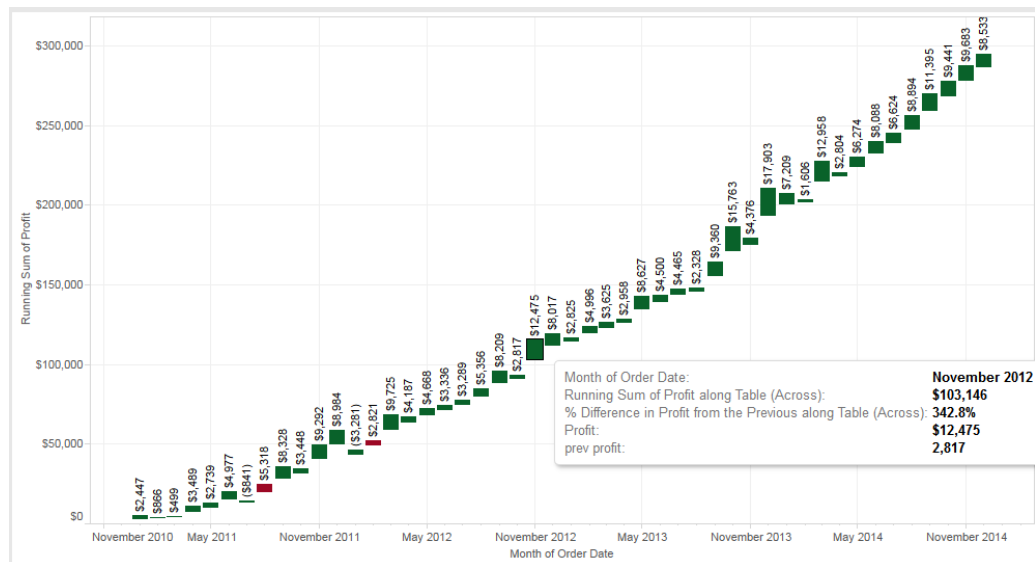


SESSION 34: TABLEAU DESKTOP (CONTD.)

Assignment 1

5. Problem Statement

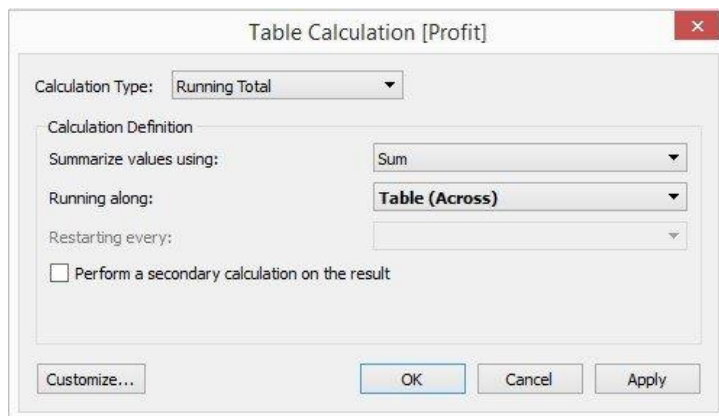
1. Create a Waterfall chart which would show running total profit over a period of time.
2. The color of the mark should be red if the profit recorded for that Month is less than the profit recorded compared to previous month, else Green
3. Adjust the tooltip to show as given in the picture below.



Waterfall charts are **powerful visuals for your data dashboard** because they effectively display the cumulative effect of

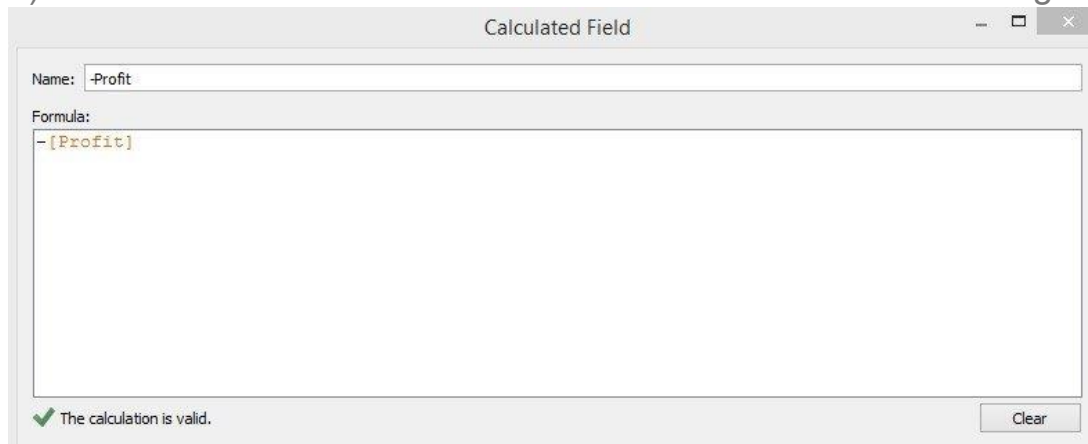
sequential positive and negative values. Building waterfall charts in Tableau requires a few specific steps.

- 1) Connect to the “Sample – Superstore Subset (Excel)” excel file (2014 – 2017) given as link by AcadGild
- 2) Drag the Orders worksheet into the Drag Sheets Here section and select the orange Go to Worksheet button.
- 3) Drag a dimension (order data(month)) to the Columns Shelf and (profit (sum profit)) measure to the Rows Shelf.
- 4) Right-click on the Month field on the Columns Shelf to convert it to “Discrete”.
- 5) Add a Running Sum of Total Table Calculation to the measure on the rows shelf. To do this, right-click on the Profit pill,
- 6) select Add Table Calculation, and add the table calculation:



6)Change the mark type from Automatic to Gantt Bar in the Marks Card.

7) Create a calculated field named “-Profit” and write the following formula: -[Profit]



Calculated Field

Name: -Profit

Formula:

-[Profit]

✓ The calculation is valid.

