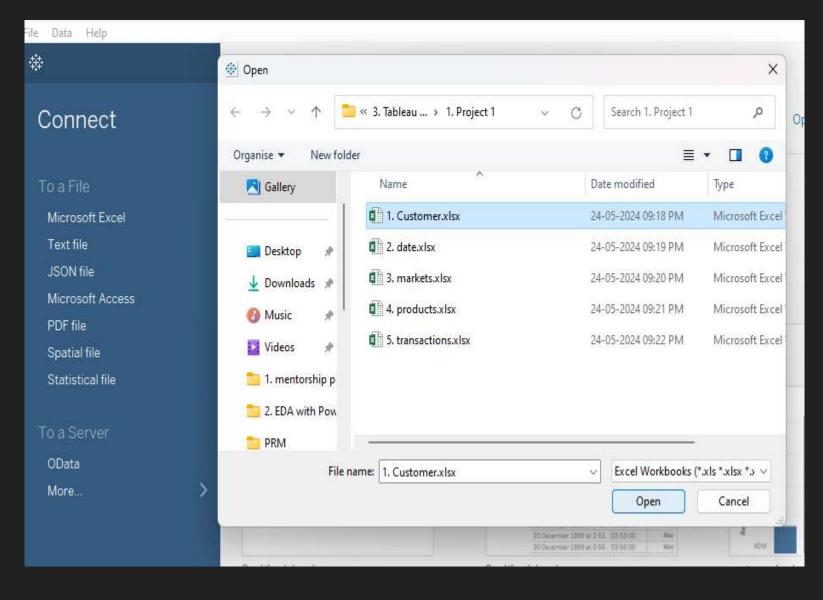
Sales Insights

Connect the Excel's in Tableau

I have exported the csv files, now I have 5 csv files and I want to connect these files in tableau.

Below mentioned are the steps to connect the csv files (I have converted csv file to excel file) .

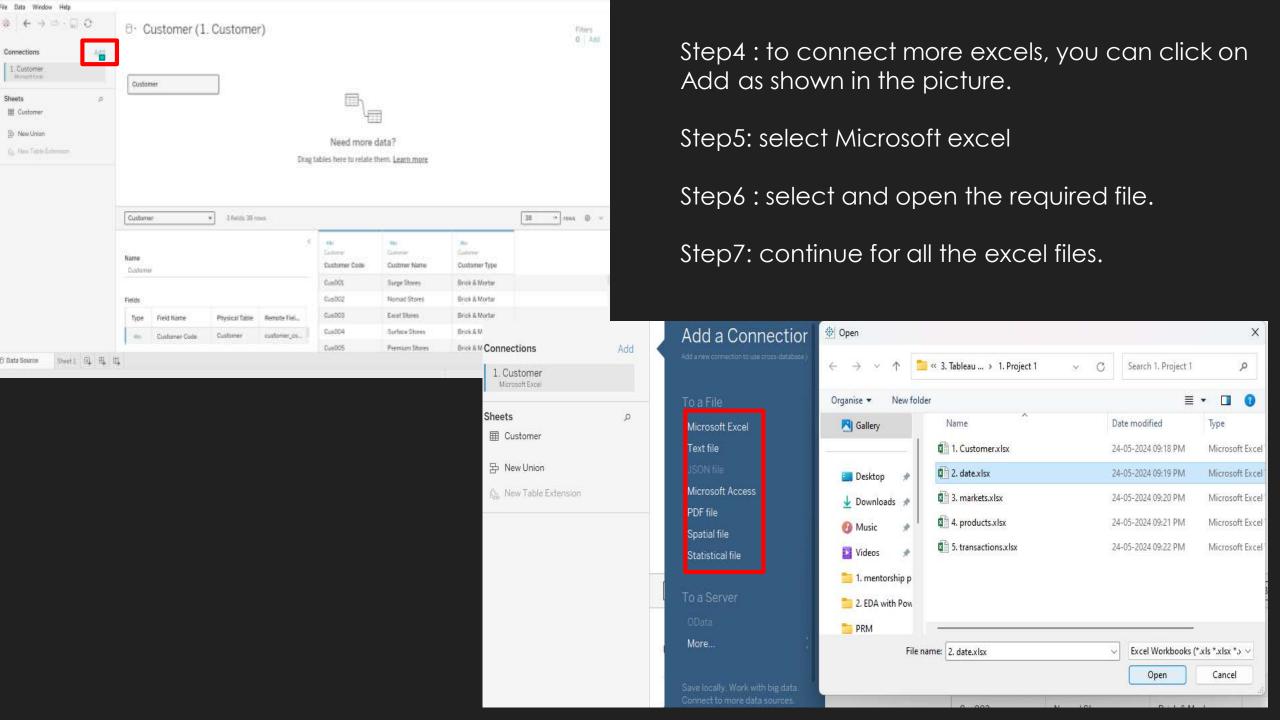
Step1: Open your tableau public

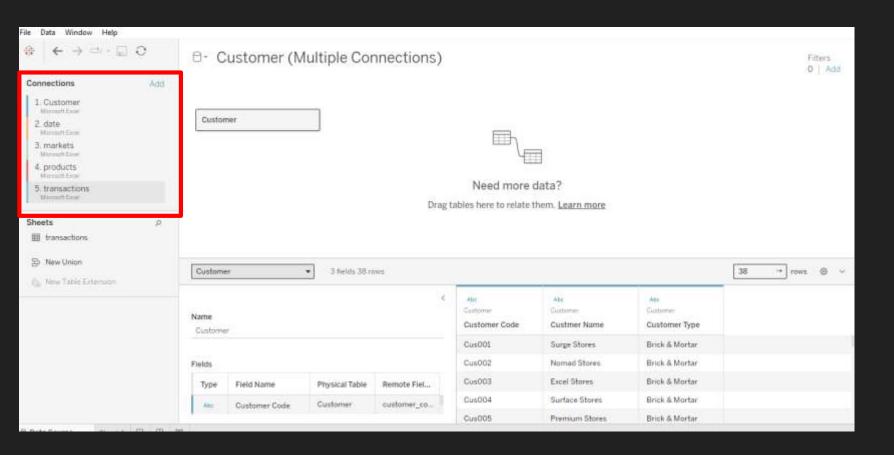


Step 2: click on Microsoft excel and select the excel1 (customer.xlsx)

Step3: click open

Note: in tableau desktop you can directly connect with database server, here I don't have tableau Desktop.





