Data Visualization

Import & Export of CHEMICALS

1. **Introduction :-**

A dataset ofImport & Export of Chemicals in India has been chosen; which consist of import & export data in terms of quantity(in thousand metric tons) and value(in Rs.crore) and also the annual total import and export. In this a data visualization of import and export of Chemicals in India from the year 2010-11 to 2018-19 has been done. Various types of graphs has been used according to the visualization to be shown. Use of multi chart has been done to show two quantities on line with different graph types such as bar and line or line and line etc. Line chart has shown for quantity and carbon compound .

2. **Literature survey :-**

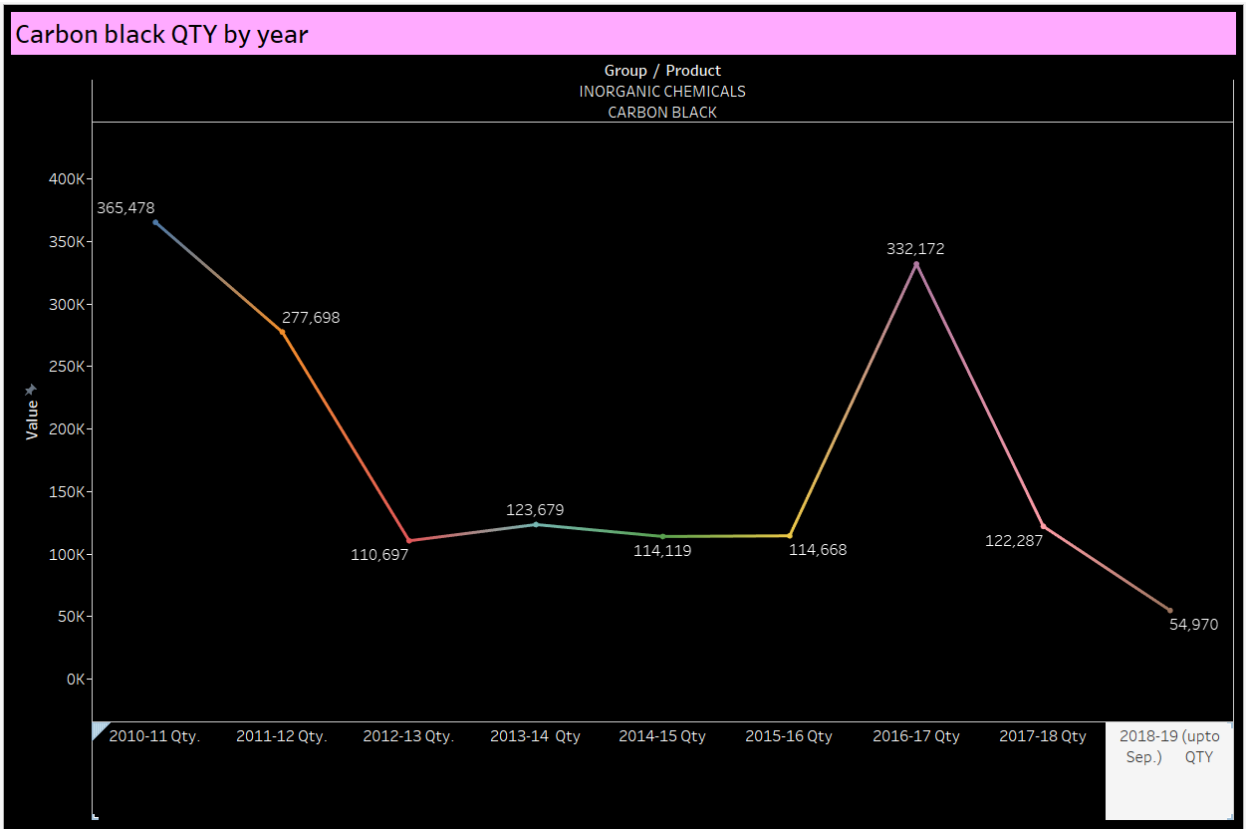
The dataset of Import & Export of Chemicals in India has been taken from the government website data.gov.in .