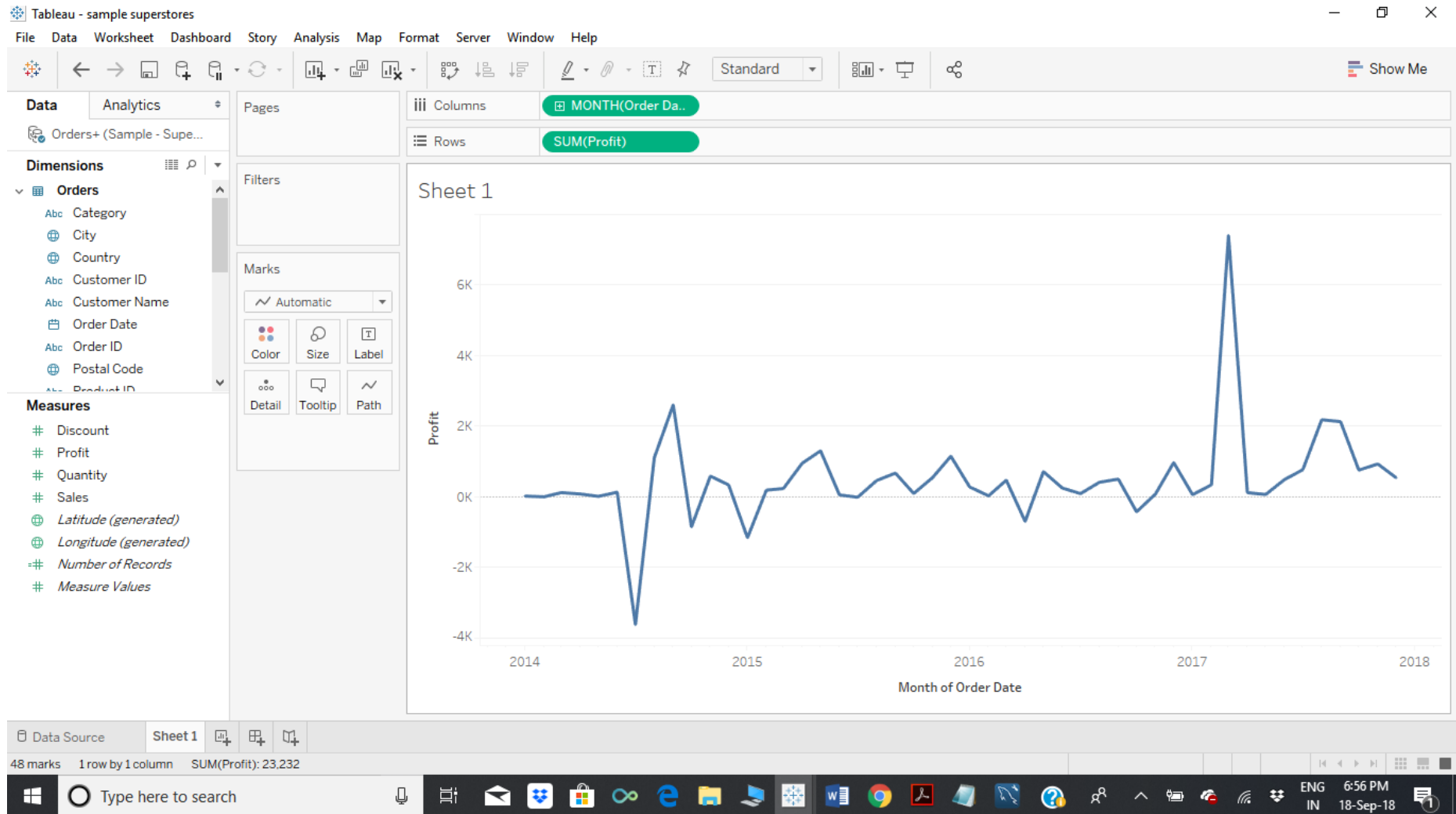
Clear

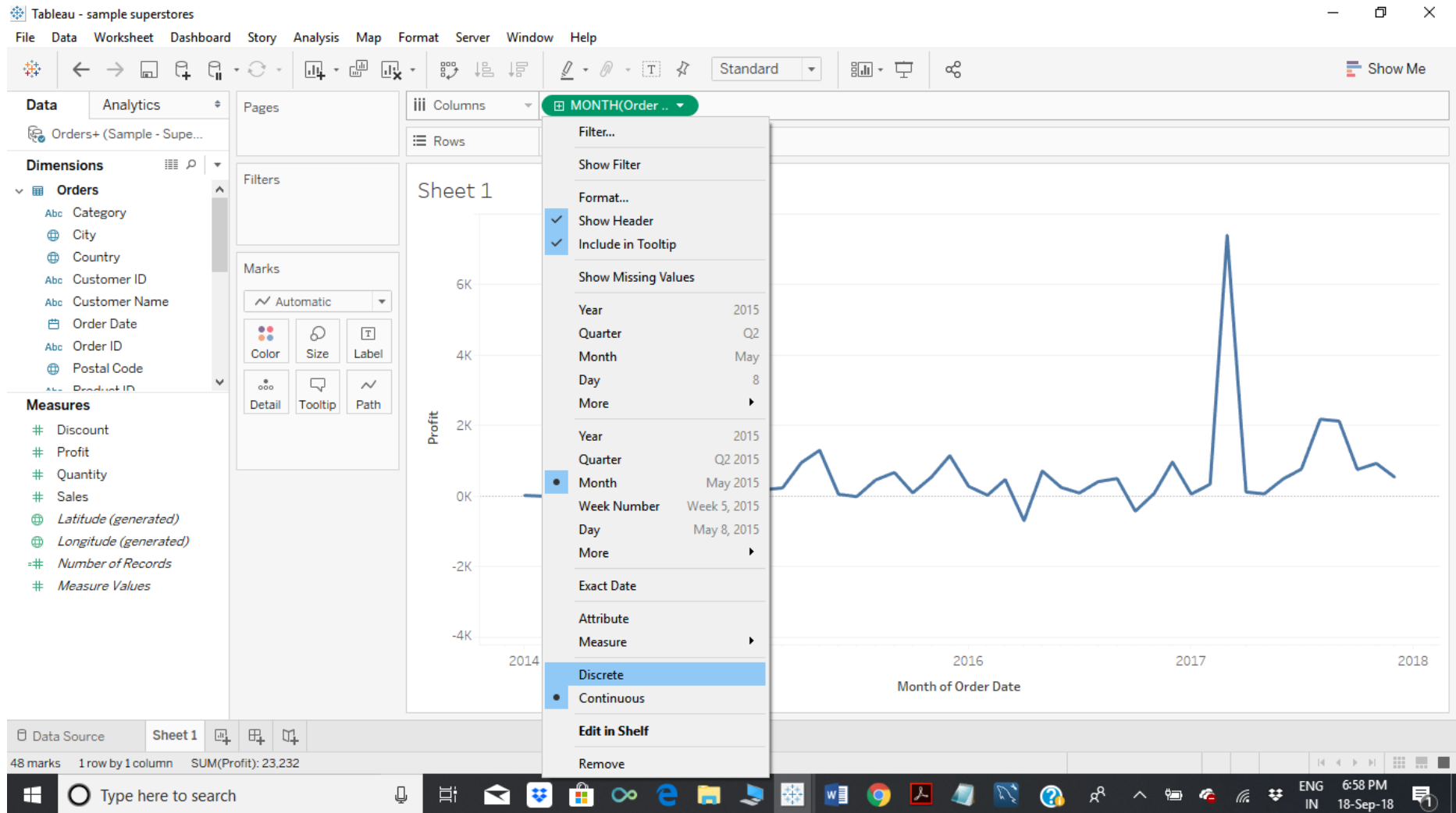
8) Drag the new measure “- Profit” to the size tab on the Marks Card. Positive values will therefore extend our bar upwards and negative values will extend the bar downwards.

