IMPORTS AND EXPORTS

1. INTRODUCTION

1.1 Overview

My project is on Imports and Exports so I took a data set containing "Month-wise exports of primary commodities for the period April-December 2013-14"

1.2 Purpose

We can create a visual image so that we know the exact commodities exported, % change in terms of exports between two years.

2. LITERATURE SURVEY

2.1Existing approaches or method to solve this problem

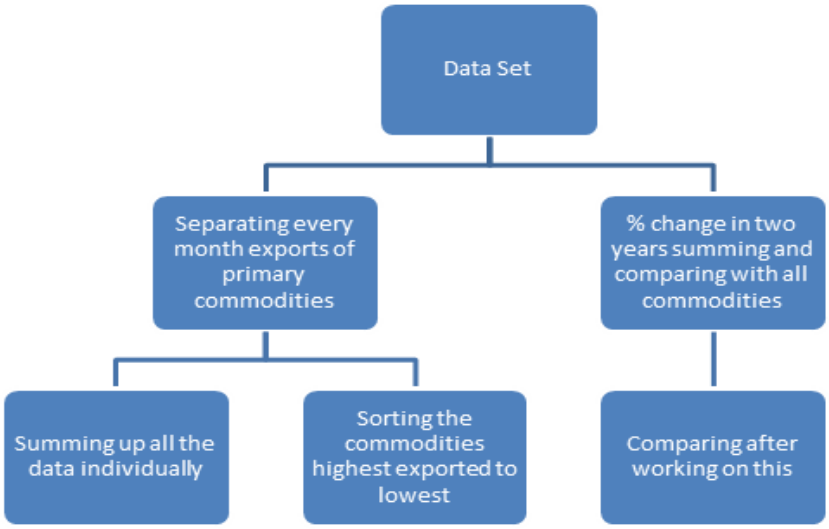
We can even work in excel workbook to get the answers as stated in purpose but we need to work on two pivot tables makes it complex. So I choose tableau for visualization of the data which is far better and easy

2.2 Proposed solution

I proposed a solution with all the things in one page side by side, item-by-item commodities should be filtered so that we can see each individual monthly export with their percentage change between two years

3. THEORITICAL ANALYSIS

3.1Diagrammatic overview of the project



The final step is to visualize the entire data worked

3.2 Hardware / Software requirements of the project

I used Tableau Desktop for the visualization. Tableau Desktop is the only requirement.

