

Project Development Phase

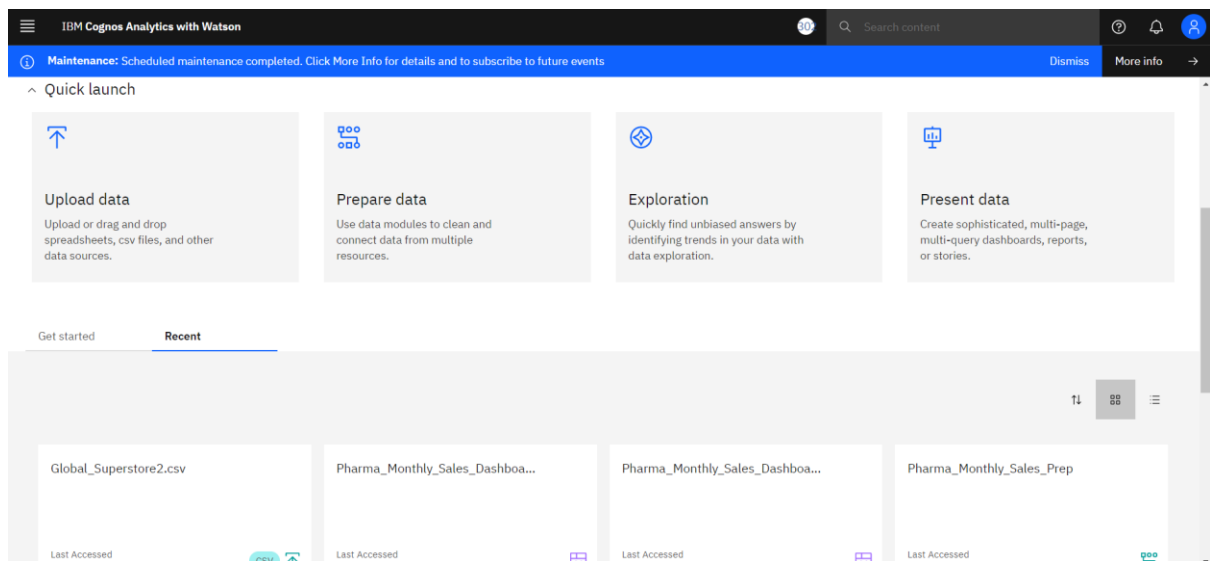
Delivery of Sprint-2

Date	12 November 2022
Team ID	PNT2022TMID31896
Project Name	Global Sales Data Analytics

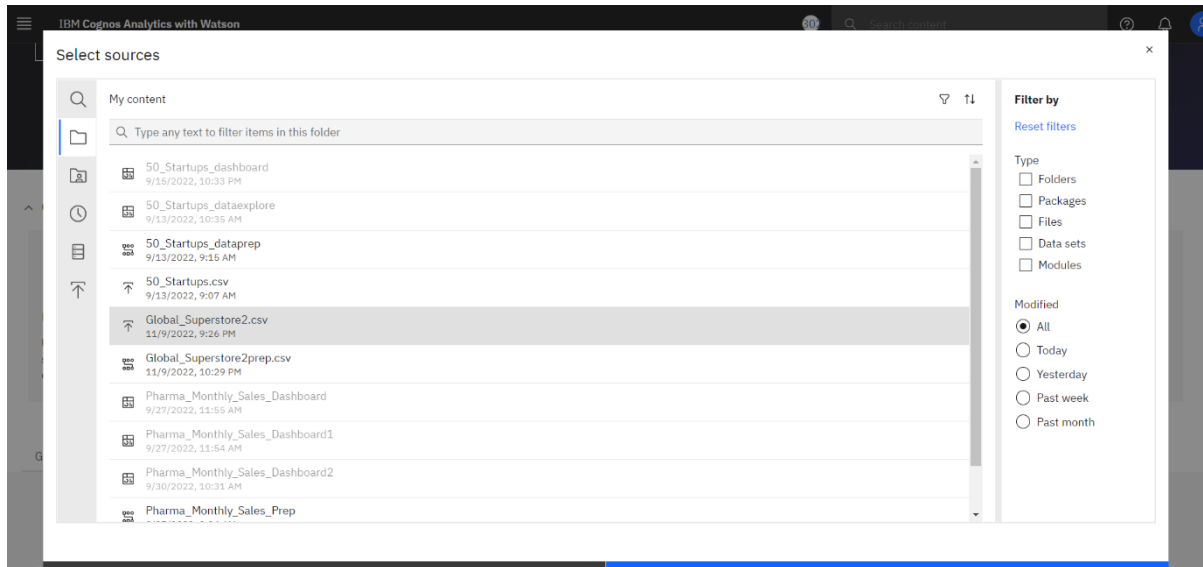
DATA PREPARATION PHASE:

Once the Dataset is uploaded into the IBM Cognos dashboard, we need to prepare the dataset. The data preparation includes cleaning up the data, removing the null values, removing the duplicate values, structuring the data so that the data is well understood for exploration and analysis.

