Project Development Phase
Sprint - II
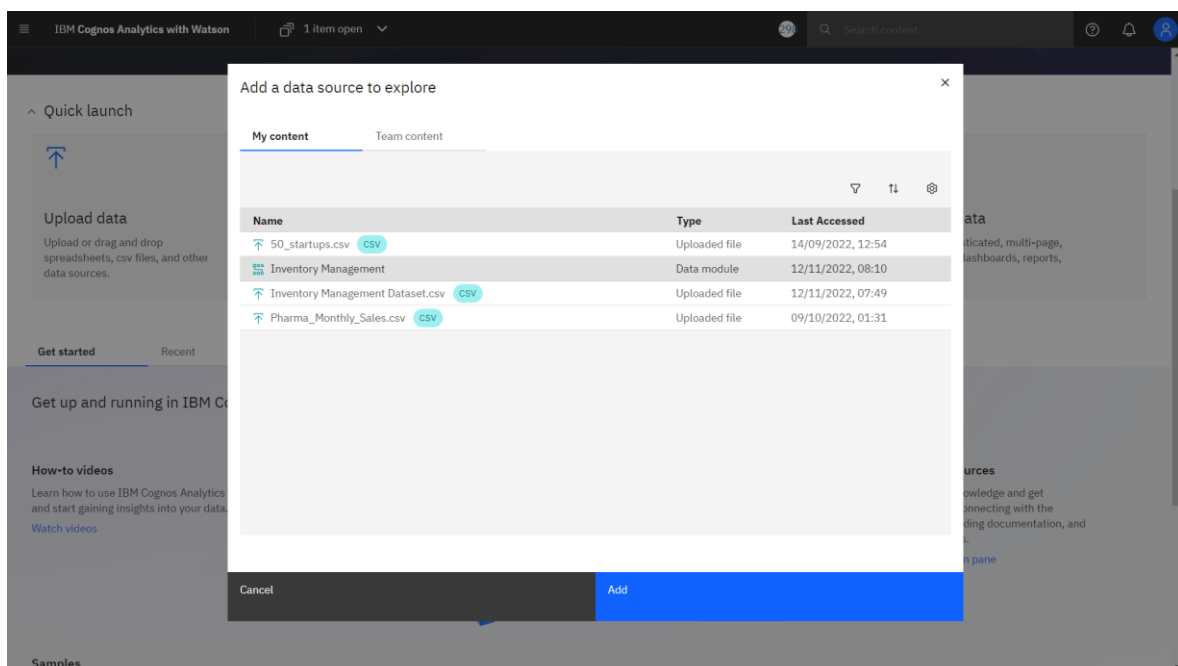
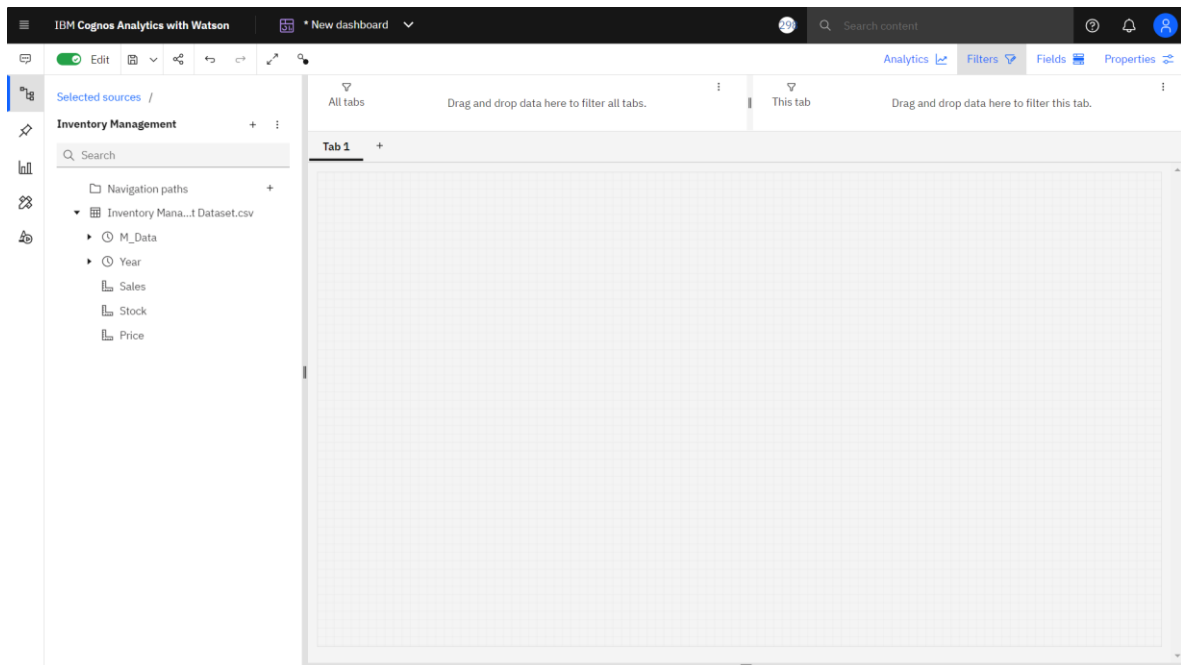| Team ID	PNT2022TMID21488
Project Name	Retail Store Stock Inventory Analytics

Data Exploration:

Data exploration is the first step of data analysis used to explore and visualize data to uncover insights from the start or identify areas or patterns to dig into more.
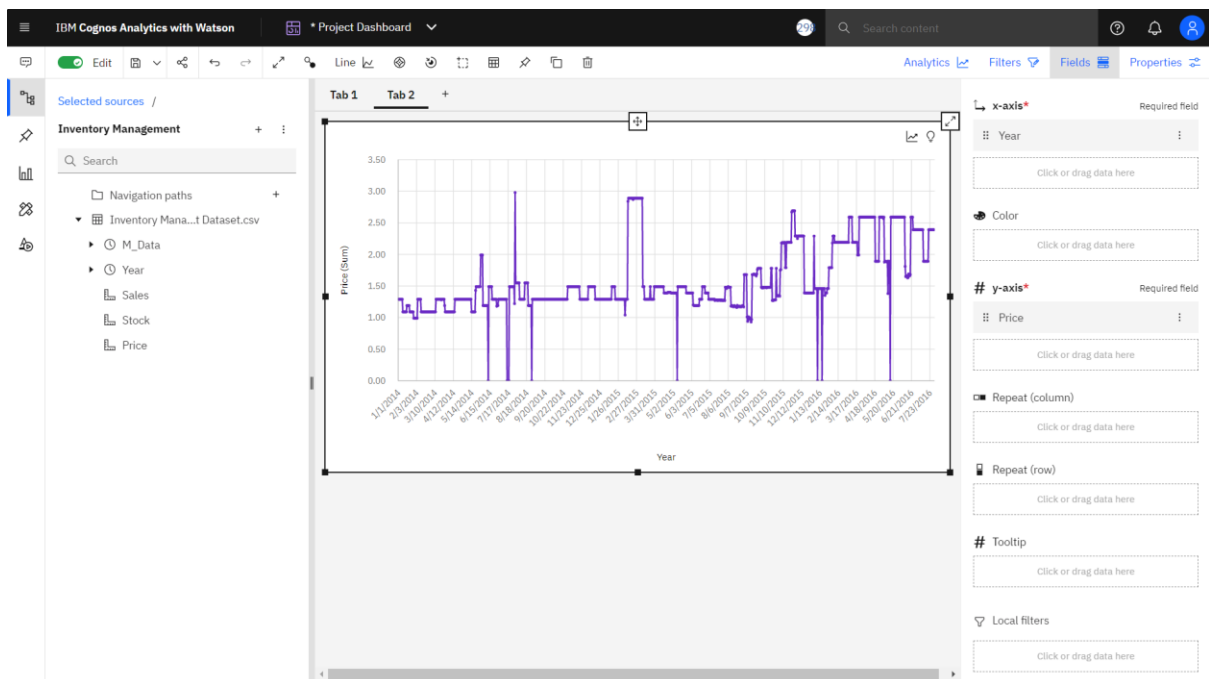
Selecting a Data Source:

