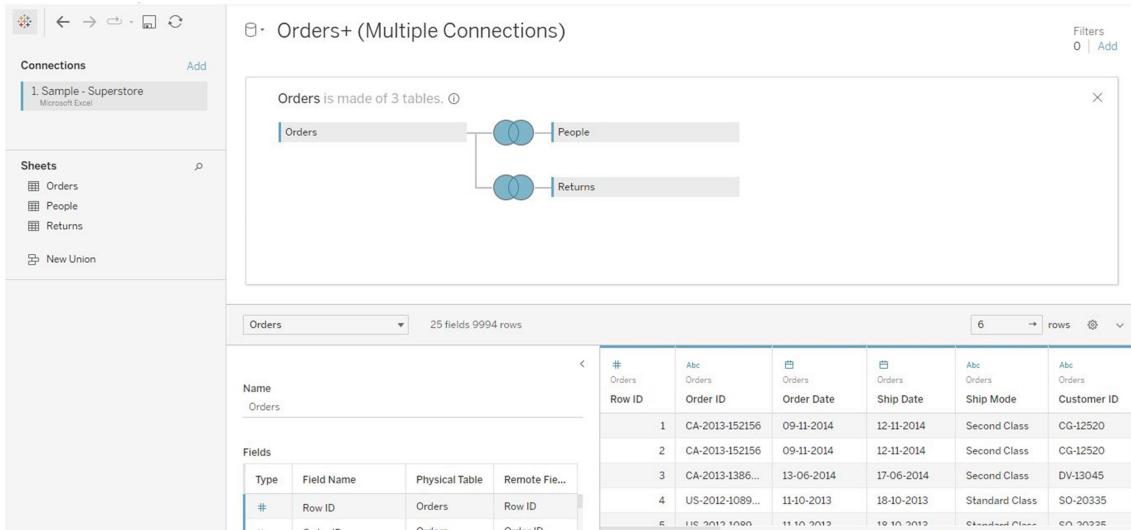


KARTHICK.V
DATA ANALYTICS
TABLEAU
Karthick.v1989@gmail.com
9791760240

MODULE-2 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

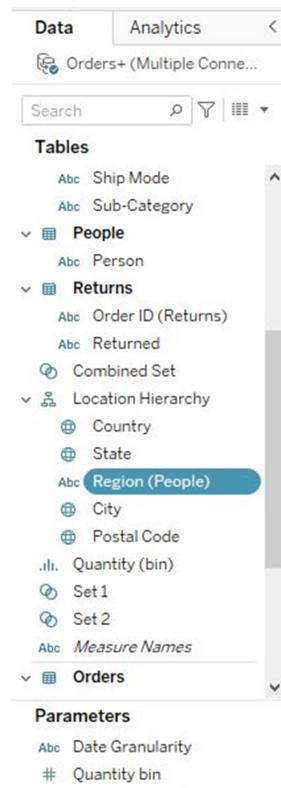


The screenshot shows the Tableau Data Source interface for the 'Orders+' connection. On the left, under 'Connections', there is one entry: '1: Sample - Superstore Microsoft Excel'. Under 'Sheets', there are three sheets: 'Orders', 'People', and 'Returns'. A 'New Union' option is also present. The main area displays the logical table structure: 'Orders' is composed of three physical tables: 'Orders', 'People', and 'Returns'. Below this, the 'Orders' sheet is selected, showing its physical table details. The table has 25 fields and 9994 rows. The columns include Row ID, Order ID, Order Date, Ship Date, Ship Mode, and Customer ID. The data is presented in a grid format with several rows visible.

#	Abc Orders	Orders	Orders	Abc Orders	Abc Orders
Row ID	Order ID	Order Date	Ship Date	Ship Mode	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. CREATE LOCATION HIERARCHY

- CHANGE TABLEAU WORK SHEET NAME AS LOCATION HIERARCHY
- RIGHT CLICK ANY GEOGRAPHICAL ROLE IN ORDERS TABLE ON DATA PANE THEN SELECT HIERARCHY AND CLICK CREATE HIERARCHY IN THE NAME OF LOCATION IN DATA PANE
- RIGHT CLICK COUNTRY GEOGRAPHICAL ROLE IN ORDERS TABLE SELECT HIERARCHY THEN CLICK ADD TO HIERARCHY AND CLICK LOCATION
- RIGHT CLICK STATE GEOGRAPHICAL ROLE IN ORDERS TABLE SELECT HIERARCHY THEN CLICK ADD TO HIERARCHY AND CLICK LOCATION
- RIGHT CLICK REGION DISCRETE DIMENSION IN ORDERS TABLE SELECT HIERARCHY THEN CLICK ADD TO HIERARCHY AND CLICK LOCATION
- RIGHT CLICK CITY GEOGRAPHICAL ROLE IN ORDERS TABLE SELECT HIERARCHY THEN CLICK ADD TO HIERARCHY AND CLICK LOCATION
- RIGHT CLICK POSTAL CODE GEOGRAPHICAL ROLE IN ORDERS TABLE SELECT HIERARCHY THEN CLICK ADD TO HIERARCHY AND CLICK LOCATION



- DRAG LOCATION HIERARCHY IN ROWS
- EXPAND COUNTRY, STATE, REGION, CITY AND POSTAL CODE
- DRAG COUNTRY IN TEXT OPTION ON MARKS PANE
- DRAG POSTAL CODE IN COLOR OPTION ON MARKS PANE

RESULT :

Screenshot of a Tableau dashboard showing the results of the drag-and-drop operations.