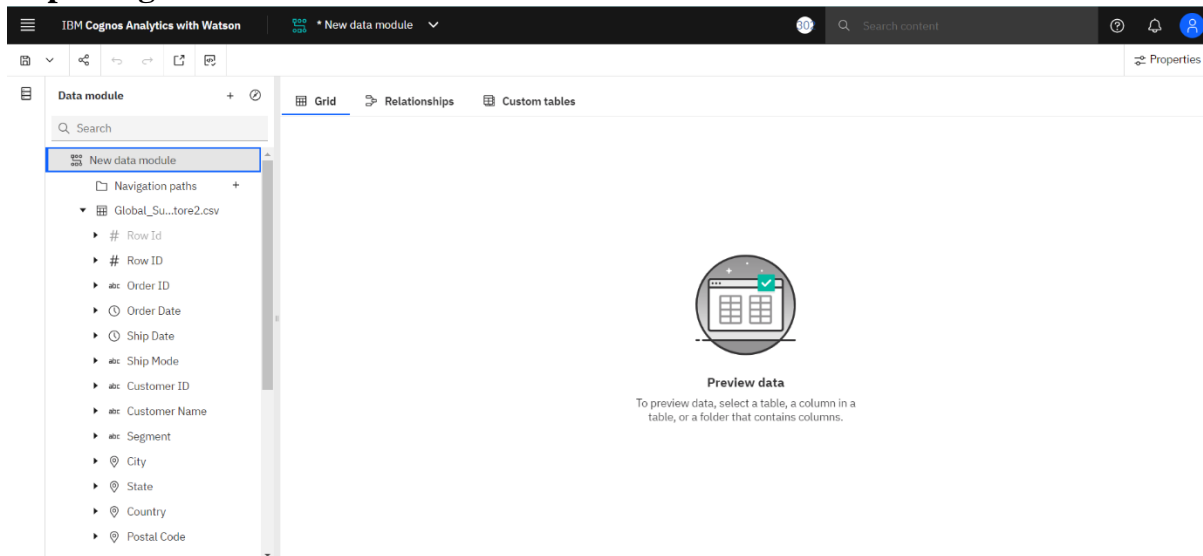
IBM Cognos Dashboard



Select the uploaded dataset from the menu



Exploring the Data modules



Understanding the Data

IBM Cognos Analytics with Watson

* New data module

Search content

Properties

Data module

Search

Order Date

Ship Date

Ship Mode

Customer ID

Customer Name

Segment

City

State

Country

Postal Code

Market

Region

Product ID

Category

Sub-Category

Product Name

Sales

Quantity

Discount

Profit

Shipping Cost

Order Priority

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID
1	CA-2012-124891	2012-07-31	2012-07-31	Same Day	RH-19495
2	IN-2013-77878	2013-02-05	2013-02-07	Second Class	JR-16210
3	IN-2013-71249	2013-10-17	2013-10-18	First Class	CR-12730
4	ES-2013-1579342	2013-01-28	2013-01-30	First Class	KM-16375
5	SG-2013-4320	2013-11-05	2013-11-06	Same Day	RH-9495
6	IN-2013-42360	2013-06-28	2013-07-01	Second Class	JM-15655
7	IN-2011-81826	2011-11-07	2011-11-09	First Class	TS-21340
8	IN-2012-86369	2012-04-14	2012-04-18	Standard Class	MB-18085
9	CA-2014-135909	2014-10-14	2014-10-21	Standard Class	JW-15220
10	CA-2012-116638	2012-01-28	2012-01-31	Second Class	JH-15985

Filter the data according to the requirements and remove the unnecessary data

IBM Cognos Analytics with Watson

* New data module

Search content

Properties

Data module

Search

Segment

City

State

Country

Postal Code

Market

Region

Product ID

Category

Sub-Category

Product Name

Sales

Quantity

Discount

Profit

Shipping Cost

Order Priority

Ship Mode	Customer ID	Customer Name	Segment	City	State	Country
Same Day	RH-19495	Rick Hansen	Consumer	New		United States
Second Class	JR-16210	Justin Ritter	Corporate	Wolk	Vales	Australia
First Class	CR-12730	Craig Reiter	Consumer	Brist		Australia
First Class	KM-16375	Katherine Murray	Home Office	Berlin		Germany
Same Day	RH-9495	Rick Hansen	Consumer	Daka		Senegal
Second Class	JM-15655	Jim Mitchum	Corporate	Sydn	Vales	Australia
First Class	TS-21340	Toby Swindell	Consumer	Porin		New Zealand
Standard Class	MB-18085	Mick Brown	Consumer	Hamilton	Waikato	New Zealand
Standard Class	JW-15220	Jane Waco	Corporate	Sacramento	California	United States
Second Class	JH-15985	Joseph Holt	Consumer	Concord	North Carolina	United States

Choose the required fields to be filtered

The screenshot shows the IBM Cognos Analytics interface. A 'Filter - City' dialog box is open, allowing users to select cities to filter. The dialog includes a search bar, a list of cities with checkboxes, and buttons for 'Clear all', 'Invert', 'Cancel', and 'OK'. The background displays a data table with columns for State, Country, and City.

State	Country
New York	United States
New South Wales	Australia
Queensland	Australia
Berlin	Germany
Dakar	Senegal
New South Wales	Australia
Wellington	New Zealand
Waikato	New Zealand
California	United States
North Carolina	United States

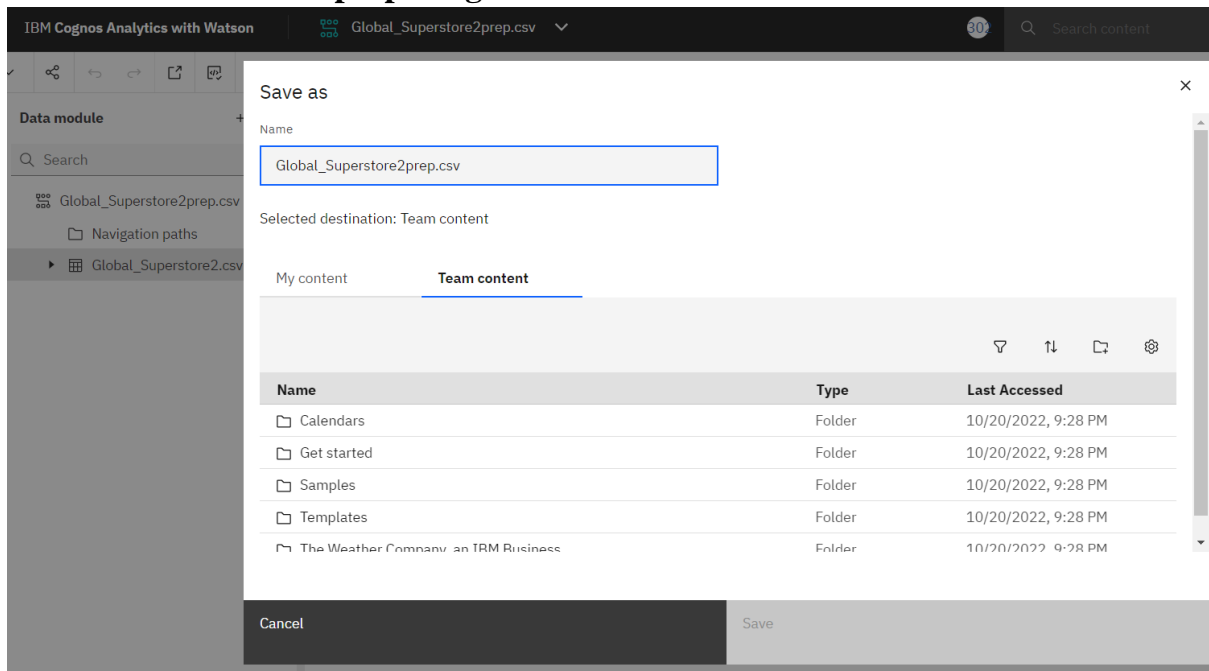
Relationships among the data

The screenshot shows the IBM Cognos Analytics interface with the 'Relationships' tab selected. A context menu is open for the 'Global_Superstore2.csv' data module, displaying various actions. The background shows a diagram with data modules and a 'Diagram settings' panel.

