

PROJECT DEVELOPMENT PHASE

DELIVERY OF SPRINT-2

Date	4 NOVEMBER 2022
TEAM ID	PNT2022TMID16522
PROJECT NAME	GLOBAL SALES DATA ANALYTICS

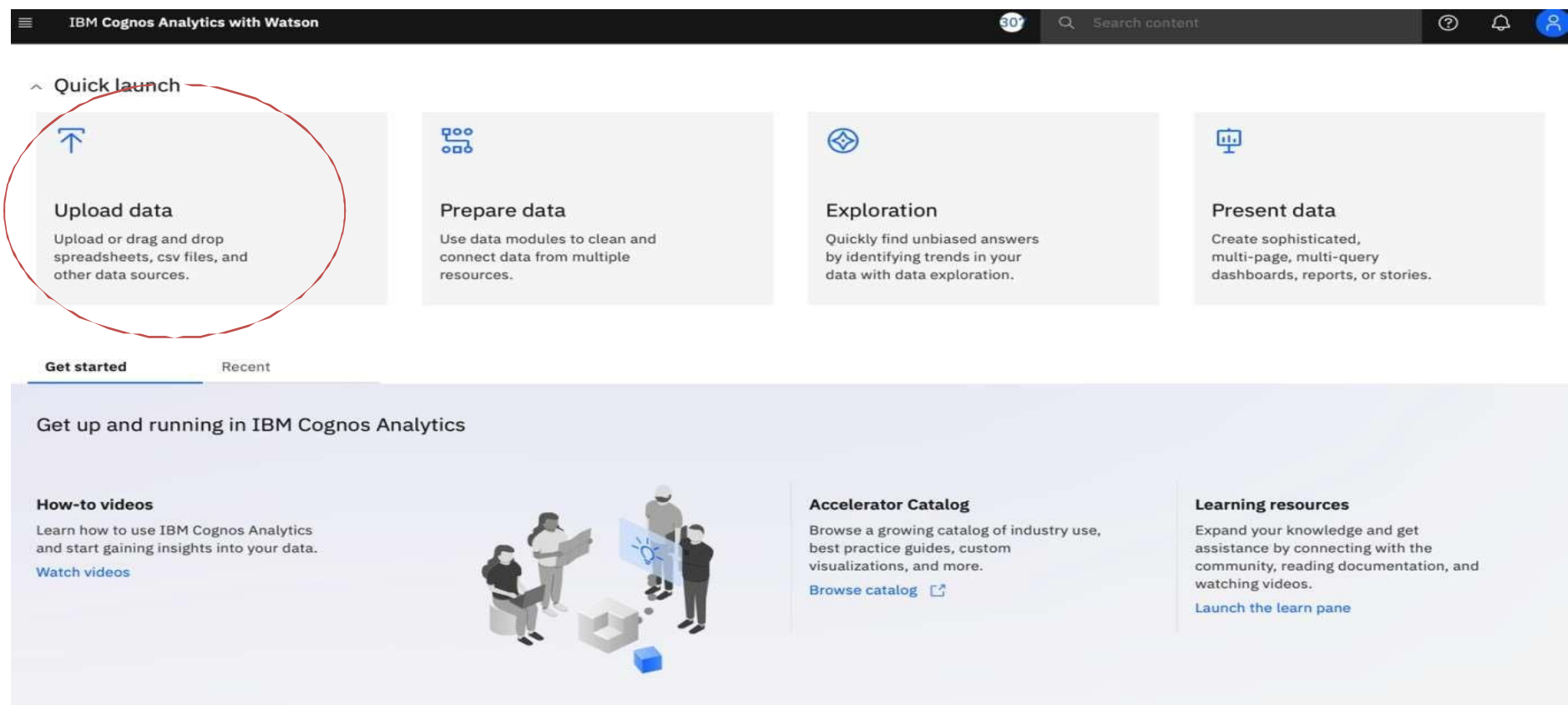
SPRINT 2 FUNCTIONAL REQUIREMENT

- > UPLOAD DATASET
- > DATA PREPARATION
- > DATA EXPLORATION

UPLOAD DATASET:





DOWNLOAD THE DATASET: <https://www.kaggle.com/datasets/apoorvaappz/global-super-store-dataset>

> OPEN IBM COGNOS DASHBOARD AND CLICK THE UPLOAD DATA AND UPLOAD THE DATASET FILE




DATA PREPARATION:

STEP 1 : CLICK THE PREPARE DATA


 IBM Cognos Analytics with Watson 30°   

^ Quick launch




Upload data

Upload or drag and drop spreadsheets, csv files, and other data sources.




Prepare data

Use data modules to clean and connect data from multiple resources.



Exploration

Quickly find unbiased answers by identifying trends in your data with data exploration.



Present data

Create sophisticated, multi-page, multi-query dashboards, reports, or stories.