Data Source: Orders+ (Multiple Connections)

Tables:

- People
- Returns
- Location Hierarchy (Country, State, Region (People), City, Postal Code)
- Orders

Measures:

- Sub-Category
- Person
- Order ID (Returns)
- Returned
- Latitude (generated)
- Longitude (generated)
- Orders (Count)
- Measure Values

Pages:

Columns:

Rows: Country, Region (People), State, City, Postal Code

Marks:

- Automatic
- Color (highlighted)
- Size
- Text
- Detail
- Tooltip
- Country
- Postal Code

Location Hierarchy:

Country	Region (People)	State	City	Postal Code	United States
United States	Central	Missouri	Saint Louis	63116	United States
		Nebraska	Omaha	68104	United States
		Oklahoma	Tulsa	74133	United States
	Texas	Amarillo	79109	United States	
		Austin	78745	United States	
		Dallas	75081	United States	
			75217	United States	
		El Paso	79907		
		Fort Worth	76106	United States	
		Haltom City	76117	United States	
East	Wisconsin	Houston	77041	United States	
		Pasadena	77095	United States	
		Pearland	77506	United States	
	Delaware	Pharr	78577	United States	
		Round Rock	78664	United States	
		San Antonio	78207	United States	
		Newark	19711	United States	
	Maryland	Wilmington	19805	United States	
		Columbia	21044	United States	
		Rockville	20852	United States	
Massachusetts	Everett	02149	United States		

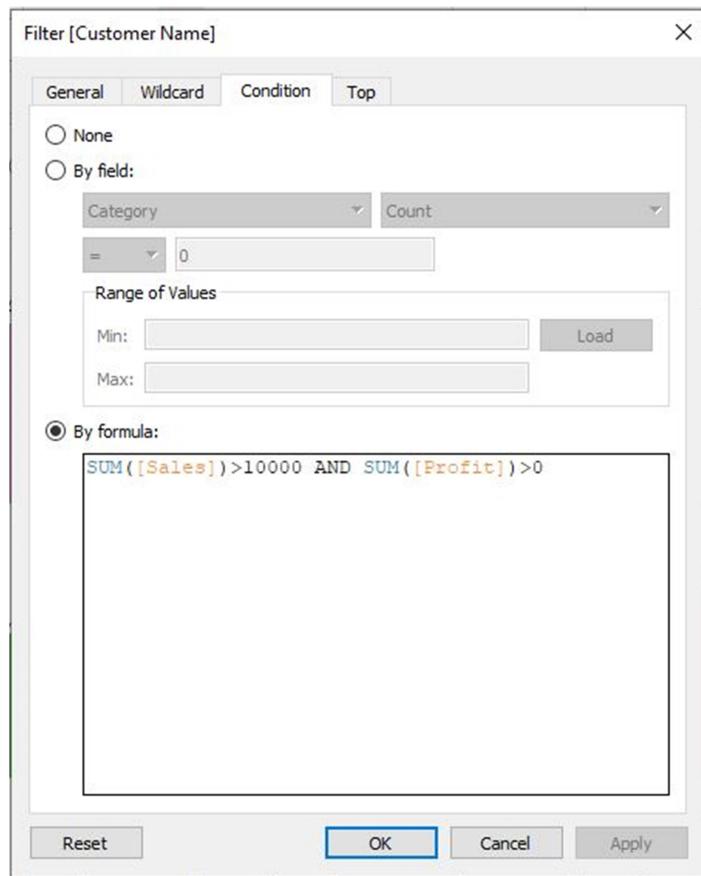
Highlight Country: United States

Postal Code:

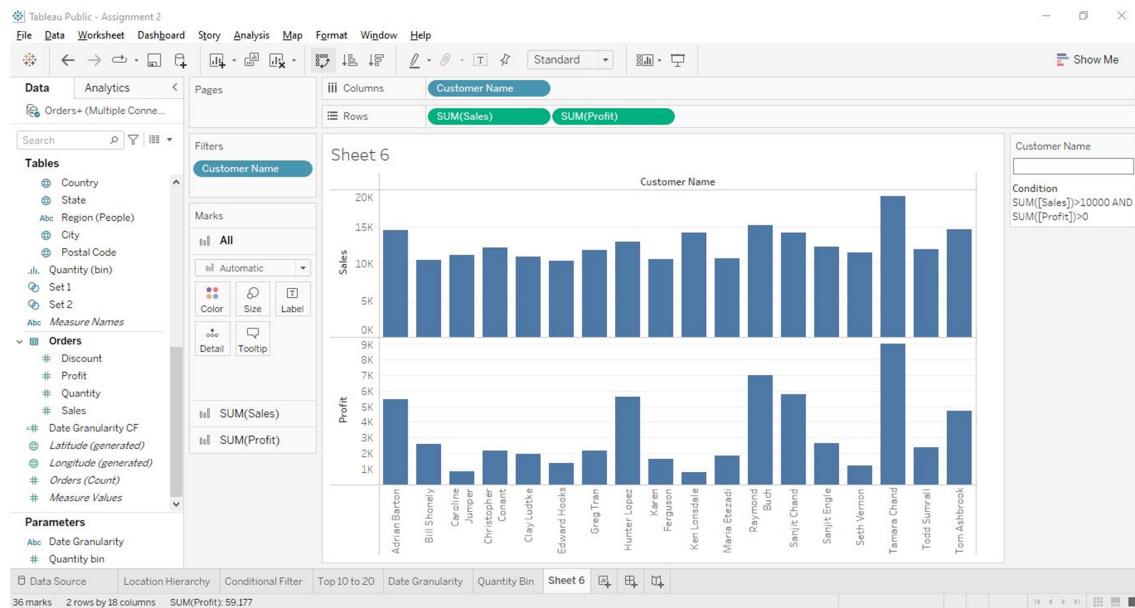
- 01852
- 02149
- 02169
- 02908
- 03301
- 08701
- 10009
- 10011
- 10024
- 10035
- 10801
- 11572
- 12180
- 13440
- 14609
- 17403
- 19120
- 19134
- 19140
- 19711
- 19805

