

Tableau Project on Import and Export Visualization

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Tableau Dataviz Challenge

Import and Export

2021

Introduction:

To perform the data visualization in the tableau software for the India global trade in Import and Export during (2015-2020) dataset using various different charts in tableau software.

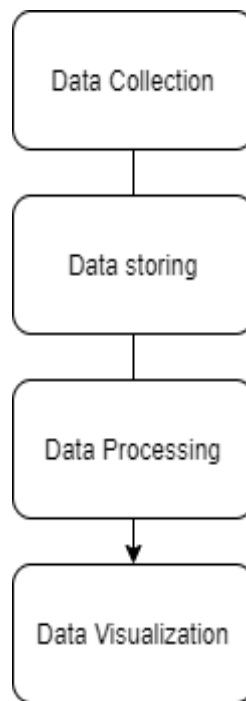
Description:

Design a business intelligence dashboard to monitor the import and export global trade in India during 2015 – 2020 years. The dashboard display the product quantity and product value for every countries.

Objectives:

- a. To explore the import and export with product value and product quantity for every geographical locations in the dataset and visualize through map chart.
- b. To classify the import and export product quantity with Billion, Million, and Thousand and also classify the import and export product group by A-Z alphabetical order and visualize through horizontal bar chart.
- c. To find out the top 10 import and export product based on the product quantity and visualize through horizontal bar chart.
- d. To find out the top 10 import and export product based on the product high value and visualize through horizontal bar chart.
- e. To find out the top 10 import and export countries based on the product high value and visualize through horizontal bar chart.
- f. To classify the import and export by year wise with product quantity and product value using bubble chart.
- g. To visualize the import and export data with product quantity based on the product group using dual axis line chart.

Methodology:



Data Collection:

Data collected from the open government data, powered by data.go.in. In that import and export catalogues, 1st page has principal commodity wise import and principal commodity wise export categories that both categories have 12 excel sheet from 2015-2020 dataset in Xls format.

Data Storing:

The 12 excel data sheets were downloaded in Xls format and all data were stored in the two excel sheets named import 2015-2020 and export 2015-2020.

Data Processing:

The two excel sheets processing by data filter & cleaning and classify the products in the group by A-Z alphabetical order. Data filter & cleaning done in excel by the following steps: Using filter option to find the NA in product quantity unit and replaced by the No Unit in those two excel sheet. Again, using the filter option in product quantity to find the NA and cleaned those data under the product quantity variable and then add the year column in those datasets and finally combined that dataset into one file with two sheets named as import and export data sorted by year, country, product, product quantity unit, product quantity and product value in USD. Classify the products in the group by A-Z alphabetical order shown in the below table:

Product (group)	Product
A	AC, REFRIGERATION MACHNRY ETC
	ACCUMULATORS AND BATTERIES
	AGRO CHEMICALS
	AIRCRAFT, SPACECRAFT AND PARTS
	ALCOHOLIC BEVERAGES
	ALUMINIUM, PRODUCTS OF ALUMINM
	ATM, INJCTNG MLDING MCHNRY ETC
	AUTO COMPONENTS/PARTS
	AUTO TYRES AND TUBES
	AYUSH AND HERBAL PRODUCTS
B	BICYCLE AND PARTS
	BOOKS, PUBLICATIONS AND PRNTNG
	BULK DRUGS, DRUG INTERMEDIATES
	BULK MINERALS AND ORES
C	CARPET(EXCL. SILK) HANDMADE
	CASHEW
	CASHEW NUT SHELL LIQUID
	CASTOR OIL
	CERAMICS AND ALLIED PRODUCTS
	CEREAL PREPARATIONS
	CMNT, CLINKR AND ASBSTOS CMNT
	COAL,COKE AND BRIQUITTES ETC
	COCOA PRODUCTS
	COFFEE
	COIR AND COIR MANUFACTURES
	COMPUTER HARDWARE, PERIPHERALS
	CONSUMER ELECTRONICS
	COPPER AND PRDCTS MADE OF COPR
	COSMETICS AND TOILETRIES
	COTTON FABRICS, MADEUPS ETC.
	COTTON RAW INCLD. WASTE
	COTTON YARN
	CRANES, LIFTS AND WINCHES
D	DAIRY PRODUCTS
	DRUG FORMULATIONS, BIOLOGICALS
	DYE INTERMEDIATES
	DYES