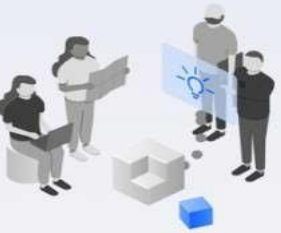
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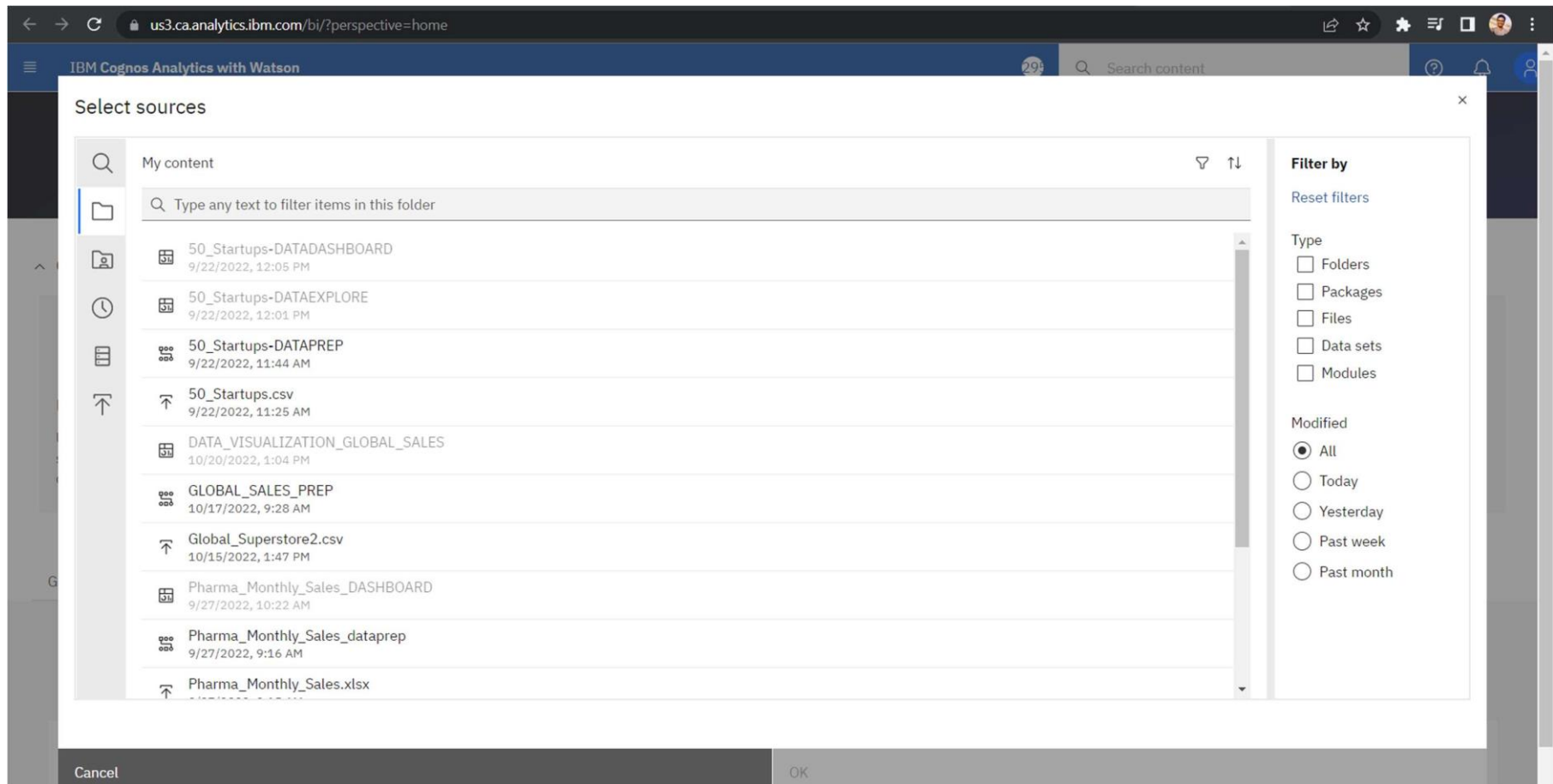
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STEP 2: SELECT THE UPLOAD DATASET FROM THE CONTENT MENU



STEP 3 : PREPARATION OF THE DATA

The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the IBM Cognos Analytics with Watson logo, a dropdown menu for "New data module", a search bar, and user profile icons. The main workspace is divided into a left sidebar and a central area. The sidebar, titled "Data module", contains a search bar and a list of data sources. The central area, titled "Grid", shows a "Preview data" section with a grid icon and a checkmark, indicating that data is being previewed. The list of data sources in the sidebar includes:

- Navigation paths
- Global_Superstore2.csv
 - # Row Id
 - # Row ID
 - abc Order ID
 - ⌚ Order Date
 - ⌚ Ship Date
 - abc Ship Mode
 - abc Customer ID
 - abc Customer Name
 - abc Segment
 - 📍 City
 - 📍 State
 - 📍 Country
 - 📍 Postal Code
 - abc Market
 - 📍 Region
 - abc Product ID
 - abc Category

STEP 4: ONCE YOU LOAD THE DATA, WE NEED TO PREPARE THE DATA.

A. REMOVE THE NULL VALUES

B. PREPARE CALCULATIONS OF YEAR, MONTH, DAY FIELDS AND ALSO THE RELATED NAVIGATION PATH

The screenshot shows the IBM Cognos Analytics with Watson interface. The top navigation bar includes the IBM logo, the text "IBM Cognos Analytics with Watson", a dropdown menu for "GLOBAL_SALES_PREP", a search bar, and user profile icons. Below the navigation bar is a toolbar with various icons for file operations. The main content area is divided into a left sidebar and a central grid view. The sidebar, titled "Data module", contains a search bar and a list of data fields: Customer Name, Segment, City, State, Country, Postal Code, Market, Region, Product ID, Category, Sub-Category, Product Name, Sales, Quantity, Discount, Profit, Shipping Cost, and Order Priority. The "Postal Code" field is currently selected. The central grid view displays a table with the following columns: Country, Postal Code, Market, Region, Product ID, and Category. The table contains 10 rows of data, with some rows having null values in the Postal Code column.

Country	Postal Code	Market	Region	Product ID	Category
United States	10024	US	East	TEC-AC-10003033	Technology
Australia	Null	APAC	Oceania	FUR-CH-10003950	Furniture
Australia	Null	APAC	Oceania	TEC-PH-10004664	Technology
Germany	Null	EU	Central	TEC-PH-10004583	Technology
Senegal	Null	Africa	Africa	TEC-SHA-10000501	Technology
Australia	Null	APAC	Oceania	TEC-PH-10000030	Technology
New Zealand	Null	APAC	Oceania	FUR-CH-10004050	Furniture
New Zealand	Null	APAC	Oceania	FUR-TA-10002958	Furniture
United States	95823	US	West	OFF-BI-10003527	Office Supplies
United States	28027	US	South	FUR-TA-10000198	Furniture

> CREATE CALCULATION TO MAKE THE DATE PREPARED

The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the application name, a dropdown menu for the current project ('global sales data cleaned'), a search bar, and user profile icons. The main workspace is divided into three tabs: 'Grid', 'Relationships' (selected), and 'Custom tables'. On the left, the 'Data module' pane shows a search bar and a list of fields for 'Global_Superstore2.csv', including 'Row ID', 'Order ID', 'Order Date', 'Ship Date', 'Ship Mode', 'Customer ID', 'Customer Name', 'Segment', 'City', 'State', 'Country', 'Postal Code', 'Market', 'Region', and 'Product ID'. The 'Product ID' field is expanded, showing three values: 'FUR-ADV...000002', 'FUR-ADV...000108', and 'FUR-ADV...000183'. In the center, the 'Global_Superstore2.csv' data module is represented by a blue box with a grid icon. A context menu is open over this box, listing options: 'New' (with a sub-menu containing 'Calculation...' which is highlighted), 'Filter...', 'Table...', 'Rename', 'Show query information...', 'Hide from users', 'Remove', 'Manage filters', 'Auto-arrange', and 'Properties'. On the right, the 'Diagram settings' pane is visible, featuring toggle switches for 'Cardinality' and 'Focus mode', and a slider for 'Degrees of separation' set to 1. A vertical toolbar on the far right contains icons for search, refresh, and zoom.

IBM Cognos Analytics with Watson

29:03

GLOBAL_SALES_PREP

29:03

Search content

?

