBER OF RECORDS

Drag the NameofTable(Count) i.e., **Orders(Count)** field to the **Rows** shelf
This view will provide the number of records in the Orders table



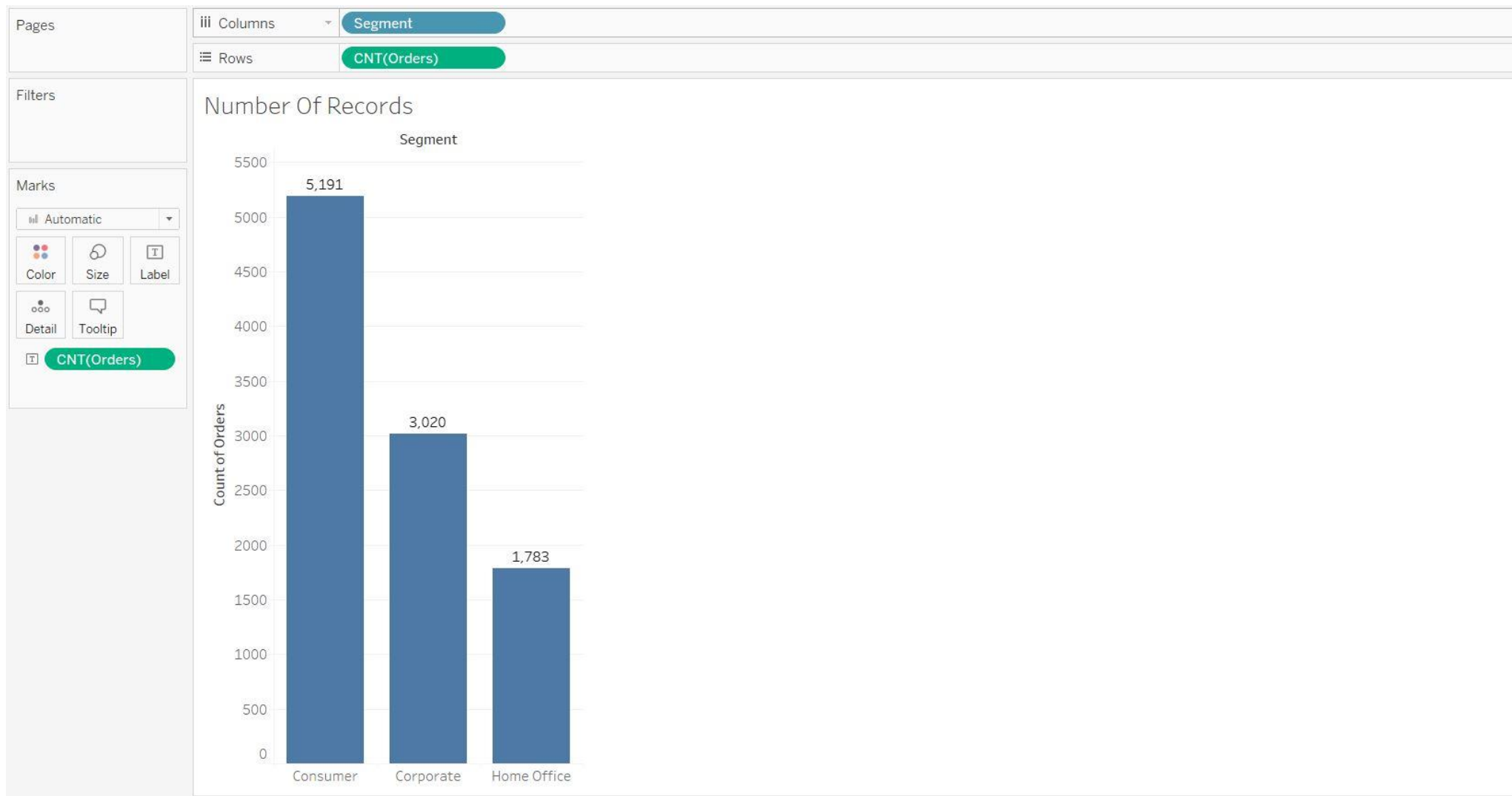
NUMBER OF RECORDS

We can make this view more granular by dragging and dropping a dimension e.g.: **Segment** to the **Columns** shelf.



