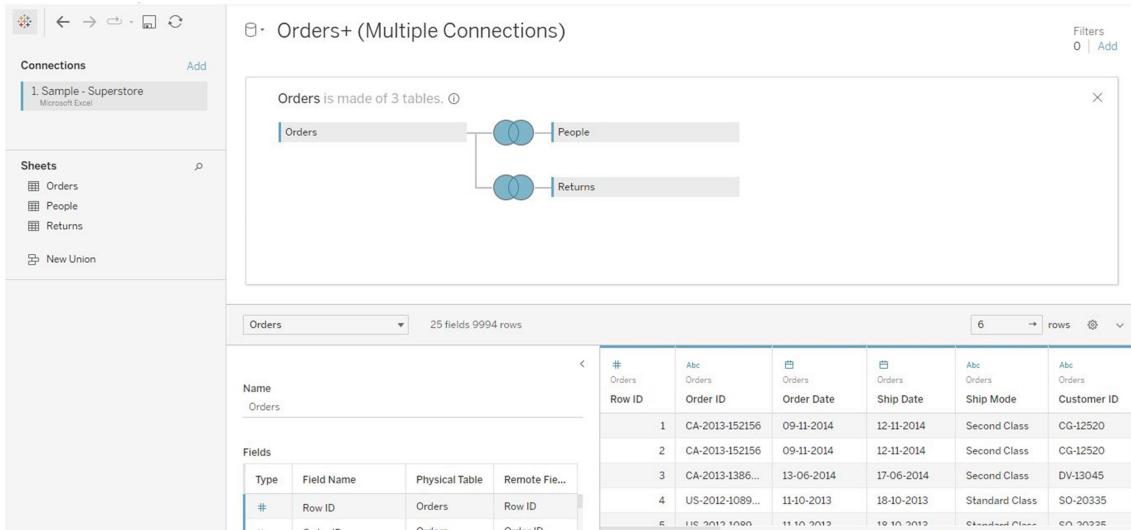


SKARTHICK.V
DATA ANALYTICS
TABLEAU
Karthick.v1989@gmail.com
9791760240

MODULE-3 ASSIGNMENT

STEPS :

- ADD SAMPLE SUPER STORE EXCEL FILE IN TABLEAU DATA SOURCE
- DRAG ORDERS SHEET IN LOGICAL TABLE
- DOUBLE CLICK ORDERS SHEET TO SEE THE PHYSICAL TABLE OF ORDERS
- DRAG PEOPLE SHEET IN PHYSICAL TABLE OF ORDERS THEN SELECT FULL OUTER JOIN
- DRAG RETURNS SHEET IN PHYSICAL TABLE OF ORDERS THEN SELECT FULL OUTER JOIN



The screenshot shows the Tableau Data Source interface for the 'Orders+' connection. On the left, under 'Connections', there is one entry: '1: Sample - Superstore Microsoft Excel'. Under 'Sheets', there are three sheets: 'Orders', 'People', and 'Returns'. A 'New Union' option is also present. The main area displays the logical table structure: 'Orders' is connected to both 'People' and 'Returns'. Below this, the physical table 'Orders' is shown with 25 fields and 9994 rows. A preview of the data is provided, showing columns like Row ID, Order ID, Order Date, Ship Date, Ship Mode, and Customer ID. The data includes several rows of order information.

#	Abc Orders Row ID	Abc Orders Order ID	Abc Orders Order Date	Abc Orders Ship Date	Abc Orders Ship Mode	Abc Orders Customer ID
1	CA-2013-152156	09-11-2014	12-11-2014	Second Class	CG-12520	
2	CA-2013-152156	09-11-2014	12-11-2014	Second Class	CG-12520	
3	CA-2013-1326...	13-06-2014	17-06-2014	Second Class	DV-13045	
4	US-2012-1089...	11-10-2013	18-10-2013	Standard Class	SO-20335	
5	US-2012-1089...	11-10-2013	18-10-2013	Standard Class	SO-20335	

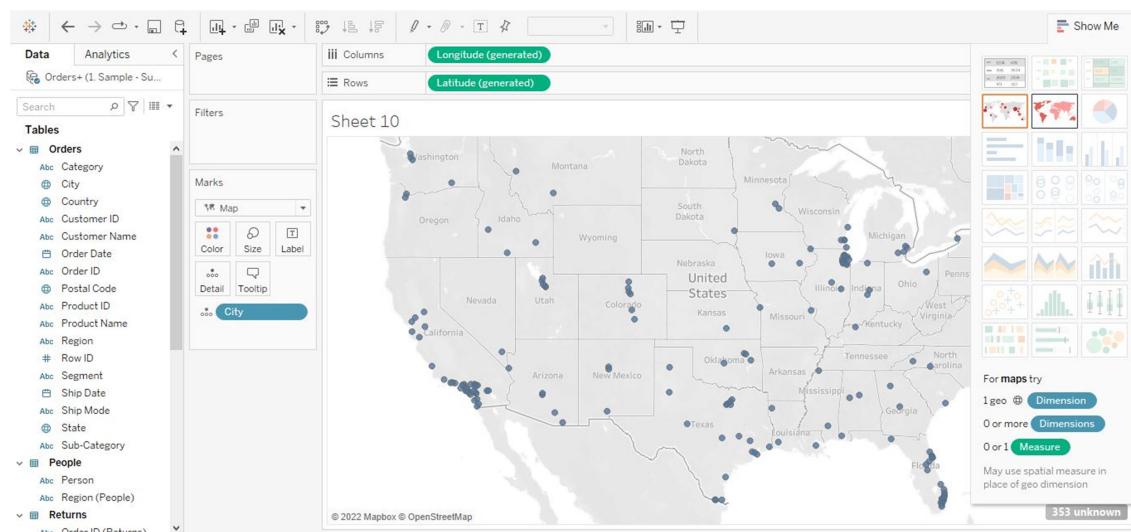
1. HOW DO YOU SET GEOGRAPHIC ROLES?

- CHANGE TABLEAU WORK SHEET NAME AS 'GEOGRAPHIC ROLES'
- DRAG CITY OPTION FROM ORDERS MENU IN DATA PANE TO ROWS

The screenshot shows the Tableau Data pane on the left, which includes a search bar, a 'Tables' section, and a 'Filters' section. The 'Tables' section lists 'Orders', 'People', and 'Returns'. The 'Orders' table is expanded, showing various columns like Category, City, Country, etc. In the 'Rows' section of the Marks pane, 'City' is highlighted. The main workspace shows a list titled 'Sheet 10' containing a table of city names and their associated roles ('Abc').