2. CONDITIONAL FILTER TO SHOW SALES>1000 AND PROFIT>0 FOR CUSTOMER DIMENSION

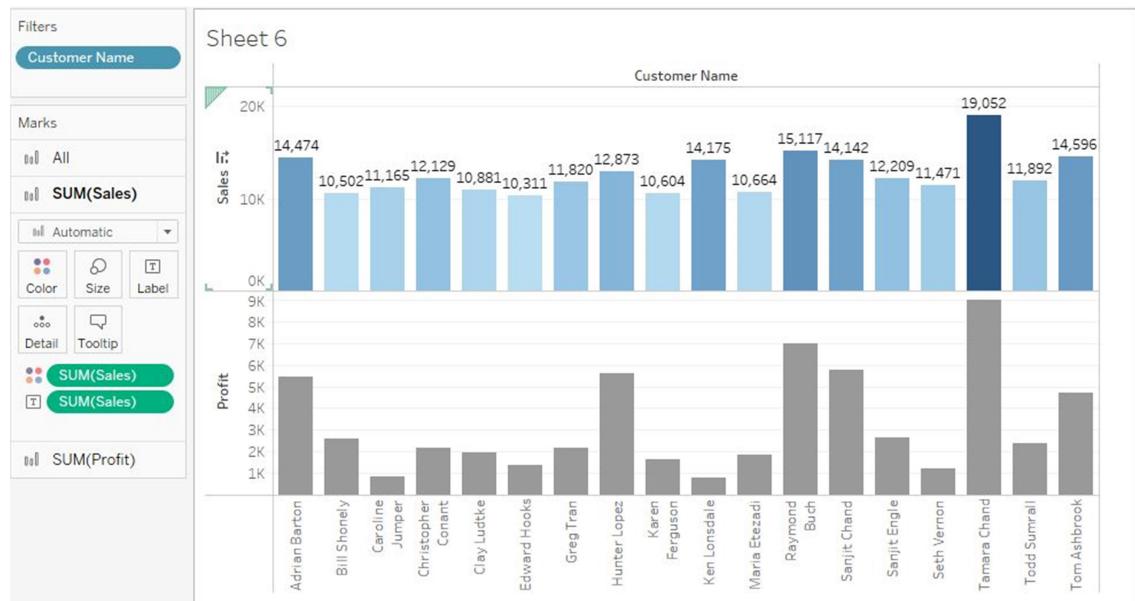
- CHANGE TABLEAU WORK SHEET NAME AS ‘CONDITIONAL FILTER’
- DRAG CUSTOMER NAME INTO COLUMN AND RIGHT CLICK SELECT SHOW FILTER THEN RIGHT CLICK SELECT EDIT FILTER
- SELECT CONDITIONAL MENU AND CLICK BY FORMULA OPTION THEN GIVE CONDITION AS “**SUM([Sales])>10000 AND SUM([Profit])>0**” THEN CLICK OK



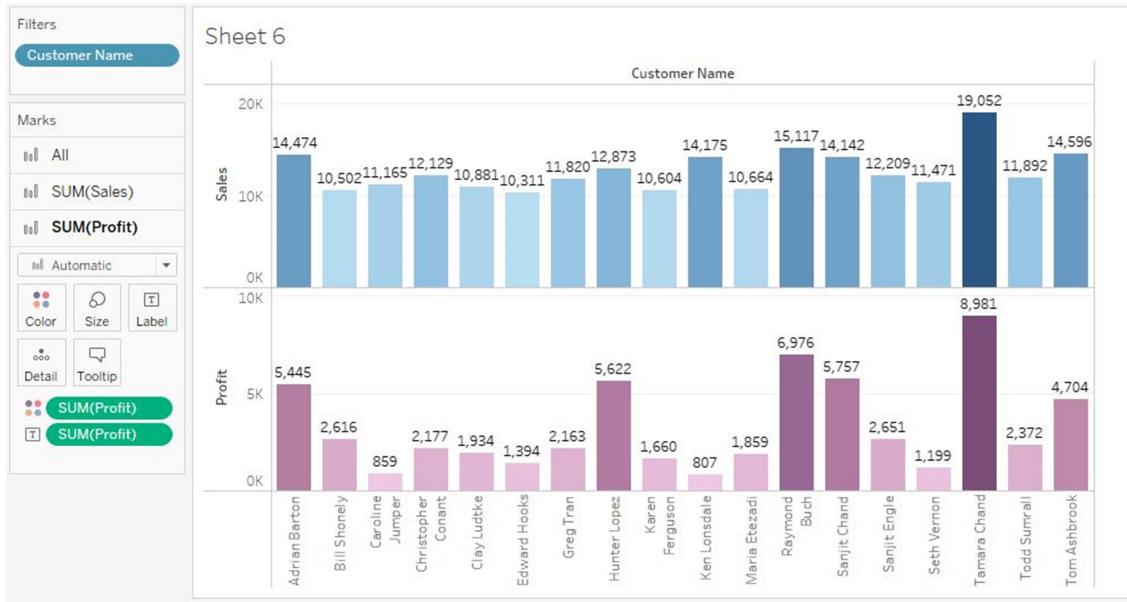
- DRAG SALES AND PROFIT FROM DATA PANE TO ROWS