NUMBER OF RECORDS

If required, we can move the **CNT(Orders)** to **Label** of **Marks** card
Ctrl (Windows) or Cmd (Mac) and drag the **CNT(Orders)** field to the **Label**



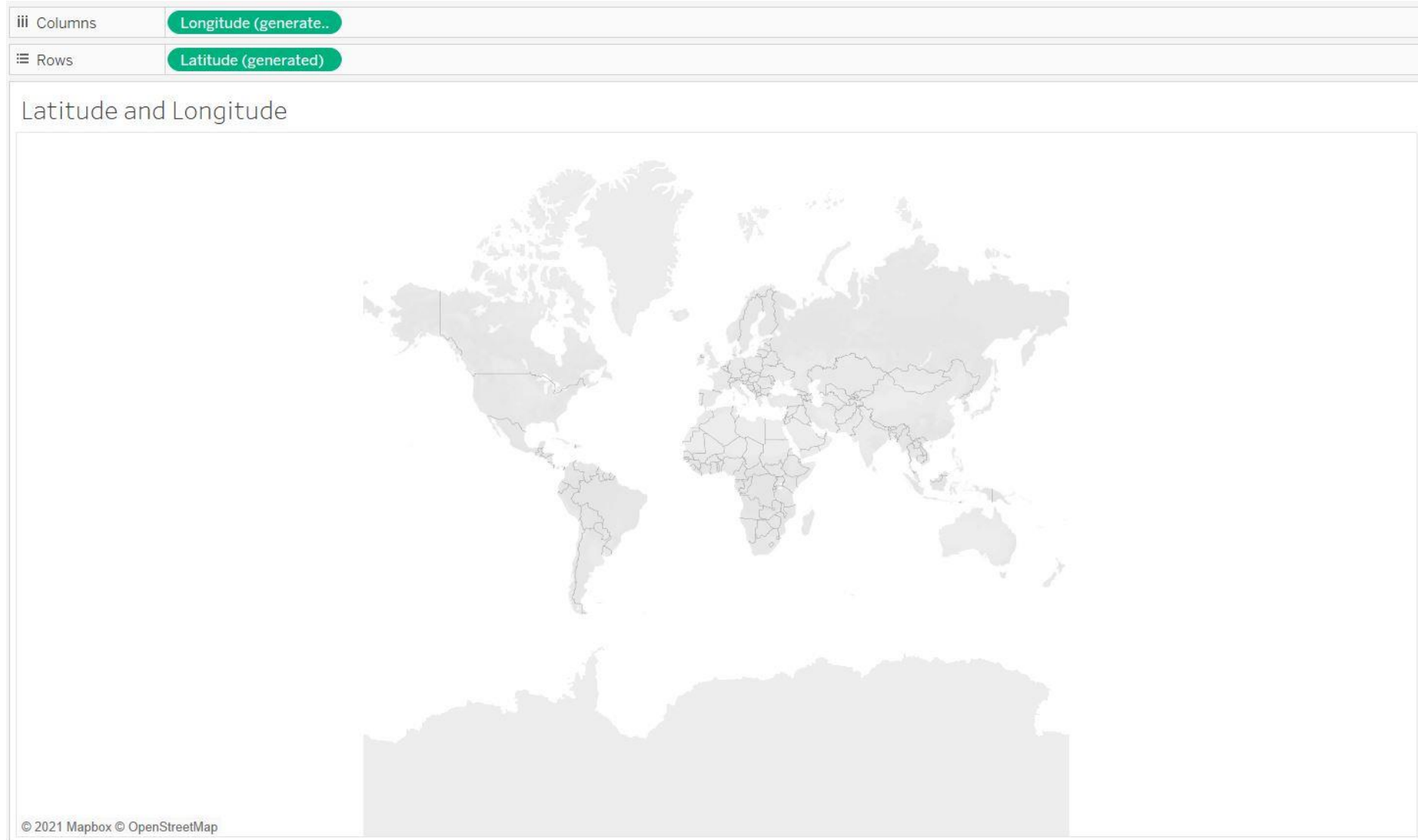
LATITUDE AND LONGITUDE

When Tableau interprets fields to be geographic fields that can be used with maps, it automatically geocodes the data and includes **Latitude (generated)** and **Longitude (generated)** fields.