E	ELECTRIC MACHINERY AND EQUIPME
	ELECTRODES
	ELECTRONICS COMPONENTS
	ELECTRONICS INSTRUMENTS
	ESSENTIAL OILS
F	FERTILEZERS CRUDE
	FERTILEZERS MANUFACTURED
	FINISHED LEATHER
	FLOOR CVRNG OF JUTE
	FLORICLTR PRODUCTS
	FOOTWEAR OF LEATHER
	FOOTWEAR OF RUBBER/CANVAS ETC.
	FRESH FRUITS
	FRESH VEGETABLES
	FRUITS / VEGETABLE SEEDS
G	GLASS AND GLASSWARE
	GOLD
	GOLD AND OTH PRECS METL JWLERY
	GRANIT, NATRL STONE AND PRODCT
	GRAPHITE, EXPLSIVS AND ACCESOR
	GROUNDNUT
	GUERGAM MEAL
H	HANDCRFS(EXCL.HANDMADE CRPTS)
	HANDLOOM PRODUCTS
	HND TOOL, CTTNG TOOL OF METALS
	HUMAN HAIR, PRODUCTS THEREO
I	IC ENGINES AND PARTS
	INDL. MACHNRY FOR DAIRY ETC
	INORGANIC CHEMICALS
	IRON AND STEEL
	IRON ORE
J	JUTE HESSIAN
	JUTE YARN
	JUTE, RAW
L	LEAD AND PRODUCTS MADE OF LED
	LEATHER FOOTWEAR COMPONENT
	LEATHER GARMENTS
	LEATHER GOODS
M	MACHINE TOOLS