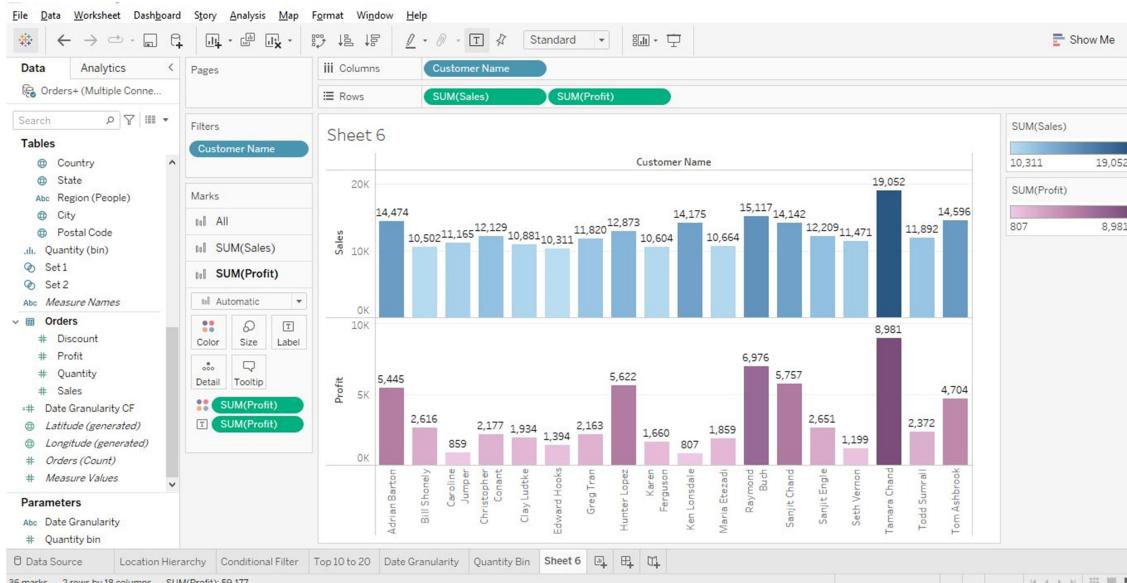
- CLICK SALES IN THE MARKS MENU AND DRAG SALES FROM DATA PANE TWICE THEN CLICK COLOR AND LABEL OPTIONS FOR SALES IN THE MARKS MENU



- CLICK PROFIT IN THE MARKS MENU AND DRAG PROFIT FROM DATA PANE TWICE THEN CLICK COLOR AND LABEL OPTIONS FOR SALES IN THE MARKS MENU

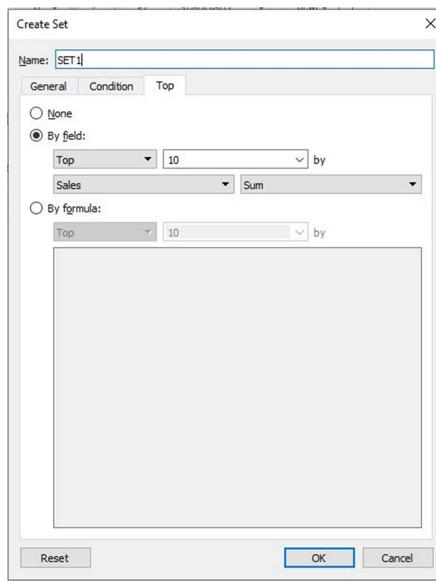


RESULT :

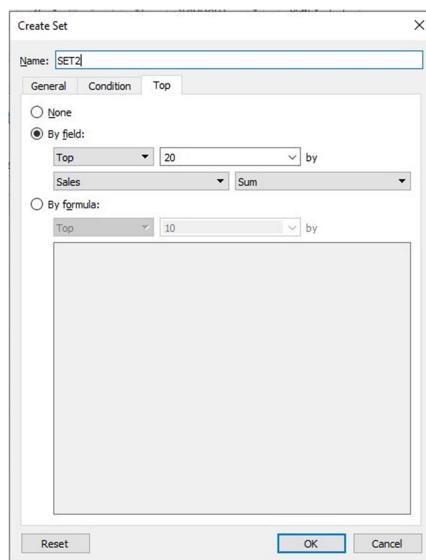


3. CREATE A SET TO SHOW TOP 10 TO 20 CUSTOMERS

- CHANGE TABLEAU WORK SHEET NAME AS 'TOP 11 TO 20'
- RIGHT CLICK THE CUSTOMER ID CLICK CREATE AND SELECT SET OPTION
- THE SET WINDOW SHOWN THEN GIVE NAME AS SET1 AND CLICK TOP MENU THEN CLICK BYFIELD OPTION SELECT TOP AND 10 BY SALES WITH SUM AND CLICK OK