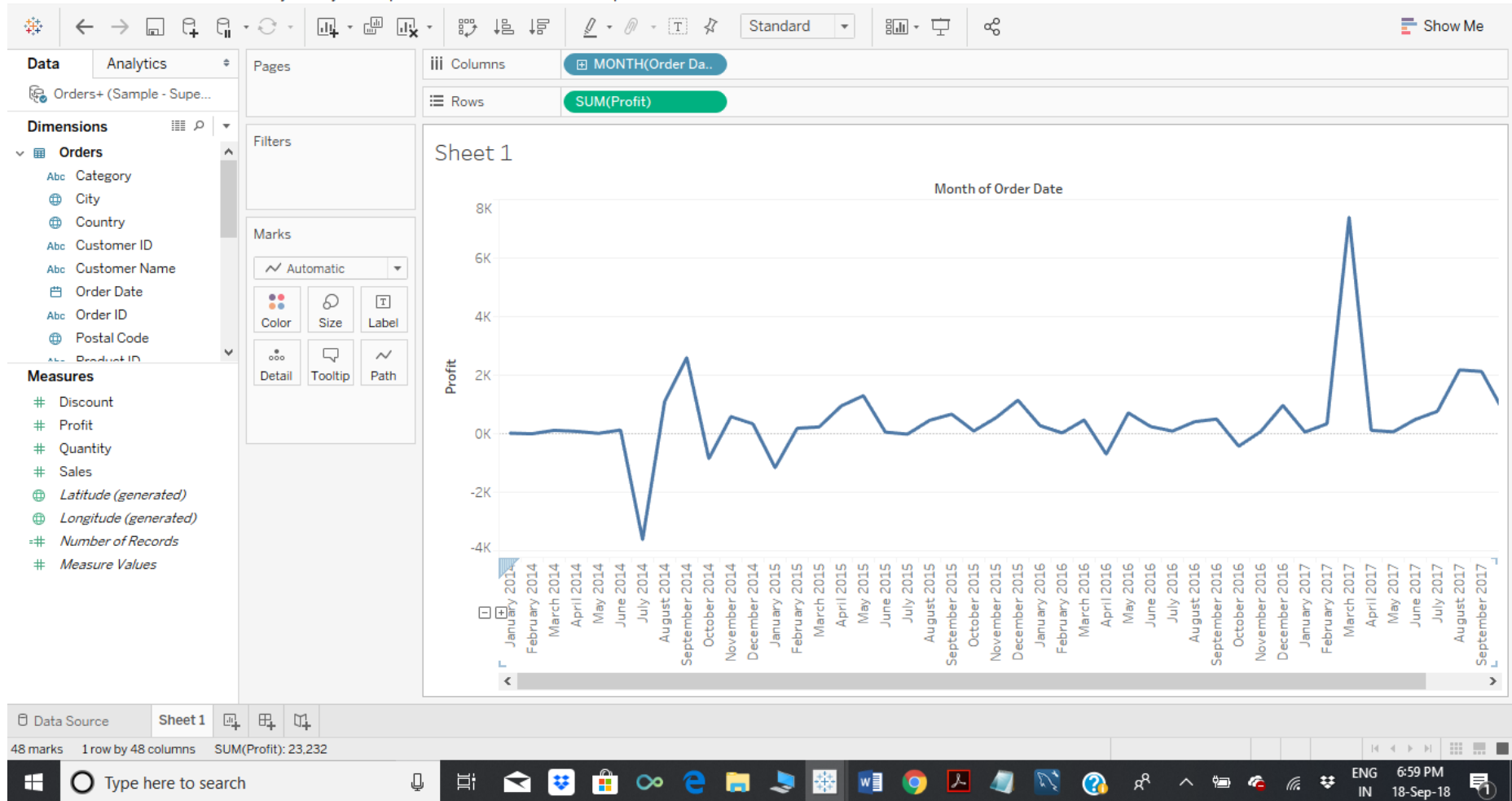
9) Add the Profit measure to the color tab on the marks card and edit the colors and change the color palette to be two stepped. Now, we