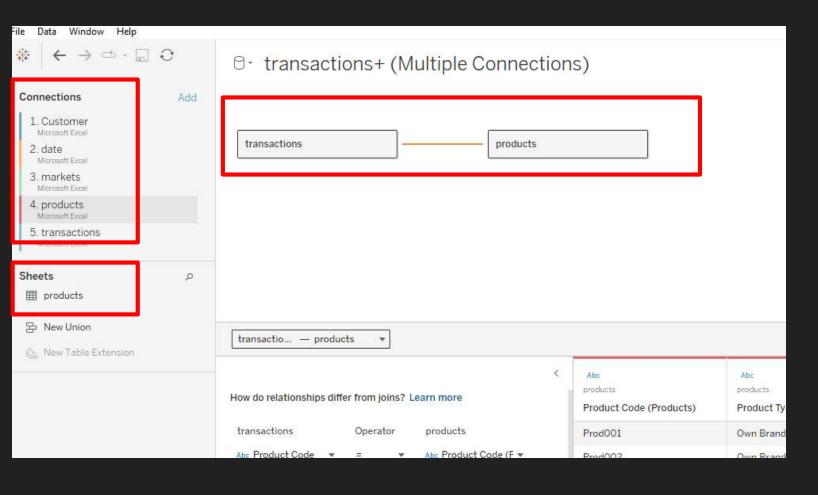
After connecting, right side of your tableau you will see connections section

In that you can see all the excels you connected.

Build the cardinality / star schema

To build cardinality (building a relation ship between excel files). Identify the common fields in all the files where we can build relation ship.

In this we are building one – many relation ship

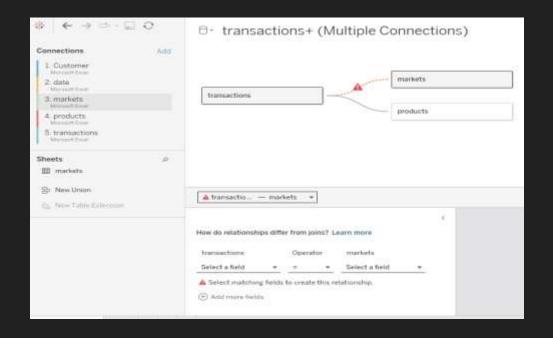


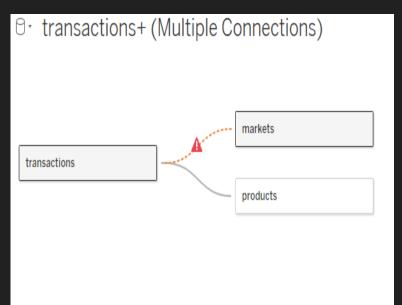
Click on the excel file in connections

In sheets section you can find the name of the excel.

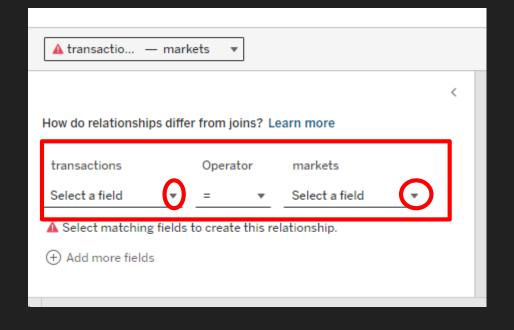
Drag and drop the excel sheet as shown.

If there is a common field then the tableau automatically builds a relationship. If not it shows error you can rectify the error by selecting the common columns manually.



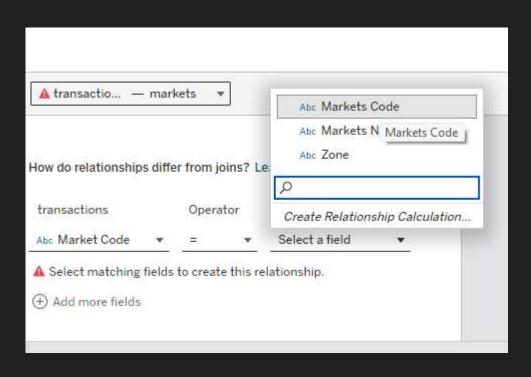


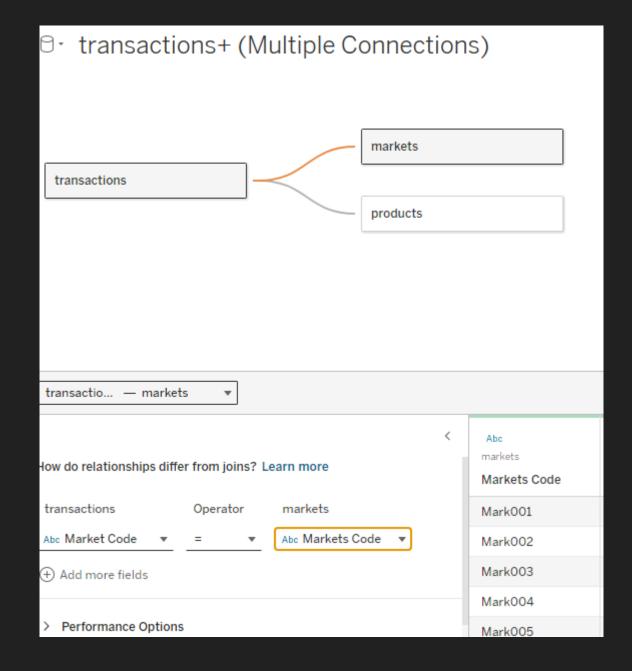
Here, it shows error



From here, we can select the common columns in both the flies.

To do that just click on the drop down as shown, identify the common column and select.





Now we have build a relationship between all the files. Lets do data cleaning

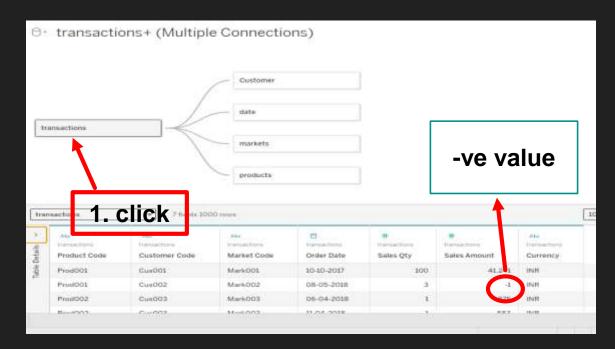


Data Cleaning

You need to go through the excel files and identify what need to be change.