- THEN CLICK MAPS IN SHOW ME OPTION
- DRAG CITY OPTION FROM DATA PANE TO DETAIL OPTIONS IN MARKS PANE

RESULT :



2. WHAT IS THE MAIN DIFFERENCE BETWEEN CALCULATED FIELDS AND TABLE CALCULATIONS?

CALCULATED FIELD	TABLE CALCULATIONS
<ul style="list-style-type: none">• CALCULATION FIELD ARE USER DEFINED• CALCULATION FIELDS ARE CREATED BY COMPUTING WITH THE DATA SOURCE AND CAN BE FOUND IN IT AS A NEW COLUMN• CALCULATION FIELD ARE STORED IN DATA SOURCE• CALCULATION FIELDS ARE MUCH MORE DIVERSE ENABLING DEEPER ANALYSIS.	<ul style="list-style-type: none">• TABLE CALCULATIONS ARE PRE DEFINED• TABLE CALCULATIONS ARE ALREADY PROCESSED DATA AND COMPUTED EVERYTHING LOCALLY• TABLE CALCULATIONS ARE STORED ONLY IN LOCAL WORKSHEET• TABLE CALCULATIONS ARE SIMPLER AND THEIR SCOPE IS MORE LIMITED COMPARED TO CALCULATION FIELDS

3. FIND NO OF P'S IN THE CUSTOMER NAME?

- CHANGE TABLEAU WORK SHEET NAME AS 'NO OF P'S IN CUSTOMER NAME'
- DRAG CUSTOMER NAME FROM DATA PANE INTO ROWS

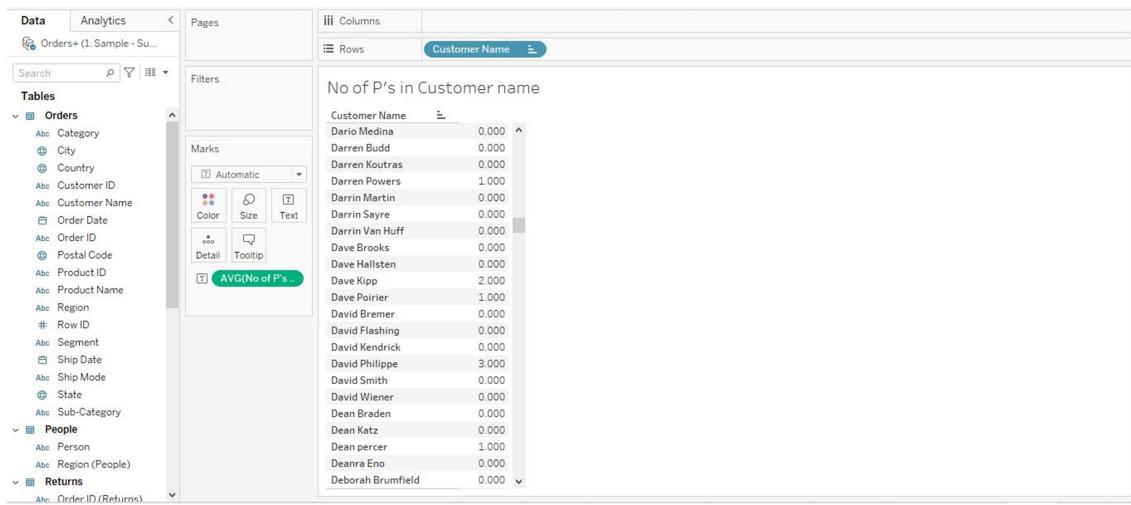
The screenshot shows the Tableau Data pane. On the left, under 'Tables', there is a tree view with 'Orders' expanded, showing fields like Category, City, Country, Customer ID, Customer Name, Order Date, Order ID, Postal Code, Product ID, Product Name, Region, Row ID, Segment, Ship Date, Ship Mode, State, Sub-Category, People, Person, and Returns. In the center, the 'Customer Name' field is selected in the 'Rows' section of the 'Pages' pane. The main pane displays a list titled 'No of P's in Customer name' with two columns: 'Customer Name' and 'No of P's'. The data includes rows for Aaron Bergman, Aaron Hawkins, Aaron Smayling, Adam Bellavance, Adam Hart, Adam Shillingsburg, Adrian Barton, Adrian Hane, Adrian Shami, Aimee Bixby, Alan Barnes, Alan Dominguez, Alan Haines, Alan Hwang, Alan Schoenberger, Alan Shonely, Alejandro Bellentine, Alejandro Grove, Alejandro Savely, Aleksandra Gannaway, Alex Avila, and Alex Grayson, all with a value of 'Abc'.

- RIGHT CLICK CUSTOMER NAME AND CLICK CREATE OPTION SELECT CALCULATION FIELD
- CREATE CALCULATION FIELD WITH THE NAME OF 'NO OF P'S IN CUSTOMER NAME' USING "`LEN([Customer Name])-LEN(REPLACE([Customer Name],'P',''))`"



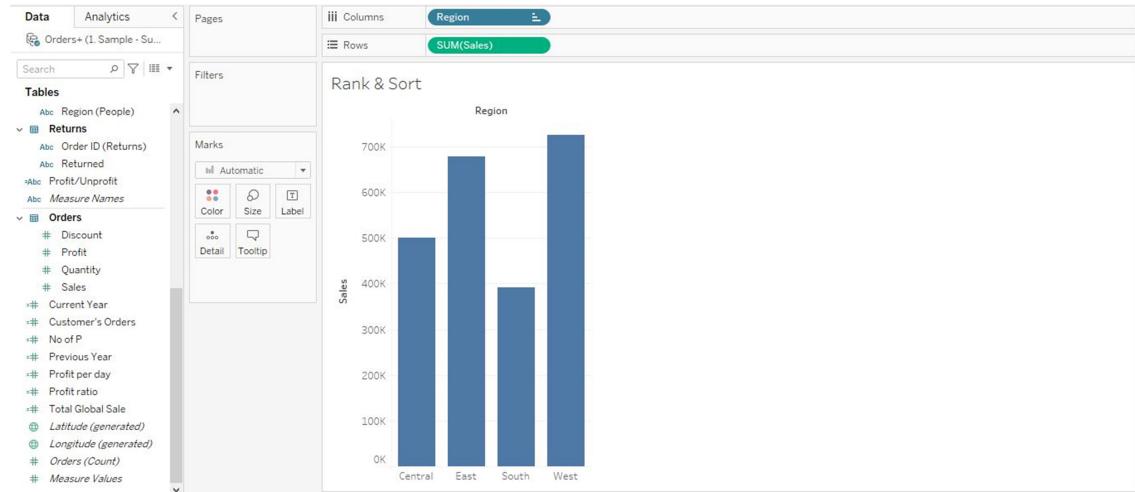
- DRAG NO OF P'S IN CUSTOMER NAME CALCULATION FIELD FROM DATA PANE INTO COLOUR OPTION IN MARKS PANE
- RIGHT NO OF P'S IN CUSTOMER NAME IN MARKS PANE AND CLICK MEASURE OPTION AND SELECT AVERAGE OPTION NOW NO OF P'S SHOWN

RESULT :