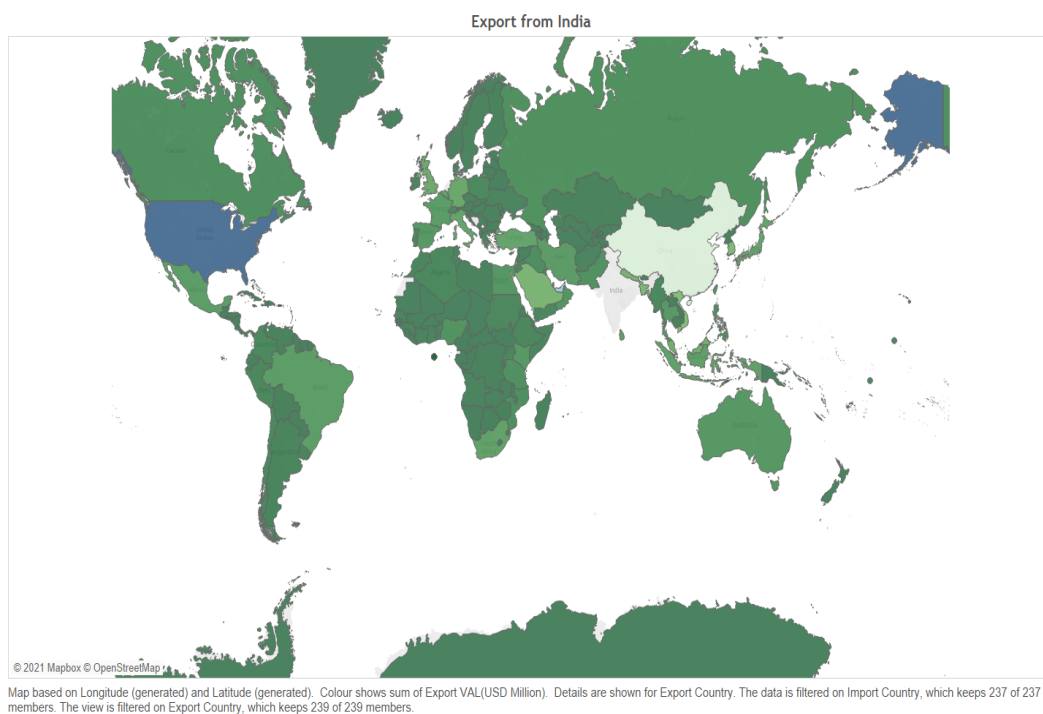
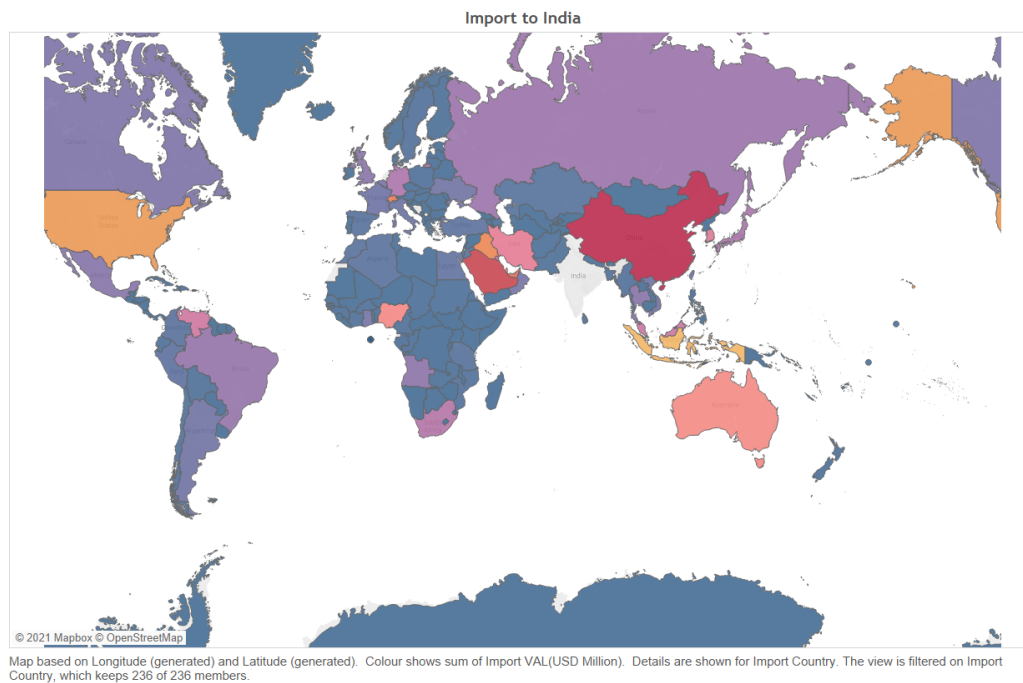
	MANMADE STAPLE FIBRE
	MANMADE YARN,FABRICS,MADEUPS
	MARINE PRODUCTS
	MEDICAL AND SCIENTIFIC INSTRUM
	MICA
	MILLED PRODUCTS
	MISC PROCESSED ITEMS
	MOLLASES
	MOTOR VEHICLE/CARS
	MOULDED AND EXTRUDED GOODS
N	NATRL SILK YARN,FABRICS,MADEUP
	NATURAL RUBBER
	NEWSPRINT
	NICKEL, PRODUCT MADE OF NICKEL
	NIGER SEEDS
	NUCLER REACTR, INDL BOILR, PRT
O	OFFICE EQUIPMENTS
	OIL MEALS
	OPTICAL ITEMS (INCL.LENS ETC)
	ORGANIC CHEMICALS
	OTH NON FERROUS METAL AND PRODC
	OTH TXTL YRN, FBRIC MDUP ARTCL
	OTHER CEREALS
	OTHER CONSTRUCTION MACHINERY
	OTHER CRUDE MINERALS
	OTHER JUTE MANUFACTURES
	OTHER MEAT
	OTHER MISC. ENGINEERING ITEMS
	OTHER MISCELLAENIOUS CHEMICALS
	OTHER OIL SEEDS
	OTHER PLASTIC ITEMS
	OTHER PRECIOUS AND BASE METALS
	OTHER WOOD AND WOOD PRODUCTS
	OTHR RUBBER PRODCT EXCPT FOOTW
P	PACKAGING MATERIALS
	PAINT, VARNISH AND ALLID PRODC
	PAPER, PAPER BOARD AND PRODUCT
	PEARL, PRECS, SEMIPRECS STONES
	PETROLEUM PRODUCTS