3. **Analysis before visualization :-**

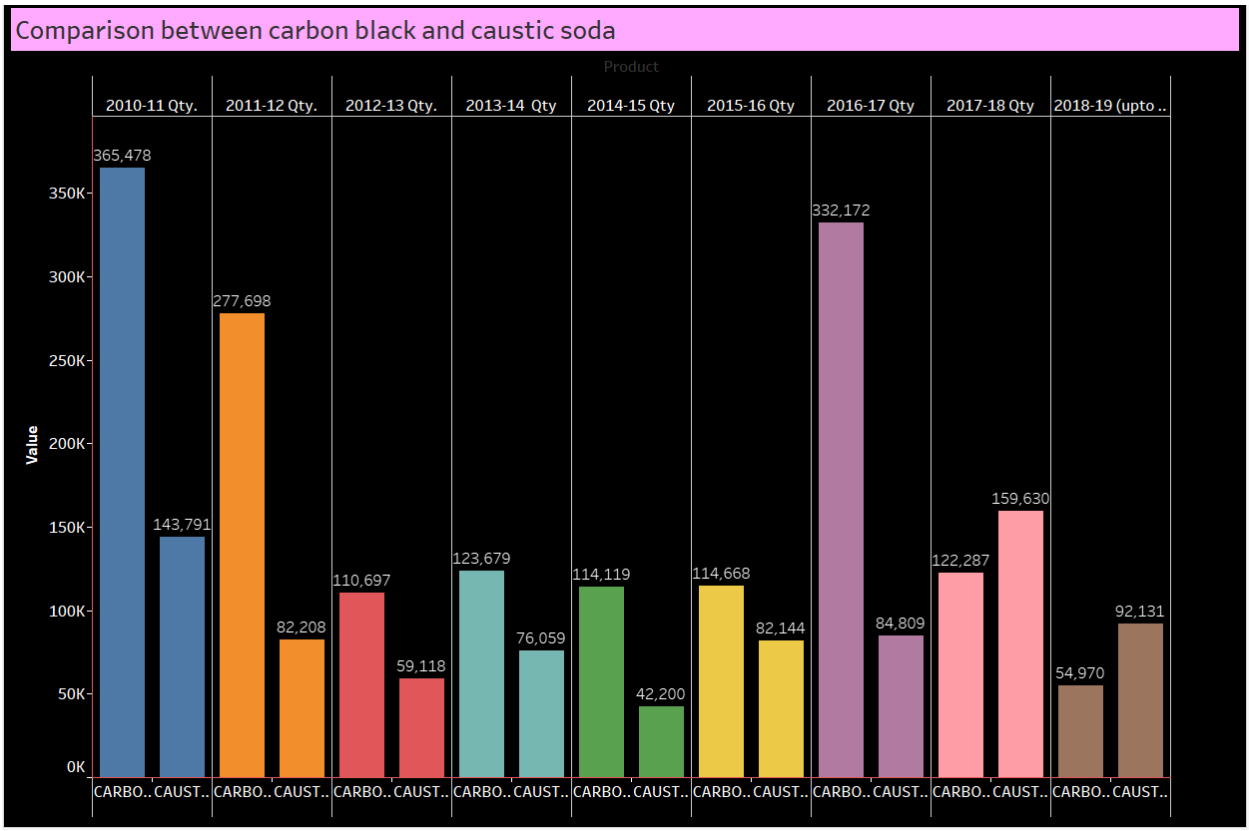
Study of dataset was done keenly. Columns and row were observed and how the data is linked to each other was seen. In this dataset first column is of category which consist of three i.e product ,measure names, Quantity . Next is the year from 2010-11 to 2018-19. And then the quantities and values of chemical (carbon black) is present along with total quantity and value. Quantity is measured in thousand metric tons(TMT) and value is measured in Rs.crore.

4. **Visualization :-**

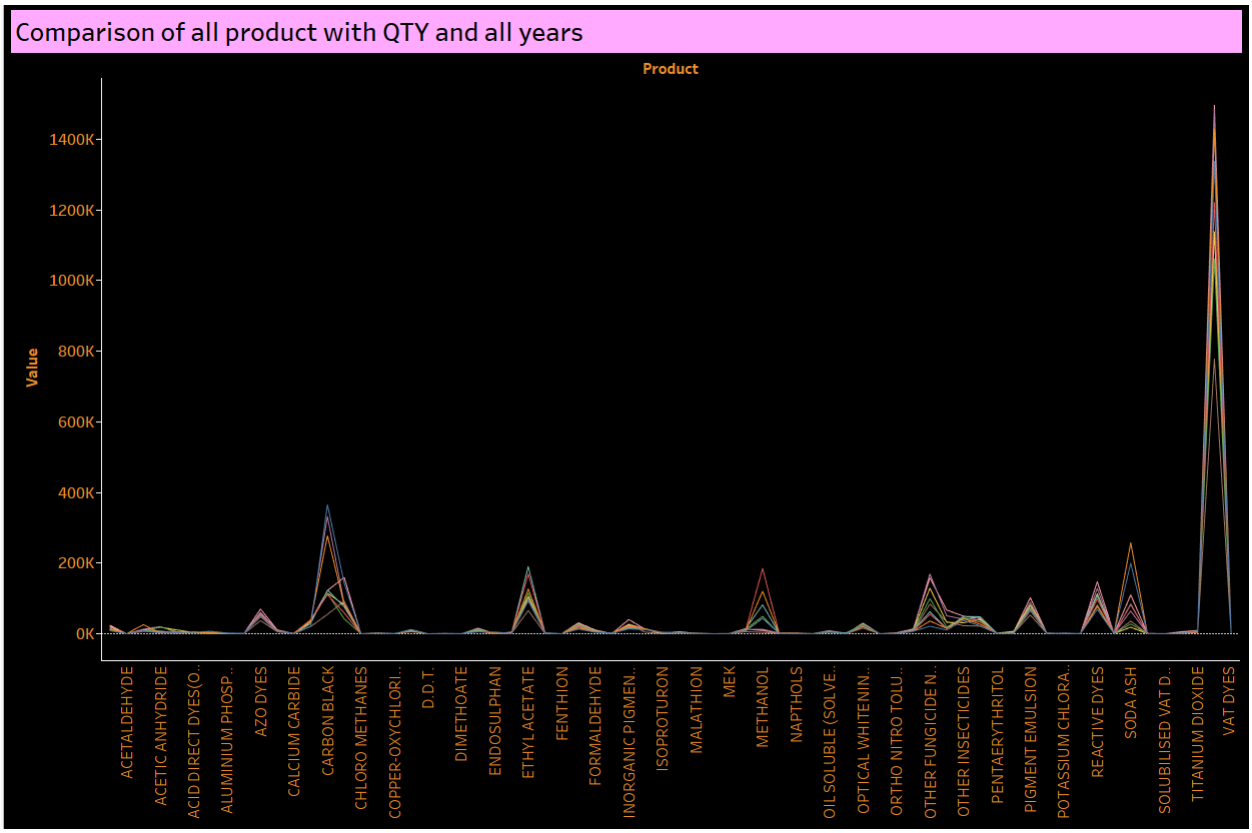
a. Carbon black is one of the compaunds is taken from product in which its quantity is measured . For that firstly we have to drag product in colour and then choose carbon black, after that we put product , measured names and group in column , andmeasured values in row.