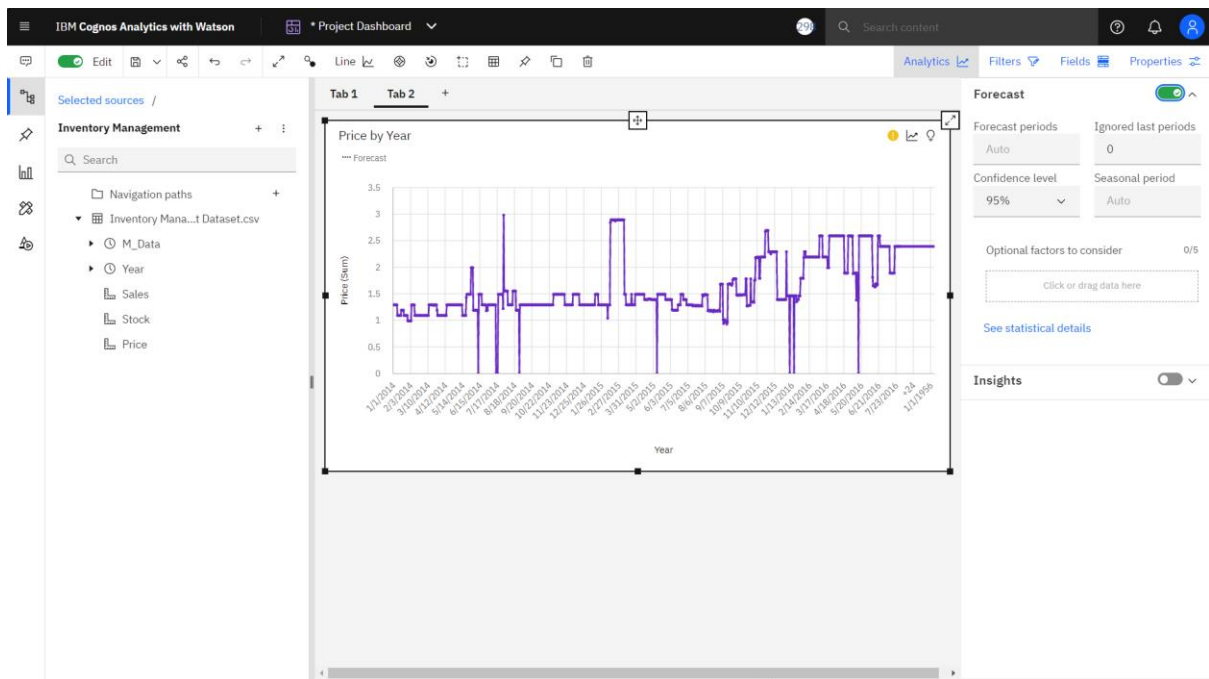Select the prepared dataset for exploration and data visualization.
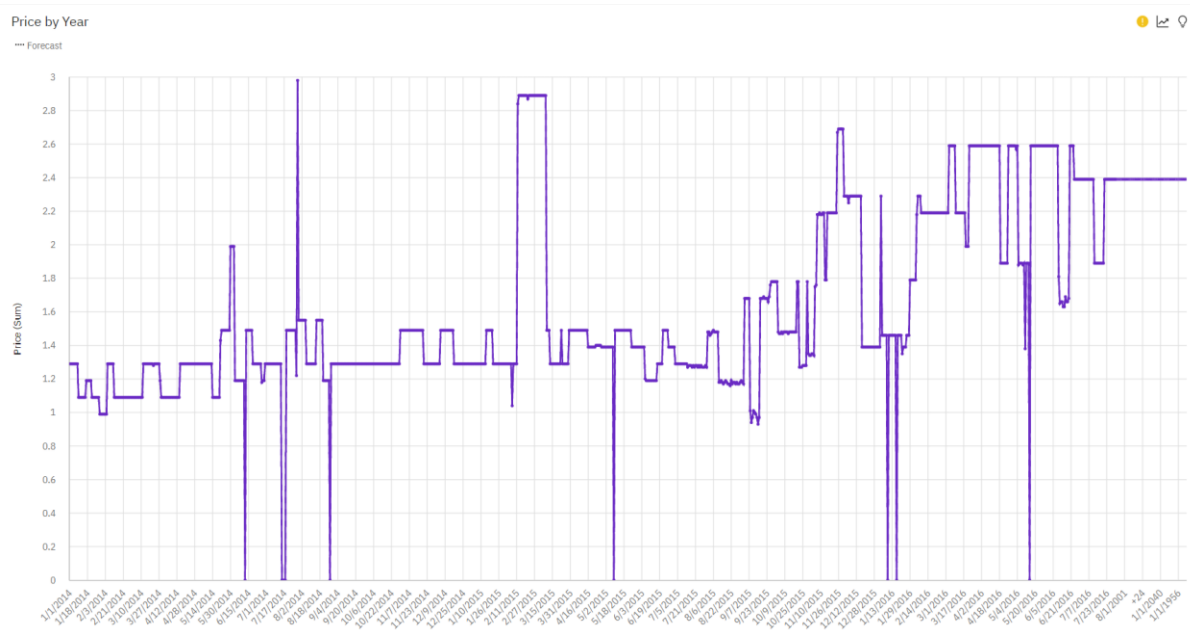
Visualization Graphs and Charts:
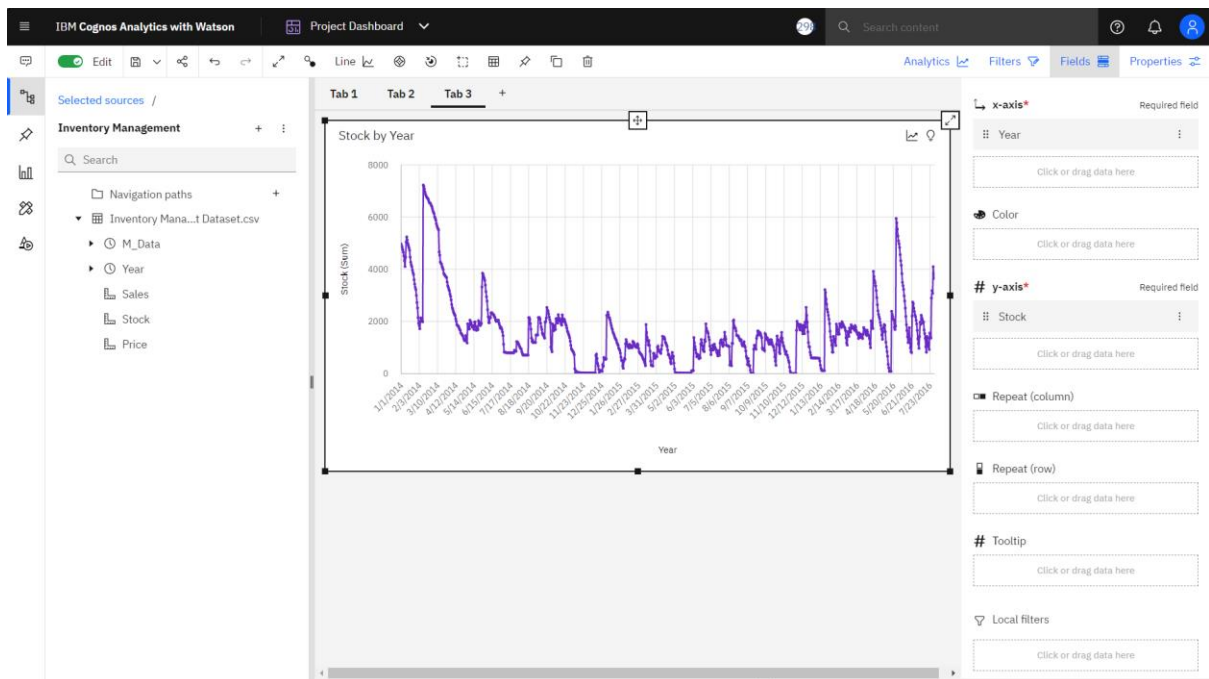
1) Year Wise Price using Line Graph