In this project, in transaction file we have sales amount column where we have -ve values

To do so, follow the steps.



□- transactions+ (Multiple Connections) Customer **Edit Data Source Filters** transaction Detain Cancel transactions Product Code Customer Code Market Code Order Date Sales Qty Sales Amount Prod001 Cus001 Mark001 10-10-2017 100

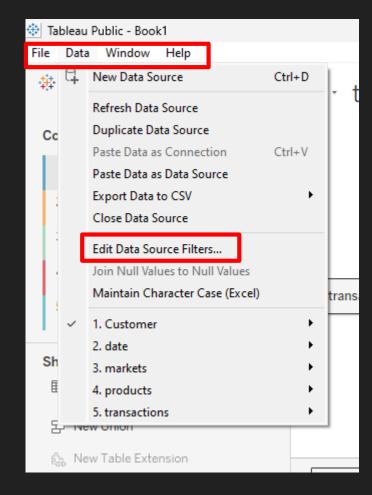
After clicking on Edit Data Source a popup will show, as shown.

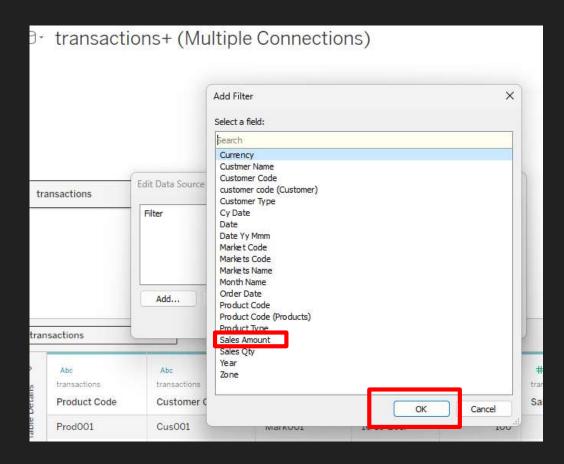
Click on add

To clean these –ve values,

Click on data

Click on Edit Data Source Filters



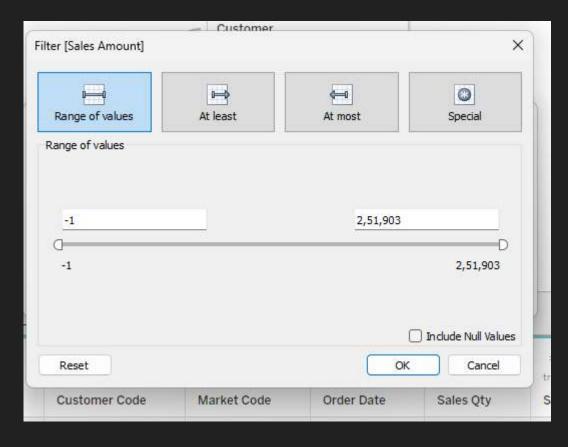


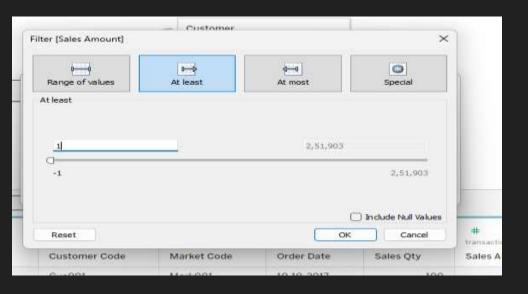
As, sales amount shouldn't be in negative I will change this to "at least" 1.

Change the value -1 to 1 as shown.

Here we need to select a filed (column) where the filter need to apply.

Click ok.

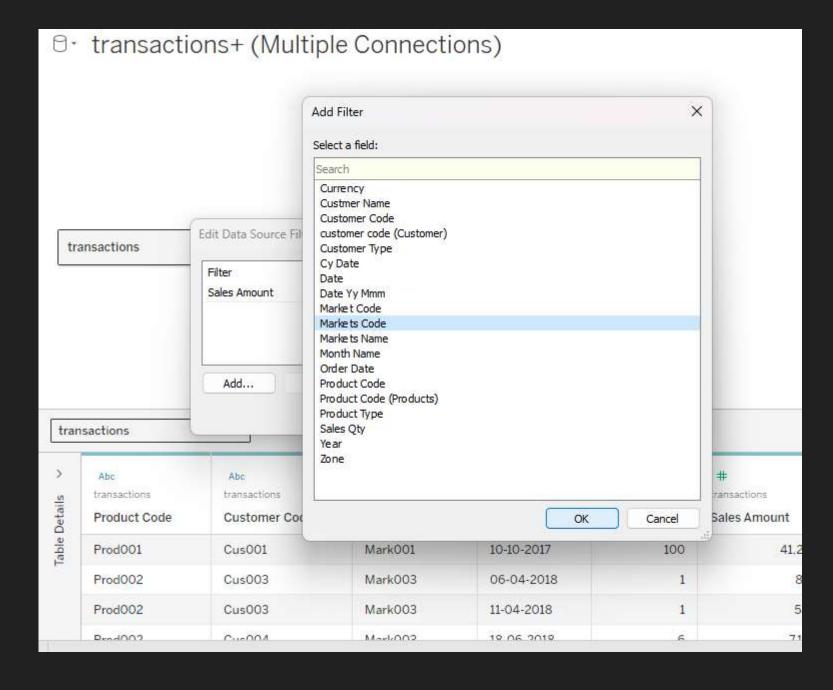




Click ok. And click ok

Tableau automatically refresh itself,

Now you don't see any – ve values in sales amount column.