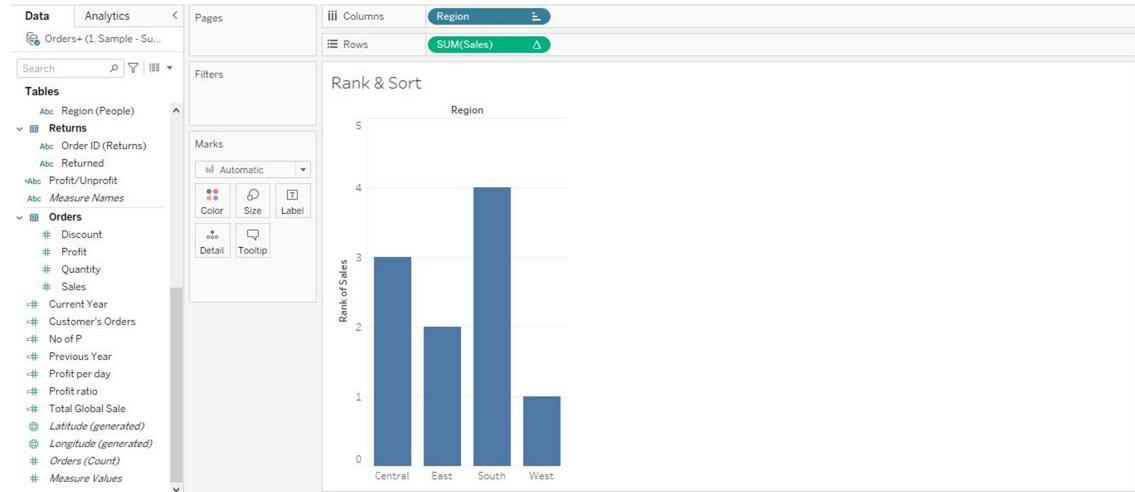


4. CALCULATE THE RANK AND SORT THE REGION AND SUB CATEGORY BASED ON SALES?

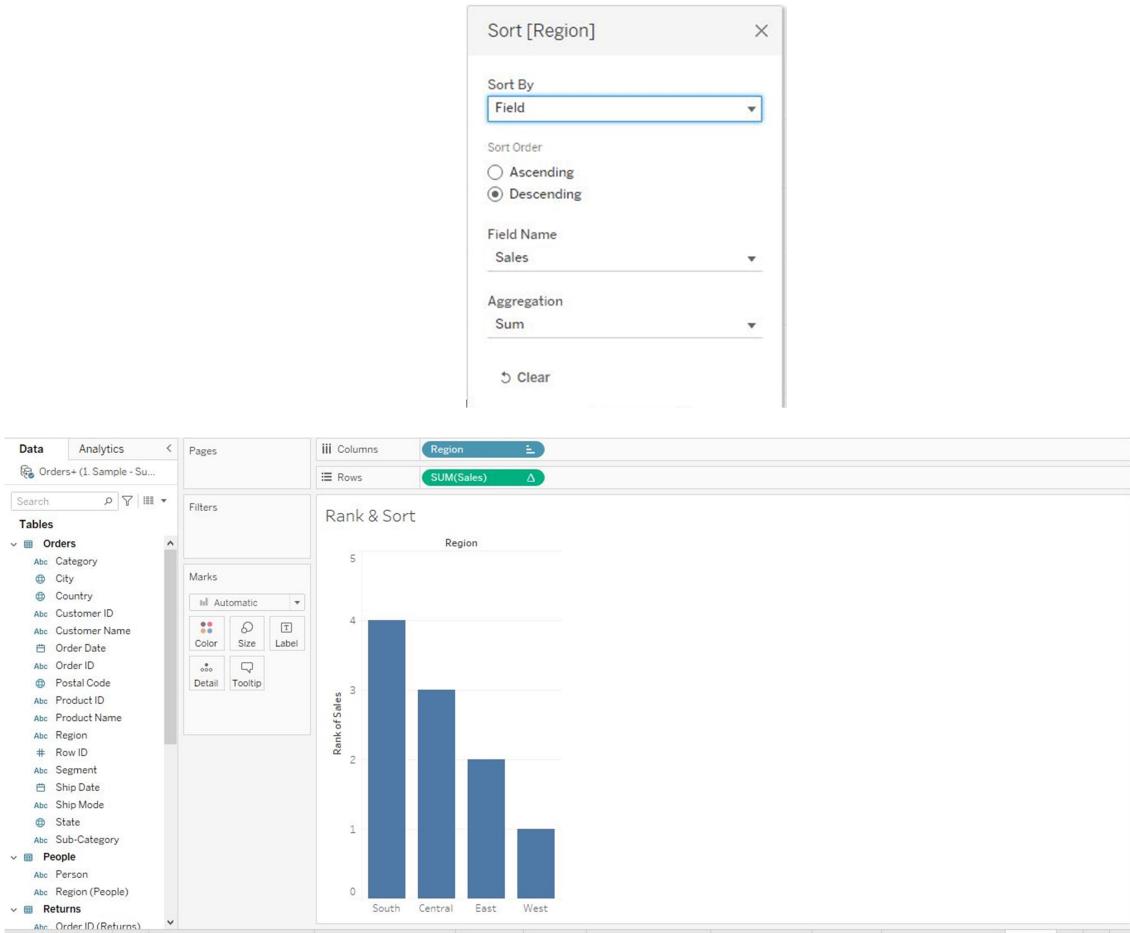
- CHANGE TABLEAU WORK SHEET NAME AS 'RANK & SORT'
- DRAG REGION FROM ORDERS OPTION IN DATA PANE INTO COLUMNS
- DRAG SALES FROM ORDERS OPTION IN DATA PANE INTO ROWS



- RIGHT CLICK SUM OF SALES IN ROWS AND SELECT QUICK TABLE CALCULATION AND SELECT RANK OPTION



- RIGHT CLICK REGION ON COLUMN AND CLICK SORT SELECT FIELD IN SORT BY OPTION THEN SELECT SALES IN FIELD NAME AND SUM IN AGGREGATION AND CLICK DESCENDING IN SORT ORDER OPTION THEN CLOSE



- DRAG SUB-CATEGORY IN ORDERS OPTION FROM DATA PANE INTO MARKS PANE WITH COLOUR OPTION AND CLICK COLOUR OPTION AND CLICK BORDER OPTION AND SELECT BLACK COLOUR



- DRAG SUB-CATEGORY IN ORDERS OPTION FROM DATA PANE INTO MARKS PANE WITH SIZE OPTION

RESULT :