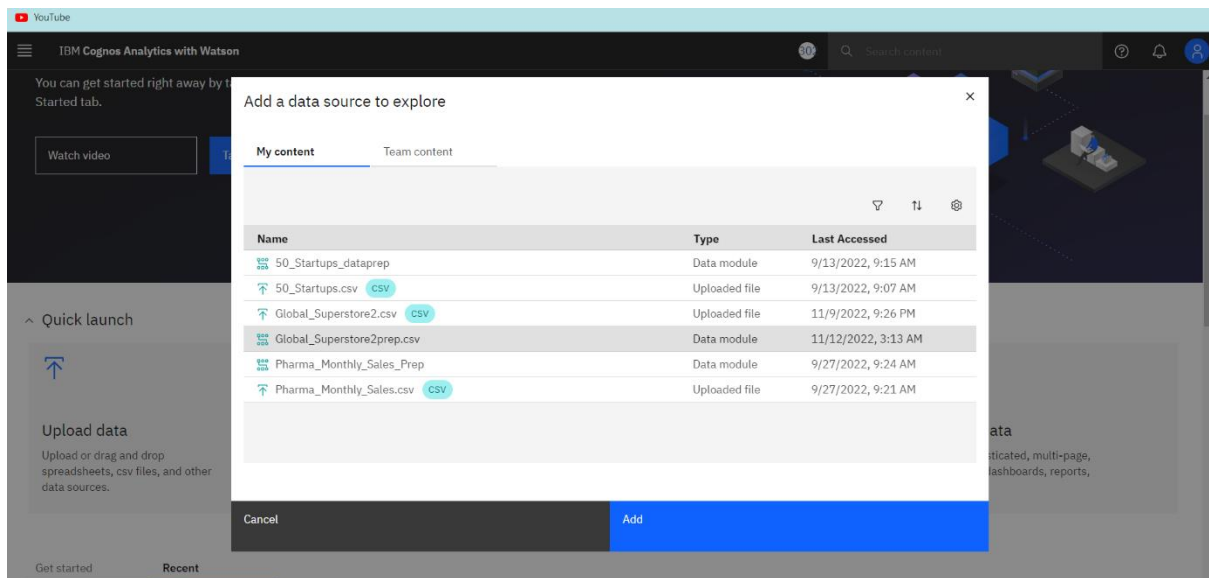
Diagram settings

- ☐ Cardinality
- ☐ Focus mode
- Degrees of separation: 1

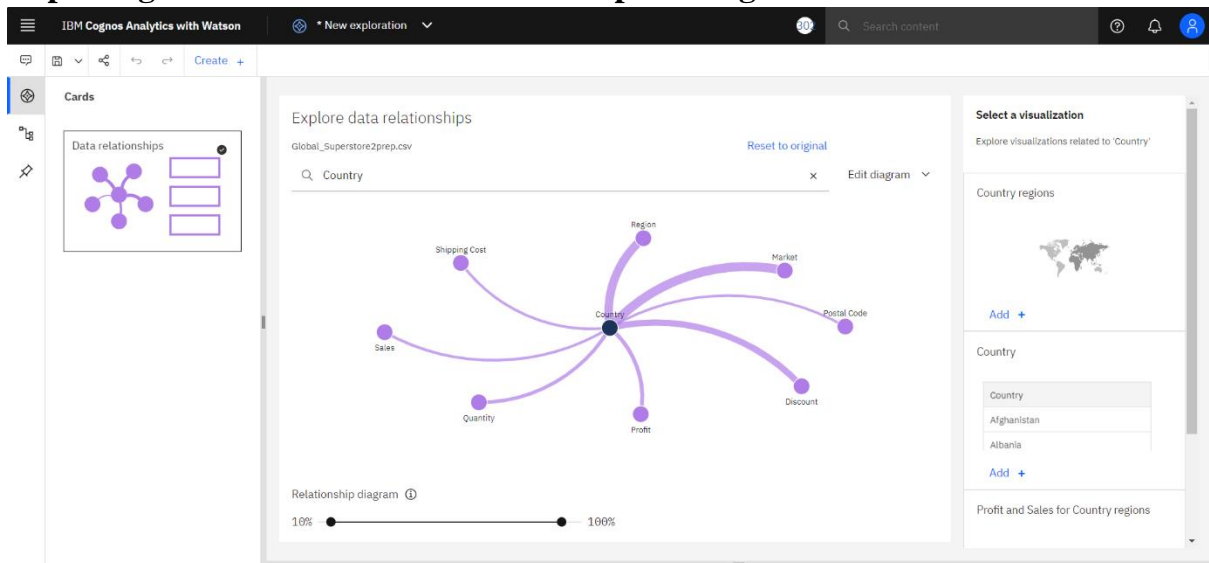
Save the dataset after preparing the data