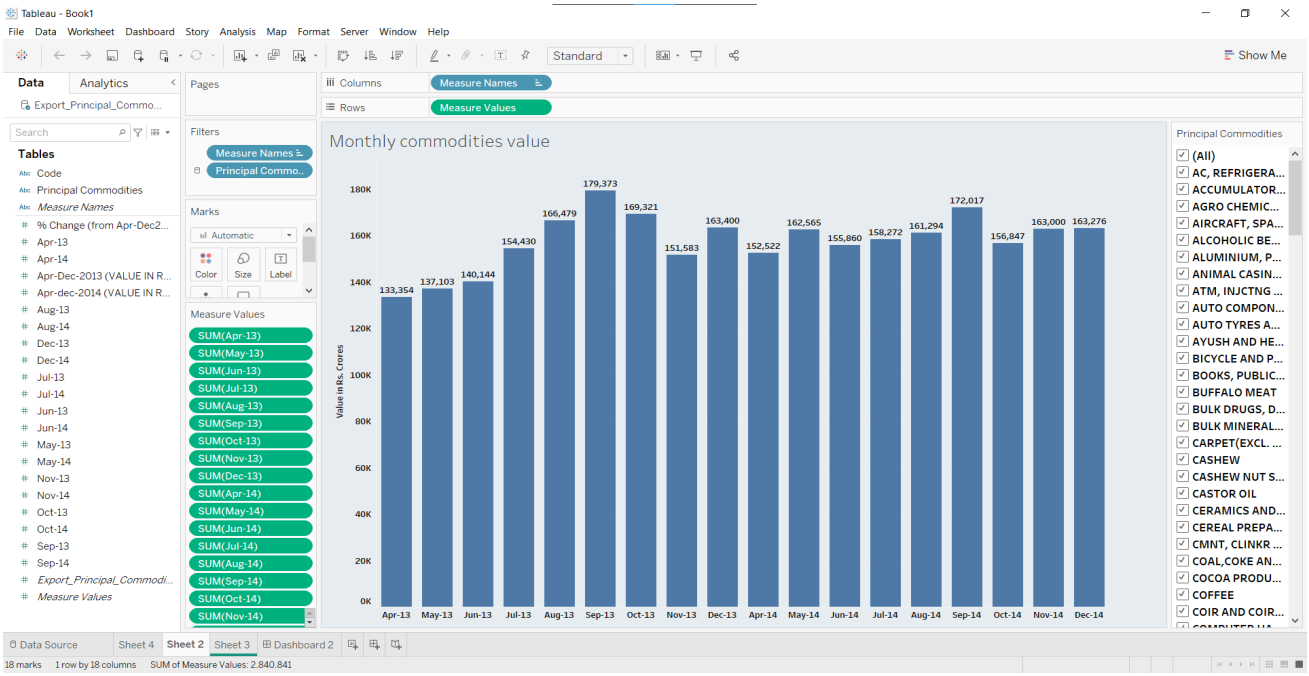
4. EXPERIMENTAL INVESTIGATIONS

During my investigation on the data set I got to know there is too much data which was unordered. One can't make analysis without proper tool for visualization. As the data is too big we need two to three analysis concluding at one page which are even inter-related and filtered data. So that if one need to know about one commodity he/she can search the commodity and he will get the complete analysis like percent change between two years and monthly exports and combined yearly exports.