🔔

👤

Edit calculation

×

Name

day

Components

Expression

14

⌵

🔍 Search

Global_Sup...tore2.csv

▶ # day

▶ # month

▶ # year

▶ # Calcul... name

▶ # Row Id

▶ # Row ID

▶ abc Order ID

▶ 🕒 Order Date

▶ 🕒 Ship Date

▶ abc Ship Mode

1

day(Order_Date)

Validation Results

✔ The expression is valid.

Cancel

OK

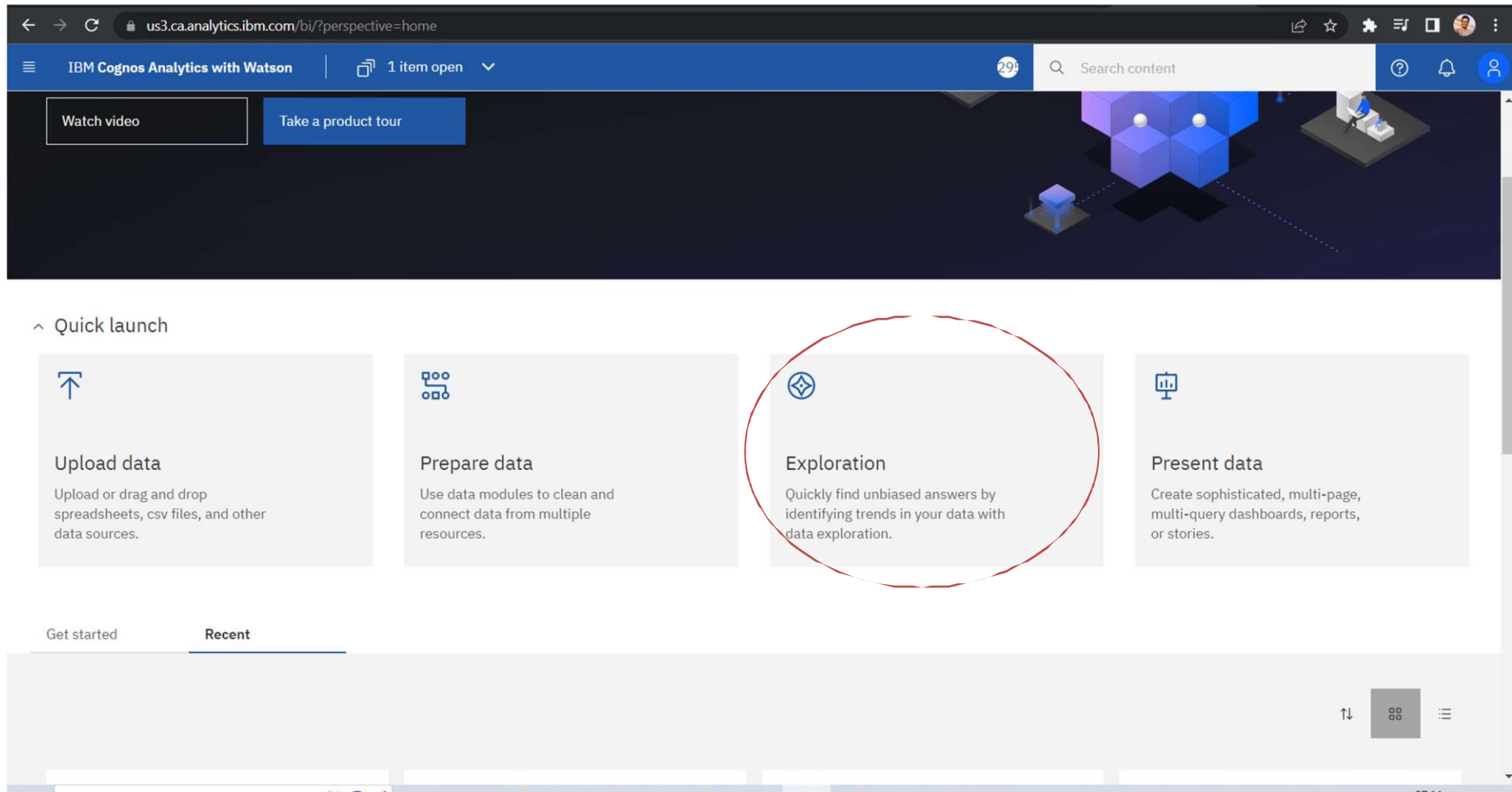
STEP 5 : SAVE THE DATASET AFTER PREPARING THE DATA

The screenshot shows the IBM Cognos Analytics interface with a 'Save as' dialog box open. The dialog box has a 'Name' field containing 'GLOBAL_SALES_PREP' and a 'Selected destination' of 'My content'. Below this, there is a table of existing content. The table has columns for 'Name', 'Type', and 'Last Accessed'. The '50_Startups.csv' file is highlighted with a blue 'CSV' tag. The 'Save' button is highlighted in blue.

Name	Type	Last Accessed
50_Startups-DATADASHBOARD	Dashboard	9/22/2022, 12:05 PM
50_Startups-DATAEXPLORE	Exploration	9/22/2022, 12:01 PM
50_Startups-DATAPREP	Data module	9/22/2022, 11:44 AM
50_Startups.csv	Uploaded file	9/22/2022, 11:25 AM
DATA_VISUALIZATION_GLOBAL_SALES	Dashboard	10/20/2022, 1:04 PM
GLOBAL_SALES_PREP	Data module	10/17/2022, 9:28 AM

DATA EXPLORATION:

STEP 1: CLICK THE EXPLORATION



STEP 2 : ADD A DATA SOURCE TO EXPLORE

The screenshot shows the IBM Cognos Analytics interface. A modal dialog titled "Add a data source to explore" is open, displaying a list of data sources under the "My content" tab. The list includes data modules and uploaded files with their respective types and last accessed dates. The background interface shows a sidebar with "Quick launch" and "Upload data" options, and a top navigation bar with "IBM Cognos Analytics with Watson" and a search bar.