This company have business in India so, in market code field I came across two other countries

I want to filter them, for this Click on Data Click on Edit data source filter Click on Add

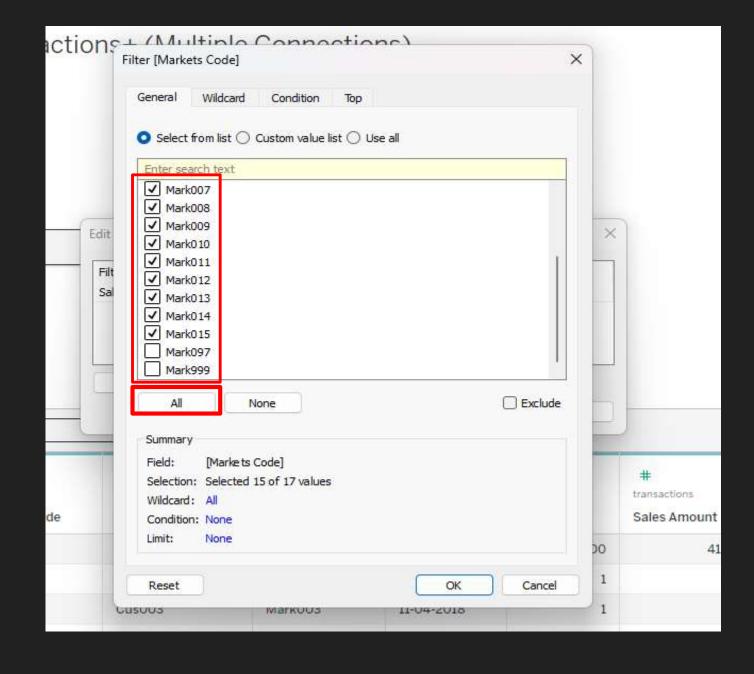
Here select field as "market code "

Click ok.

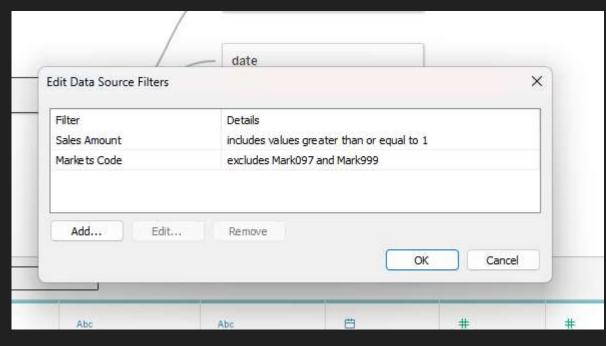
4	Α	В	С	D
1	markets_code	markets_name	zone	
2	Mark001	Chennai	South	
3	Mark002	Mumbai	Central	
4	Mark003	Ahmedabad	North	
5	Mark004	Delhi NCR	North	
6	Mark005	Kanpur	North	
7	Mark006	Bengaluru	South	
8	Mark007	Bhopal	Central	
9	Mark008	Lucknow	North	
10	Mark009	Patna	North	
11	Mark010	Kochi	South	
12	Mark011	Nagpur	Central	
13	Mark012	Surat	North	
14	Mark013	Bhopal	Central	
15	Mark014	Hyderabad	South	
16	Mark015	Bhubaneshwar	South	
7	Mark097	New York		
8	Mark999	Paris		
10				

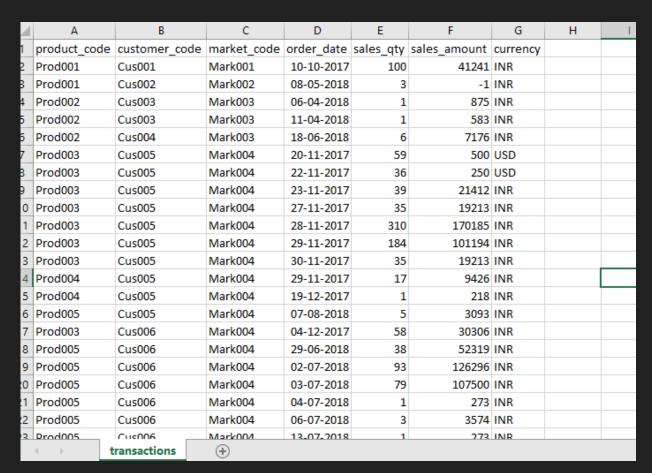
This popup will appear now Click on All Unselect the market code which needs to filter.

Click Ok.



Click Ok





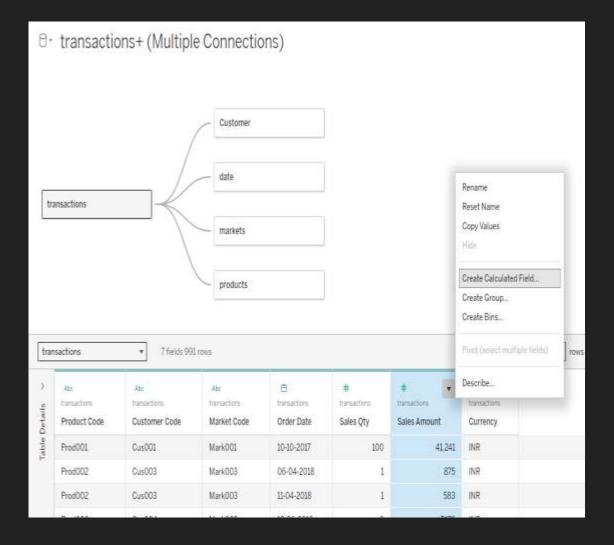
The currency field has 2 types of currency, where I need only INR, so I am changing the USD to INR.

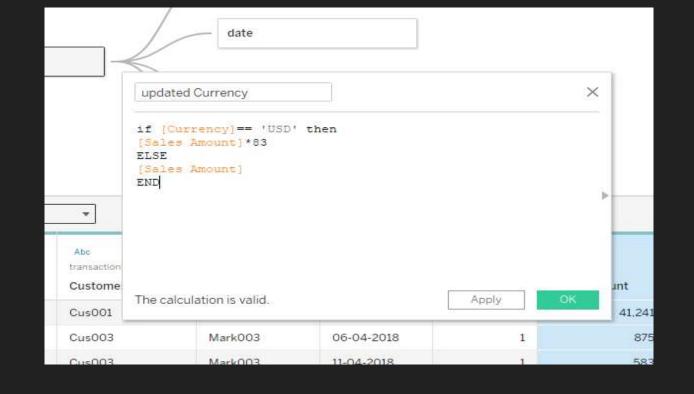
Click on drop down of Sales amount where you can select the "Create Calculated field"

Calculated filed helps us to communicate with tableau through small codes.

Here we need to tell tableau that if the sales amount currency is equal to USD then multiply with 83 (1 usd = 83 rupees) other wise give the sales amount.

So, after clicking on calculated field





I changed the name to Updated Currency

Write a code as shown

Click on apply and Ok.

As you can see the changes.