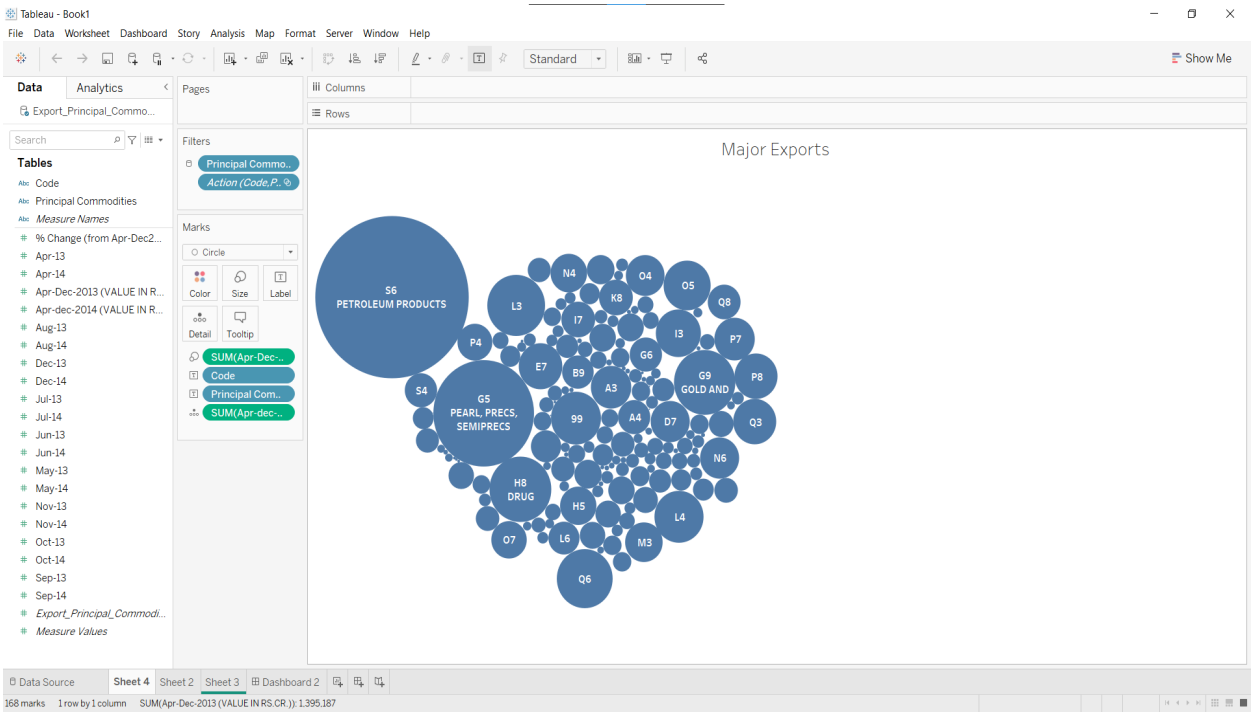
5. RESULT

These are the three sheets attached below

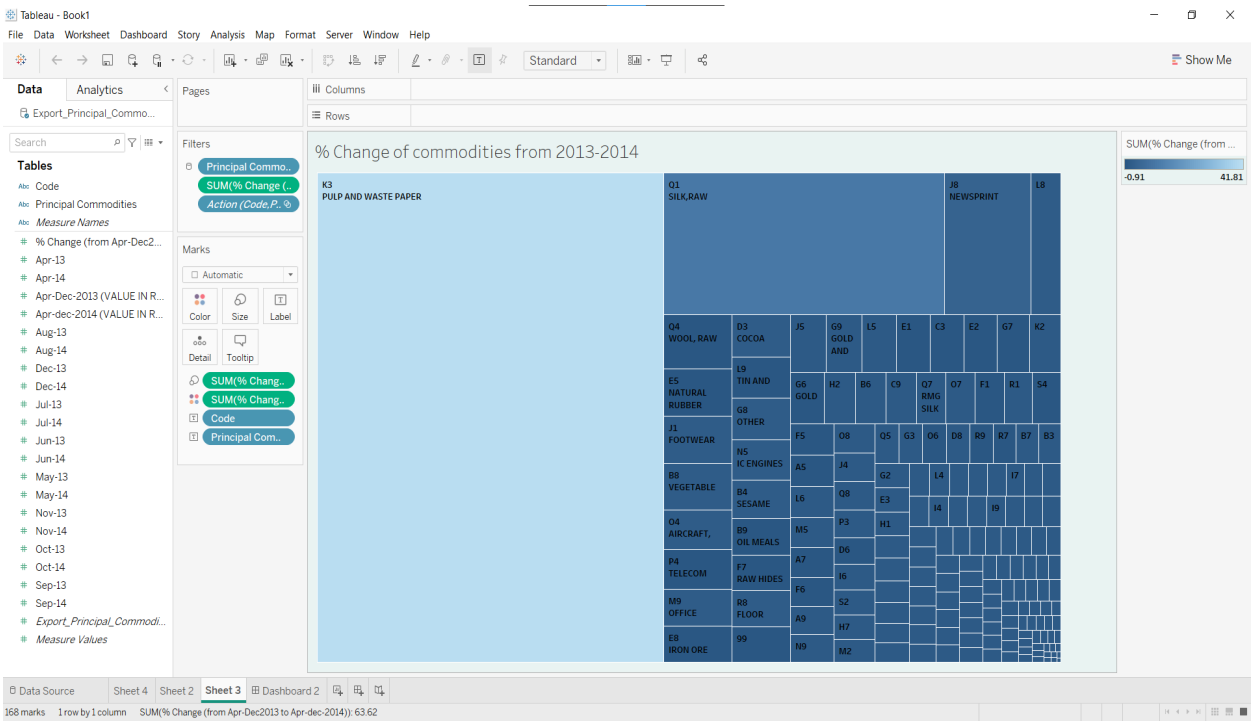
1.The first sheet the bar graph represents the monthly exports in Rs. Crores of all primary commodities with filter so that we can know individual commodity if we filter.



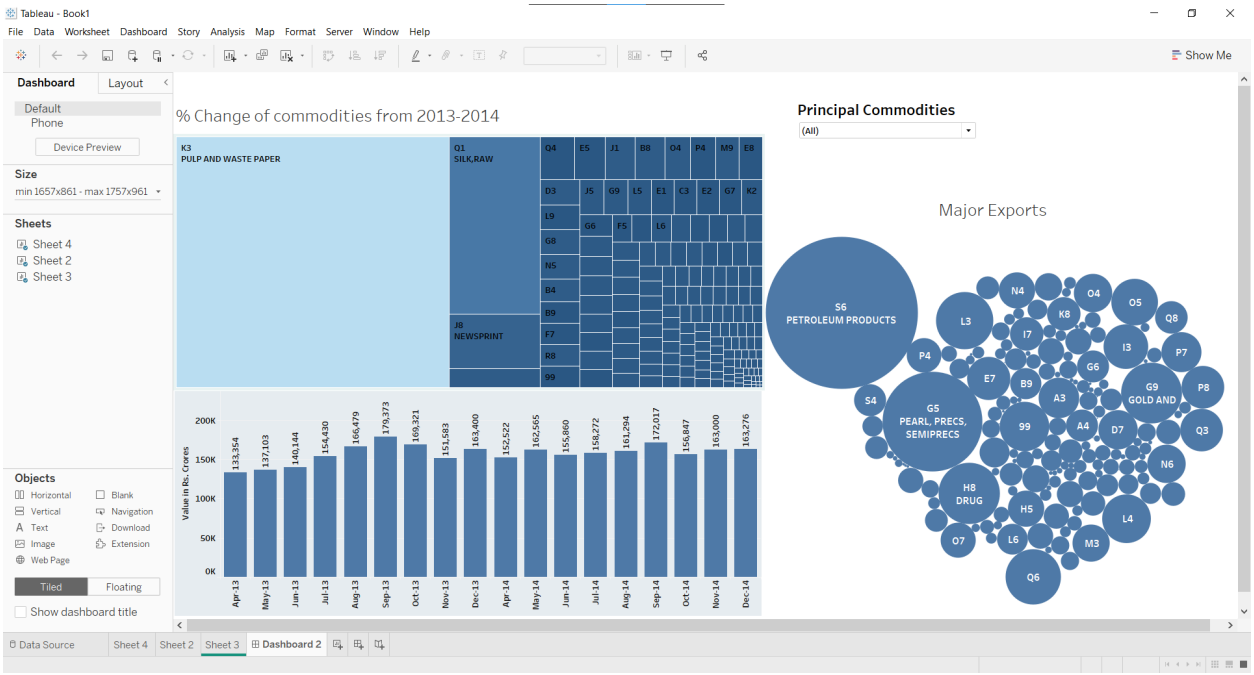
2. In the 2nd sheet we can see the packed bubbles representing Major exports combined, during two years