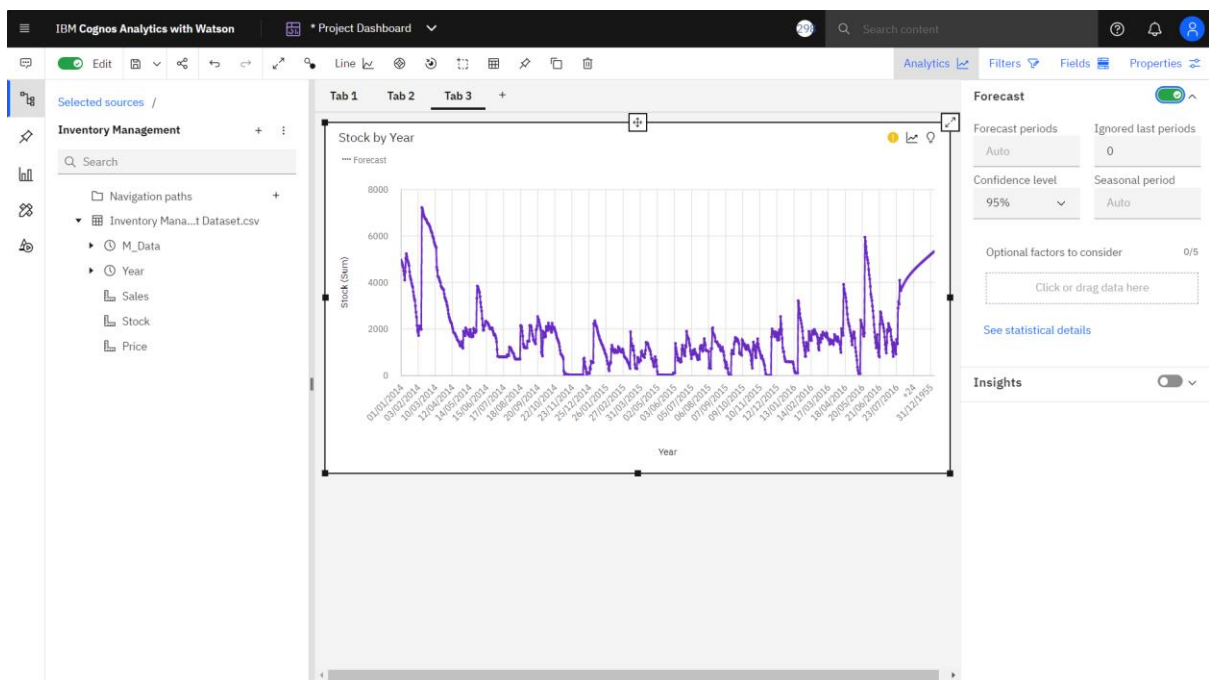After forecasting, we get the following result:

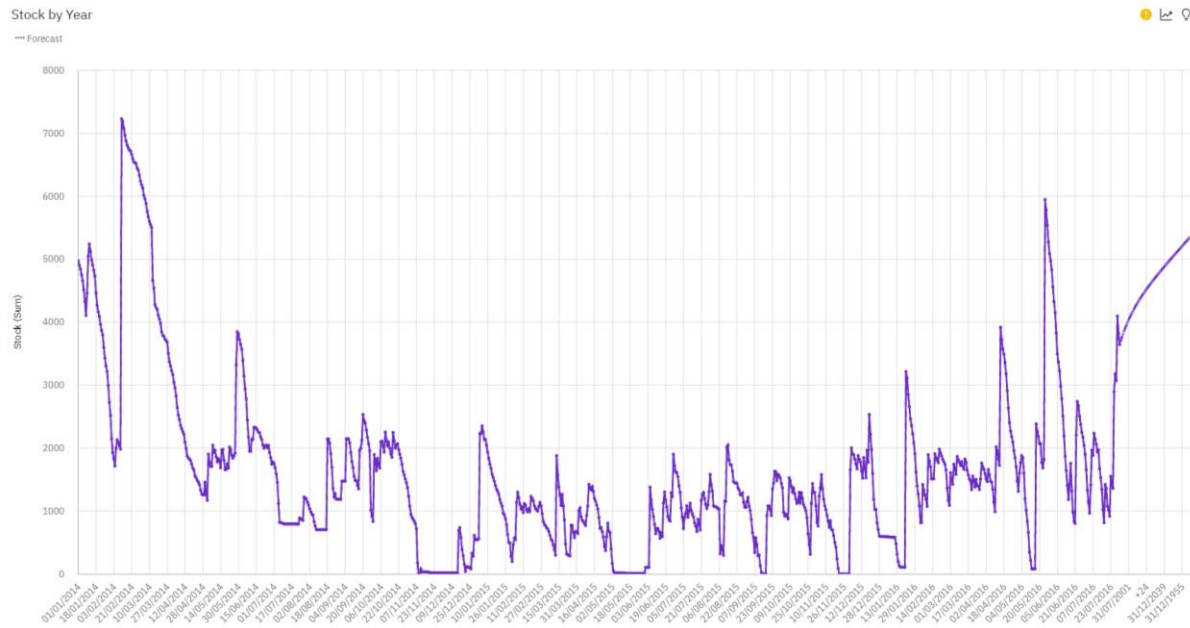The final output is as follows:
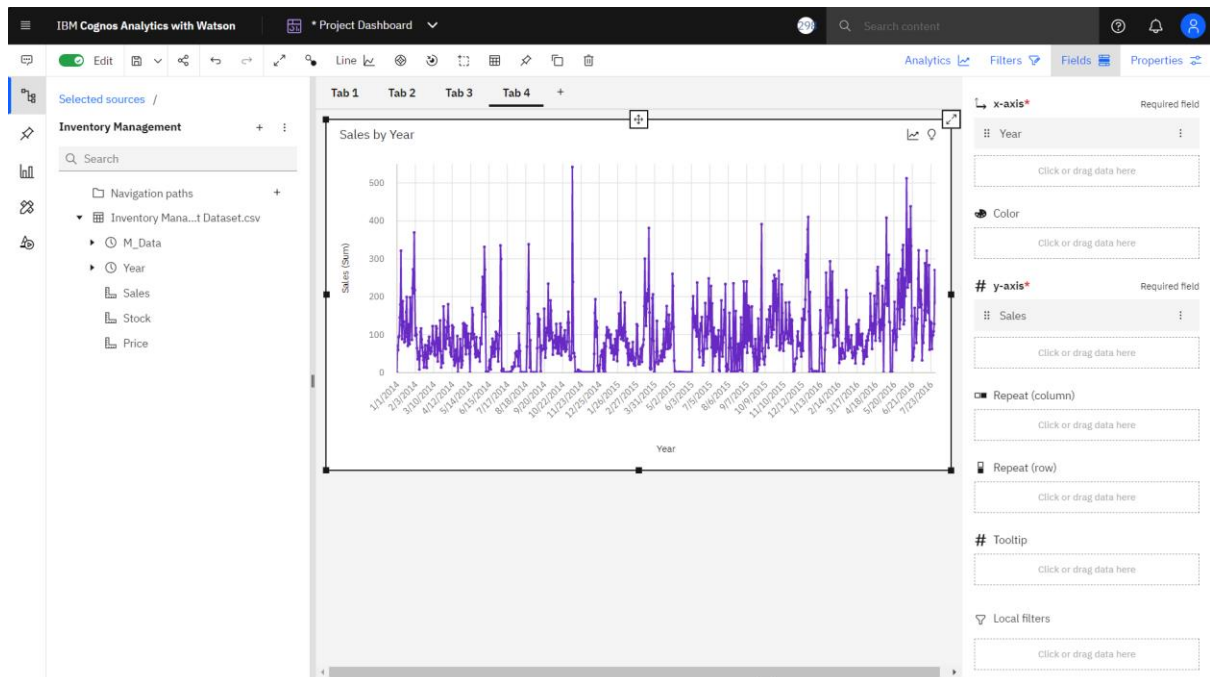
2) Year Wise Stock using Line Graph
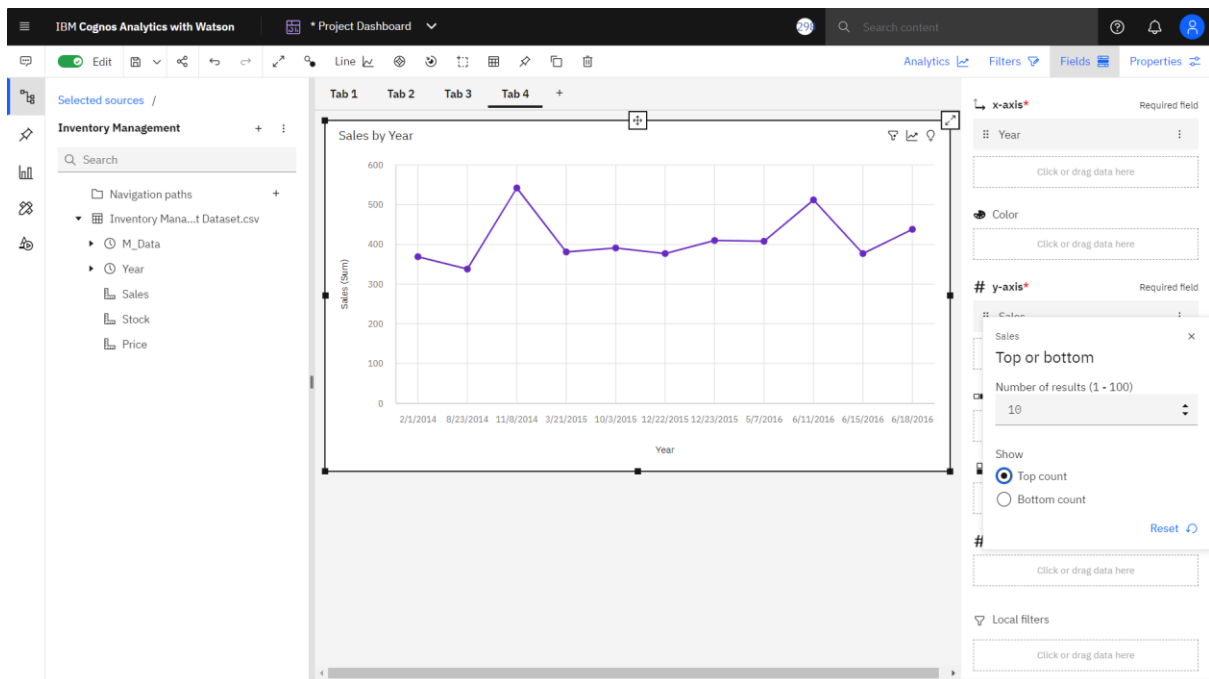