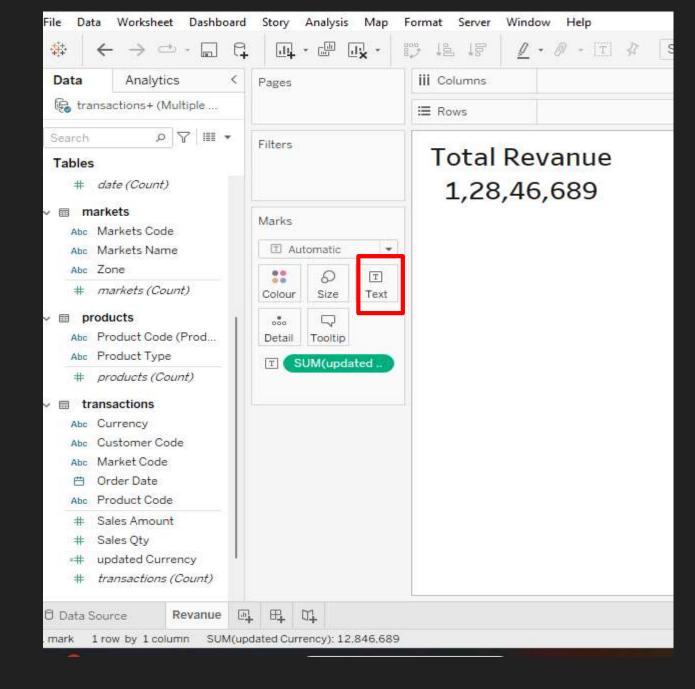
Produuz	CUS004	Markous	18-00-2018	0	/1/0	IINK
Prod003	Cus005	Mark004	20-11-2017	59	500	USD
Prod003	Cus005	Mark004	22-11-2017	36	250	USD

Prod003	Cus005	Mark004	20-11-2017	59	500	41,50 -7,1	/o JSD
Prod003	Cus005	Mark004	22-11-2017	36	250	20,750	USD

Data Visualisation

Data Visualization is a graphical representation of information and data, utilizing visual elements like charts, graphs and maps to make complex data more understandable and accessible. It helps in identifying trends, patterns and outliers thereby facilitating informed decision-making and effective communication of insights.

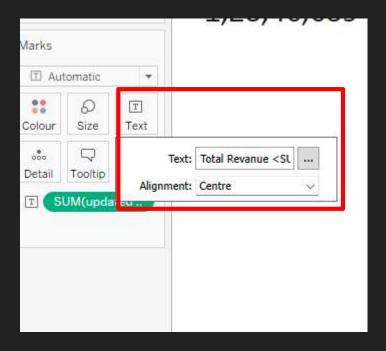
By transforming raw data into visual context, data visualization enables users to see connections and relationships that might be missed in text-based data, making it a crucial tool across various industries for analysing and presenting data.



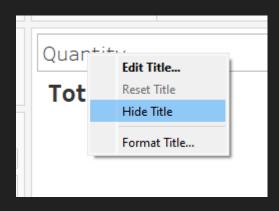
SHEET 1: Total Revenue

Just drop the "updated currency" in the text

Sum of Total sales

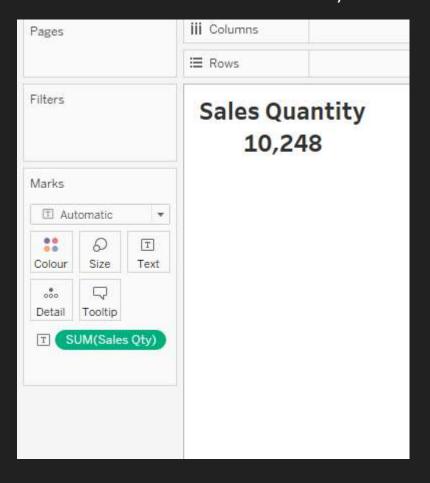


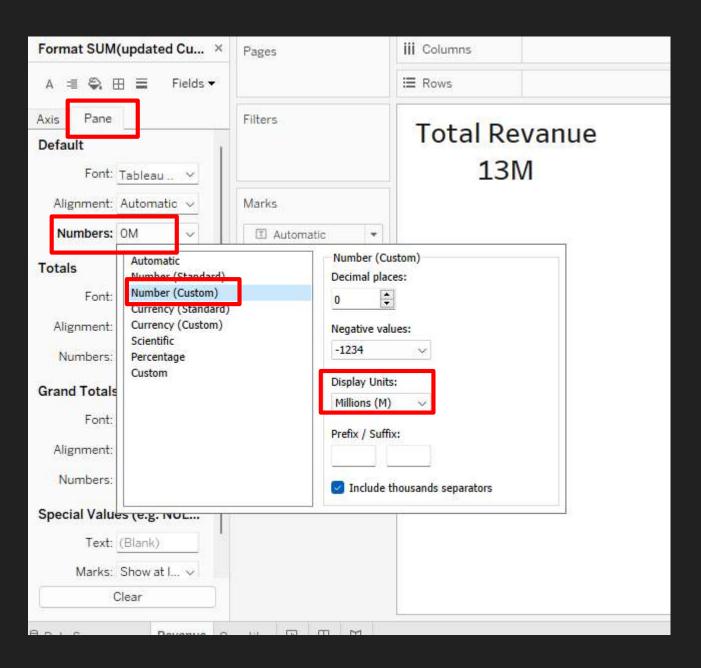
Click on text if you want to format then you can do it from this popup as shown.



If you want to hide title then, right click on title and select hide title.

SHEET-2: Total Quantity







In sheet 1 I changed the total revenue number into Million (13M) to do so,

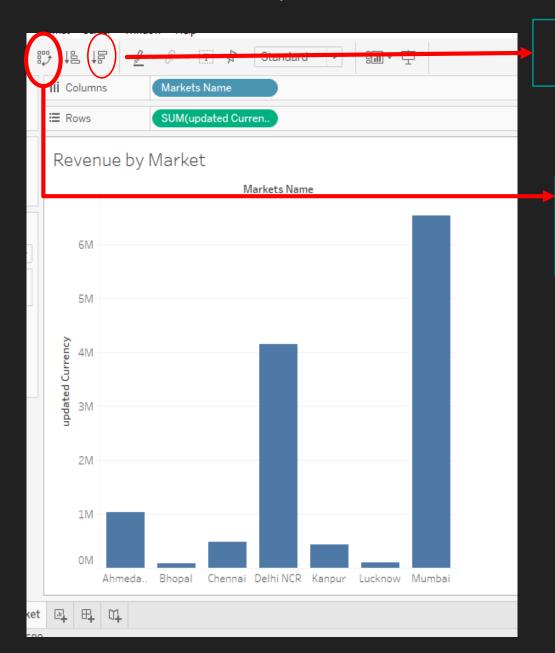
Right click on sum(updated currency) in Marks section.