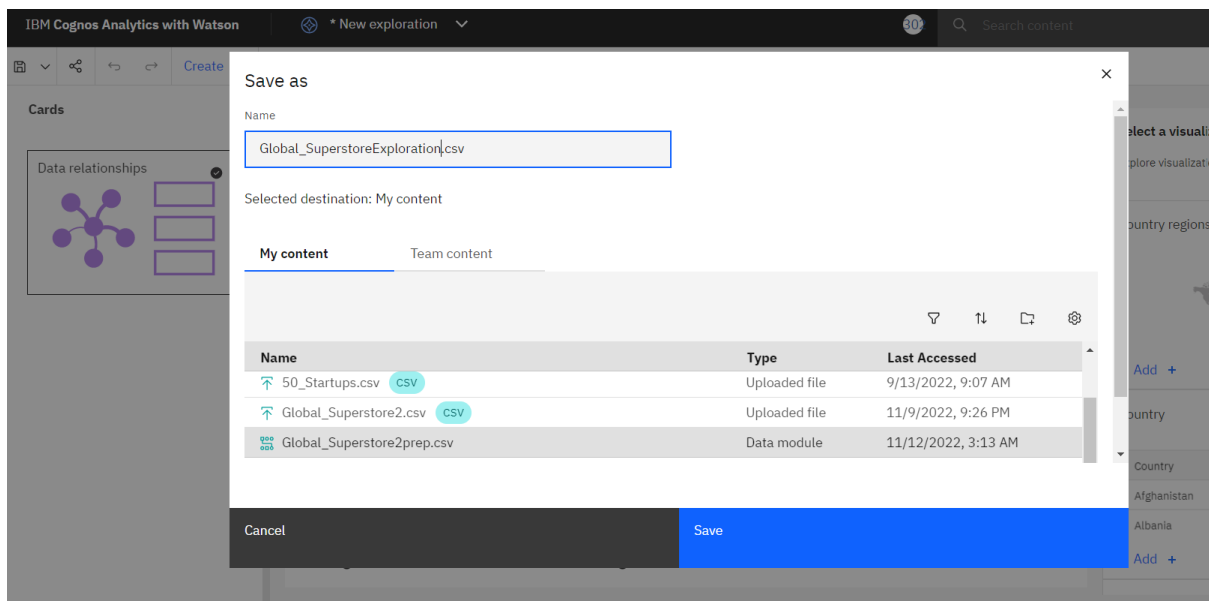
Select the Data to be explored



Exploring the data and create relationships among the data



Save the exploration

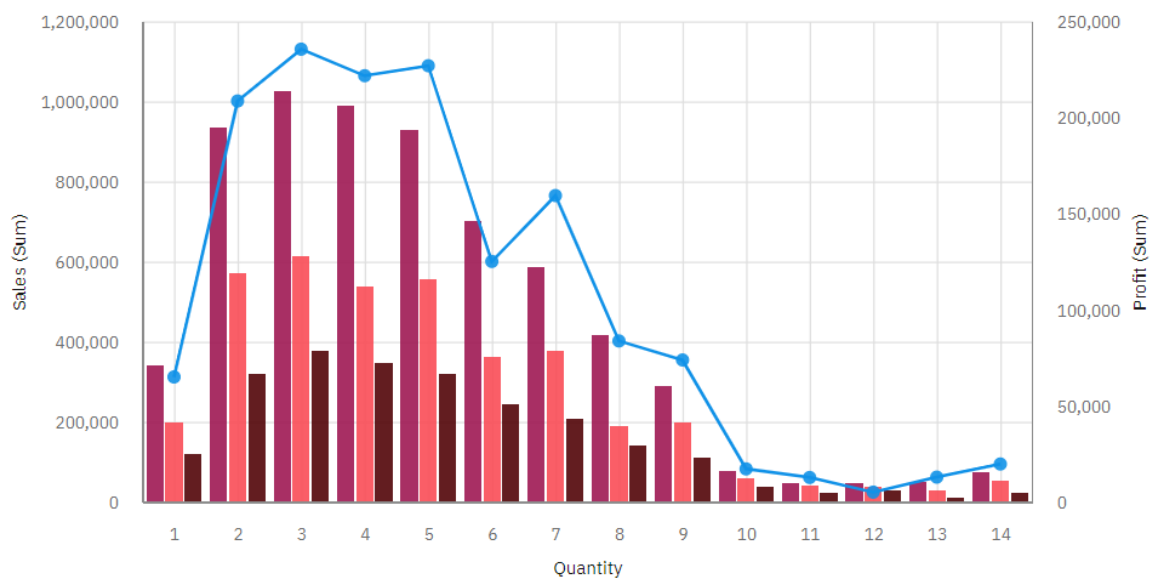


DATA EXPLORATION :

- Segment Wise Sales , Profit And Quantity
- Sales By Market
- Sales By Sub Category And Sales By Region
- Country Wise Sales Using Map Points
- Sub Category Wise Sales And Profits Using Line And Bar Chart
- Sales Vs Profit Scatter Plot With Sub Categories And Regions
- Regional Sales And Profit Forecast
- Sales Forecast By Order Priority
- Sales By Sub Category Analytics
- Sales By Segment Analysis
- Sales Vs Profit By Countries
- Regional Quantity And Sales Using Radar Chart
- Country Wise Sales Vs Profit Using Word Cloud
- Sales Dashboard

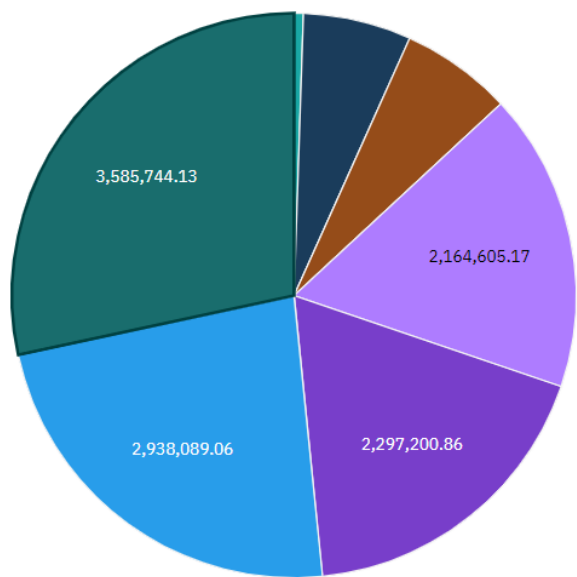
Segment Wise Sales , Profit And Quantity