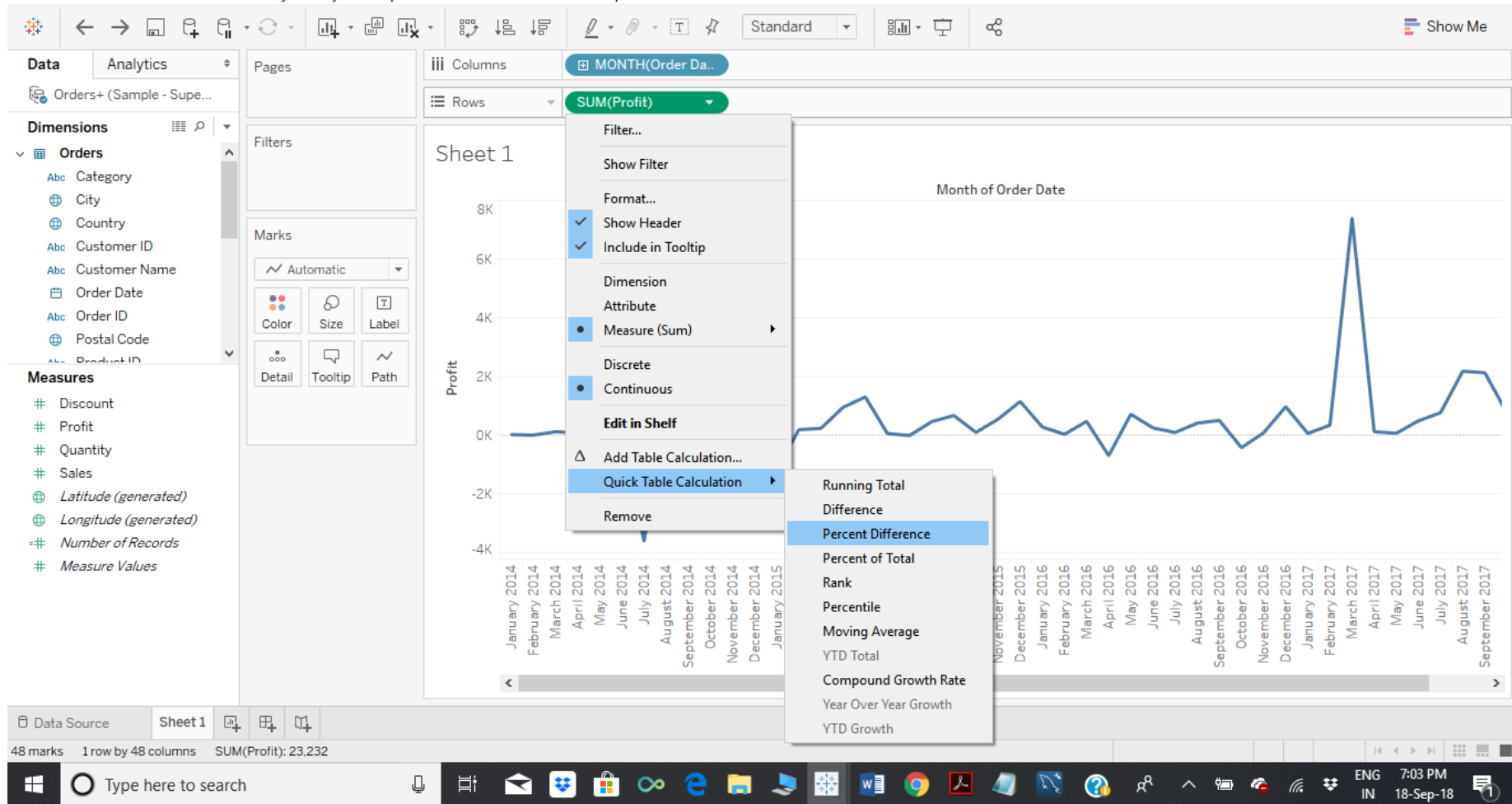
have a working waterfall chart showing growth and contraction in profit from one quarter to the next.

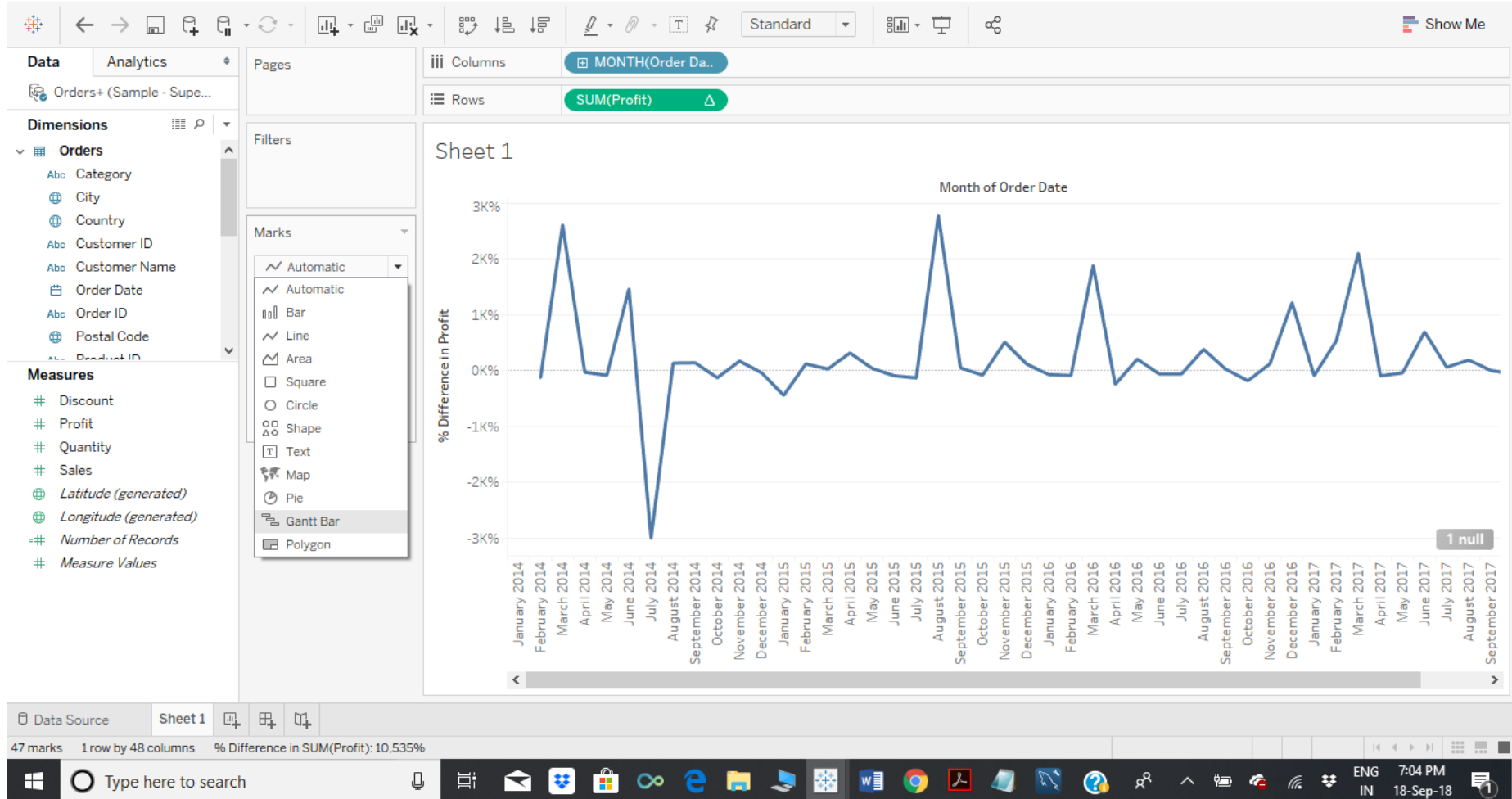
10) All the graph details obtained are provided as screen shot for easy reference