Click on format

In pane click on numbers – number(custom)

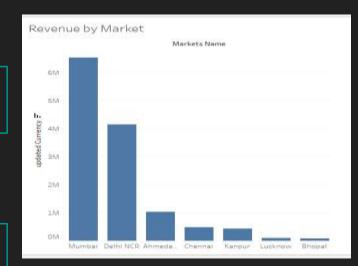
Make the "display units" to Millions.

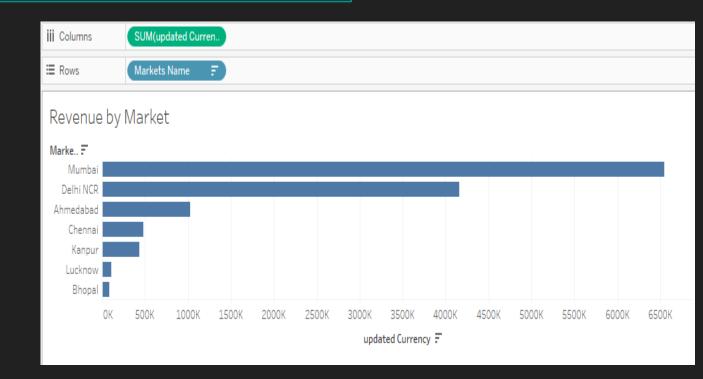
SHEET 3: Revenue by Market names



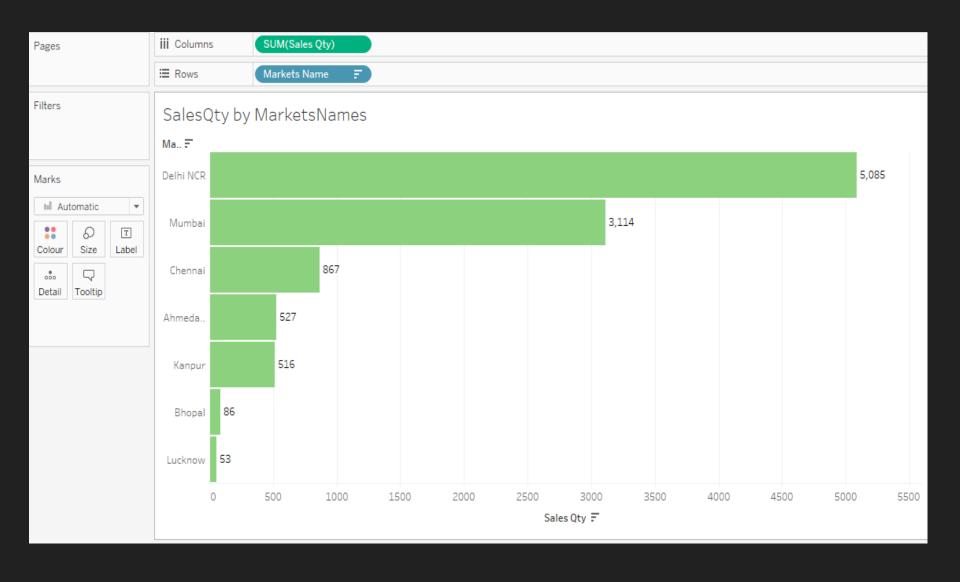
To sort the chart click here

To shift the Columns & Rows

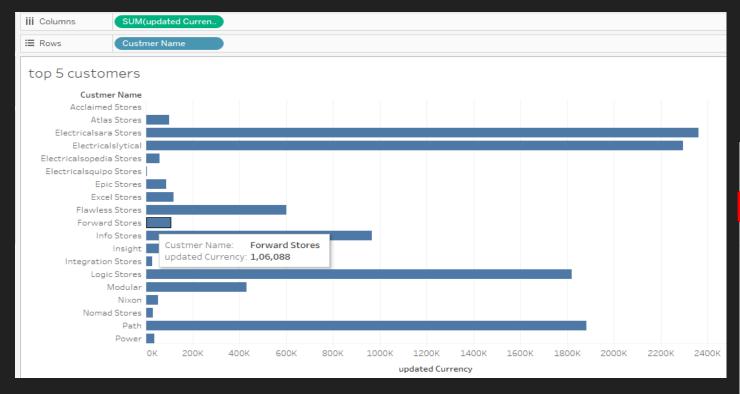




In the same way, create sheet 4: Sales QTY by market name



Sheet 5: Top 5 Customers

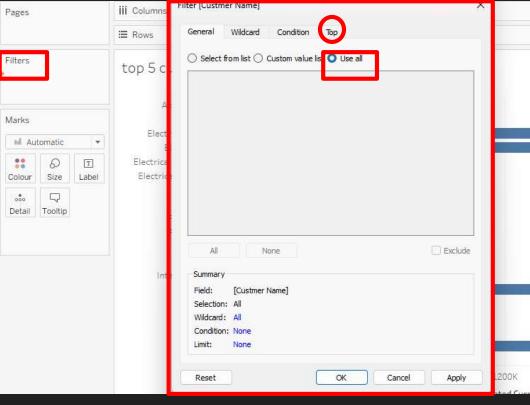


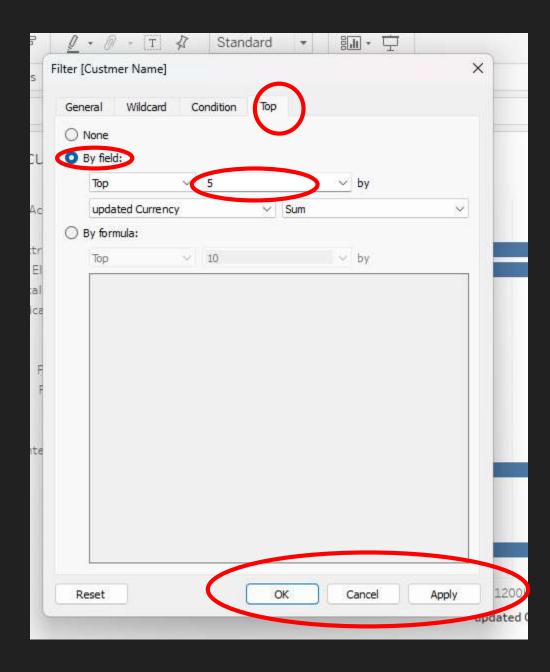
When you drop customer names into filter this popup will show, select "use all" radio button

Click on "top tab".