Segment Wise Sales , Profit And Quantity

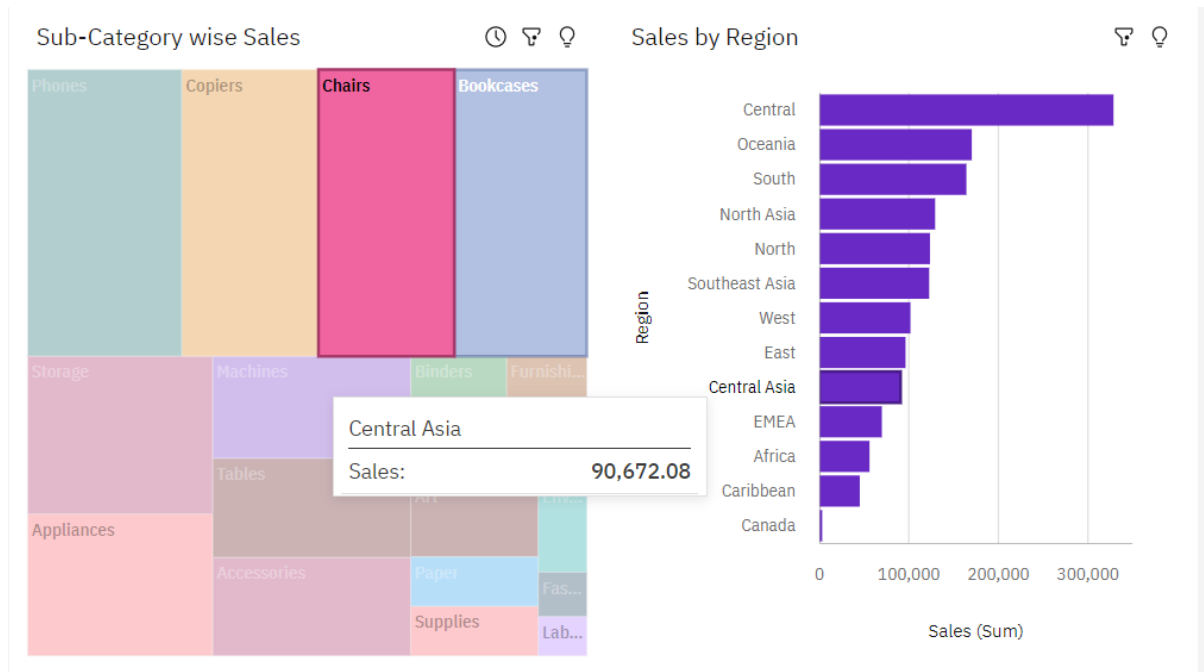


Sales By Market

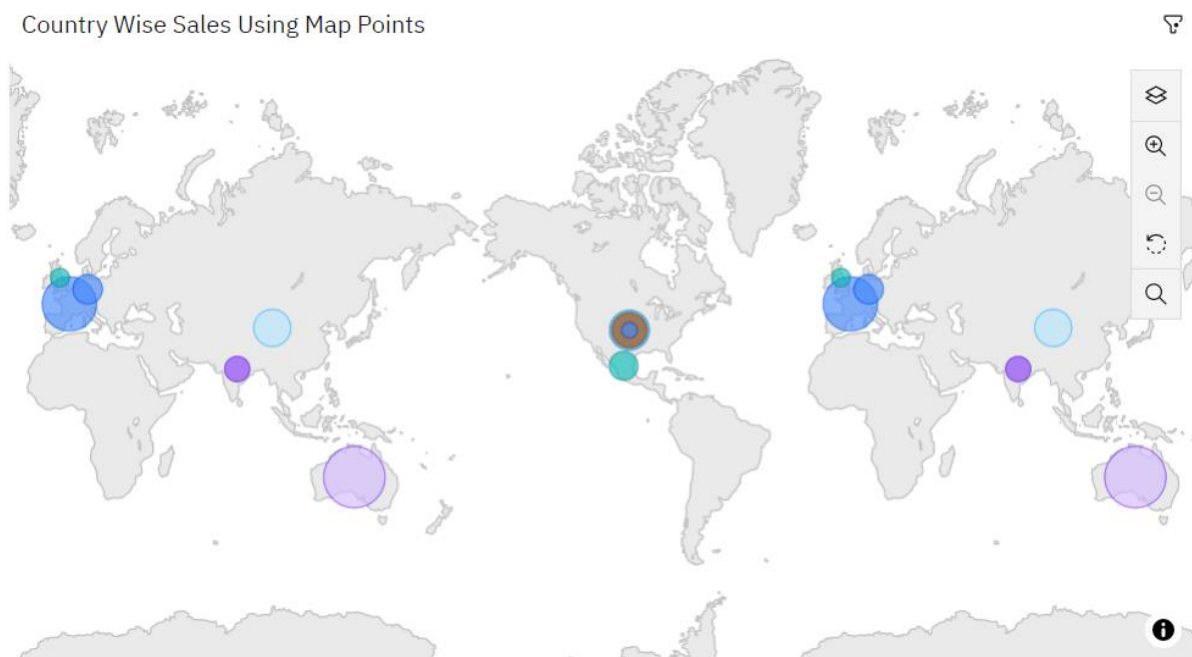
Sales by Market



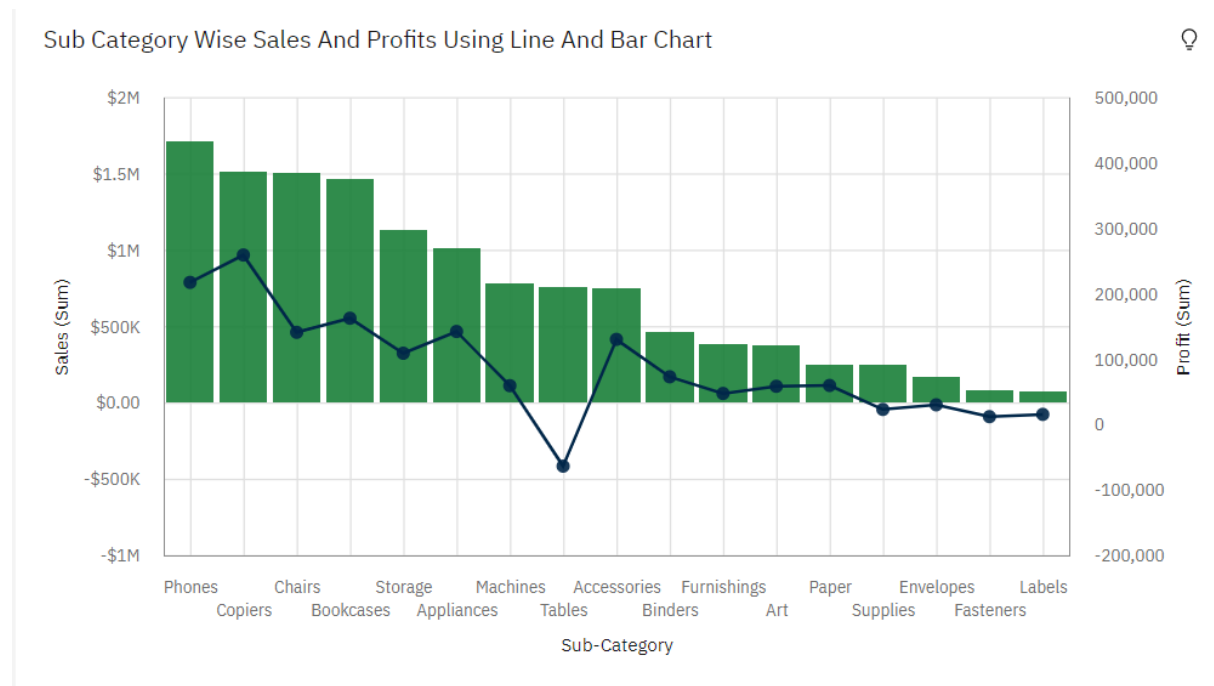
Sales By Sub Category And Sales By Region