Name	Type	Last Accessed
50_Startups-DATAPREP	Data module	9/22/2022, 11:44 AM
50_Startups.csv	Uploaded file	9/22/2022, 11:25 AM
GLOBAL_SALES_PREP	Data module	11/12/2022, 7:38 PM
Global_Superstore2.csv	Uploaded file	10/15/2022, 1:47 PM
Pharma_Monthly_Sales_dataprep	Data module	9/27/2022, 9:16 AM
Pharma_Monthly_Sales.xlsx	Uploaded file	9/27/2022, 9:15 AM
Sample - Superstore.xls	Uploaded file	9/19/2022, 11:37 AM
samplestore_dataprep	Data module	9/19/2022, 11:50 AM

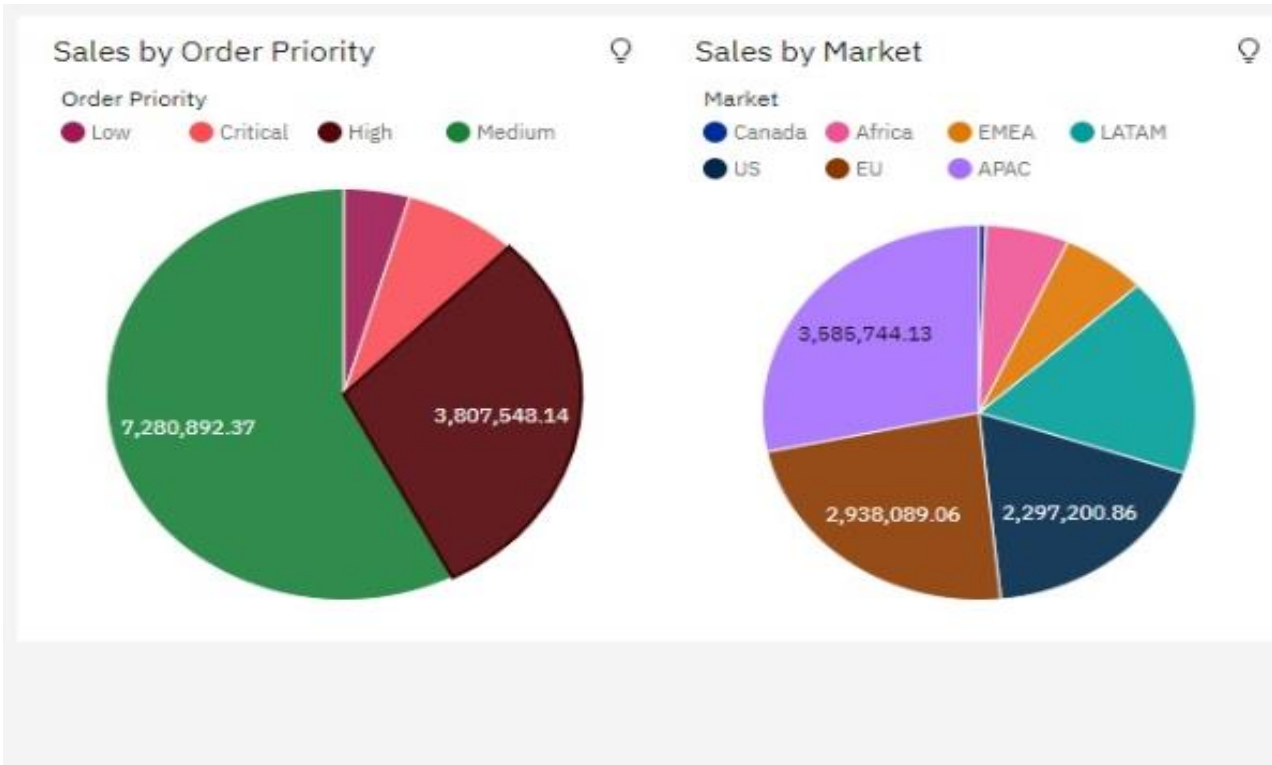
Buttons: Cancel, Add

STEP 6: DATA VISUALIZATION

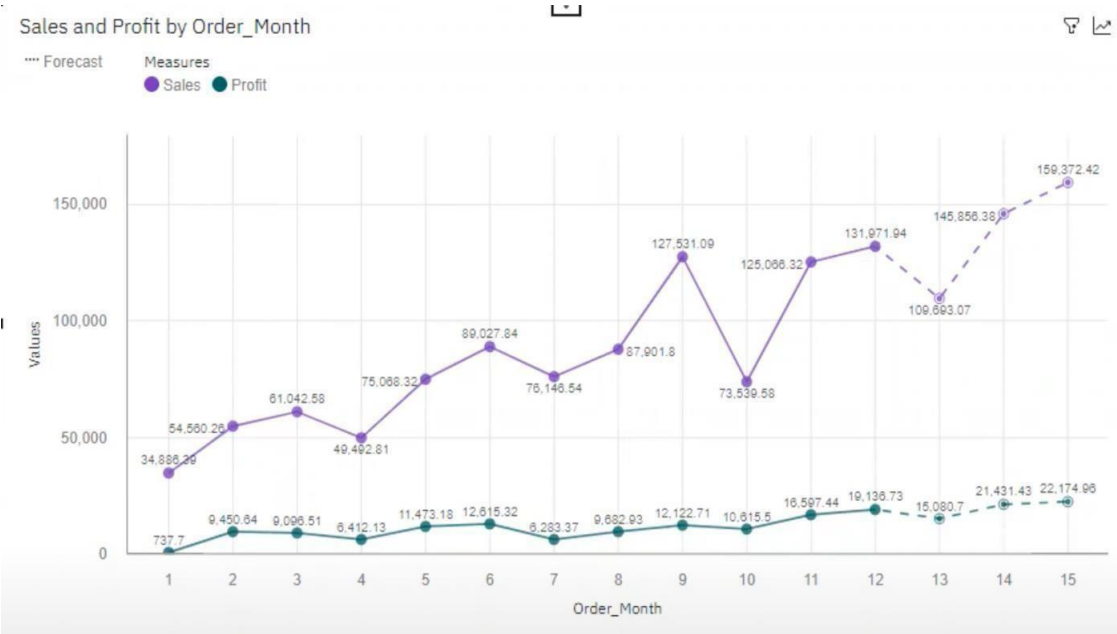
Segment Wise Sales, Profit, And Quantity