Drag and drop customer names in rows & updated currency in columns

Now I want only top 5 customers, so drag and drop the customers name in filter section as shown below.

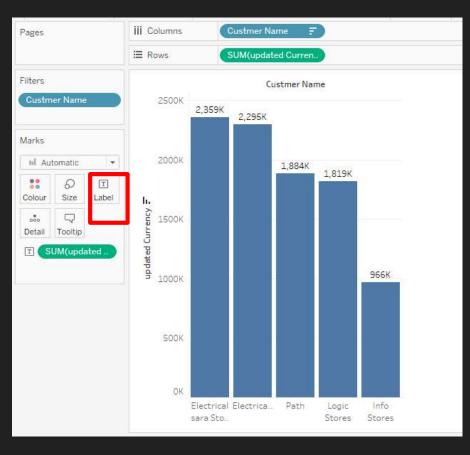




Select the "by field" radio button

Set the default value as 5.

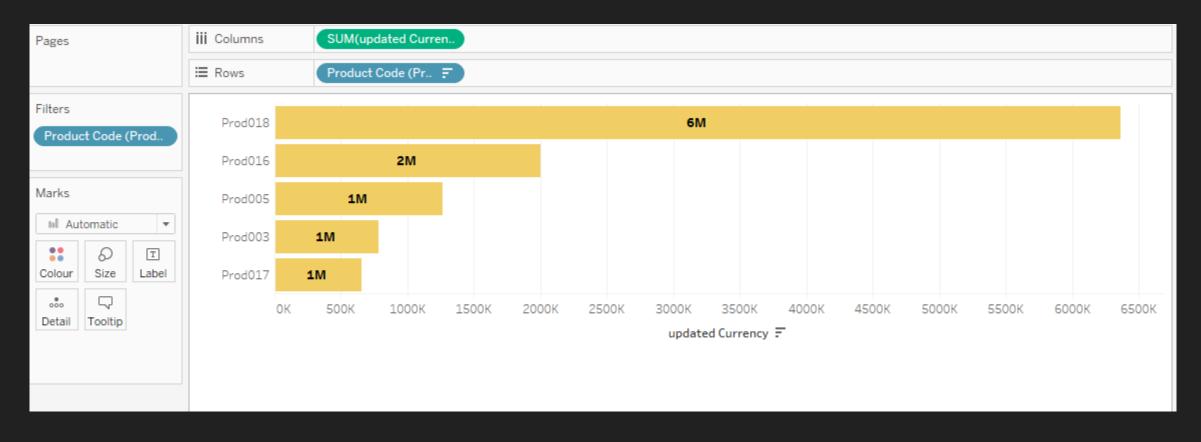
Click on apply & Ok.



To get the values on the bar,

Just drop the updated currency in text field.

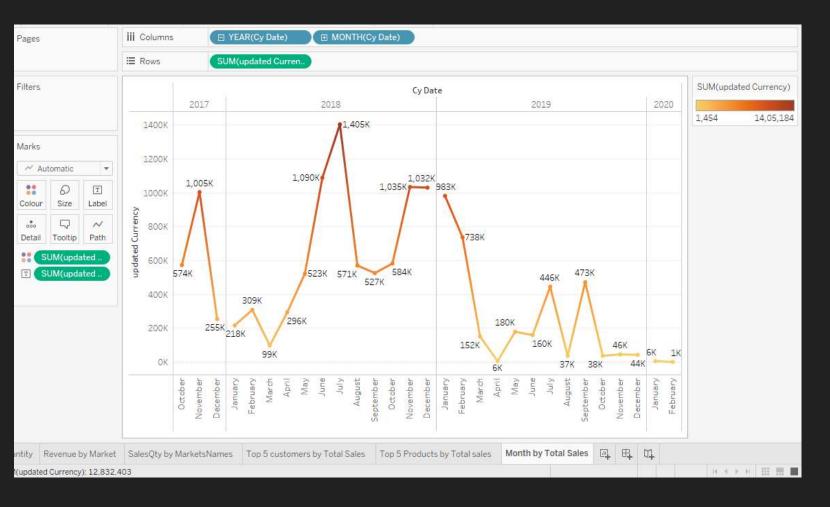
Sheet 6: top 5 products by Total Sales



Just duplicate the sheet 5 and change the row to "Product Code"

If required then do some formatting.

Sheet 7: Month by Total Sales



Drag and drop the cy date & Total sales.

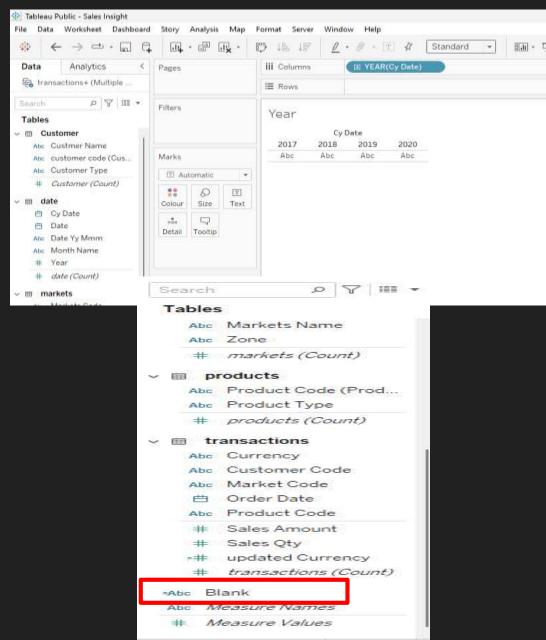
We can break down the year to Quarterly and monthly by clicking the + symbol in the chart.

I choose Yearly and monthly and to get the values, we need to drop the total sales in Text field.

To get the colour variation drop the total sales in colour field in marks section.

Darker the colour higher the sales Lighter the colour lower the sales

Sheet 8: Year



Drag and drop the cy Date into columns.