	PETROLEUM: CRUDE
	PLASTC SHT, FILM, PLTS ETC
	PLASTIC RAW MATERIALS
	PLYWOOD AND ALLIED PRODUCTS
	POULTRY PRODUCTS
	PRIME MICA AND MICA PRODUCTS
	PROCESSED FRUITS AND JUICES
	PROCESSED MEAT
	PROCESSED MINERALS
	PROCESSED VEGETABLES
	PRODUCTS OF IRON AND STEEL
	PROJECT GOODS
	PULP AND WASTE PAPER
	PULSES
	PUMPS OF ALL TYPES
R	RAILWY TRNSPRT EQUIPMNTS, PRTS
	RAW HIDES AND SKINS
	RESIDUL CHEMICL AND ALLED PROD
	RICE(OTHER THAN BASMOTI)
	RMG COTTON INCL ACCESSORIES
	RMG MANMADE FIBRES
	RMG OF OTHR TEXTLE MATRL
	RMG SILK
	RMG WOOL
S	SADDLERY AND HARNESS
	SESAME SEEDS
	SHEEP/GOAT MEAT
	SHELLAC
	SHIP, BOAT AND FLOATING STRUCT
	SILK CARPET
D	SILK WASTE
	SILK,RAW
	SILVER
	SPICES
	SPORTS GOODS
	STATIONRY/OFFCE, SCHOOL SUPPLY
	SUGAR
	SULPHER, UNROASTED IRON PYRITE
	SURGICALS