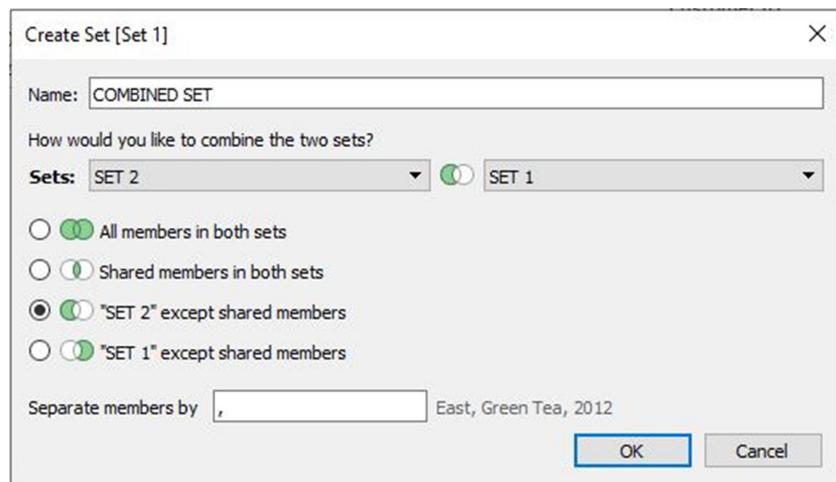
- RIGHT CLICK THE CUSTOMER ID CLICK CREATE AND SELECT SET OPTION
- THE SET WINDOW SHOWN THEN GIVE NAME AS SET2 AND CLICK TOP MENU THEN CLICK BYFIELD OPTION SELECT TOP AND 20 BY SALES WITH SUM AND CLICK OK



- SETS CREATED AND SHOWN IN DATA PANE

Data Analytics <
Orders+ (Multiple Conne...
Search ⌂ ⌄ ⌁ ⌂
Tables
- People
 Abc Person
- Returns
 Abc Order ID (Returns)
 Abc Returned
- Location Hierarchy
 Abc Country
 Abc State
 Abc Region (People)
 Abc City
 Abc Postal Code
- SET 1
- SET 2
Abc Measure Names

- RIGHT SET2 AND CLICK CREATE COMBINED SET AND CHANGE NAME AS COMBINED SET AND SELECT SET2 AND SET1 IN SET OPTION THEN SELECT "SET 2" EXCEPT SHARED MEMBERS THEN CLICK OK

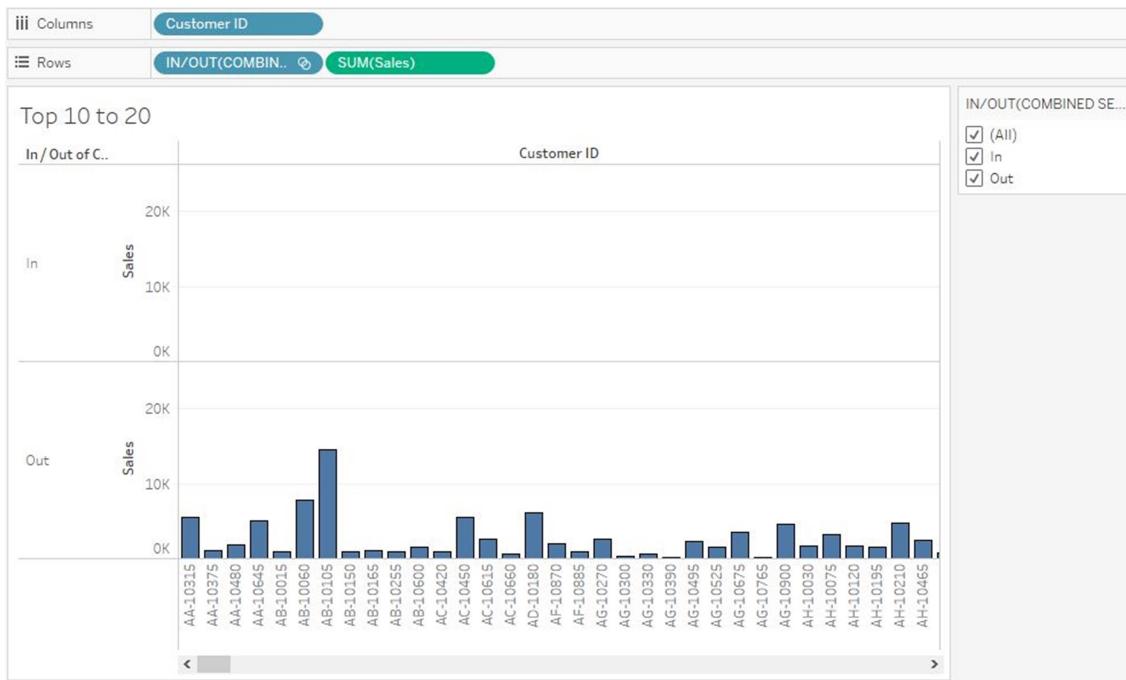


- RIGHT CLICK COMBINED SET AND CLICK SHOW FILTER THEN THE COMBINED SET SHOW IN FILTER MENU AND THE FILTER OPTIONS ALL, IN, OUT SHOWN