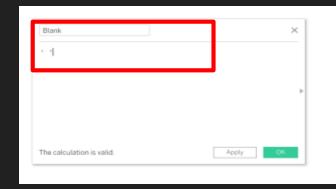
Why we are dropping Cy date why not year? Because we want to break down further.

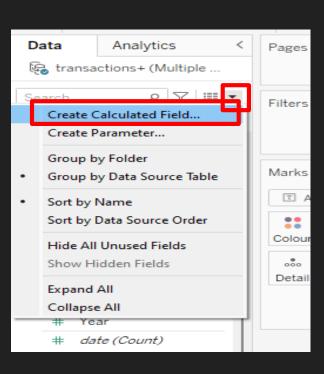
I want row to be blank, for that we can create the empty field called "blank" and drop that into "text"

To create Blank field Open a calculated Field

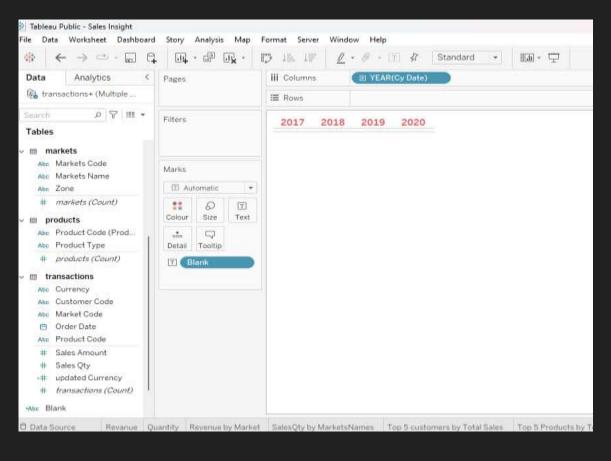
Name the field as Blank

Please type ' ' as shown





Click Ok



Hide the Title and column header

As soon as you drop the blank field into text, the row text (ABC) change to blank.

To format, just right click on cy date which is in Columns

Click on format

Here you can do the necessary changes.

Now for months sheet I need exactly like this so, I will

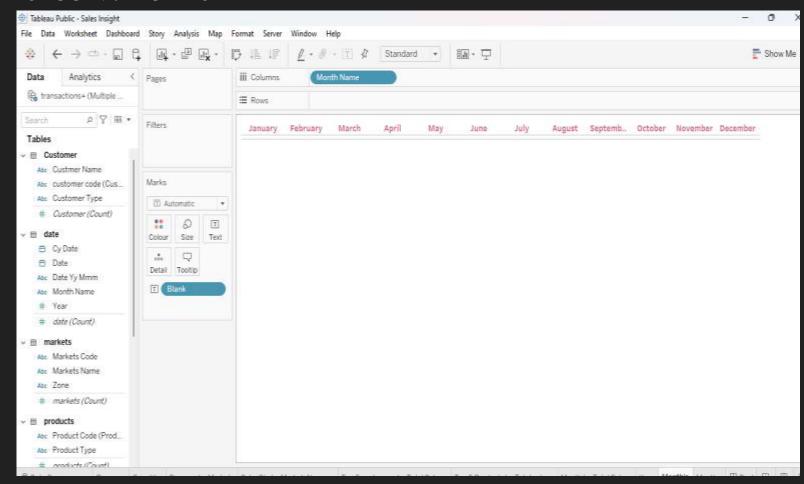
duplicate this sheet.

For duplicating, right click on the year (on the sheet name) you can see Duplicate

Click on Duplicate.



Sheet 9: Months

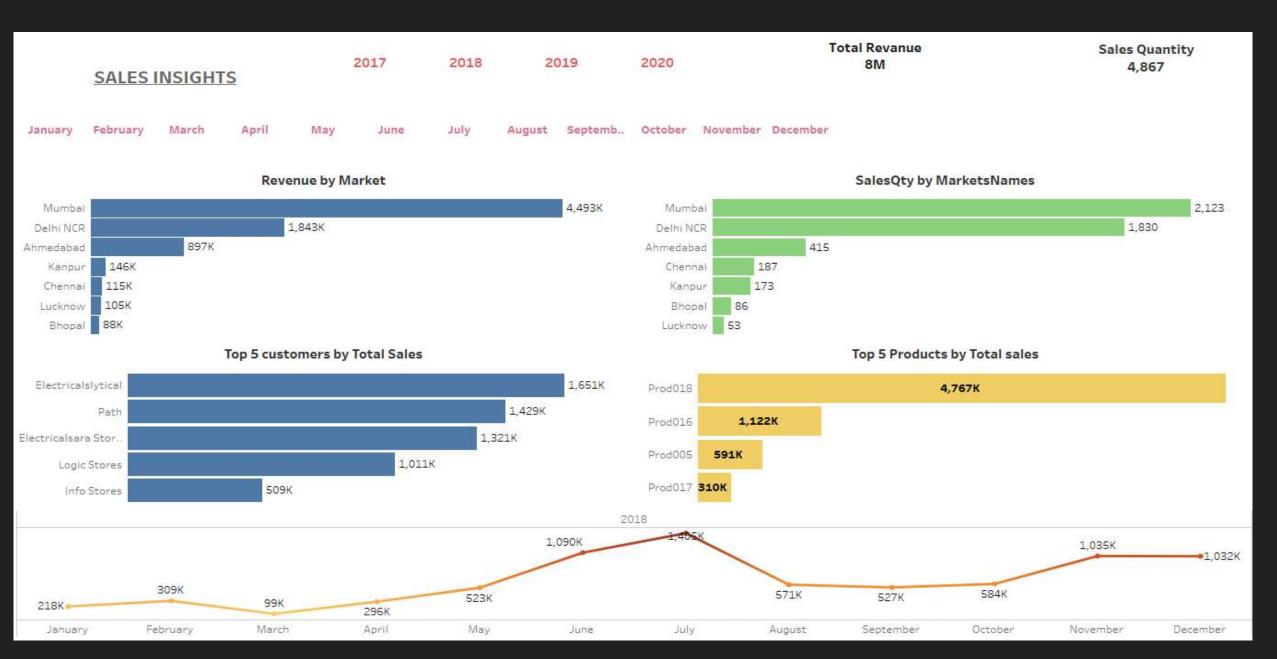


As we duplicated the format will be same but I wanted different colour and font .

Just drag and drop the month names into columns

Till now we have created visualizations , now final step to assemble and create Dashboard.

DASHBOARD



Thank You

Happy Learning