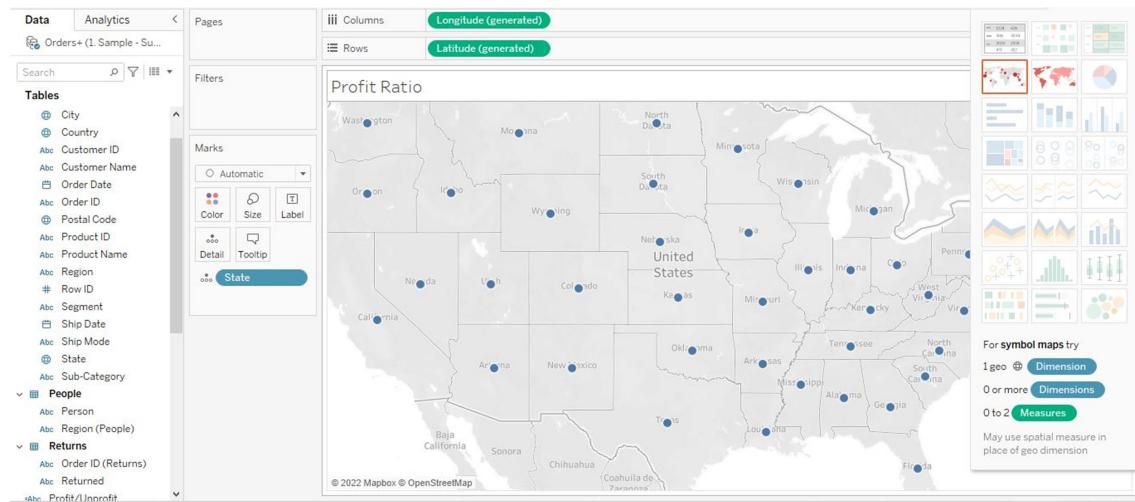


5. WHICH STATE HAS THE HIGHEST PROFIT RATIO?

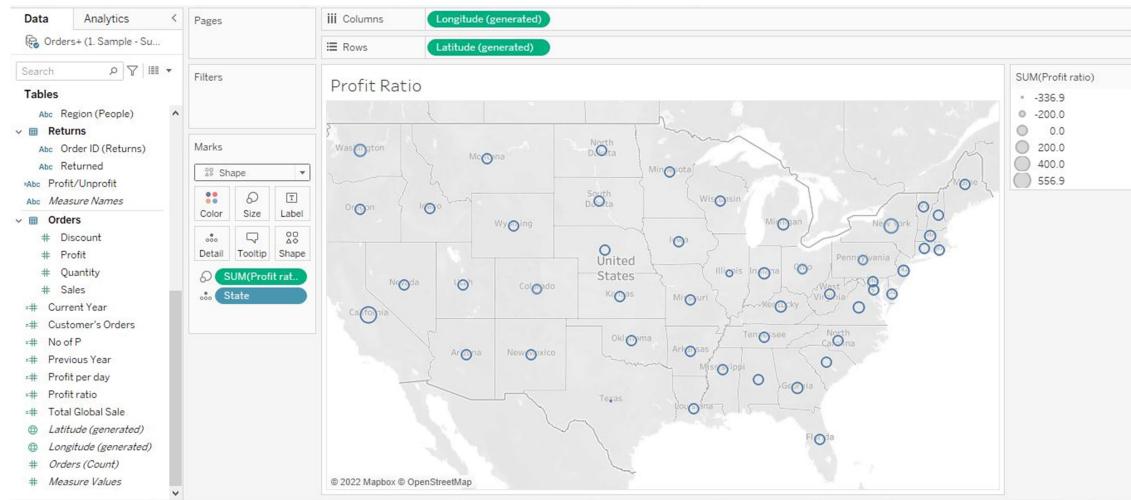
- CHANGE TABLEAU WORK SHEET NAME AS 'PROFIT RATIO'
- CREATE A CALCULATION FIELD WITH THE NAME OF PROFIT RATIO BY USING “[Profit]/[Sales]”



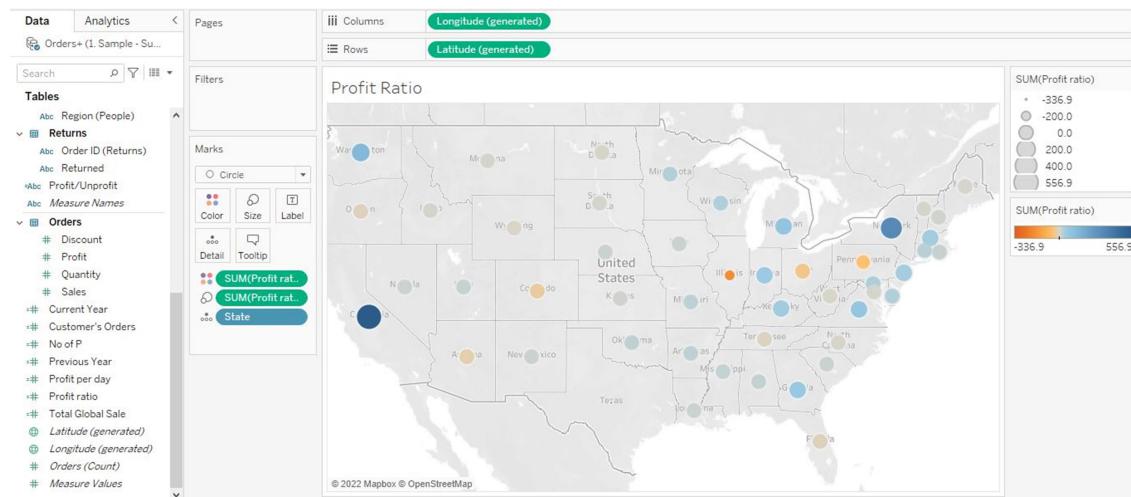
- DRAG STATE FROM ORDERS OPTION IN DATA PANE TO COLUMN THEN CLICK SYMBOL MAPS IN SHOW ME OPTION