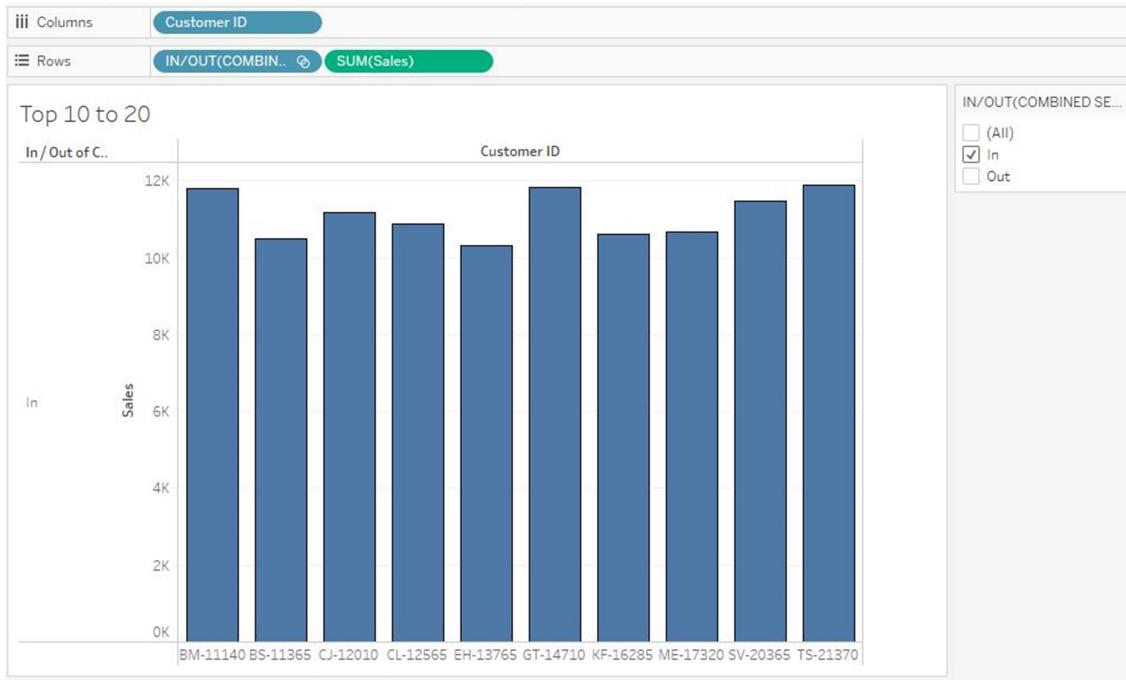
Filters
IN/OUT(COMBIN..)

IN/OUT(COM... ⌄ ⌄ ⌁ ⌂
✓ (All)
✓ In
✓ Out

- DRAG CUSTOMER ID INTO COLUMNS, DRAG COMBINED SET AND SALES INTO ROWS



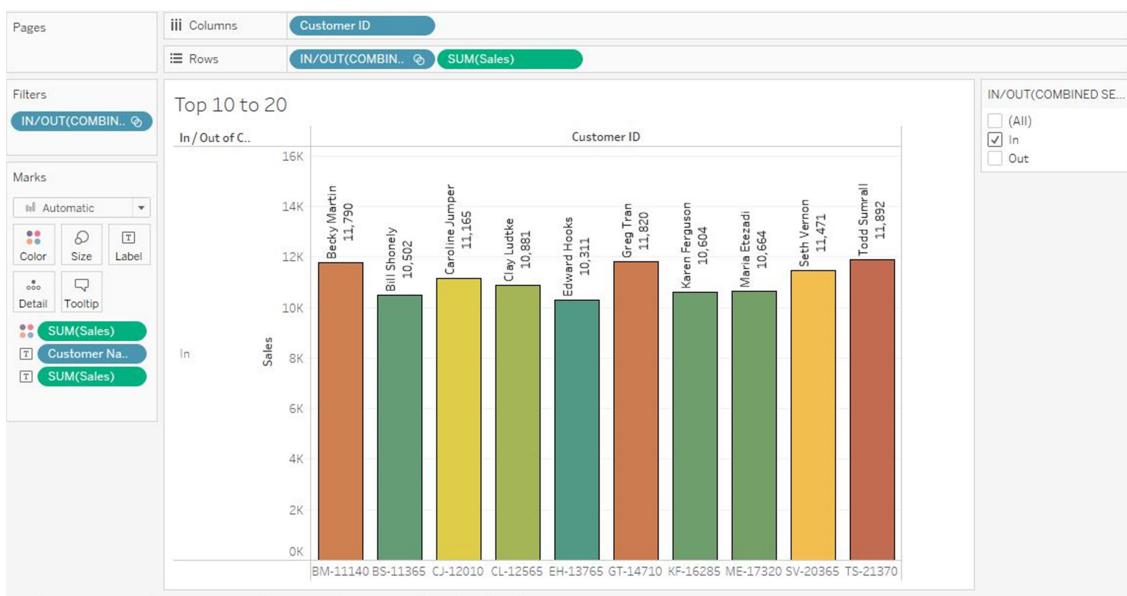
- SELECT IN OPTION OF COMBINED SET FILTER