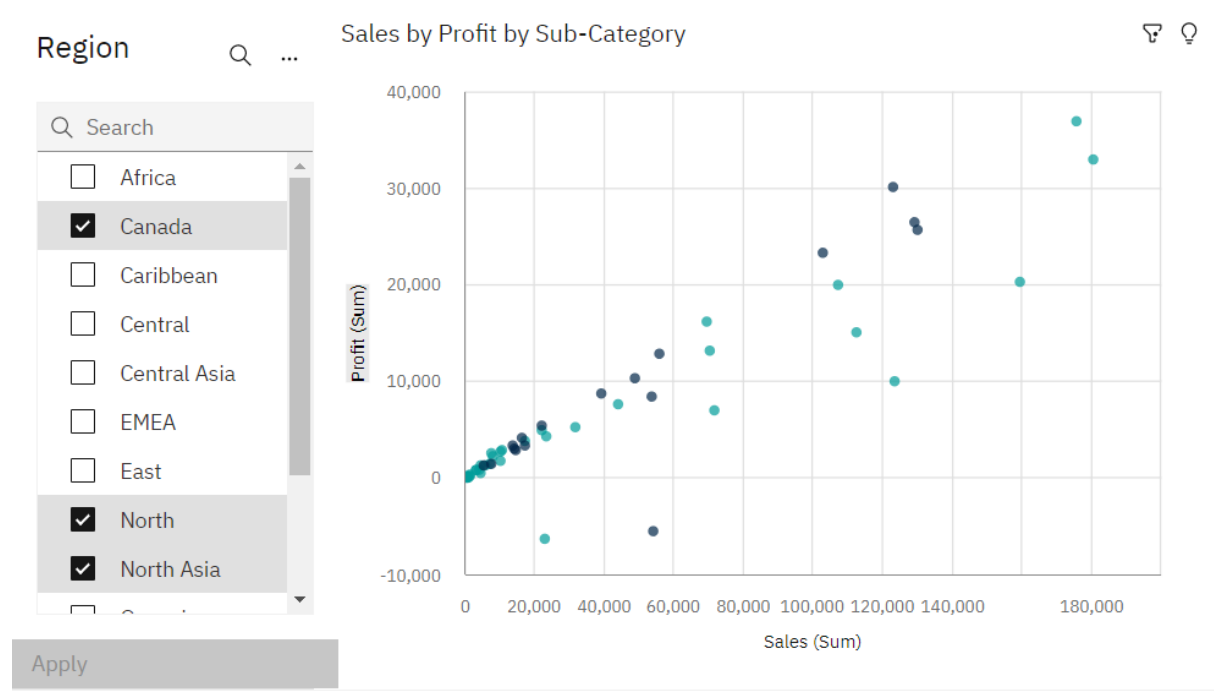
Country Wise Sales Using Map Points



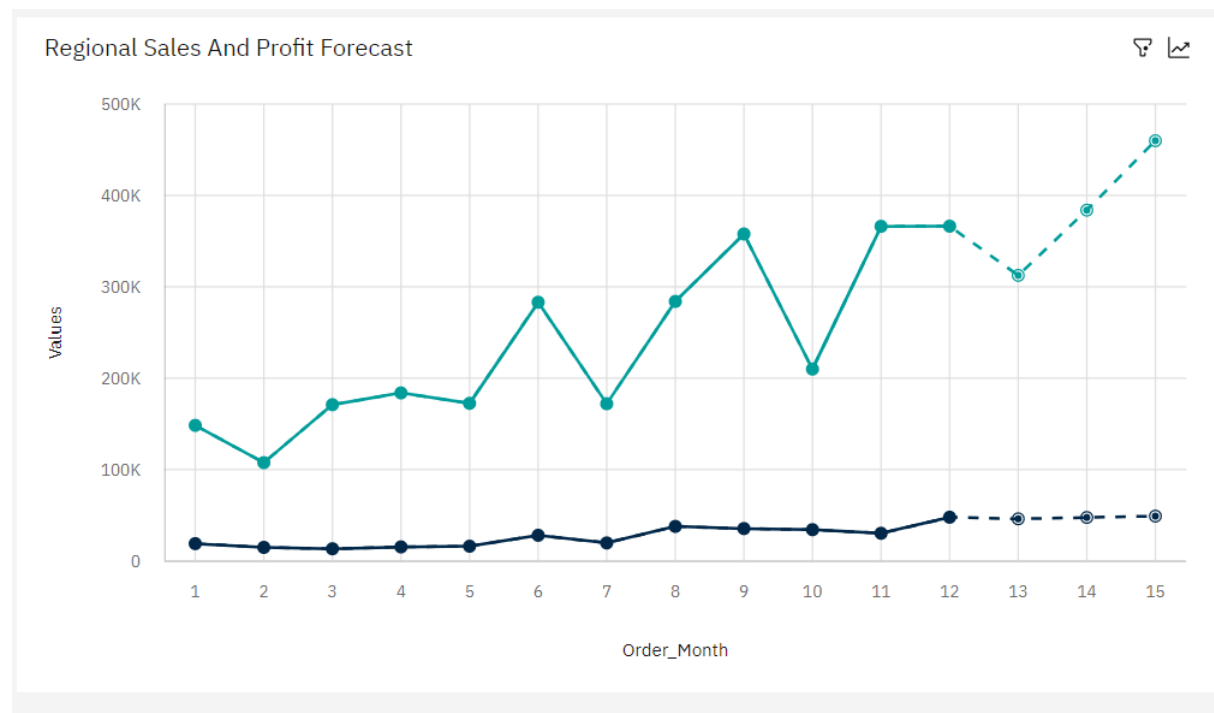
Sub Category Wise Sales And Profits Using Line And Bar Chart