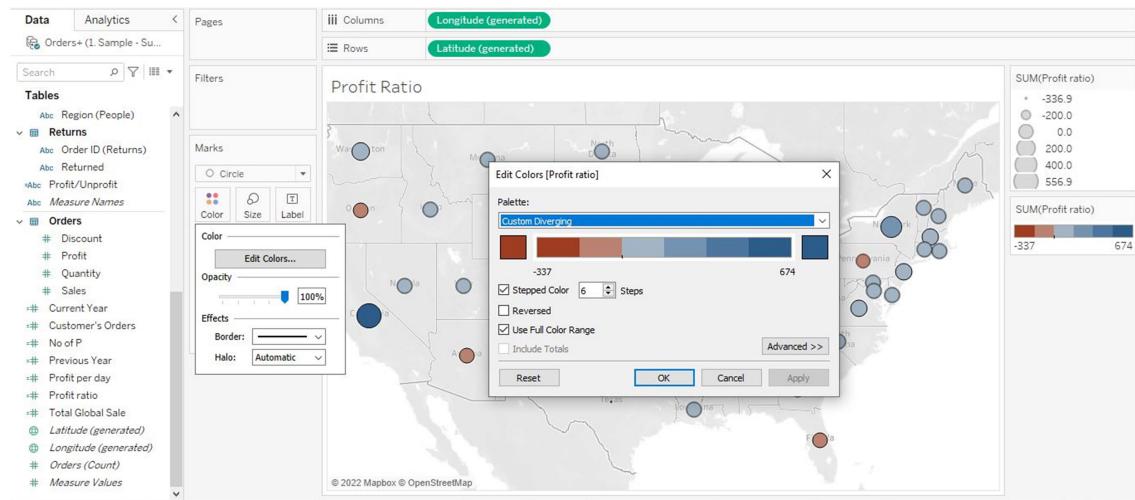
- DRAG PROFIT RATIO FROM DATA PANE INTO MARKS PANE WITH SIZE WITH CIRCLE OPTION



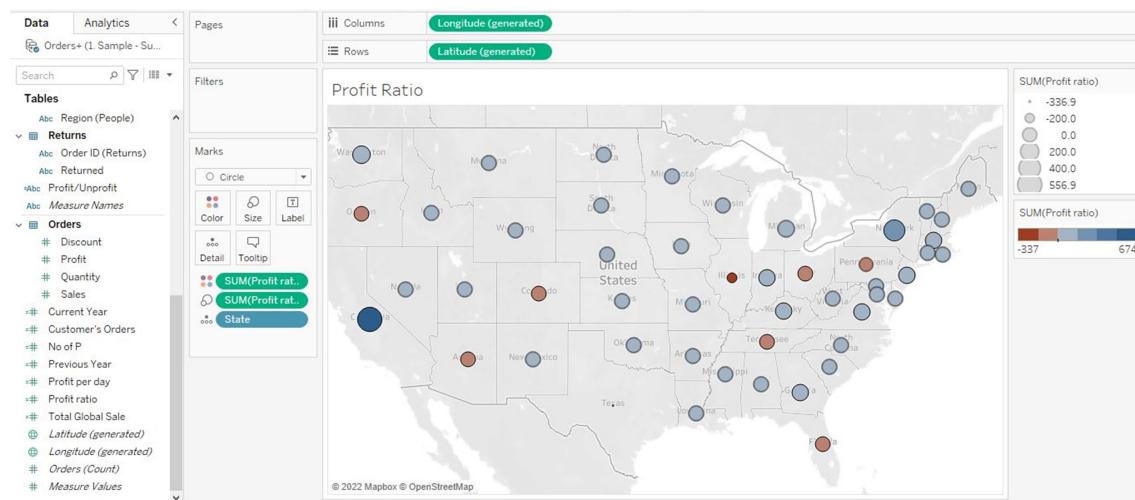
- DRAG PROFIT RATIO FROM DATA PANE INTO MARKS PANE WITH COLOR OPTION**



- CHANGE TABLEAU WORK SHEET NAME AS 'PROFIT RATIO'**
- CLICK COLOR OPTION IN MARKS PANE AND CLICK EDIT COLORS THEN SELECT CUSTOM DIVERGING IN PALETTE OPTION AND CLICK STEPPED COLOR AND SET STEPS AS 6 THEN CLICK USE FULL COLOR RANGE**
- CLICK BORDERS IN EFFECTS IN COLOR OPTION THEN SELECT BLACK**



RESULT :



6. SHOW THE DIFFERENCE OF CURRENT AND PREVIOUS YEAR IN THE LINE CHART?

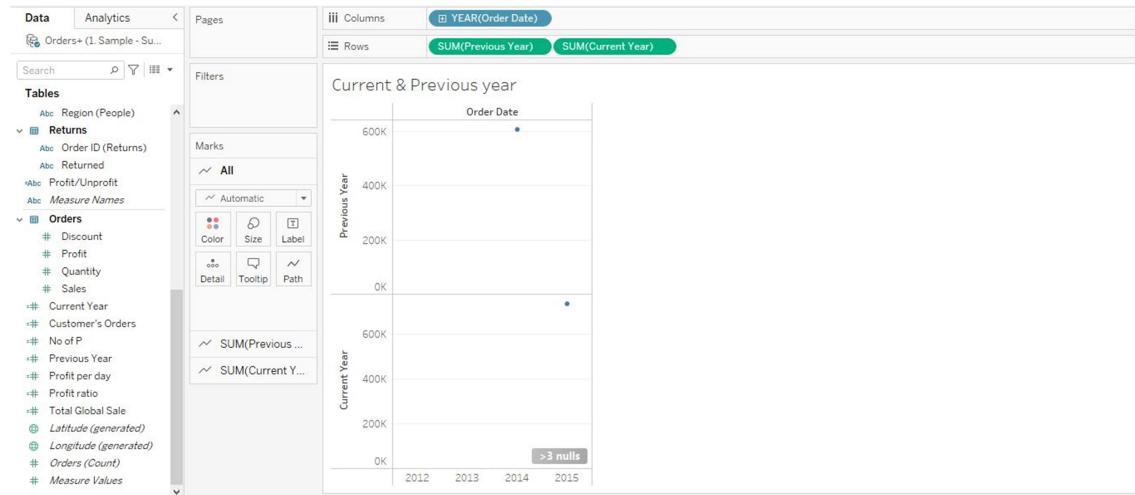
- CHANGE TABLEAU WORK SHEET NAME AS 'CURRENT & PREVIOUS YEAR'
- CREATE A CALCULATION FIELD WITH THE NAME OF CURRENT YEAR BY USING "IF YEAR(ORDER DATE)=2015, THEN[SALES], END"



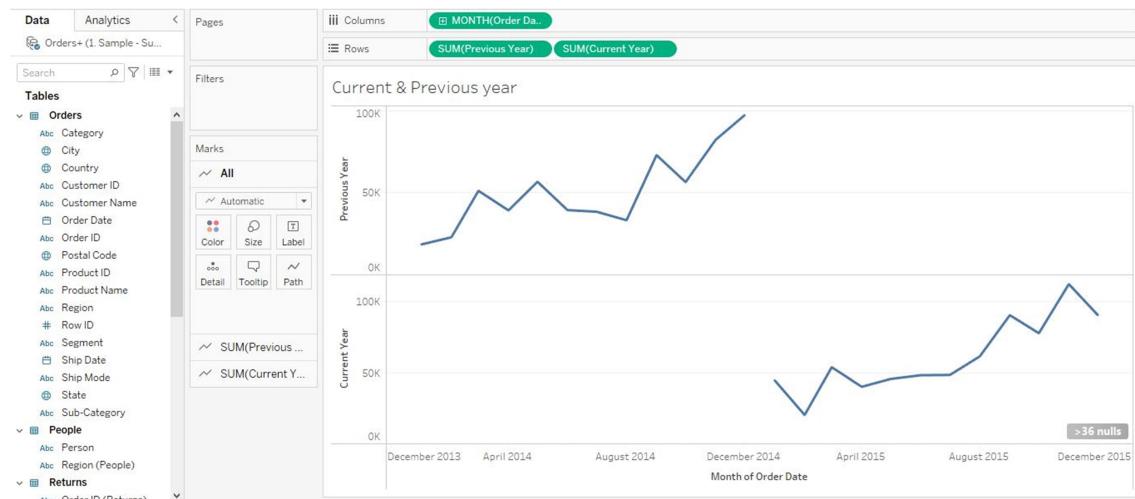
- CREATE A CALCULATION FIELD WITH THE NAME OF PREVIOUS YEAR BY USING "IF YEAR(ORDER DATE)=2014, THEN[SALES], END"