After forecasting, we get the following result:

The final output is as follows:

3) Top 10 Sales by Year using Line Graph

After applying a Top count of 10, we get the following result:

After forecasting, we get the following result:
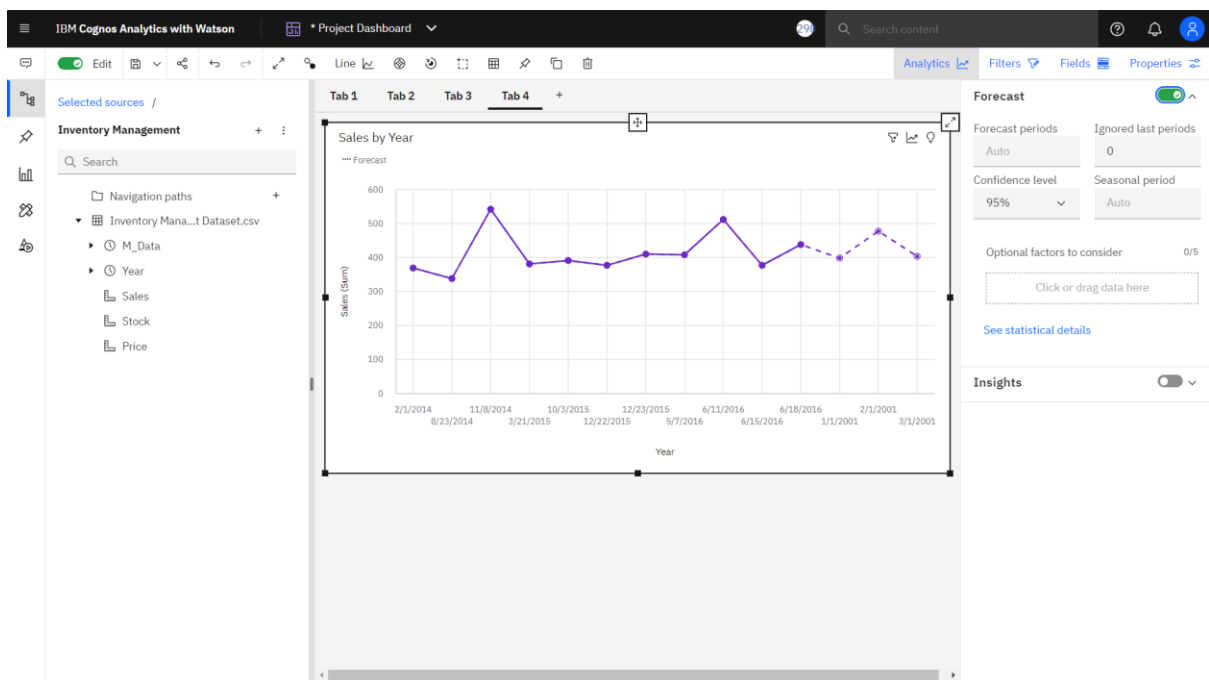
The final output is as follows:

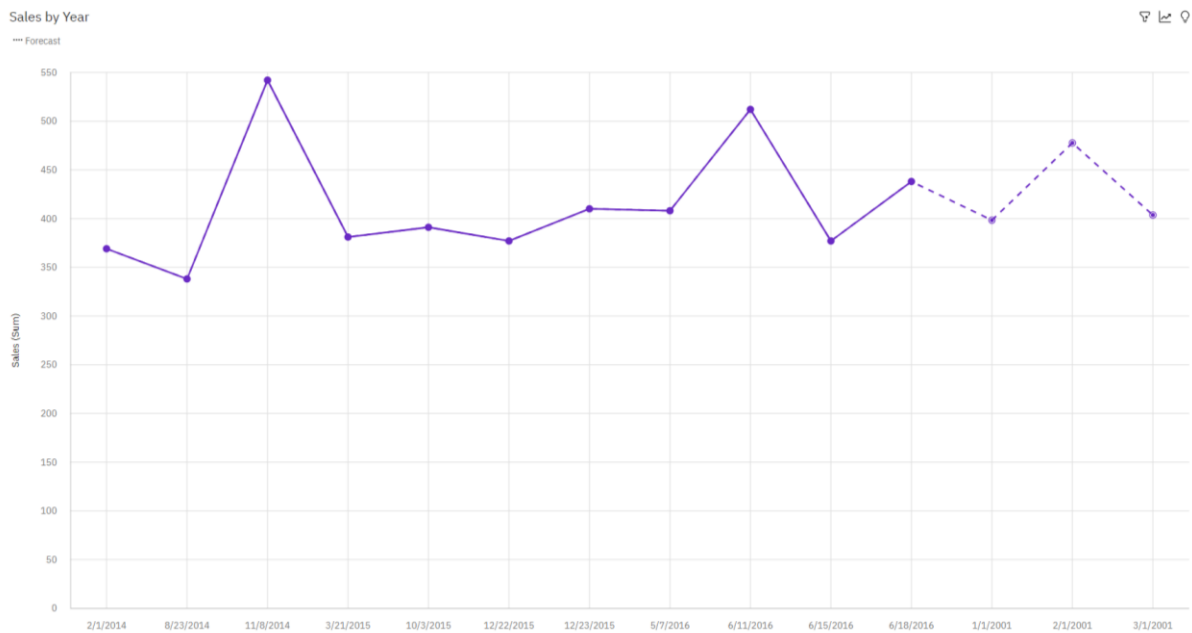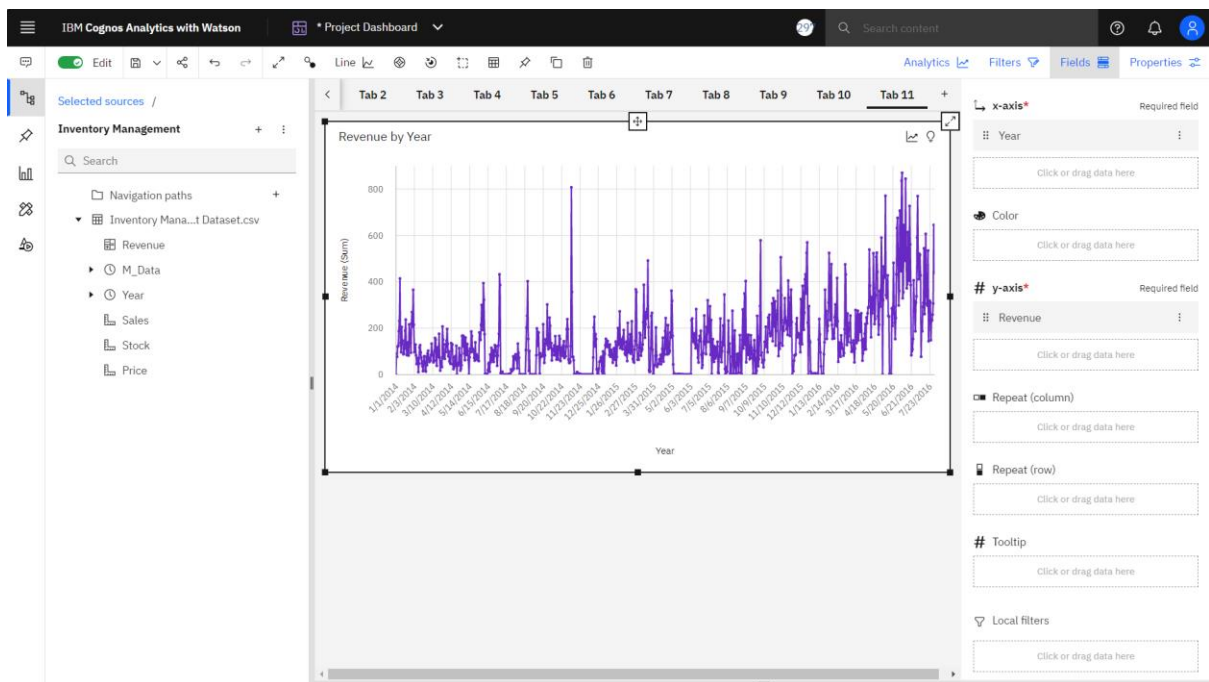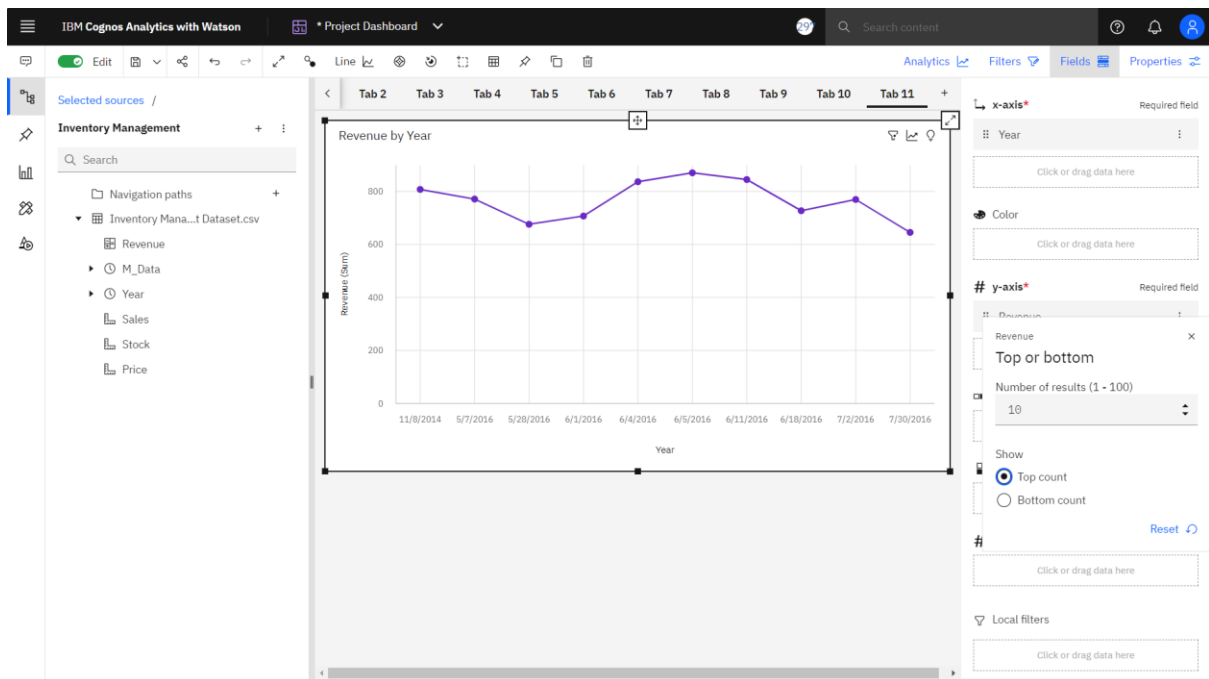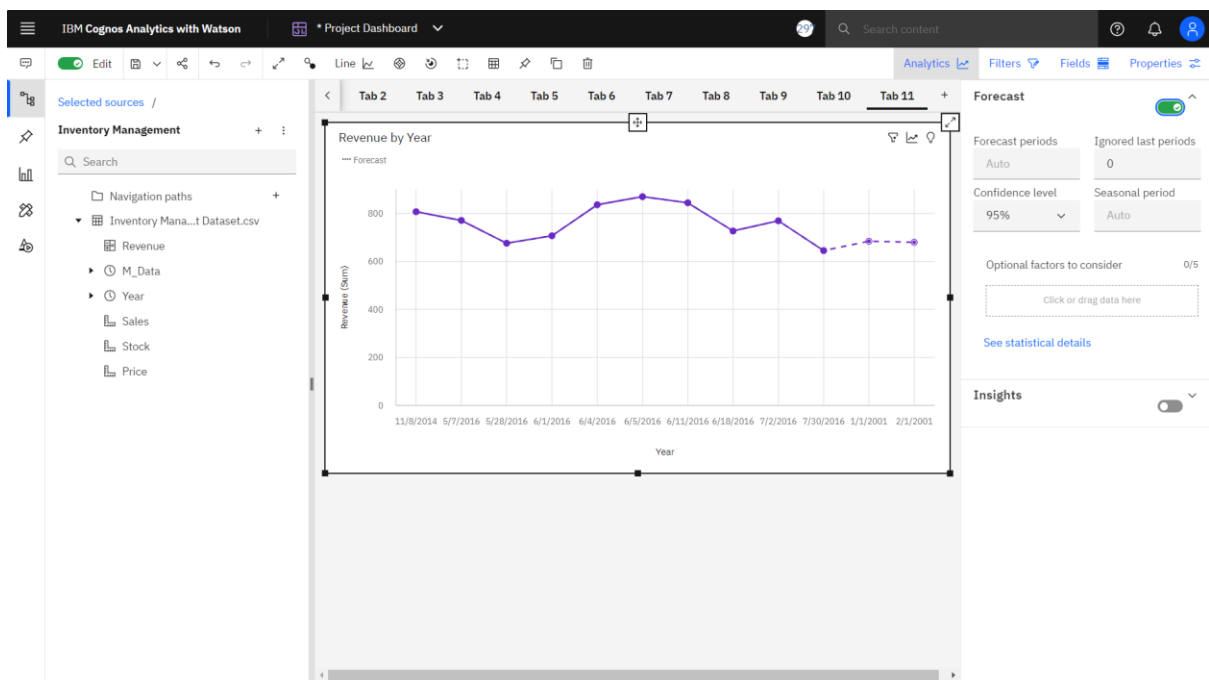## 4) Top 10 Revenue by Year using Line Graph