- DRAG SALES FROM DATA PANE TO MARKS PANE WITH COLOR OPTIONS

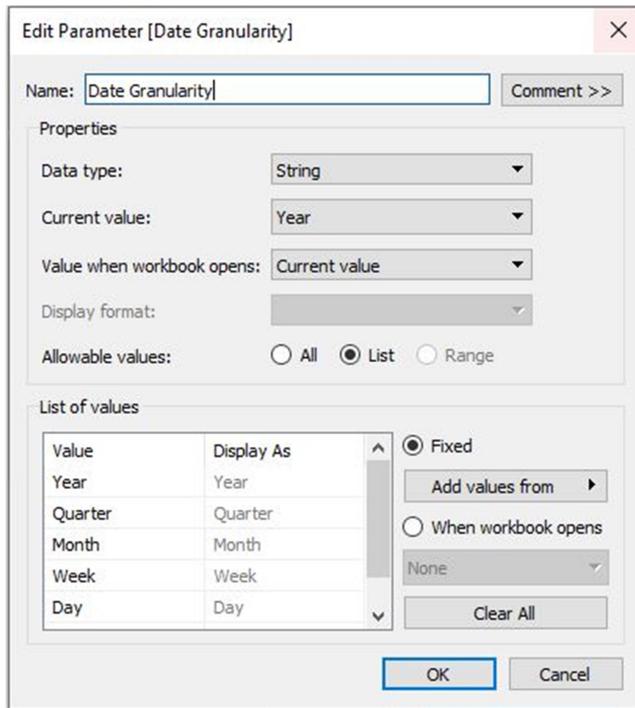
- DRAG CUSTOMER NAME FROM DATA PANE TO MARKS PANE WITH LABEL OPTIONS
- DRAG SALES FROM DATA PANE TO MARKS PANE WITH LABEL OPTIONS

RESULT :



4. CREATE A DATE PARAMETER TO DYNAMICALLY CHANGE THE DATE GRANULARITY VIEW

- CHANGE TABLEAU WORK SHEET NAME AS ‘DATE GRANULARITY’
- CREATE PARAMETER WITH STRING DATA TYPE AND ADD YEAR, QUARTER, MONTH, WEEK AND DAY IN LIST OF VALUES BY “DATA GRANULARITY” NAME



- RIGHT CLICK DATA GRANULARITY PARAMETER AND RIGHT CLICK AND SELECT CREATE AND CLICK CALCULATION FIELD
AND WRITE FORMULA WITH THE NAME OF “DATE GRANULARITY CF”
CASE [DATE GRANULARITY]
WHEN “YEAR” THEN YEAR(ORDER DATE)
WHEN “QUARTER” THEN QUARTER(ORDER DATE)
WHEN “MONTH” THEN MONTH(ORDER DATE)
WHEN “WEEK” THEN WEEK(ORDER DATE)
WHEN “DAY” THEN DAY(ORDER DATE)
END

Date Granularity CF

```
CASE [Date Granularity]
WHEN "Year" THEN YEAR([Order Date])
WHEN "Quarter" THEN QUARTER([Order Date])
WHEN "Month" THEN MONTH([Order Date])
WHEN "Week" THEN WEEK([Order Date])
WHEN "Day" THEN DAY([Order Date])
END
```

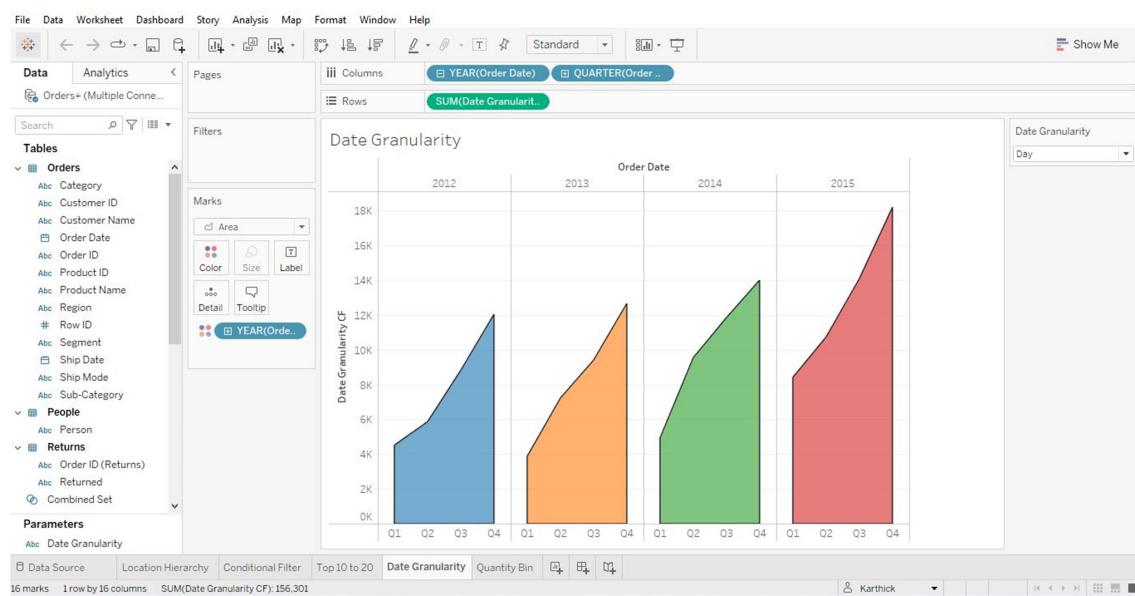
The calculation is valid.