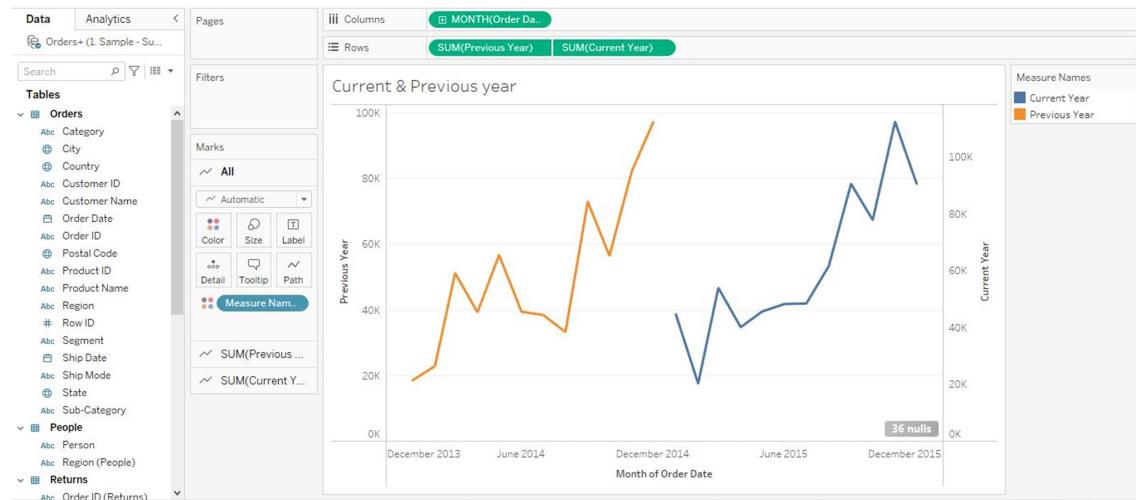
- DRAG ORDER DATE FROM DATAPANE INTO COLUMN, DRAG PREVIOUS YEAR AND CURRENT YEAR FROM DATAPANE INTO ROWS



- RIGHT CLICK ORDER DATE IN COLUMN AND SELECT MONTH AS CONTINUOUS



- **RIGHT CLICK CURRENT YEAR IN ROWS THEN SELECT DUAL AXIS**



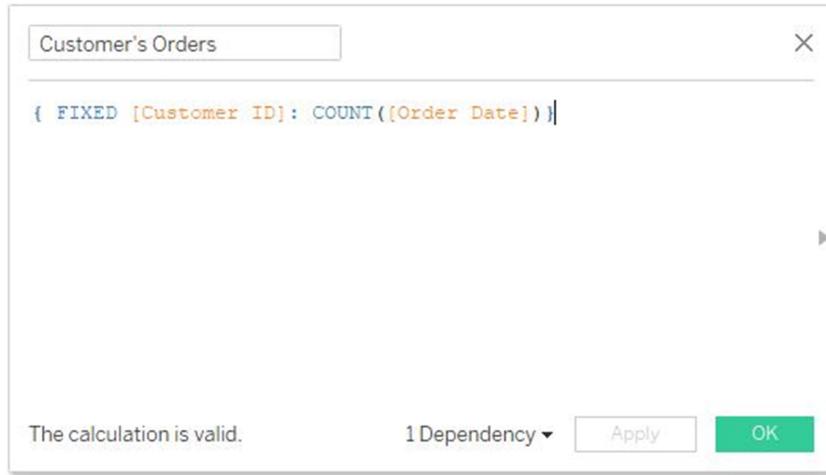
- **DRAG SALES FROM DATAPANE INTO ALL OPTION IN MARKS PANE, DRAG ORDERDATE FROM DATAPANE INTO ALL OPTION IN MARKS PANE THEN RIGHT CLICK AND SELECT MONTH AS CONTINUOUS**

RESULT :

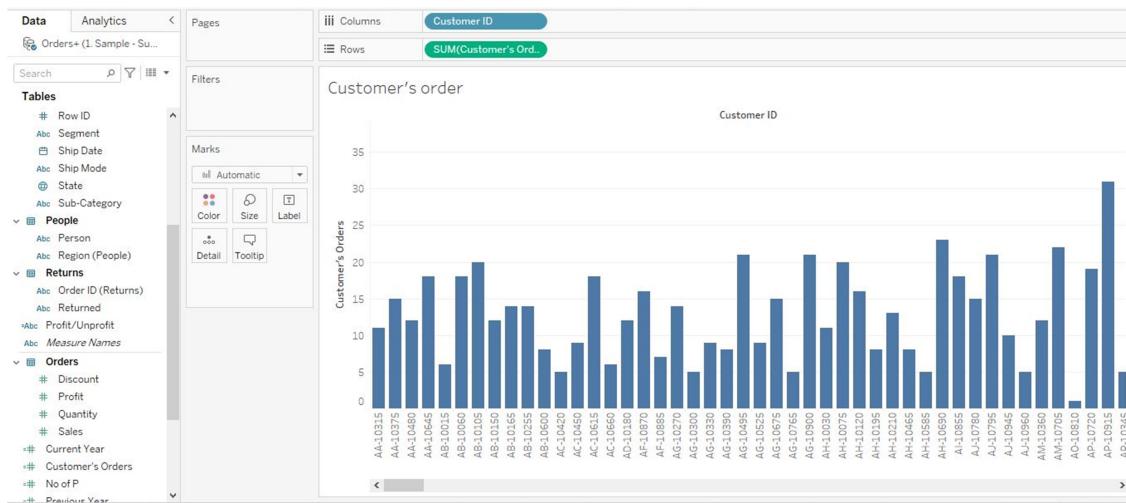


7. HOW MANY CUSTOMERS HAVE MADE 1, 2, 3, N ORDERS?

- CREATE AND CHANGE TABLEAU WORK SHEET NAME AS 'CUSTOMER'S ORDERS'
- CREATE A CALCULATION FIELD WITH THE NAME OF CUSTOMER'S ORDERS BY USING "{FIXED [CUSTOMER ID] : COUNT ([ORDER DATE])}"