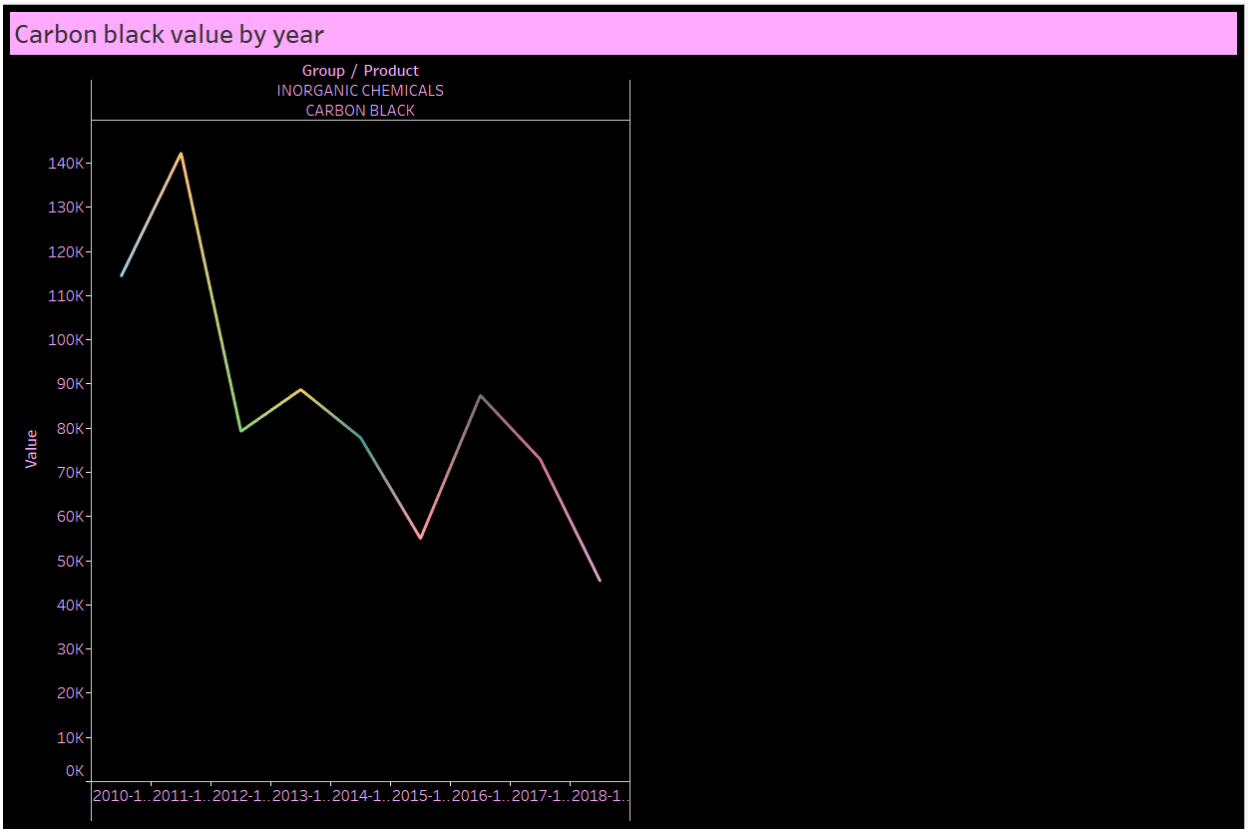
b. Comparison of carbon black and caustic soda with all the years which represented in form of bar chart.



C. Comparison all all the product with Quantity and all year ,for that ill have used line chart .



D . Carbon black value by year line chart also make for represent the value of carbon black year wise .



Conclusion :-

The data visualization of the dataset has been done through which now we can study the data very easily rather than the traditional method of studying it form the excel sheet which gets too much difficult. Here we can easily compare the trends yearly through various categories in one click which is the one of the best of it.