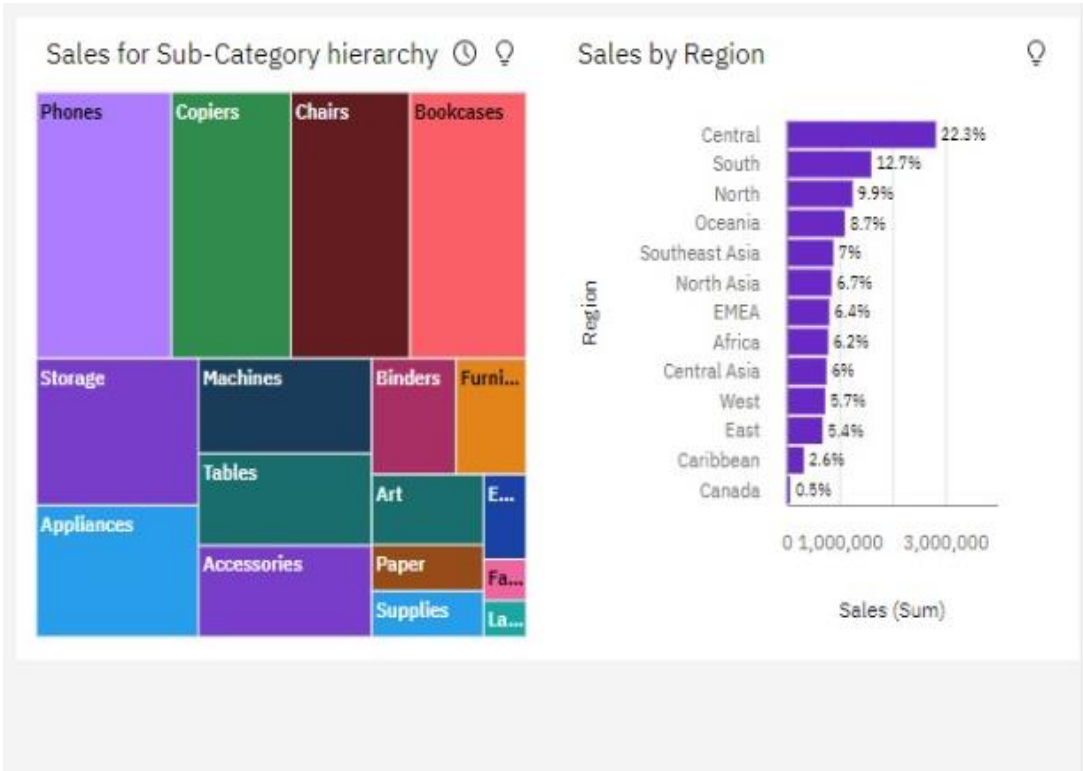
Sales By Market



Sales by order priority



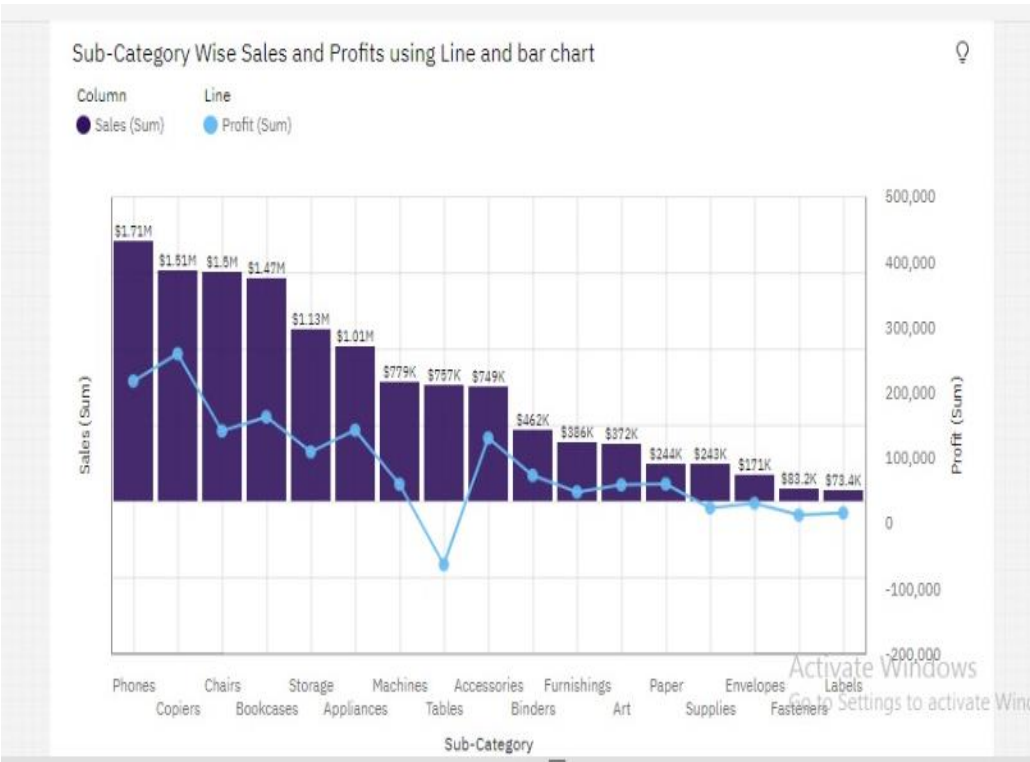
Sales By Sub Category And Sales By Region