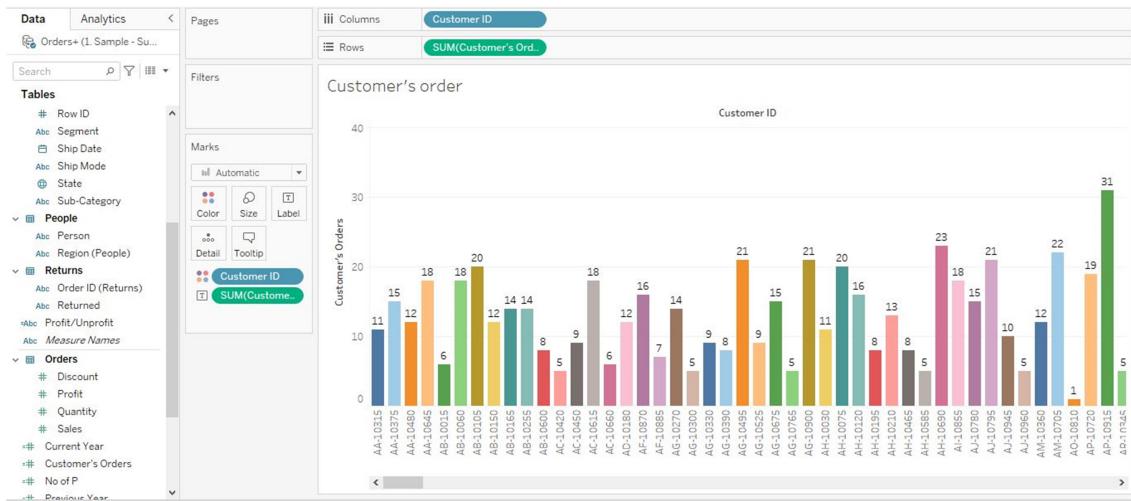


- CREATE AND CHANGE DRAG CUSTOMERS ID FROM ORDERS IN DATA PANE INTO COLUMN AND DRAG CUSTOMER'S ORDERS CALCULATION FROM DATA PANE INTO ROWS



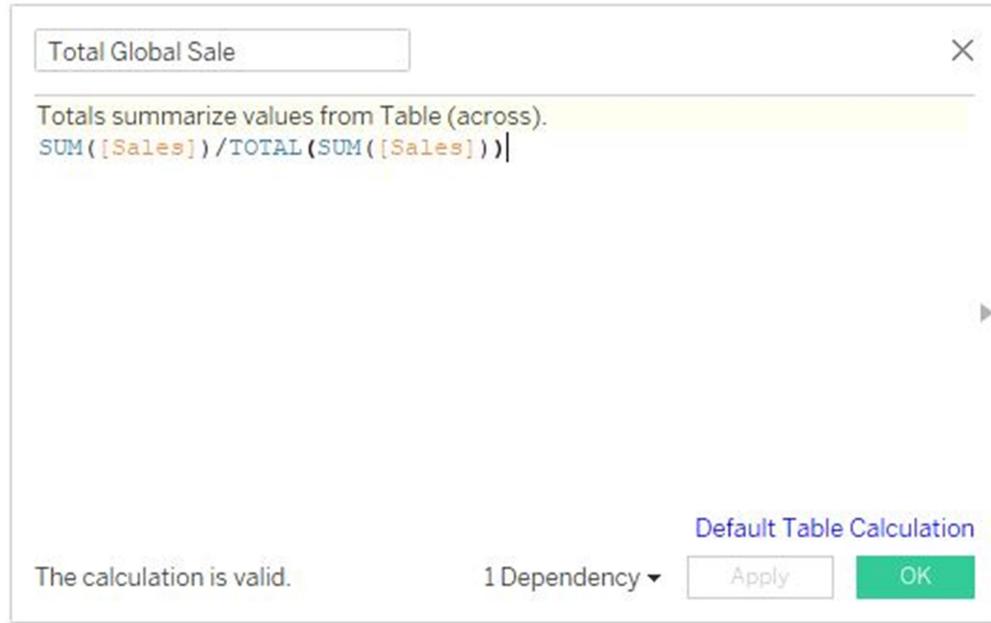
- DRAG CUSTOMER ID FROM DATA PANE INTO COLOUR OPTION IN MARKS PANE AND DRAG CUSTOMER'S ORDERS FROM DATA PANE INTO LABEL OPTION IN MARKS PANE

RESULT :