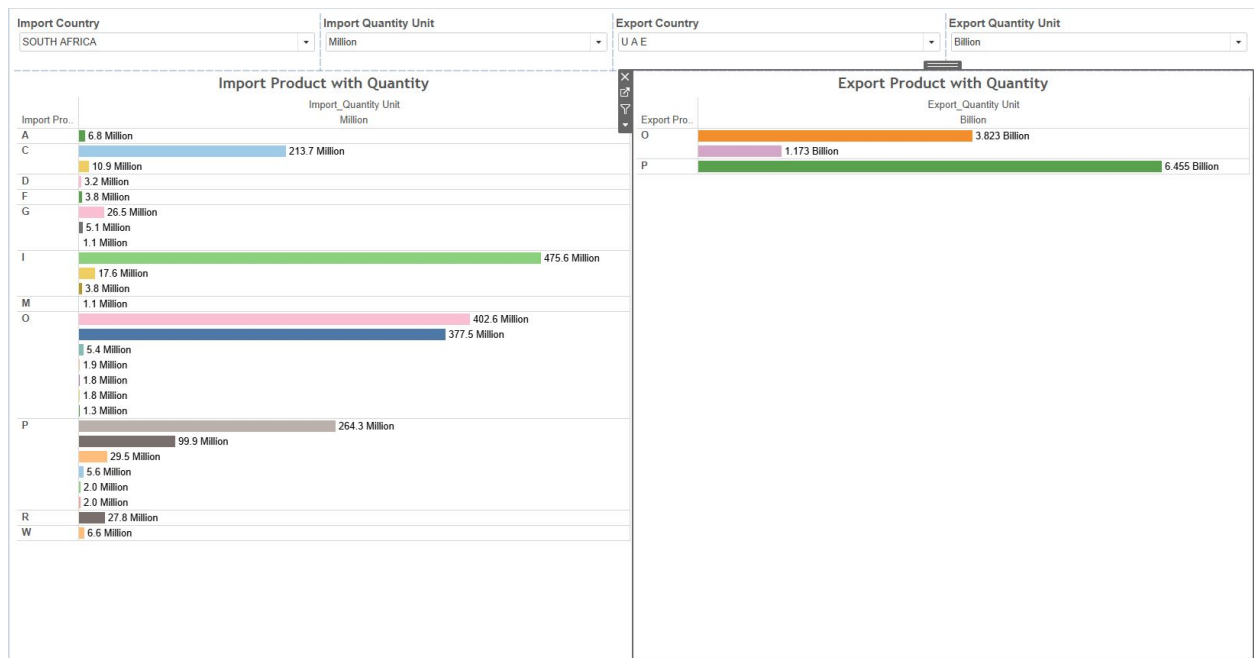
T	TEA
	TELECOM INSTRUMENTS
	TIN AND PRODUCTS MADE OF TIN
	TOBACCO MANUFACTURED
	TOBACCO UNMANUFACTURED
	TWO AND THREE WHEELERS
V	VEGETABLE OILS
W	WHEAT
	WOLLEN YARN,FABRICS,MADEUPSETC
	WOOL, RAW
Z	ZINC AND PRODUCTS MADE OF ZINC

Data Visualization:

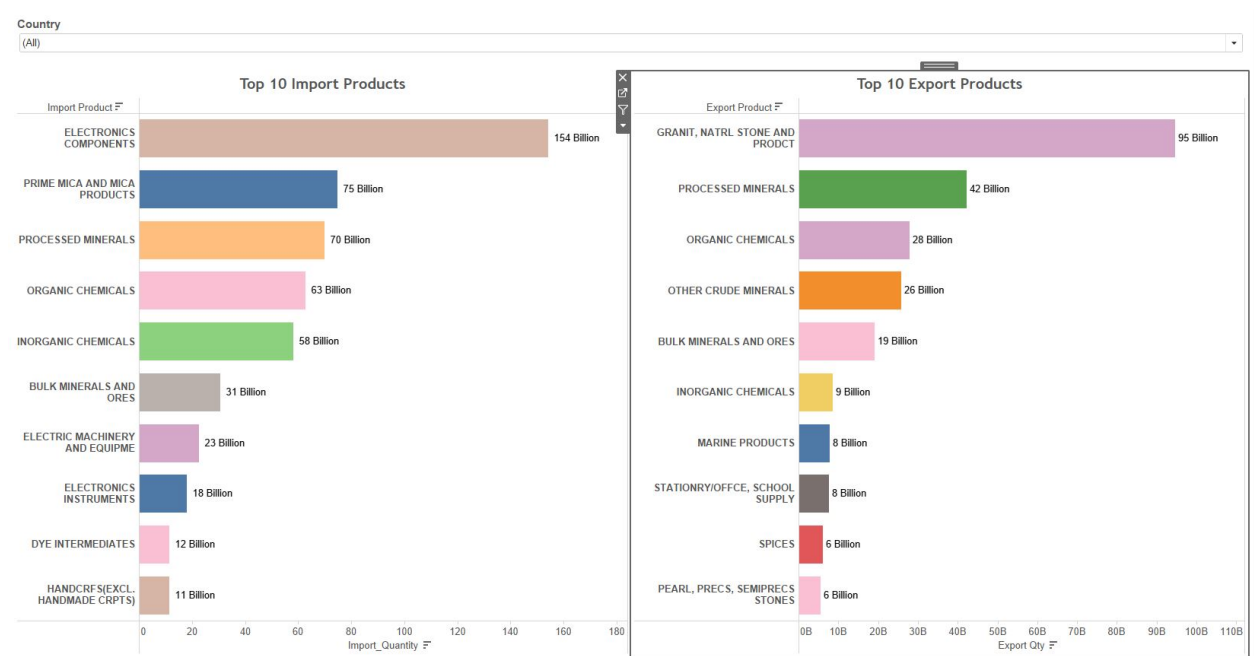
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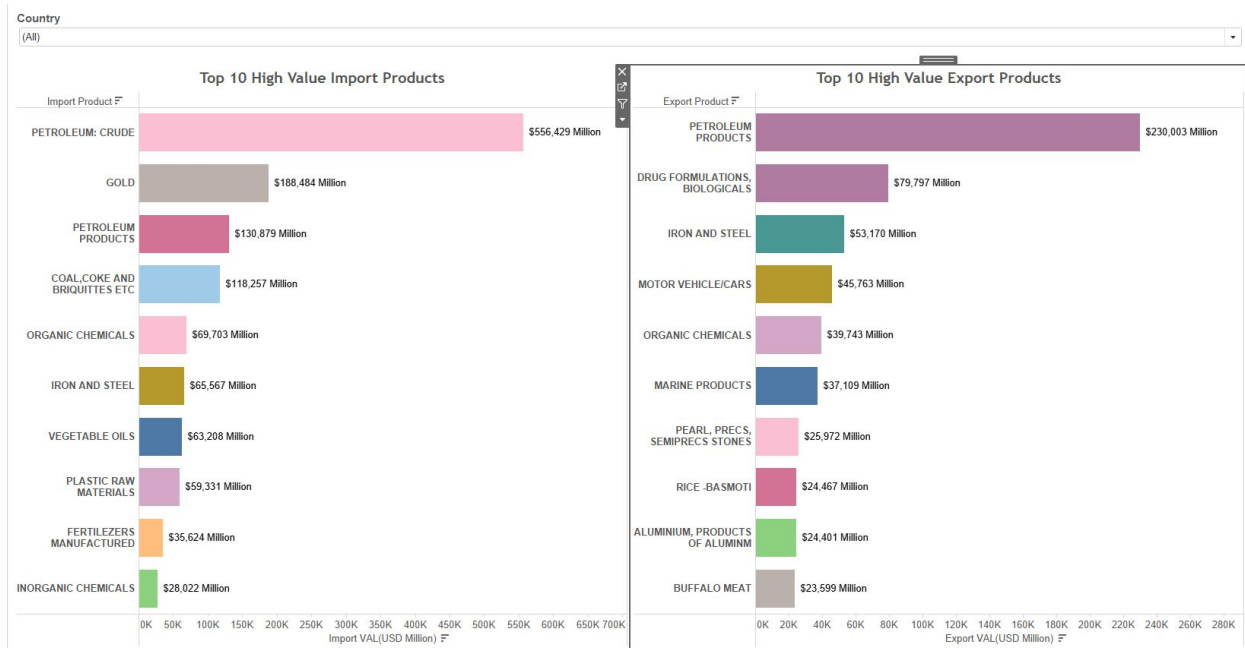
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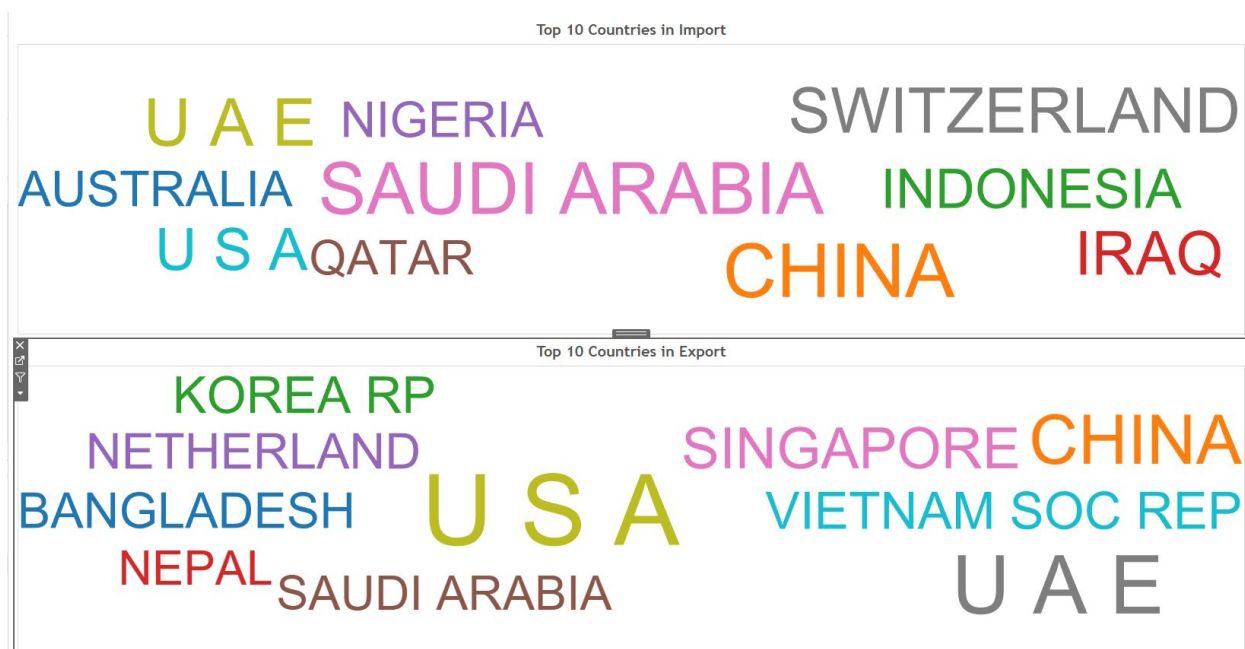
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