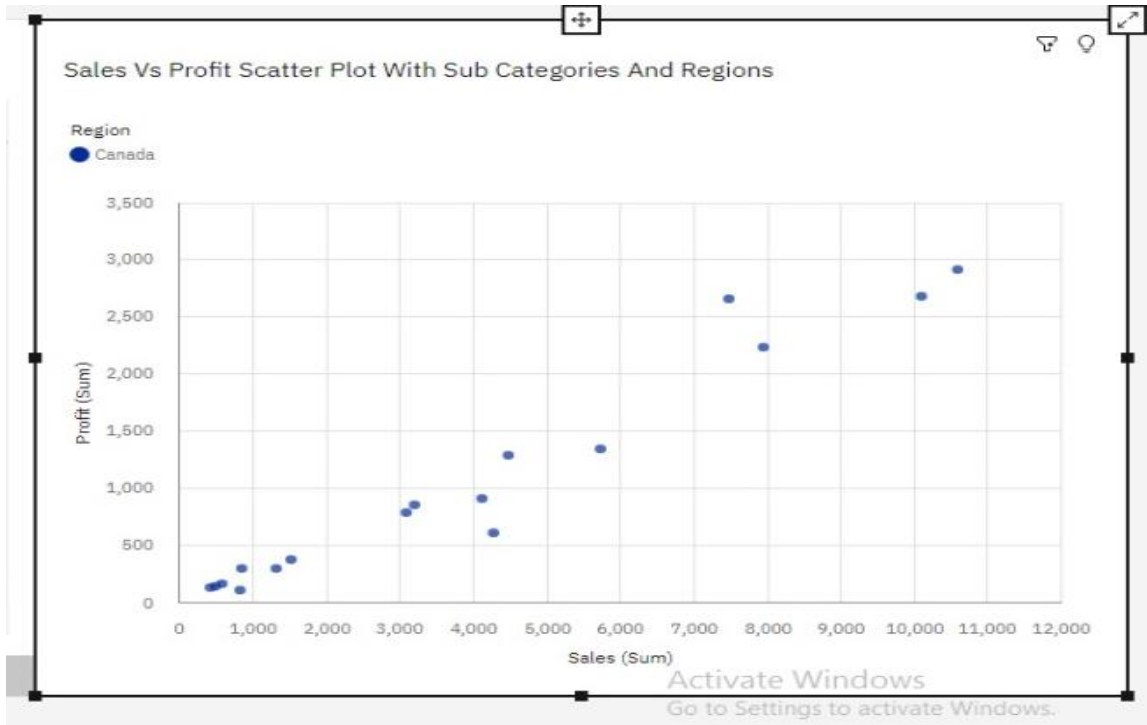
Country-Wise Sales Using Map Points



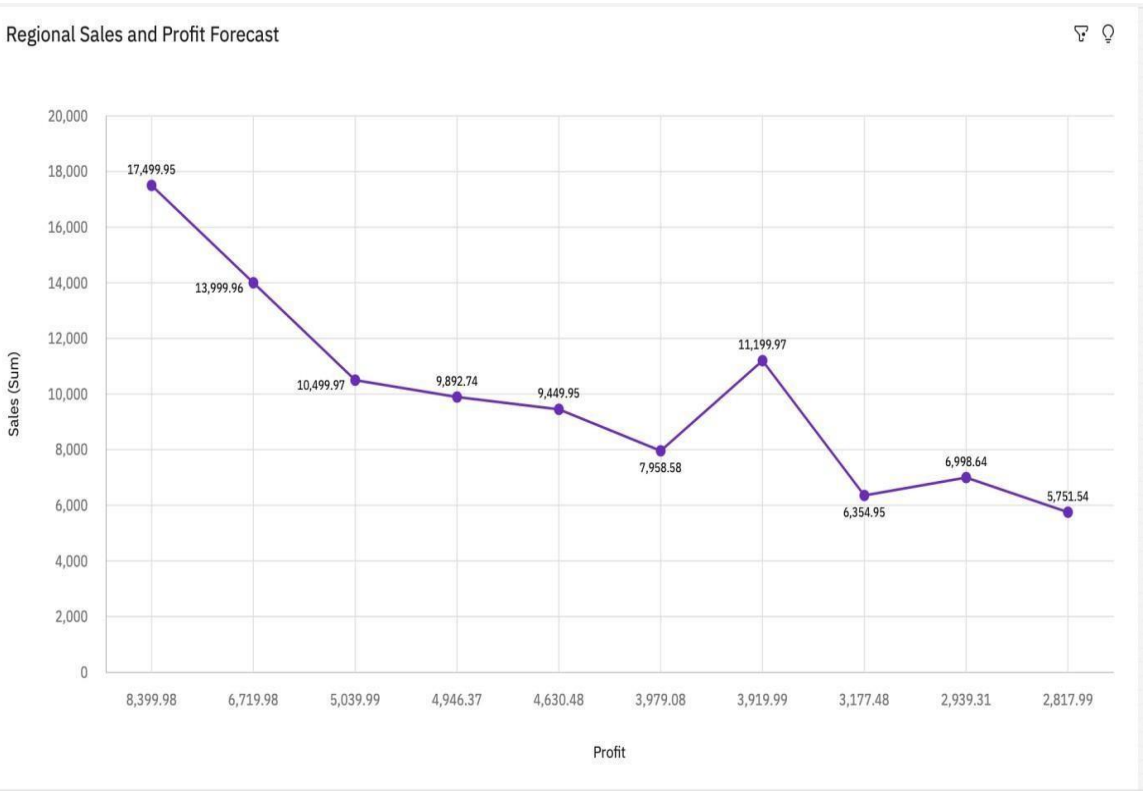
Sub Category Wise Sales And Profits Using Line And Bar Chart



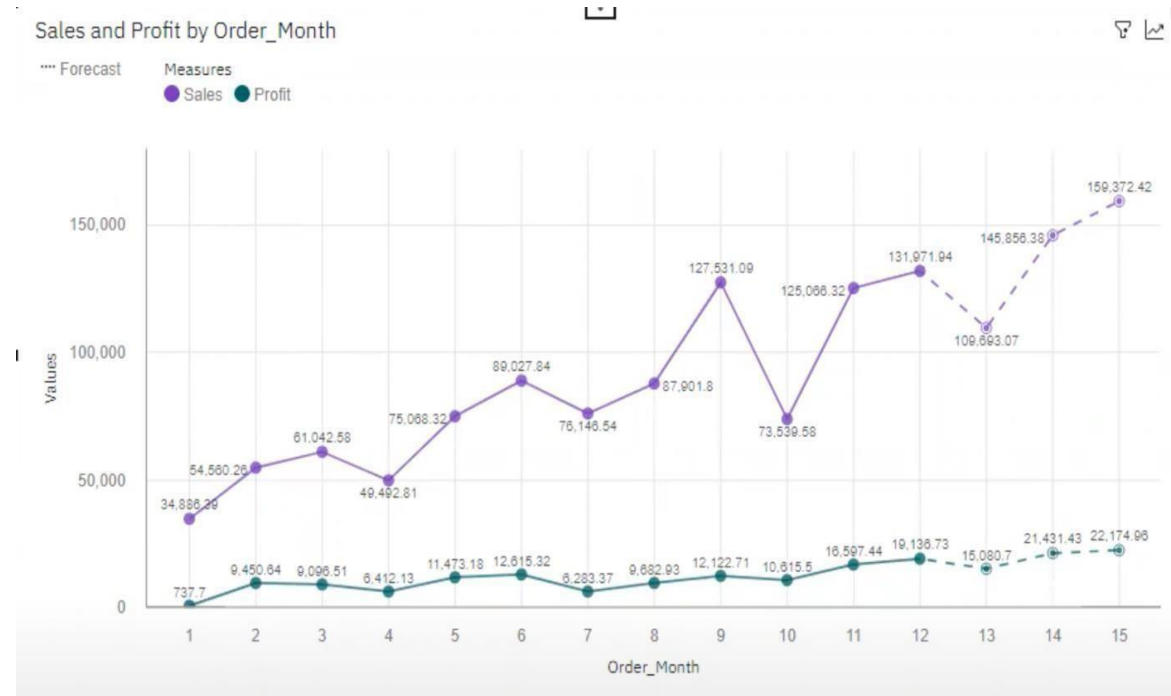
Sales Vs Profit Scatter Plot With Sub Categories And Regions