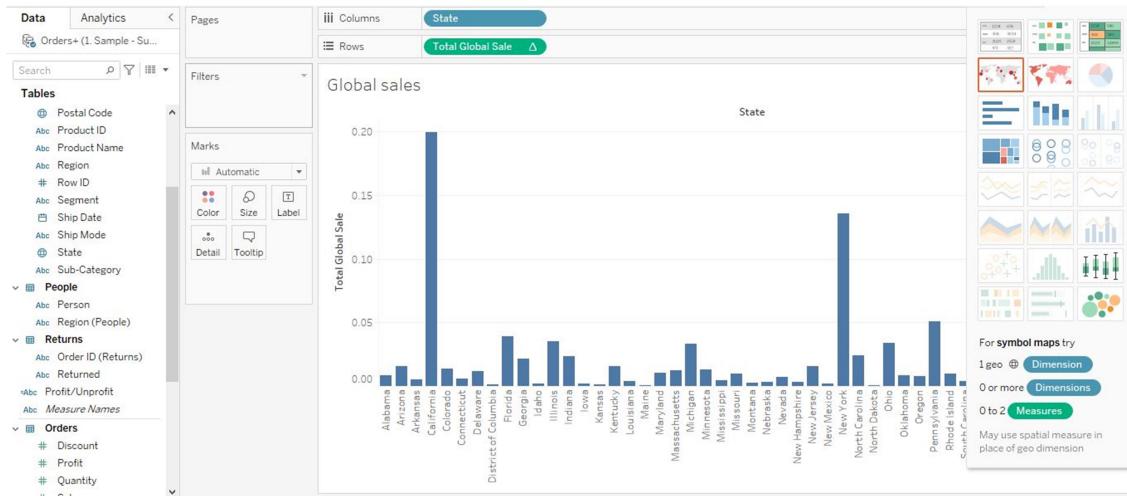


8. FOR A GIVEN MARKET WHAT IS EACH COUNTRY'S PERCENT OF TOTAL GLOBAL SALES?

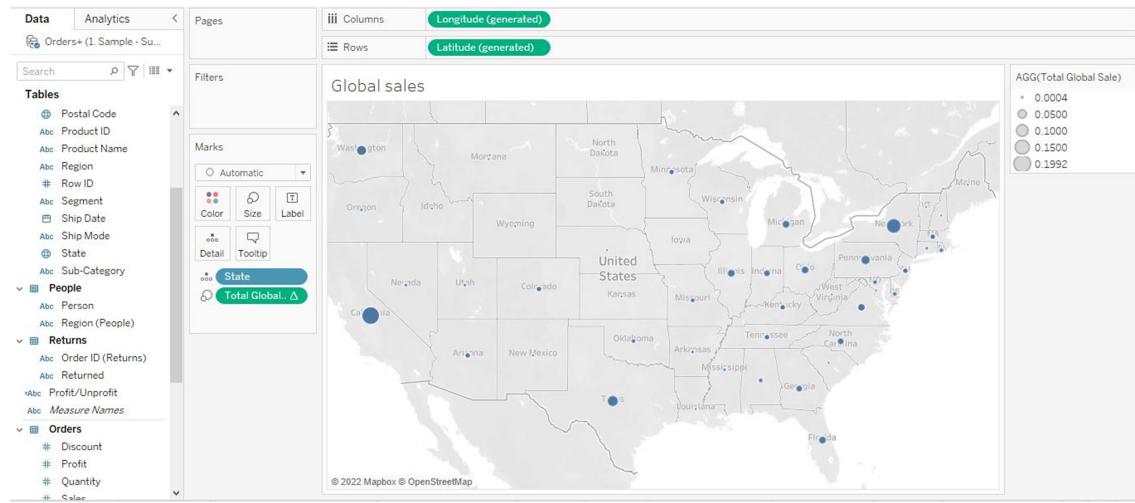
- CREATE AND CHANGE TABLEAU WORK SHEET NAME AS 'GLOBAL SALES'
- CREATE A CALCULATION FIELD WITH THE NAME OF TOTAL GLOBAL SALE BY USING "SUM([Sales])/TOTAL(SUM([Sales]))"



- DRAG STATE FROM ORDERS IN DATA PANE INTO ROWS AND DRAG TOTAL GLOBAL SALE CALCULATION FROM DATA PANE INTO COLUMN

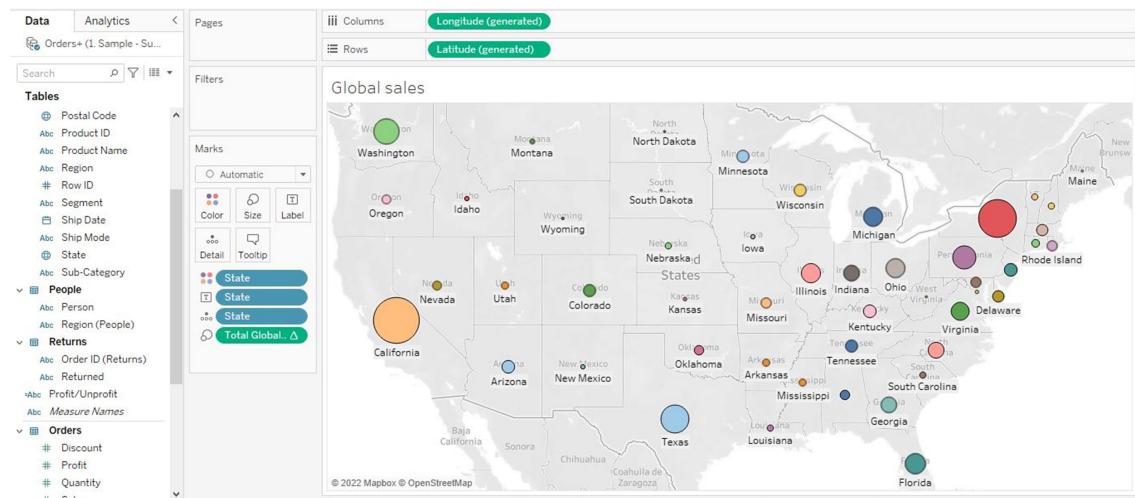


- AFTER DRAG STATE AND TOTAL GLOBAL SALE THEN CLICK SYMBOL MAPS IN SHOW ME THE MAP WILL BE CREATED



- DRAG STATE FROM DATA PANE INTO COLOR OPTION IN MARKS PANE AND DRAG STATE FROM DATA PANE INTO LABEL OPTION IN MARKS PANE

RESULT :



9. HOW MANY DAYS EACH MONTH ARE HIGHLY PROFITABLE, PROFITABLE OR UNPROFITABLE?

- CREATE AND CHANGE TABLEAU WORK SHEET NAME AS ‘PROFITABLE/UNPROFITABLE’
- CREATE A CALCULATION FIELD WITH THE NAME OF PROFIT PER DAY BY USING “{FIXED [Order Date]:SUM([Profit])}”

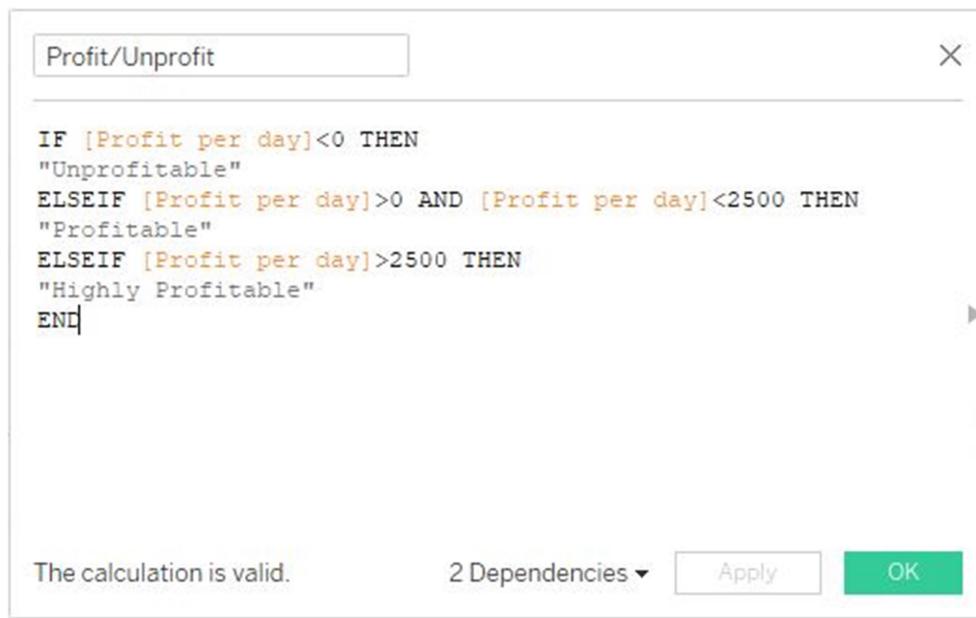


- DRAG ORDER DATE FROM DATAPANE INTO COLUMN, RIGHT CLICK ORDER DATE AND SELECT DATE OPTION IN CONTINOUS, DRAG PROFIT PER DAY CALCULATION FIELD FROM DATAPANE INTO ROWS



- CREATE A CALCULATION FIELD WITH THE NAME OF PROFIT/UNPROFIT BY USING

```
"IF [Profit per day]<0 THEN
"Unprofitable"
ELSEIF [Profit per day]>0 AND [Profit per day]<2500 THEN
"Profitable"
ELSEIF [Profit per day]>2500 THEN
"Highly Profitable"
END"
```



- RIGHT CLICK PROFIT/UNPROFIT CALCULATION FIELD AND SELECT SHOW FILTER AND DRAG INTO COLOR OPTION IN MARKS PANE
- DRAG PROFIT PER DAY CALCULATION FIELD FROM DATAPANE INTO LABLE OPTION IN MARKS PANE

RESULT :