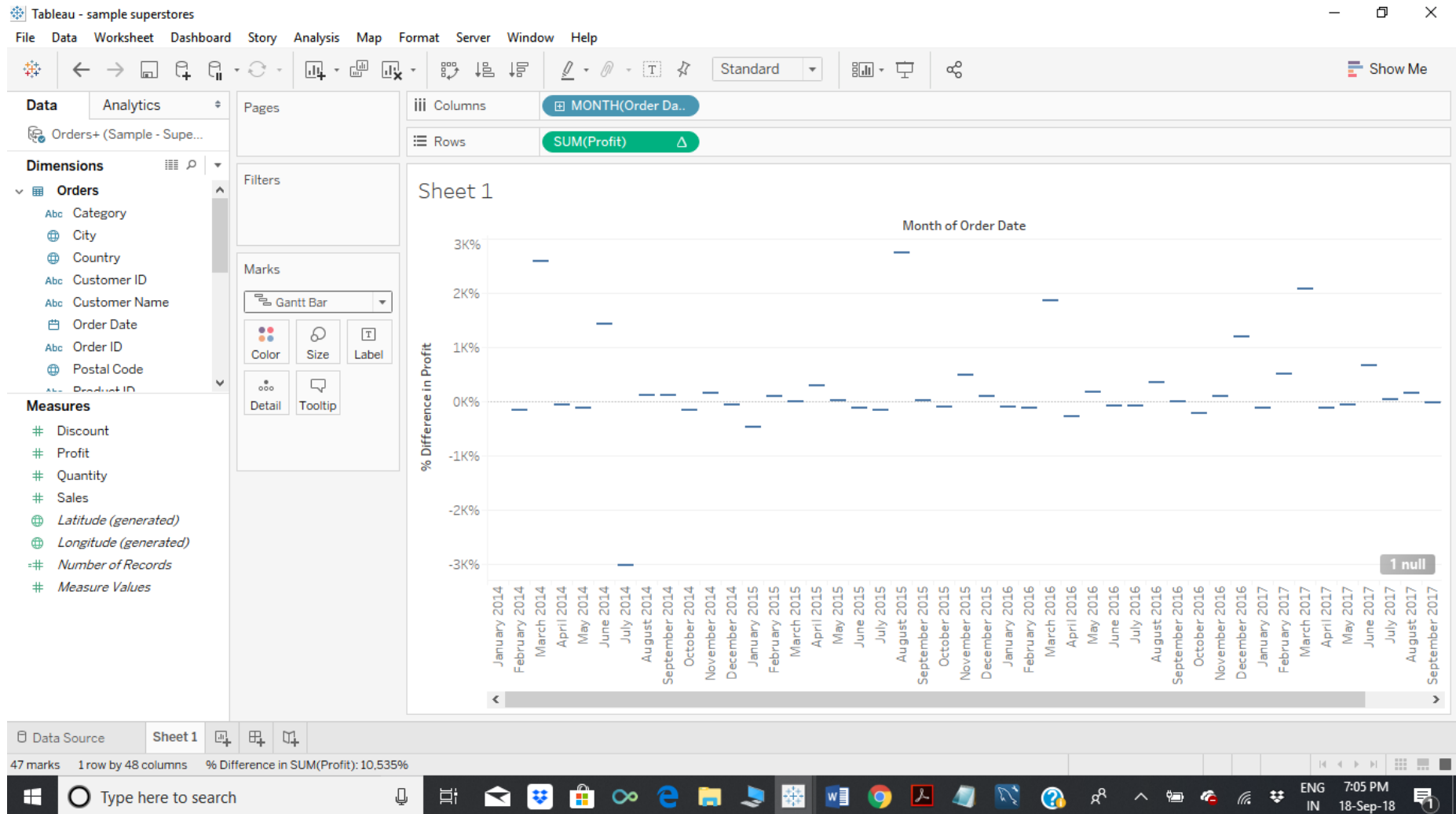


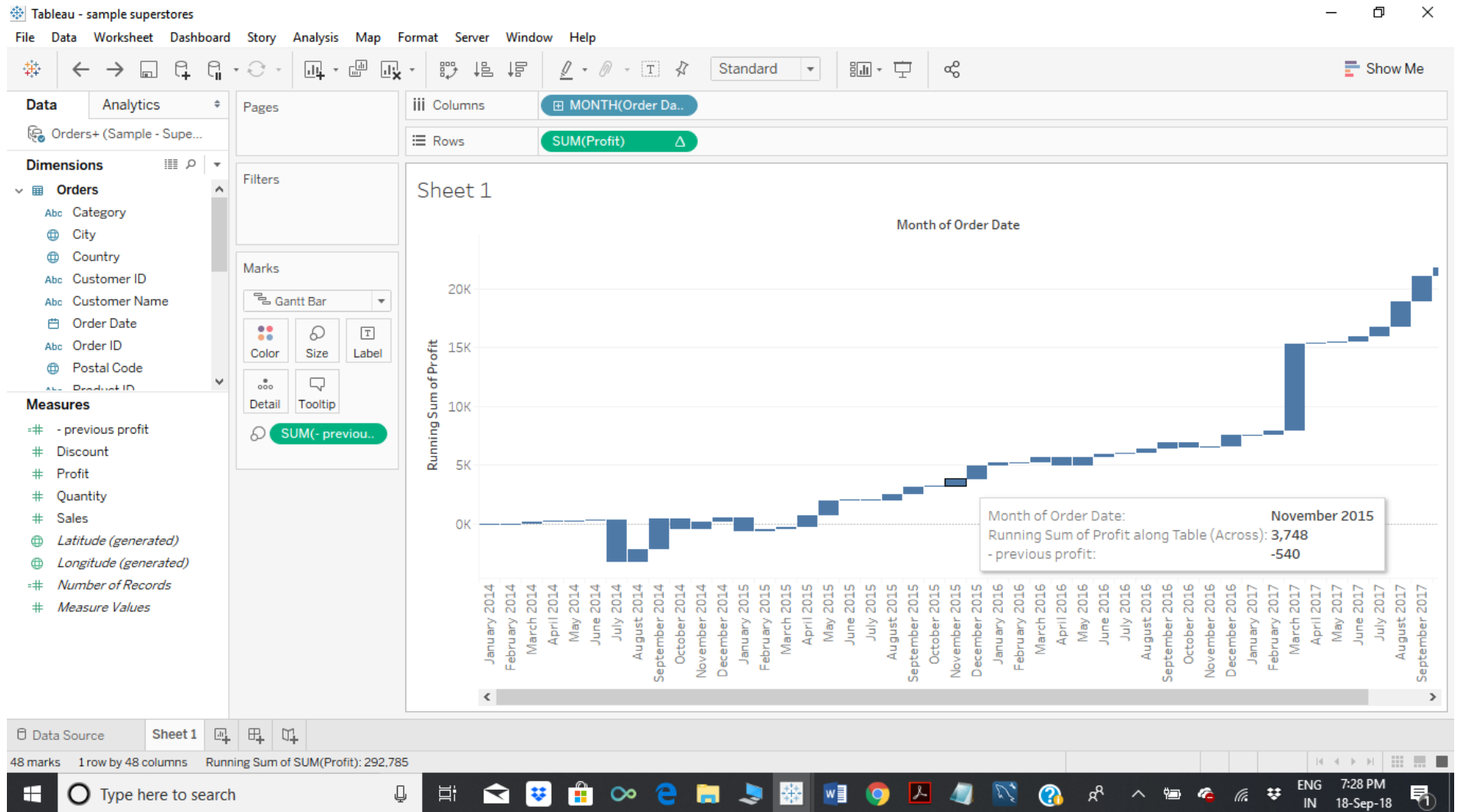


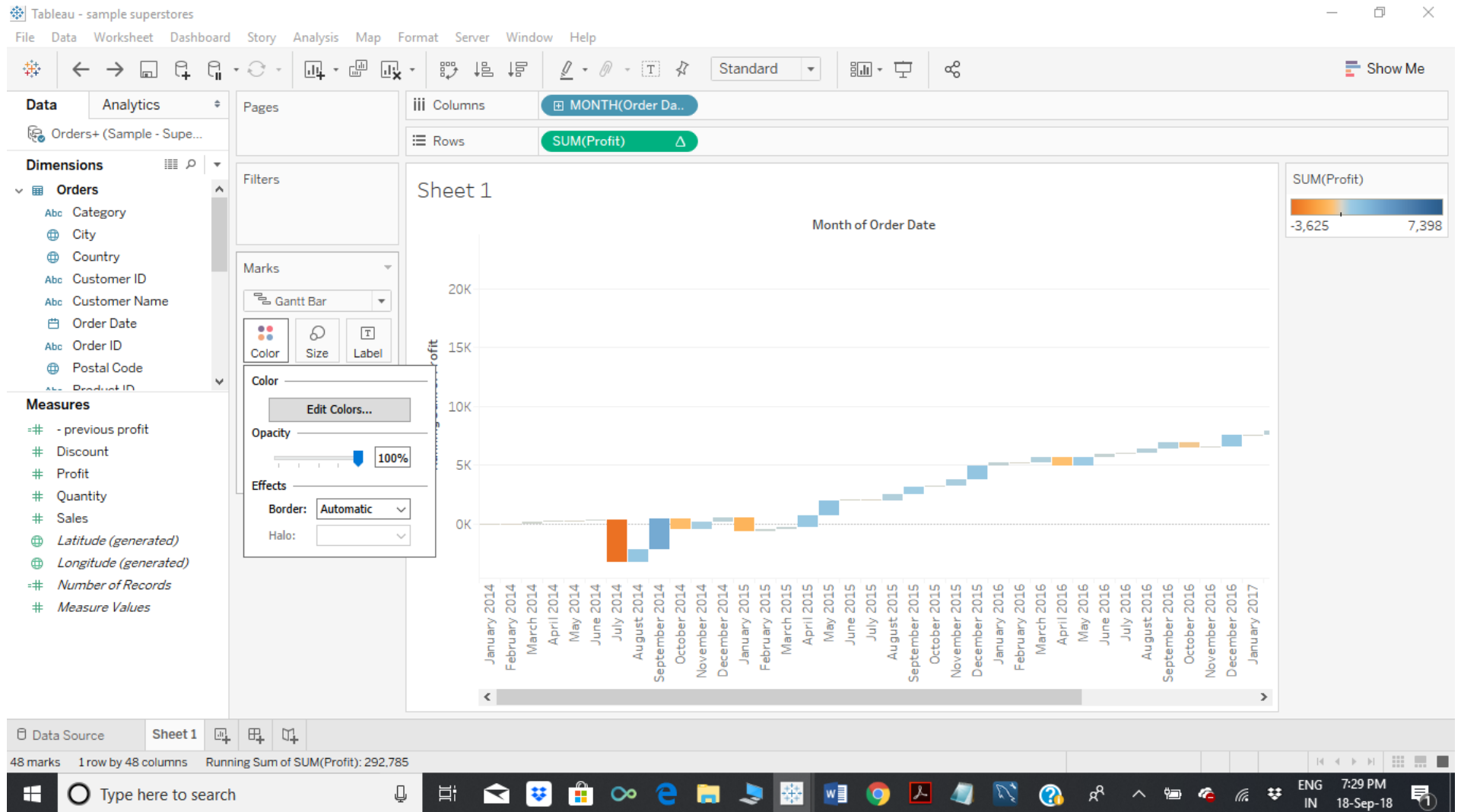


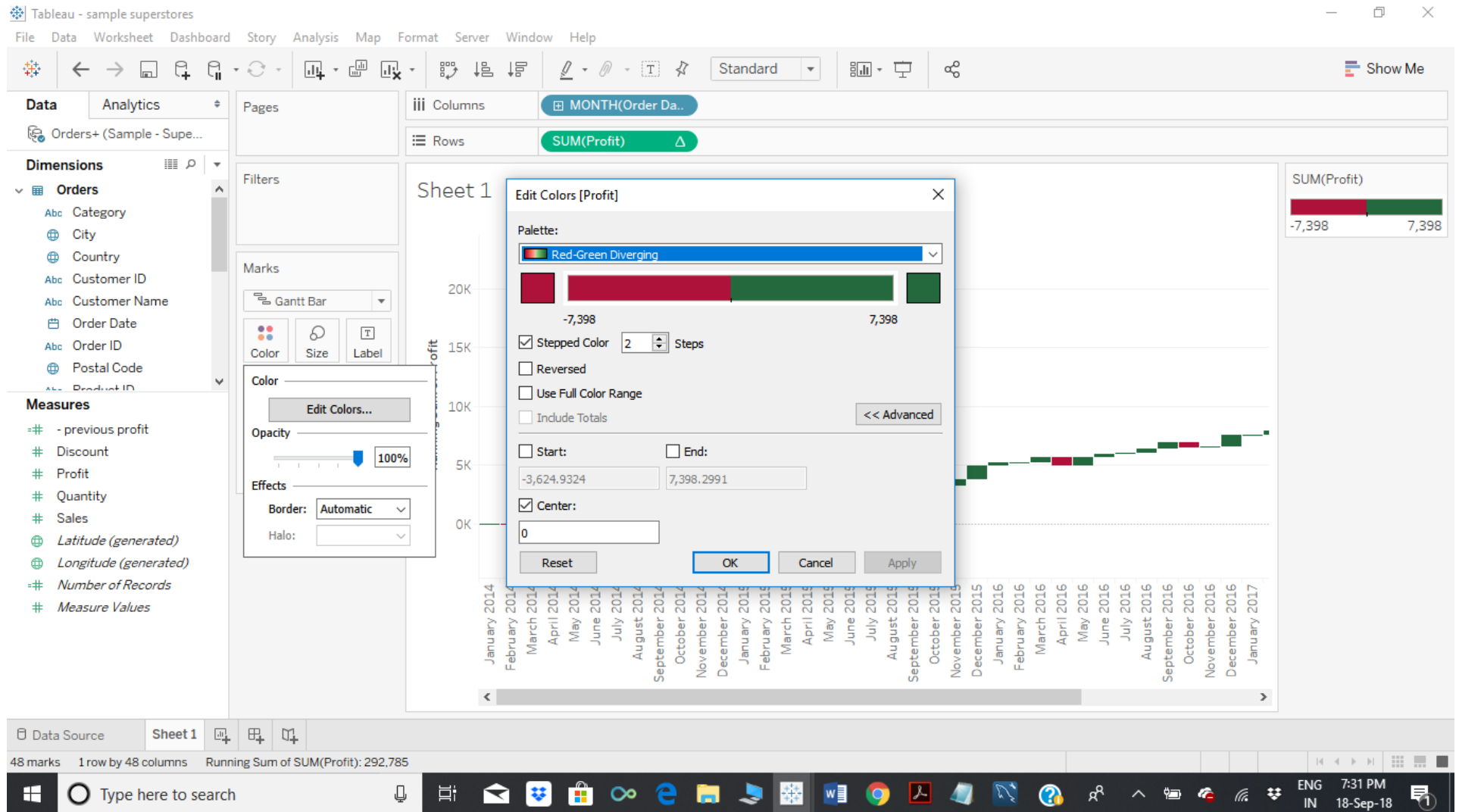












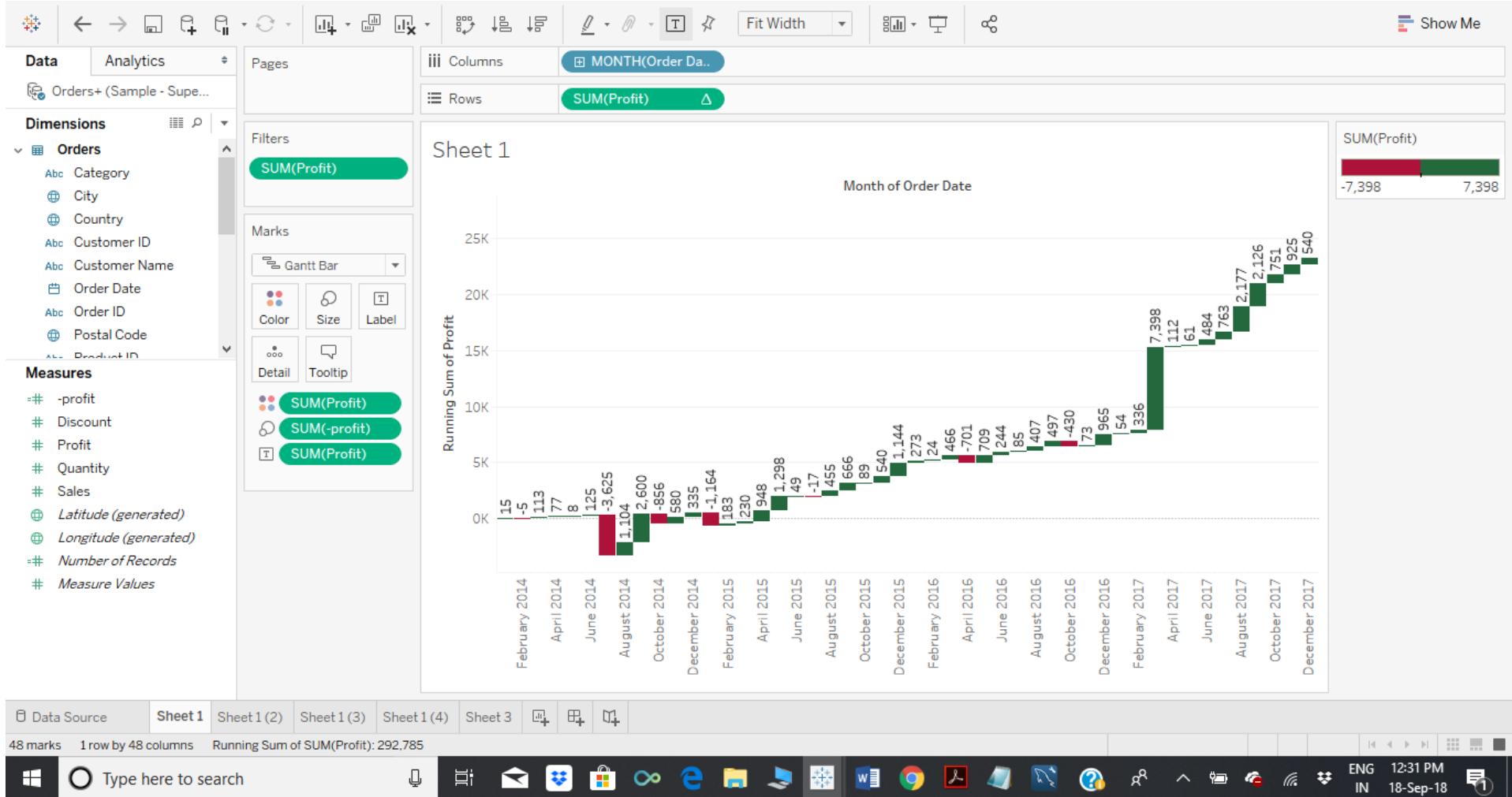


Tableau - sample superstores

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Format Measure Names

Fields

Header Pane

Default

Font: Tableau

Alignment: Custom

Numbers: Automatic

Color Size Text

Detail Tooltip

Measure Values

Measure Values

SUM(Profit)

SUM(Profit)

Clear

Columns: MONTH(Order Date)

Rows: Measure Names

Sheet 1 (2)

Month of Order Date

	January 2014	February 2014	March 2014	April 2014	May 2014	June 2014	July 2014	August 2014	September 2014	October 2014	November 2014	December 2014	January 2015	February 2015	March 2015
Profit	15	-5	113	77	8	125	-3,625	1,104	2,600	-856	580	335	-1,164	183	2,318
Running Sum of SUM(Profit)	15	11	124	200	208	333	-3,292	-2,188	412	-444	136	471	-694	-510	-282

96 marks 2 rows by 48 columns SUM of Measure Values: 316,018

Type here to search

ENG IN 12:34 PM 18-Sep-18

To Add the Previous profit to the chart as given in the Assignment question, add a calculated value as given below.