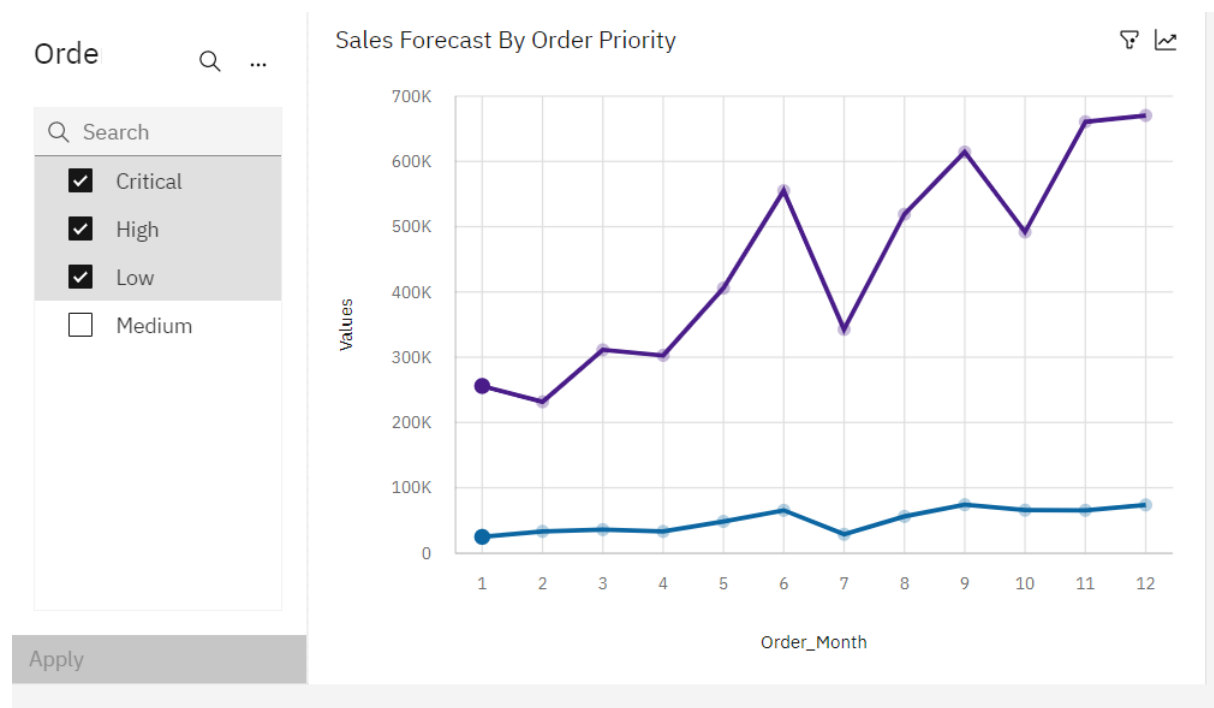
Sales Vs Profit Scatter Plot With Sub Categories And Regions