We can use these fields to overlay the data on live maps.

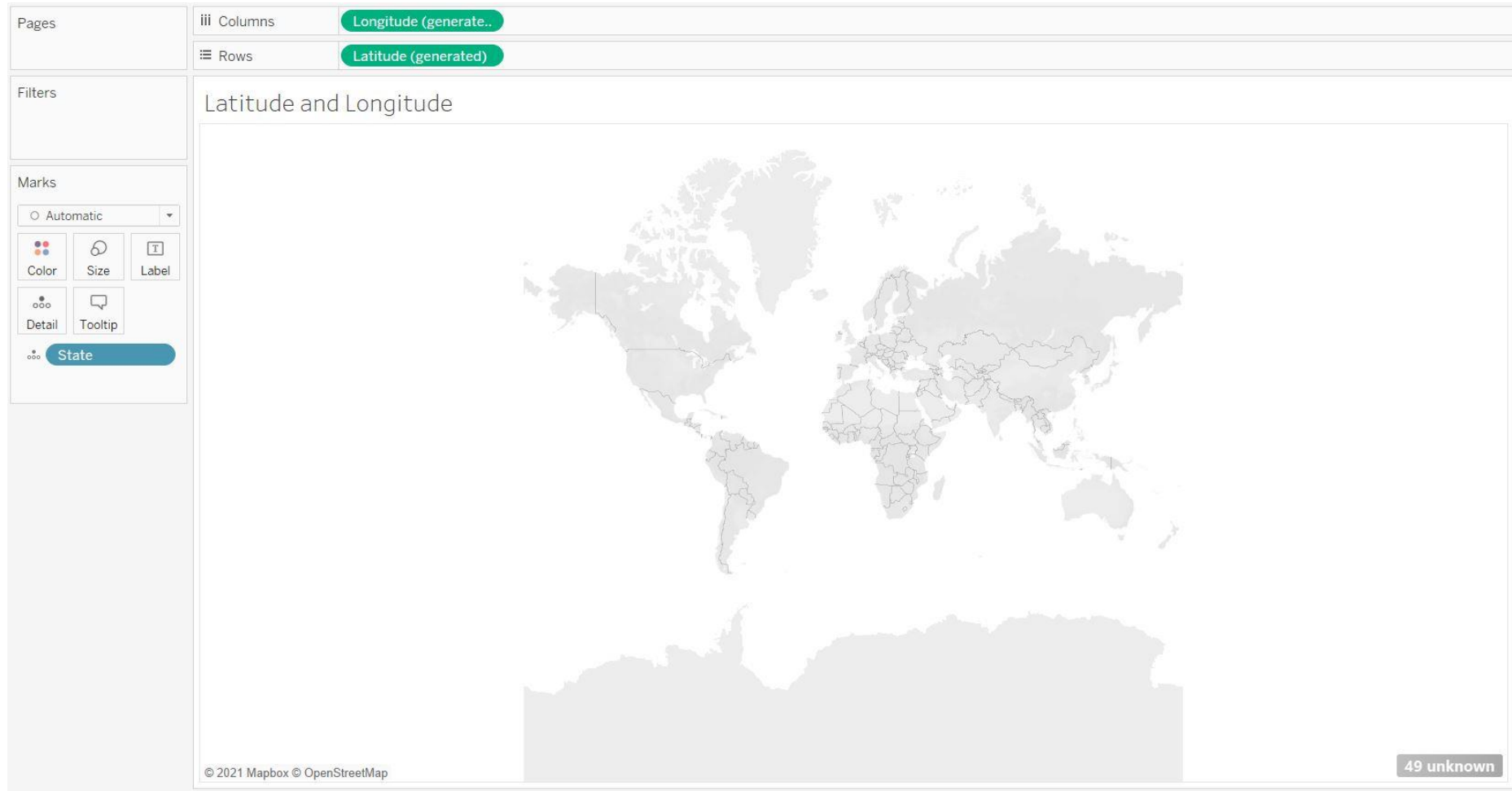
LATITUDE AND LONGITUDE

Drop **Latitude** to **Rows** shelf and **Longitude** to **Columns** shelf



LATITUDE AND LONGITUDE

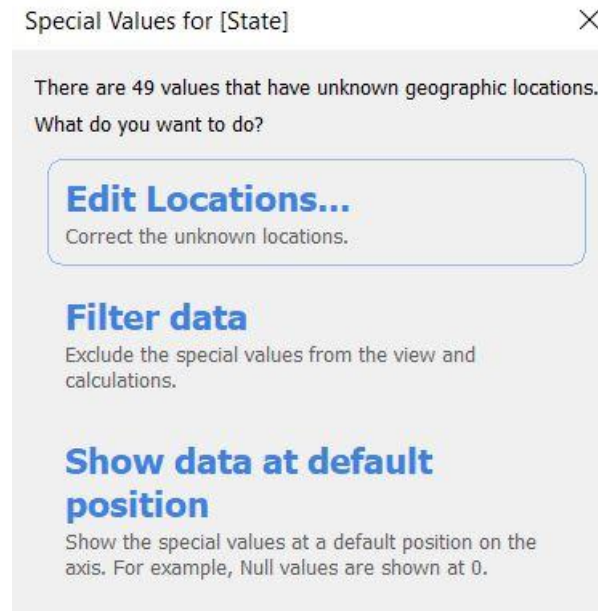
Drop **State** field to the view
Click on “49 unknown”



NOTE: Error will be observed only if geographic location of Tableau usage is different from geographic details of the Data Source

LATITUDE AND LONGITUDE

Special Values for [State] dialog box will appear
Click **Edit Locations**



NOTE: Error will be observed only if geographic location of Tableau usage is different from geographic details of the Data Source

LATITUDE AND LONGITUDE

Edit Locations dialog box will appear

Edit Locations

Geographic roles

Country/Region: Afghanistan

State/Province: State ⚠ 49 issues

Match values to locations

⚠ State/Province

Your Data	Matching Location
Alabama	Unrecognized
Arizona	Unrecognized
Arkansas	Unrecognized
California	Unrecognized
Colorado	Unrecognized
Connecticut	Unrecognized

☐ Show only unmatched locations in drop down list

Reset Matches OK Cancel

NOTE: Error will be observed only if geographic location of Tableau usage is different from geographic details of the Data Source

LATITUDE AND LONGITUDE

Enter **United States** for Fixed

Edit Locations

Geographic roles

Country/Region: India

State/Province:

Match values to location:

☐ None

☒ Fixed:

☐ From field:

State/Province

Alabama	Unrecognized
Arizona	Unrecognized
Arkansas	Unrecognized
California	Unrecognized
Colorado	Unrecognized
Connecticut	Unrecognized

☐ Show only unmatched locations in drop down list

Reset Matches

OK

Cancel

NOTE: Error will be observed only if geographic location of Tableau usage is different from geographic details of the Data Source

LATITUDE AND LONGITUDE

Click **OK**

Edit Locations ✕

Geographic roles

Country/Region: United States

State/Province: State

Match values to locations

State/Province

Your Data	Matching Location
Alabama	Alabama
Arizona	Arizona
Arkansas	Arkansas
California	California
Colorado	Colorado
Connecticut	Connecticut

☐ Show only unmatched locations in drop down list

Reset Matches OK Cancel

NOTE: Error will be observed only if geographic location of Tableau usage is different from geographic details of the Data Source

LATITUDE AND LONGITUDE

Final View shows the **State** mapped as per the **Latitude** and **Longitude** Geo spatial data