Tableau - sample superstores

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

Standard

Show Me

Data Analytics Pages

Orders+ (Sample - Supe...

Dimensions

- Orders
 - Category
 - City
 - Country
 - Customer ID
 - Customer Name
 - Order Date
 - Order ID
 - Postal Code
 - Product ID

Measures

- profit
- Discount
- previous profit
- Profit
- Quantity
- Sales
- Latitude (generated)
- Longitude (generated)
- Number of Records
- Measure Values

Filters

Marks

Color Size Label

Detail Tooltip

SUM(- profit)

SUM(Profit)

SUM(Profit) Δ

previous pr... Δ

Title Sheet 1

Columns MONTH(Order Da..)

Rows SUM(Profit) Δ

Month of Order Date

SUM(Profit)

previous profit

Results are computed along Table (across).

LOOKUP (sum ([Profit]), -1)

Default Table Calculation

The calculation is valid. 1 Dependency Apply OK

ABS (number)

Enter search text

ABS

ACOS

AND

ASCII

ASIN

ATAN

ATAN2

ATTR

AVG

CASE

CEILING

CHAR

COLLECT

Returns the absolute value of the given number.

Example: ABS (-7) = 7

May 2015

June 2015

July 2015

August 2015

September 2015

October 2015

November 2015

December 2015

January 2016

February 2016

March 2016

April 2016

May 2016

June 2016

July 2016

August 2016

September 2016

October 2016

November 2016

December 2016

January 2017

February 2017

March 2017

April 2017

May 2017

June 2017

July 2017

August 2017

September 2017

October 2017

November 2017

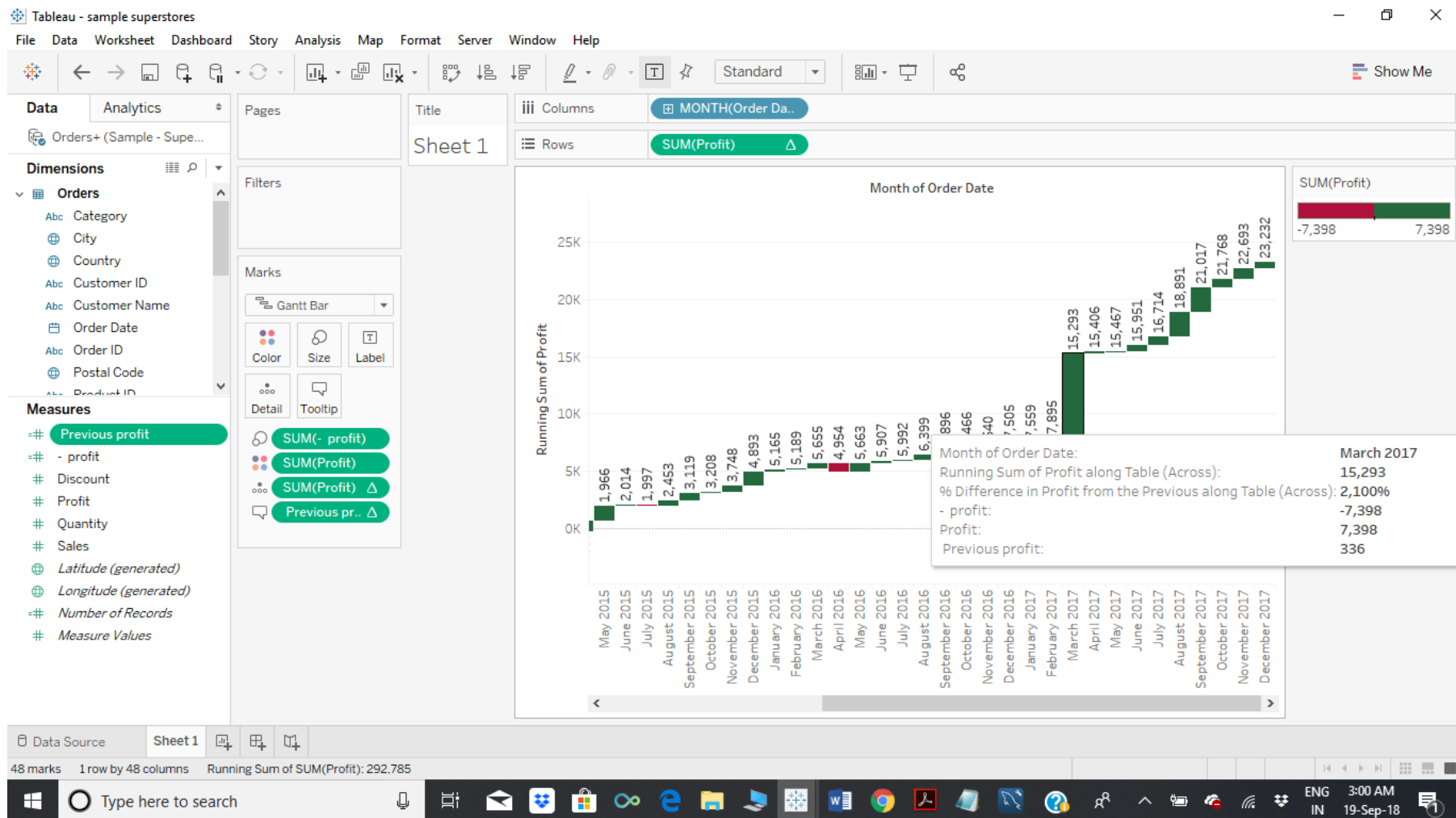
December 2017

48 marks 1 row by 48 columns Running Sum of SUM(Profit): 292.785

Type here to search

ENG 3:14 AM 19-Sep-18

Final Output as required in the Assignment is given below and just to show the correctness of the previous profit value the second one highlighting the previous one is shown again for easy reference.



Confirmation graph is given below to show the previous profit value as given in the above graph in the tooltip.