Regional Sales And Profit Forecast



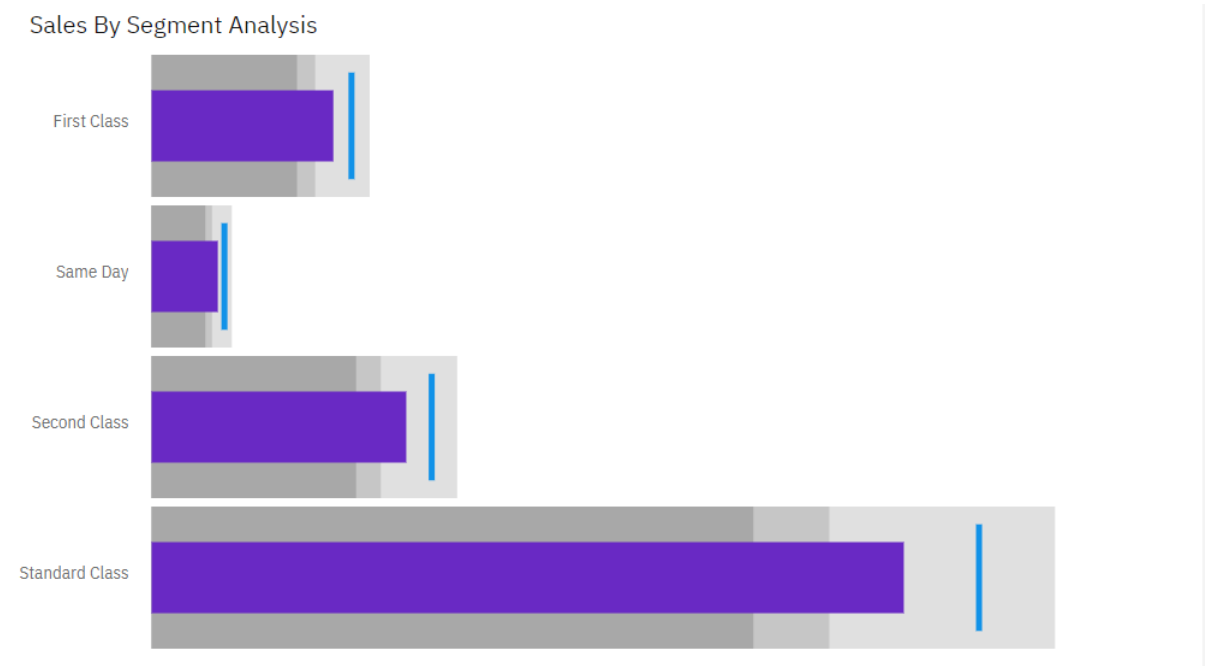
Sales Forecast By Order Priority



Sales By Sub Category Analytics

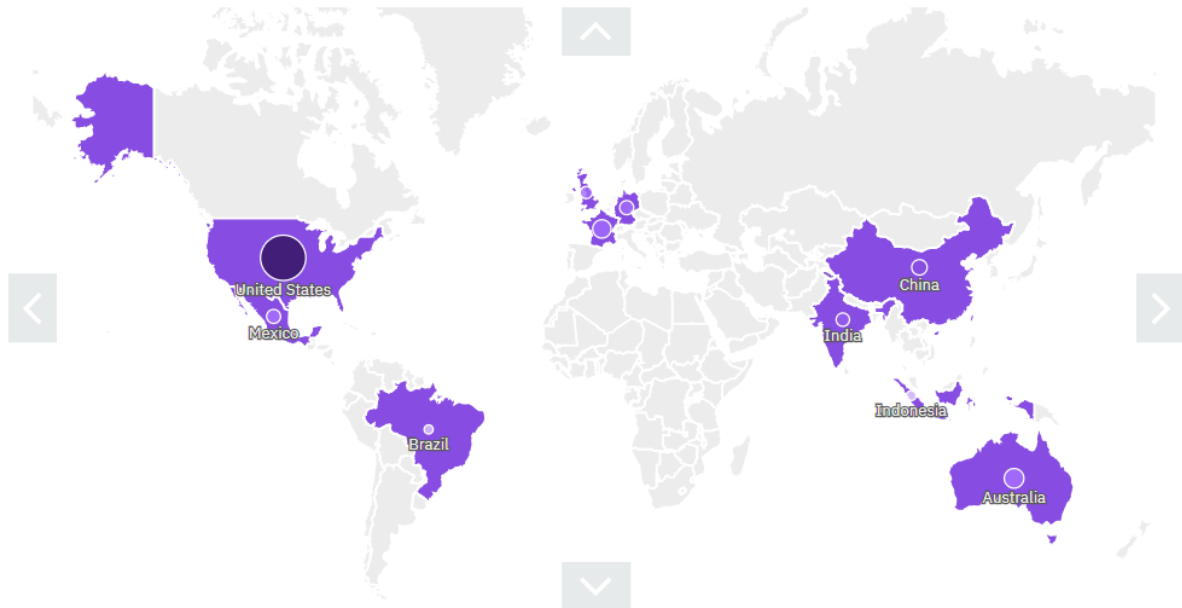


Sales By Segment Analysis



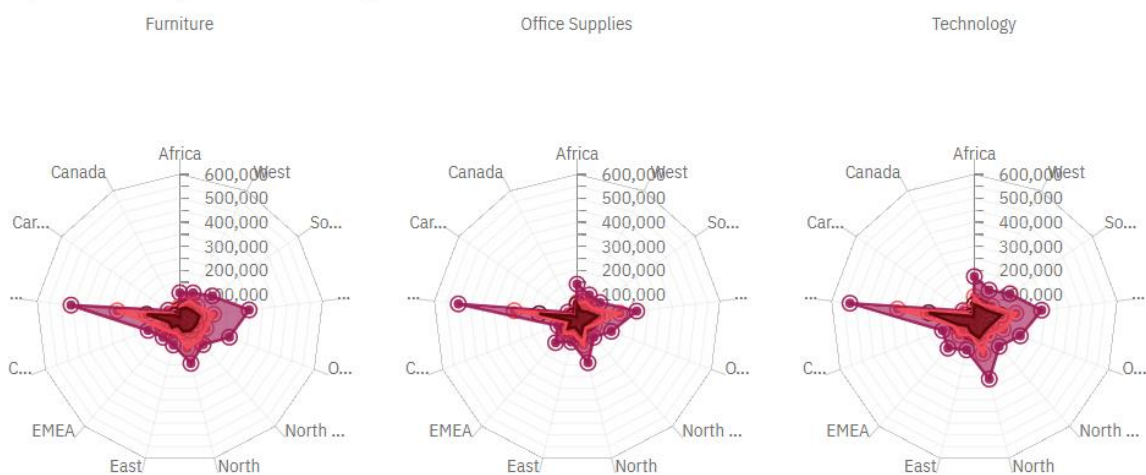
Sales Vs Profit By Countries

Sales Vs Profit By Countries



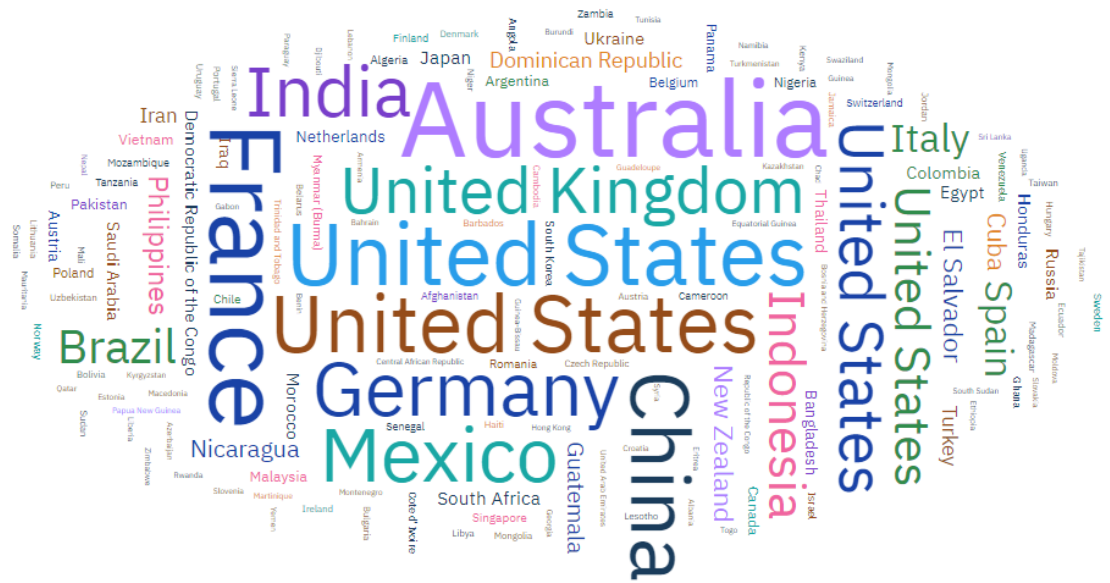
Regional Quantity And Sales Using Radar Chart

Regional Quantity And Sales Using Radar Chart



Country Wise Sales Vs Profit Using Word Cloud

Country Wise Sales Vs Profit Using Word Cloud



Sales Dashboard