3. In the 3rd sheet the tree maps shows the percentage change between two years

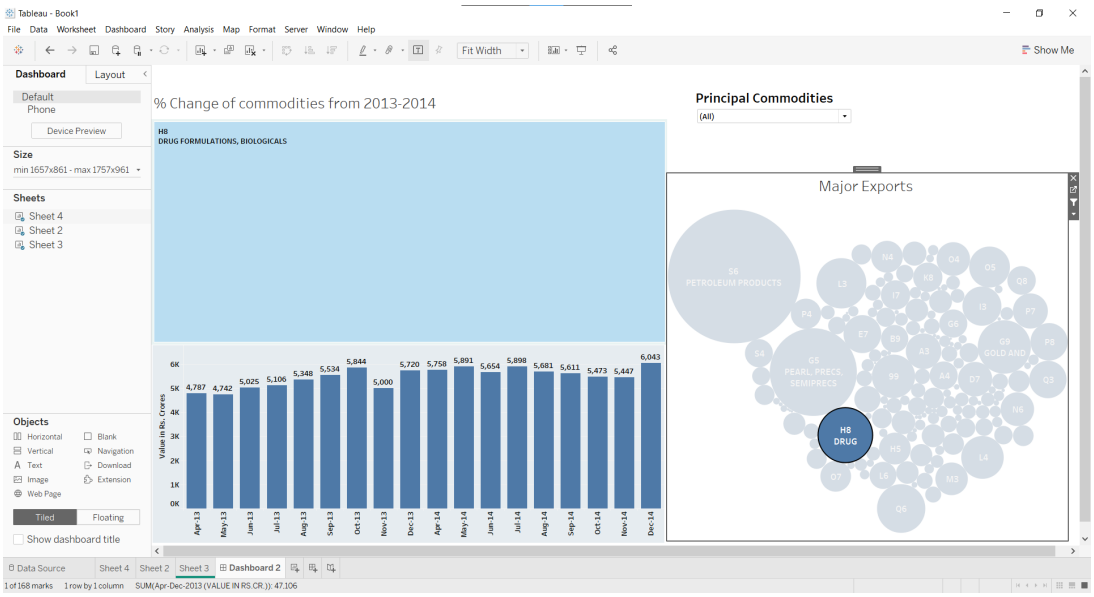


Finally I combined all these things in my dashboard



One can select any commodity on either of tree map or packed bubbles, so that one every thing is inter-related and filtered. We can see all the information related that commodity.

Ex: I selected Drug formulations, Biologicals on packed bubbles we can see the data related Drug formulations, Biologicals commodity in bar chart and tree chart.The bar chart here only are the results of Drug formulations, Biologicals commodity.



6. ADVANTAGES & DISADVANTAGES

We can clearly see the advantages here, I mention some of those.

- Data is structured and well organized
- We can come to conclusions by seeing data
- Creating data more interesting manner
- Easy to analyze

As the data points(commodities) are large in number we may not see every data labeled. But it can be done if we search from right search provided in dashboard

7. APPLICATIONS

The idea of visualizing data can be applied in various fields. One can even create this as they want. Tableau has a great flexibility.

8. CONCLUSION

I conclude that I made an unorganized data in to visualization where anyone can get analysis of that particular data easily. Here my data is visualized and focused to understand which commodity is contributing how much as simple as that. To understand this I created the dashboard where one can visualization all the elements there itself.

9. Bibilography

The data set is extracted from the following source provided by smartinternz for imports and exports
https://data.gov.in/resources/month-wise-export-principal-commodity-period-april-december-2013-14-and-april-december

Tableau Public link:
https://public.tableau.com/profile/jithendra.yerramsetti#!/vizhome/Book1_16194615012490/ExportsofPrincipleCommoditiesInIndia

Git Repository:
https://github.com/smartinternz02/SPS-9446-Exports-Imports

Video link:

https://1drv.ms/v/s!AtfWeaLPI91ihVWI6ShdCcP0NJoT?e=4YsKvd