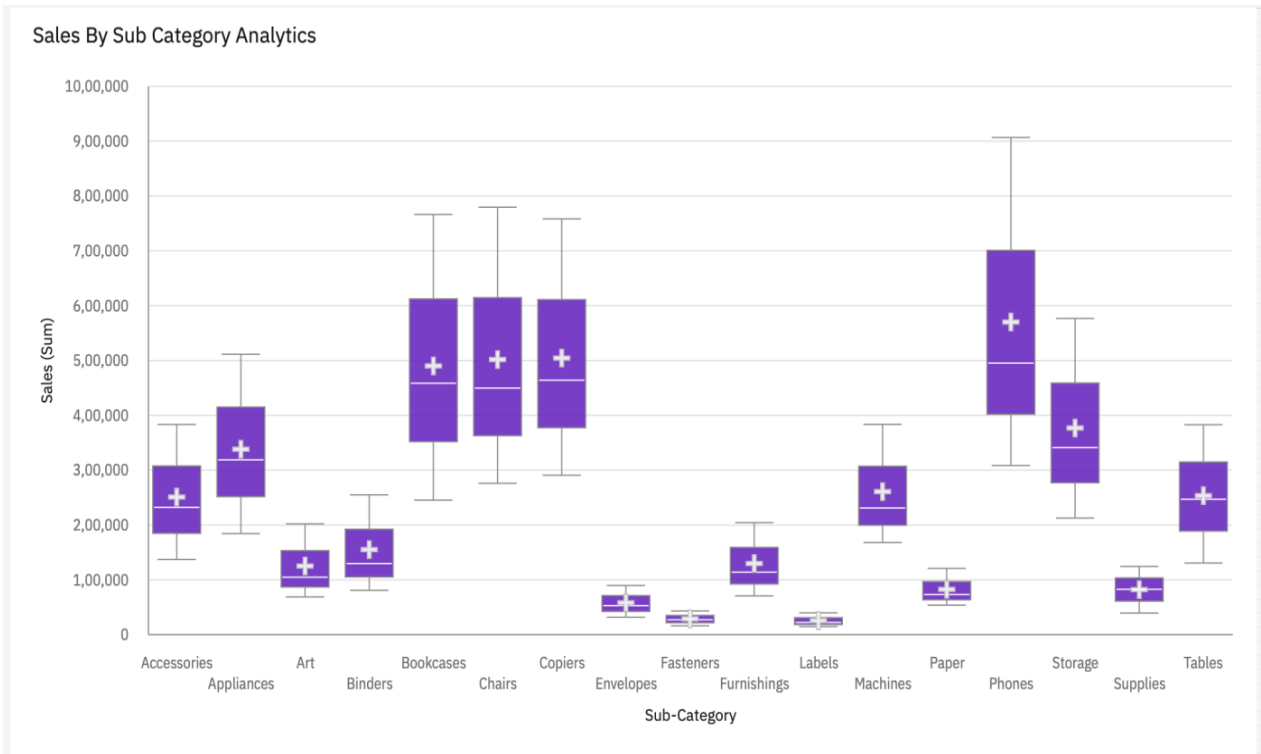
Regional Sales And Profit Forecast



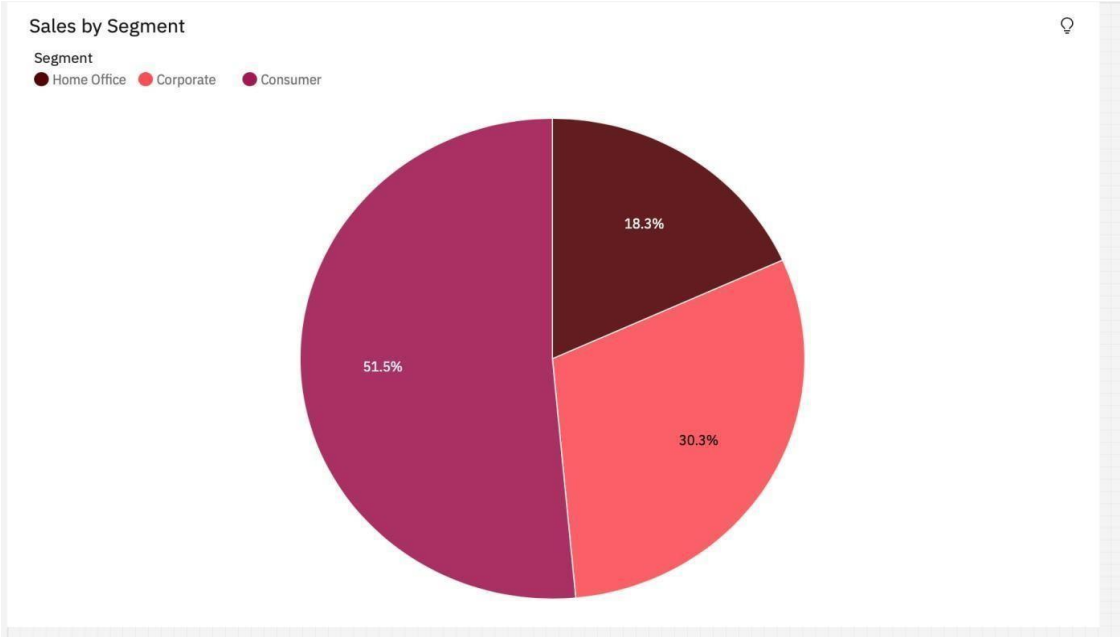
Sales Forecast By Order Priority



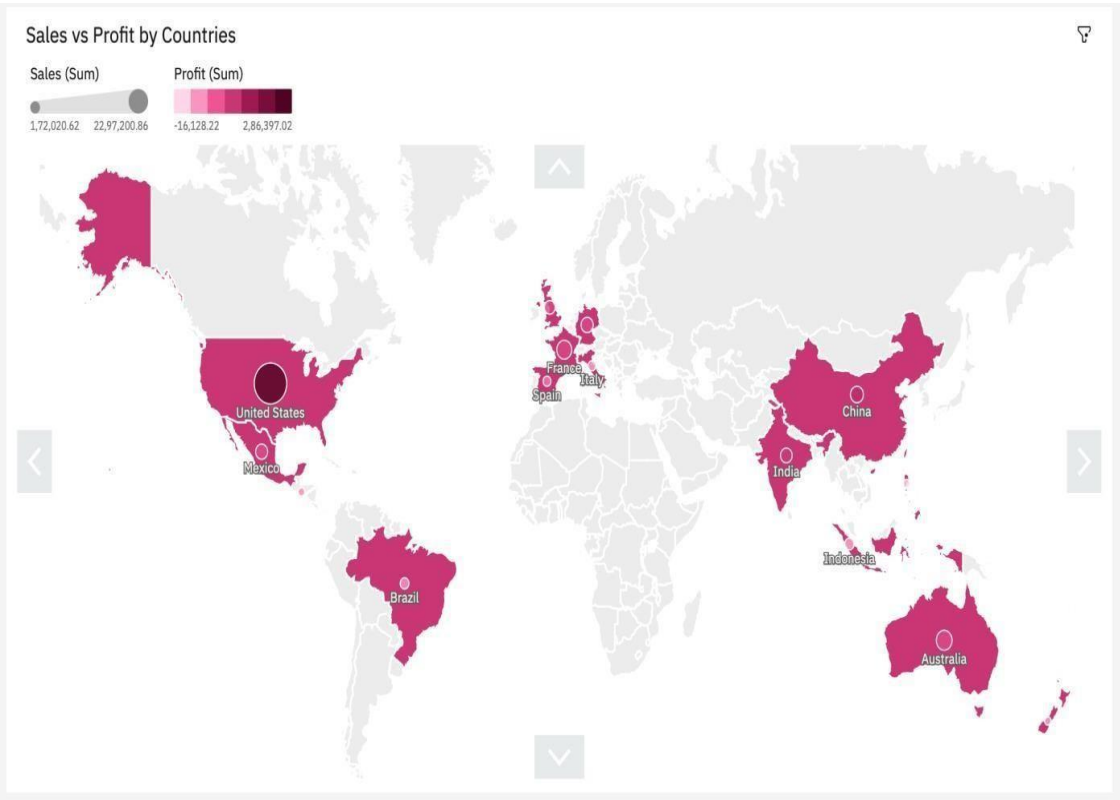
Sales By Sub-Category Analytics