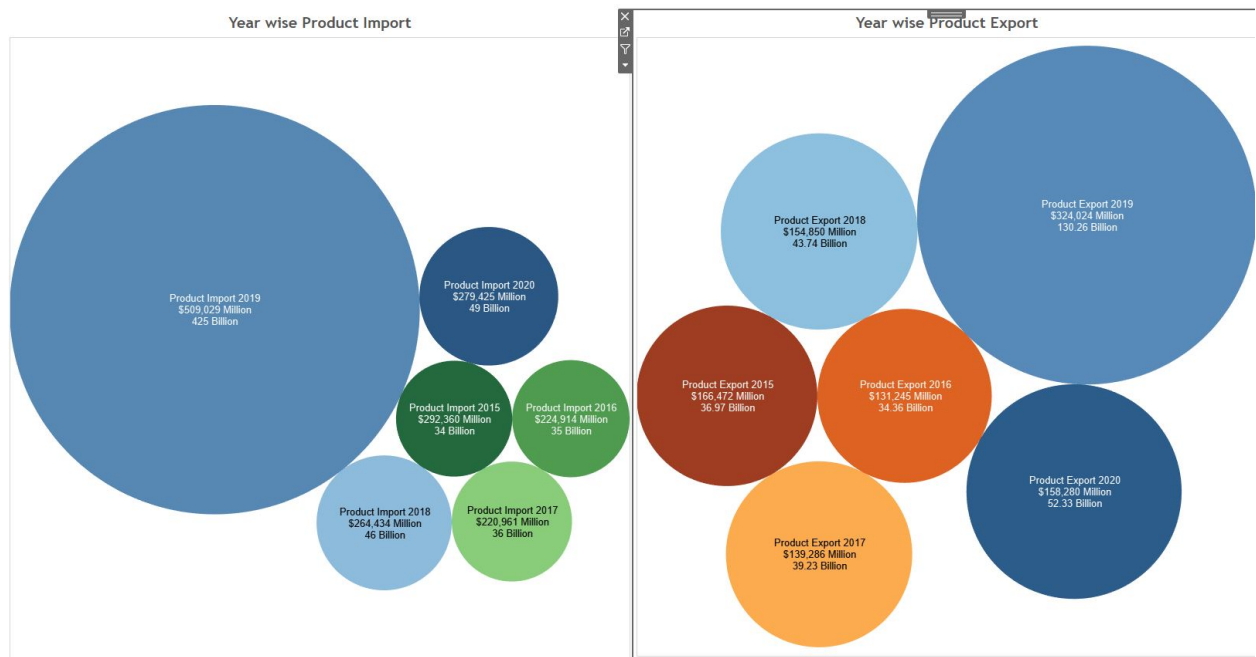
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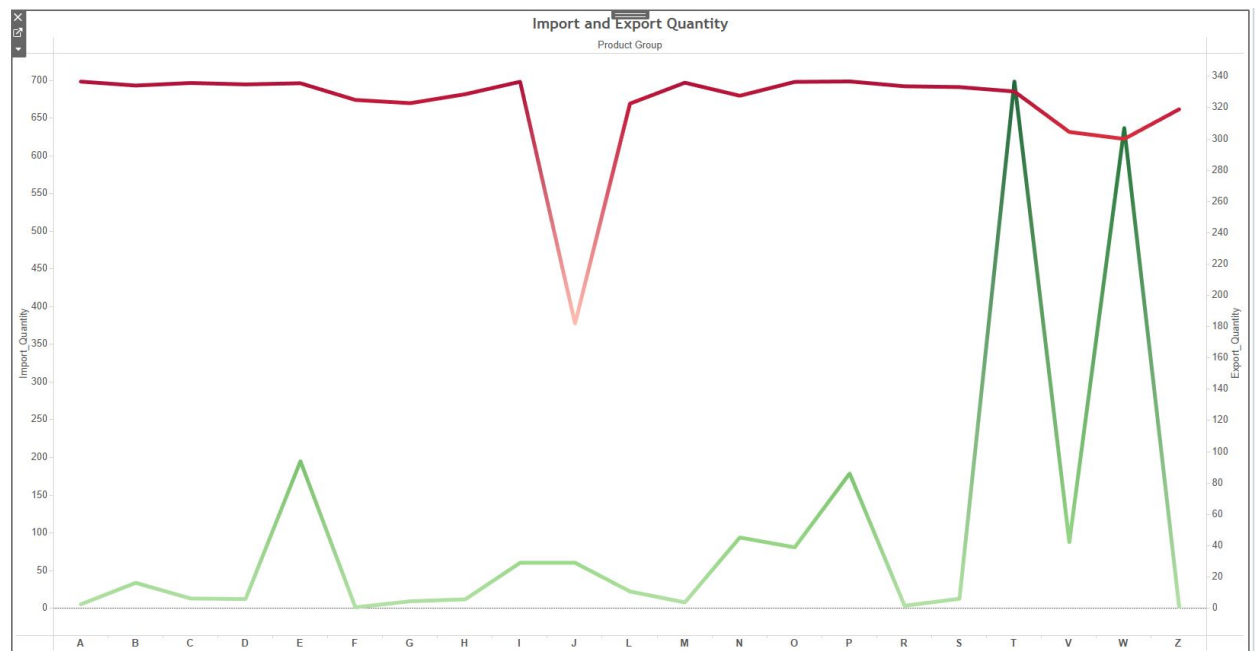
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6. To classify the import and export by year wise with product quantity and product value using bubble chart.



7. To visualize the import and export data with product quantity based on the product group using dual axis line chart.



Conclusion:

Thus the data visualization in the tableau software meets the seven objectives were performed successfully.