1 Dependency ▾

Apply **OK**

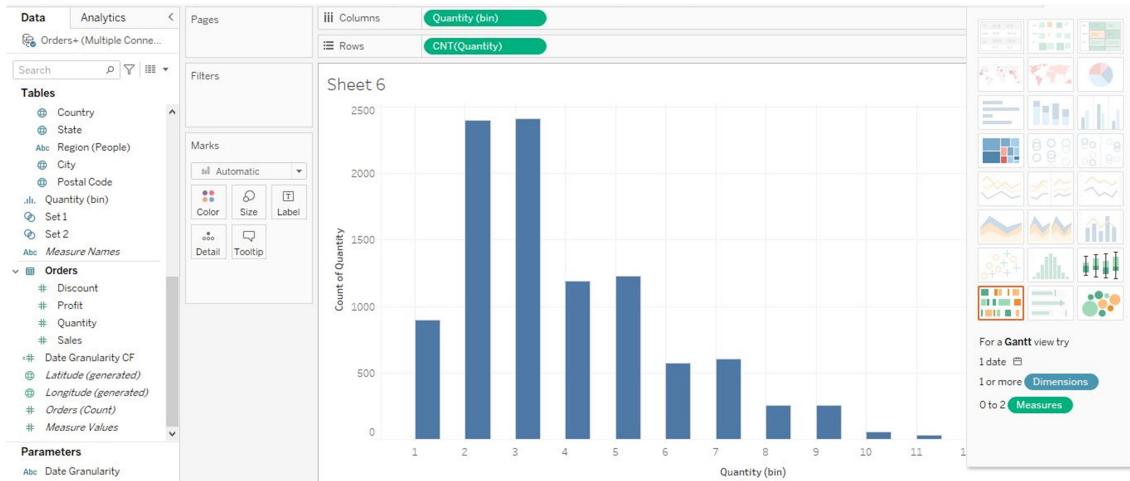
- DRAG ORDER DATE FROM DATA PANE AND ADD IN COLUMNS
- DRAG DATE GRANULARITY CF INTO ROWS
- DRAG ORDER DATE INTO MARKS THEN SELECT COLOR AREA CHART OPTIONS
- RIGHT CLICK DATE GRANULARITY AND SELECT SHOW PARAMETER.
- NOW THE DATE GRANULARITY WORKS WHEN CHANGE THE PARAMETERS

RESULT :

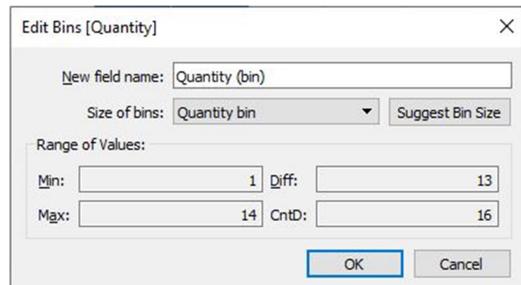


5. CREATE A QUANTITY BIN USING PARAMETER

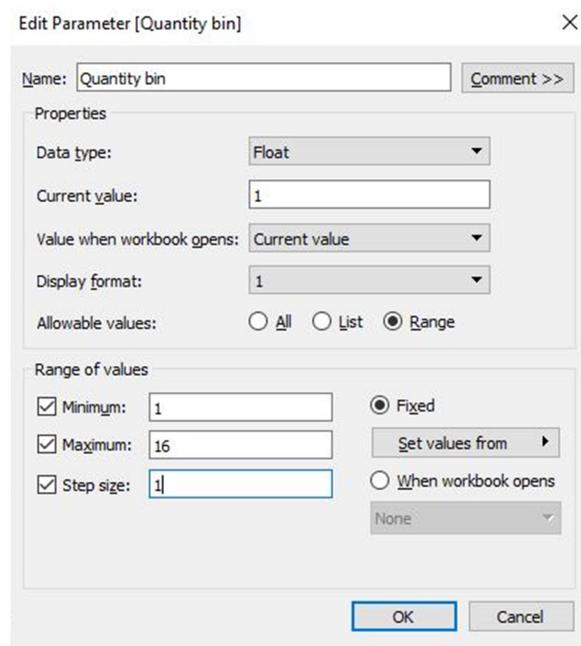
- CHANGE TABLEAU WORK SHEET NAME AS ‘QUANTITY BIN’
- DRAG QUANTITY FROM ORDERS MENU IN DATA PANE TO ROWS THEN SELECT “HISTOGRAM VIEW” IN SHOW ME OPTION NOW THE COUNT OF QUANTITY CREATED IN ROWS AND QUANTITY BIN GENERATED IN DATA PANE AND COLUMN



- RIGHT CLICK QUANTITY BIN IN DATA PANE AND SELECT EDIT OPTION AND EDIT BIN WILL BE SHOWN



- CLICK SIZE OF BINS OPTIONS AND SELECT CREATE NEW PARAMETER, THEN IT WILL SHOWN PARAMETER OPTIONS THEN SET “DATA TYPE AS FLOAT, CURRENT VALUE AS 1, MINIMUM AS 1, MAXIMUM AS 16 AND STEP SIZE 1 WITH RANGE OPTION” THEN CLICK OK



- RIGHT CLICK QUANTITY BIN IN PARAMETER AND SELECT SHOW PARAMETER

RESULT :