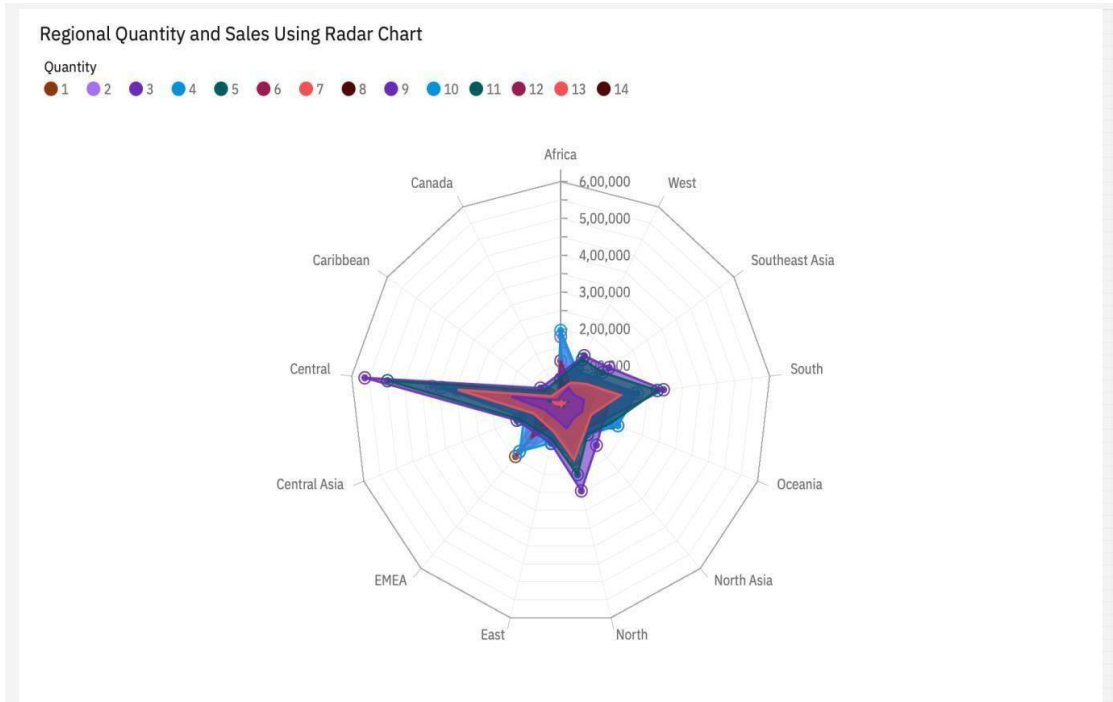
Sales By Segment Analysis



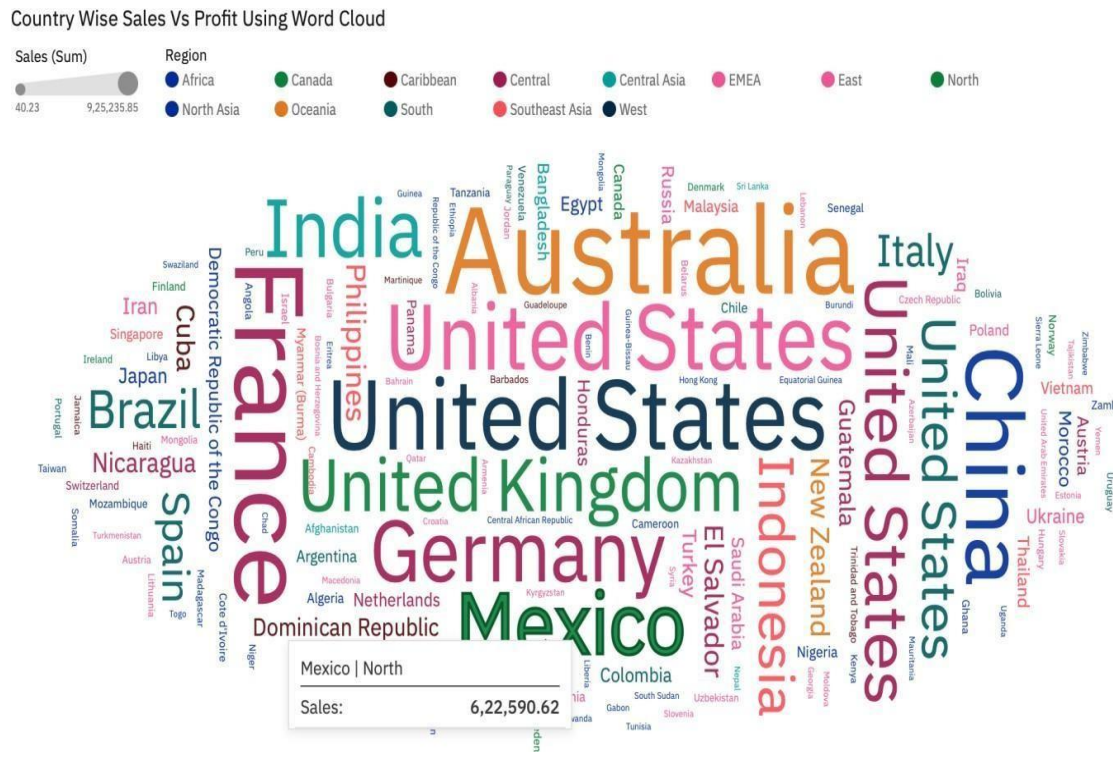
Sales Vs Profit By Countries



Regional Quantity And Sales Using Radar Chart



Country Wise Sales Vs Profit Using Word Cloud



Sales Dashboard