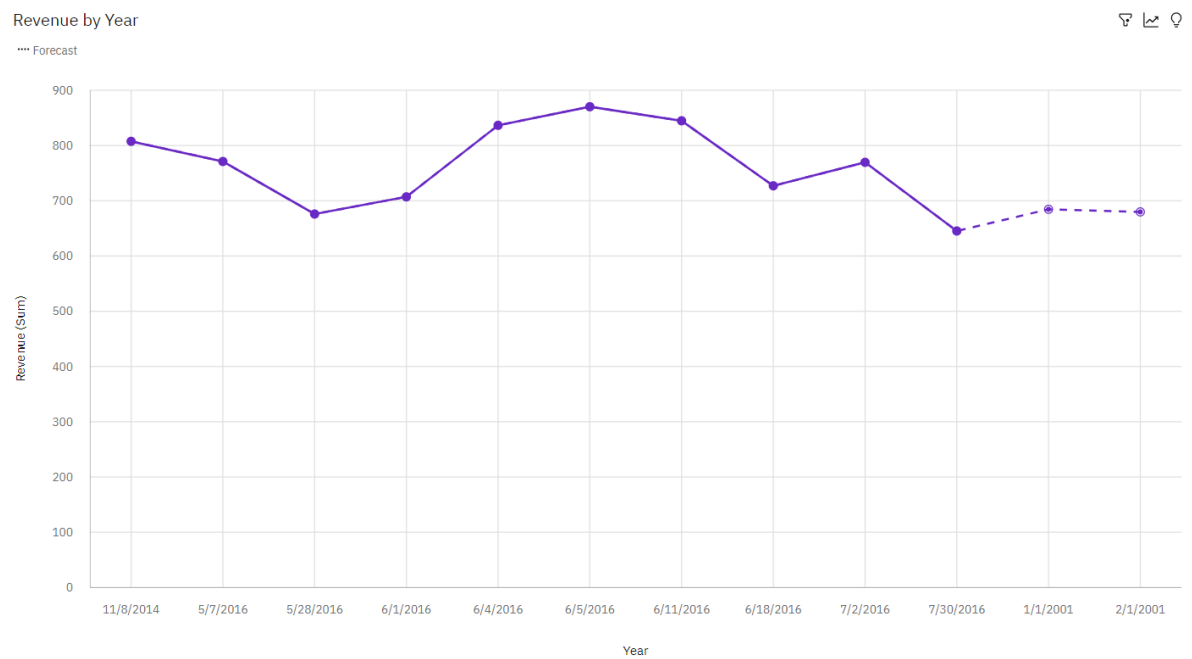After applying a Top count of 10, we get the following result:

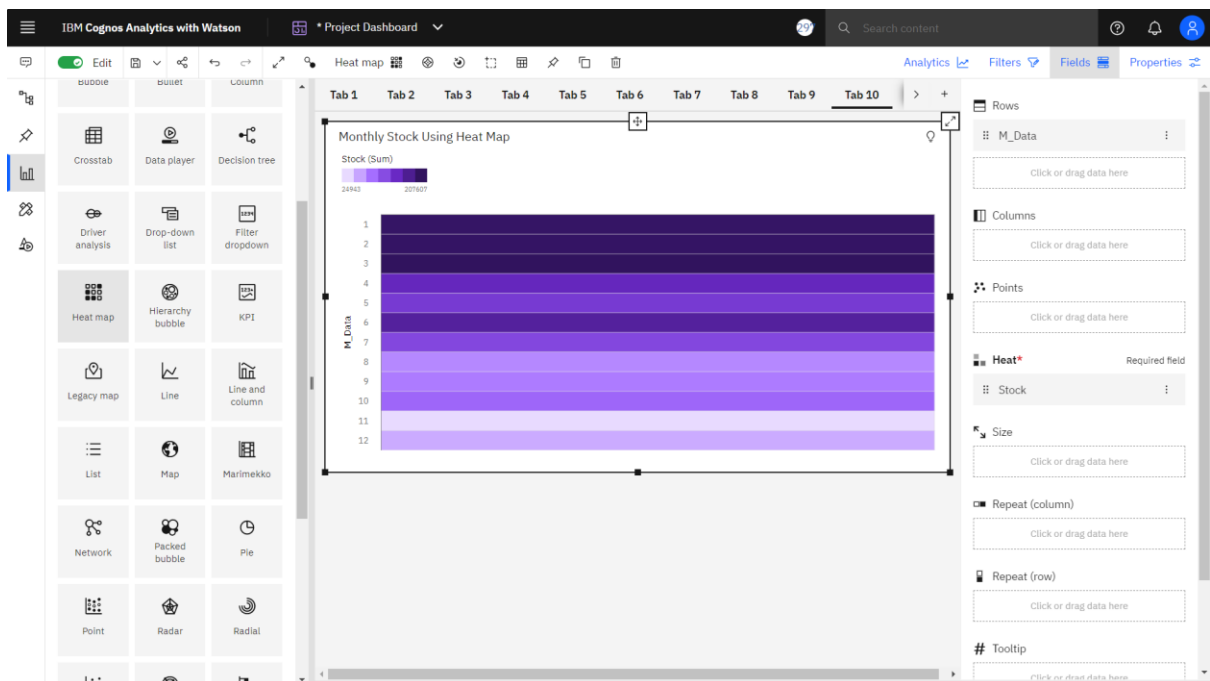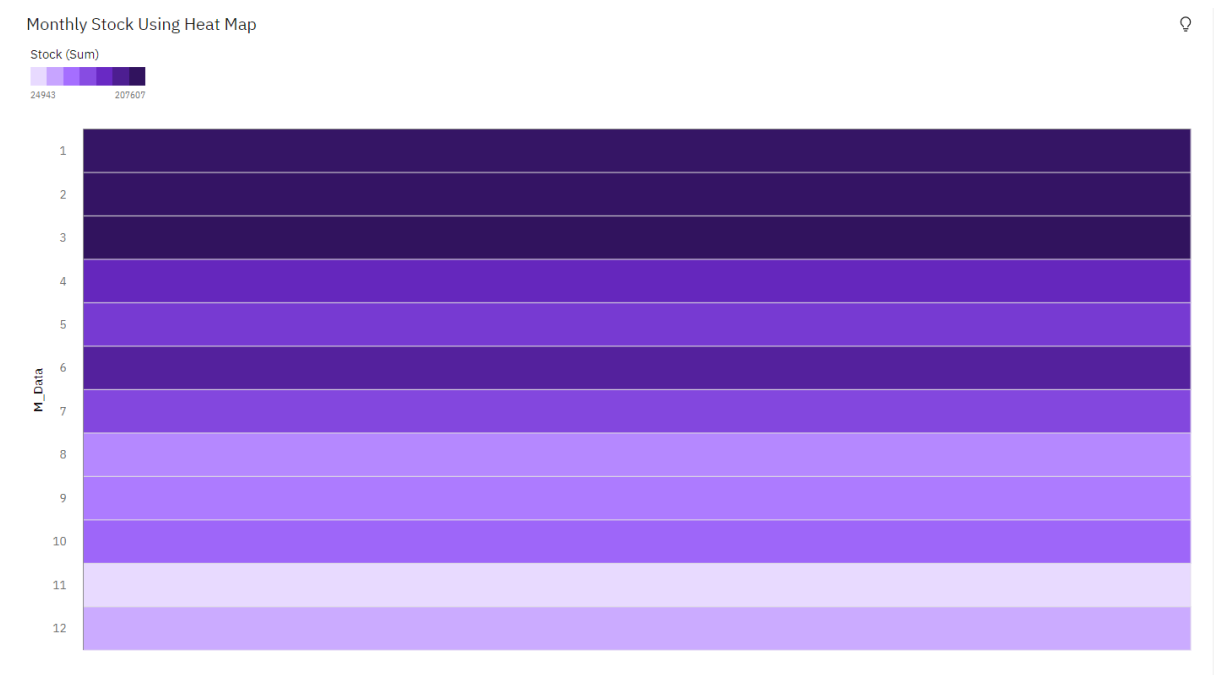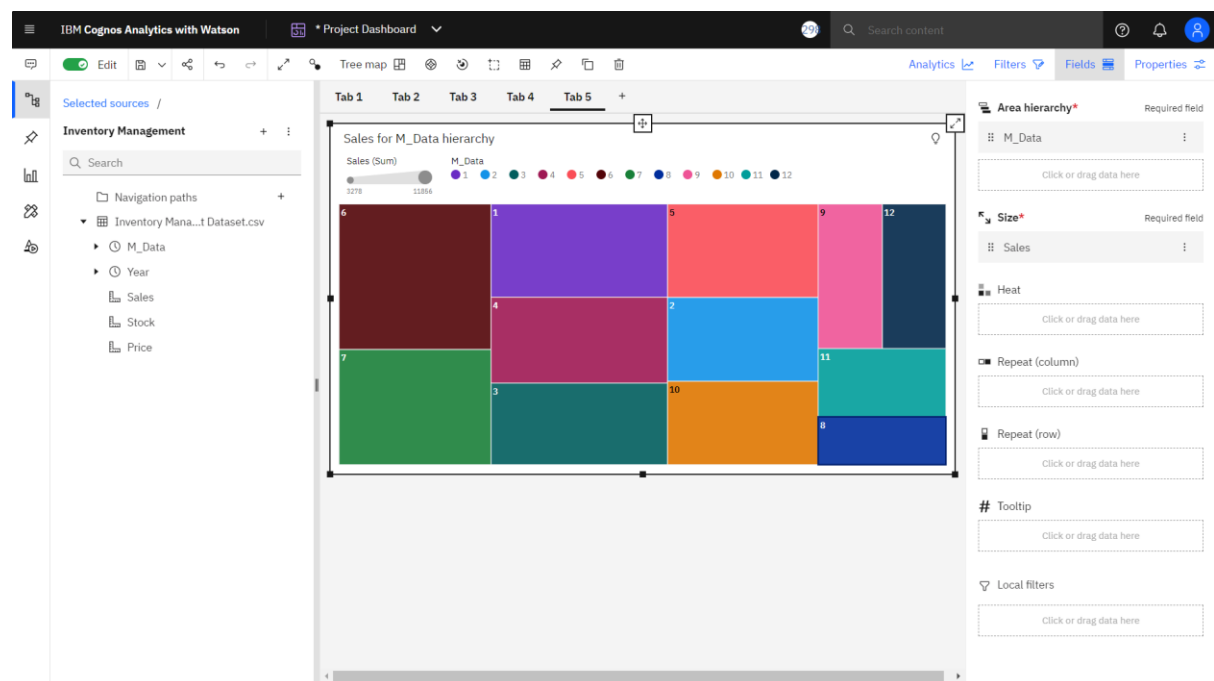After forecasting, we get the following result:

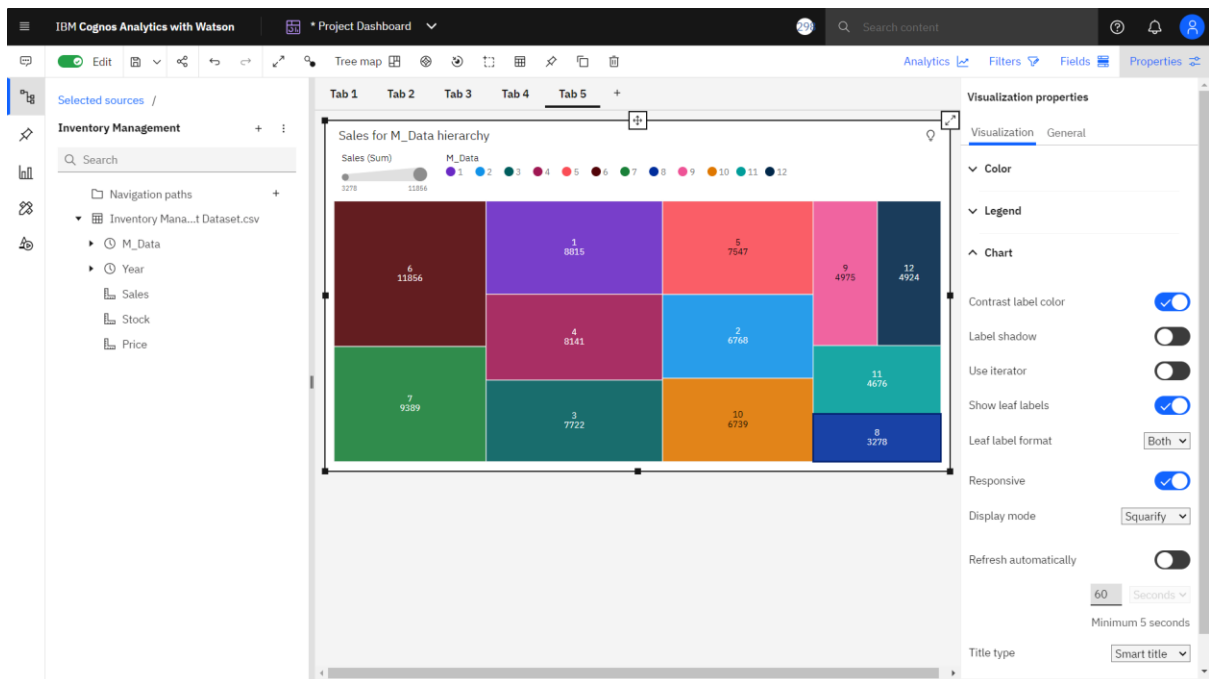The final output is as follows:

5) Monthly Stock using Heat Map

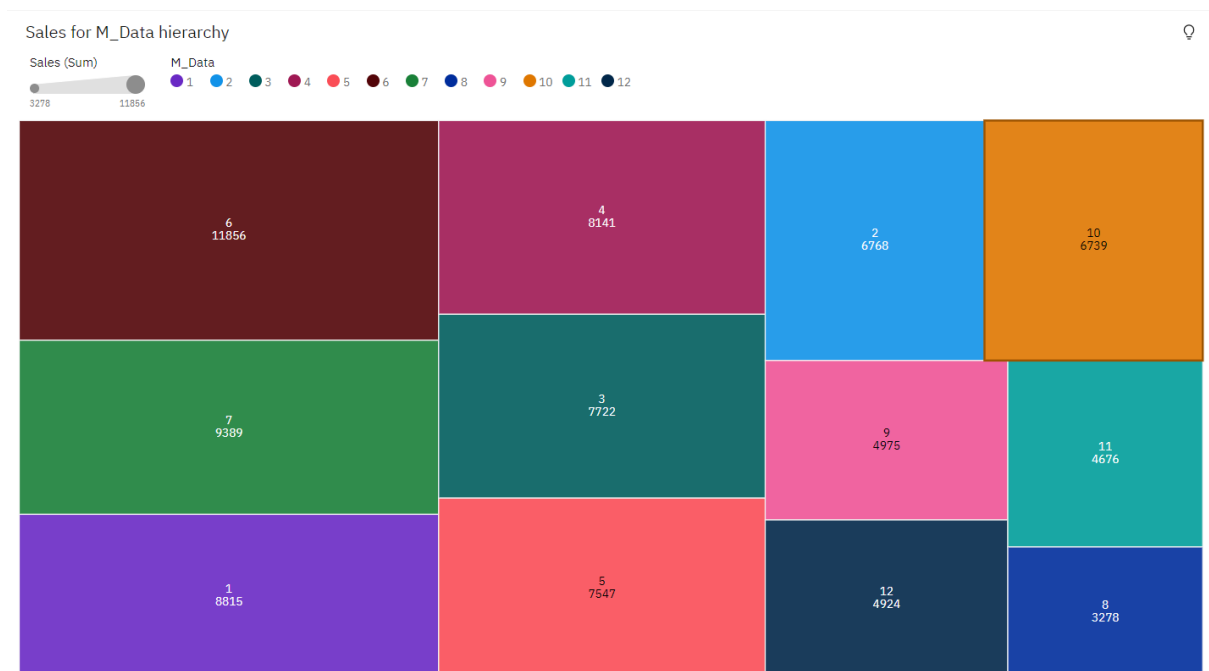The final output is as follows:

Monthly Stock Using Heat Map
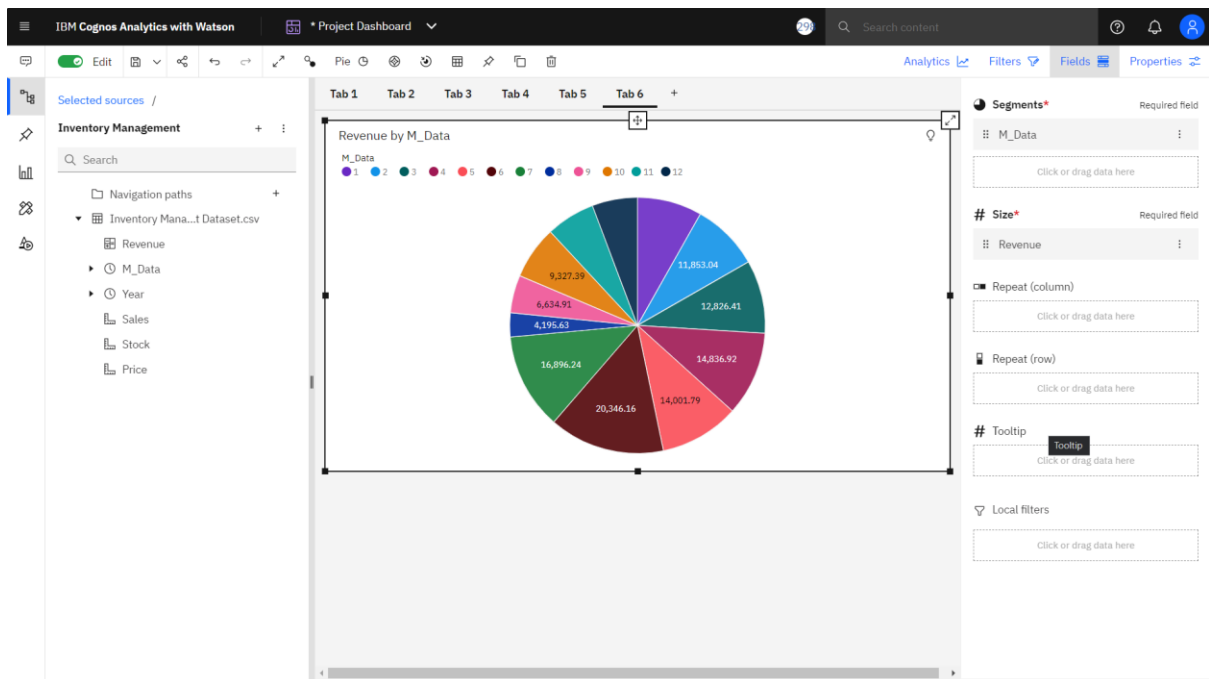
6) Monthly Sales using Tree Map

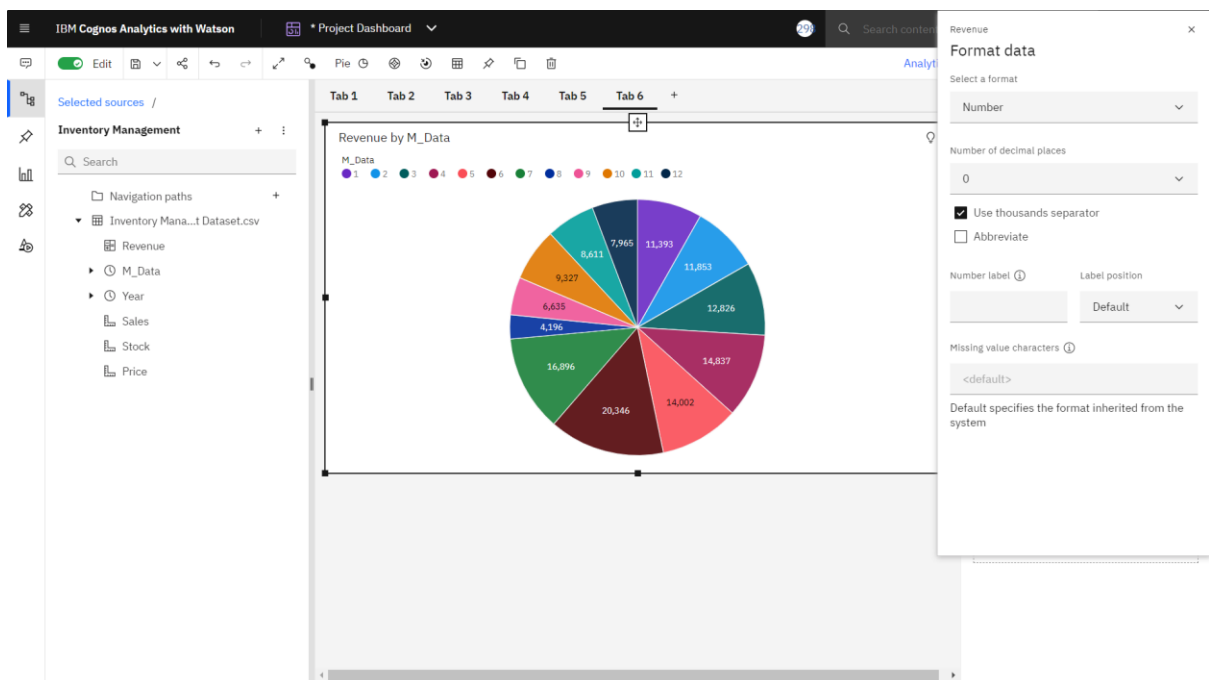After applying Show leaf labels option, we get the following result:

The final output is as follows:

7) Monthly Revenue using Pie Chart

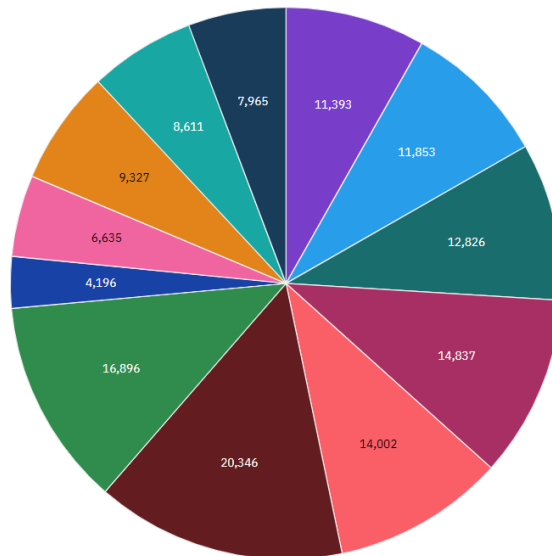Formatting the attribute Revenue, we get the following result:
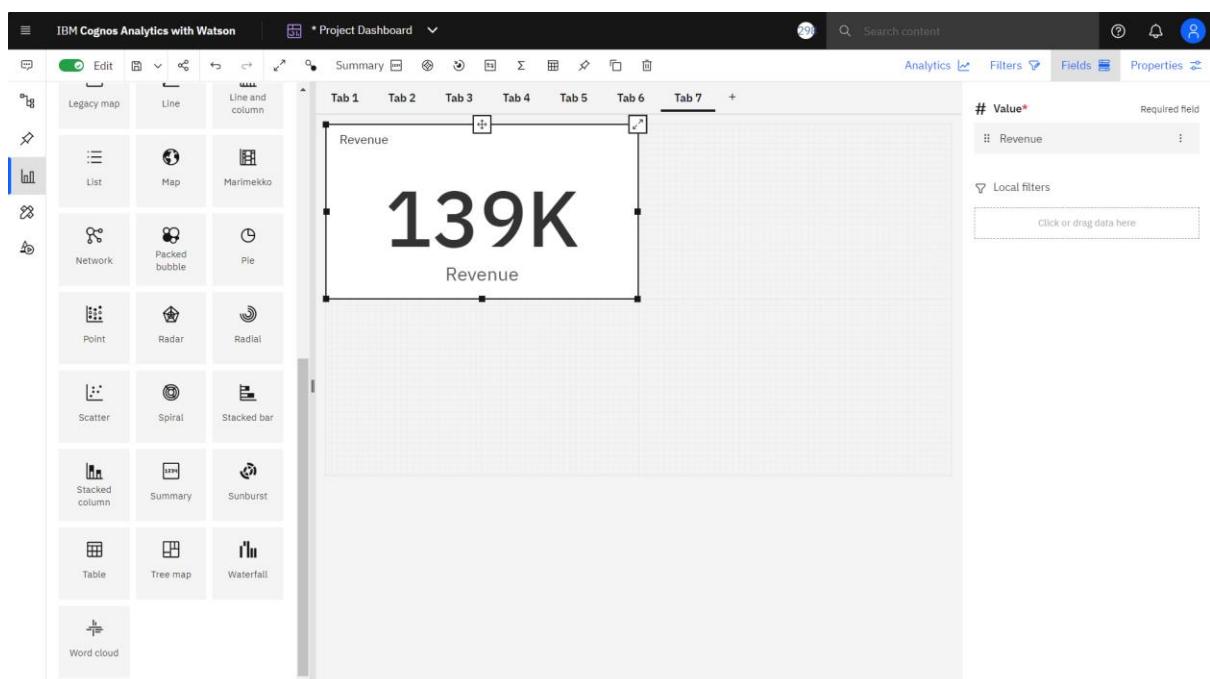
The final output is as follows:
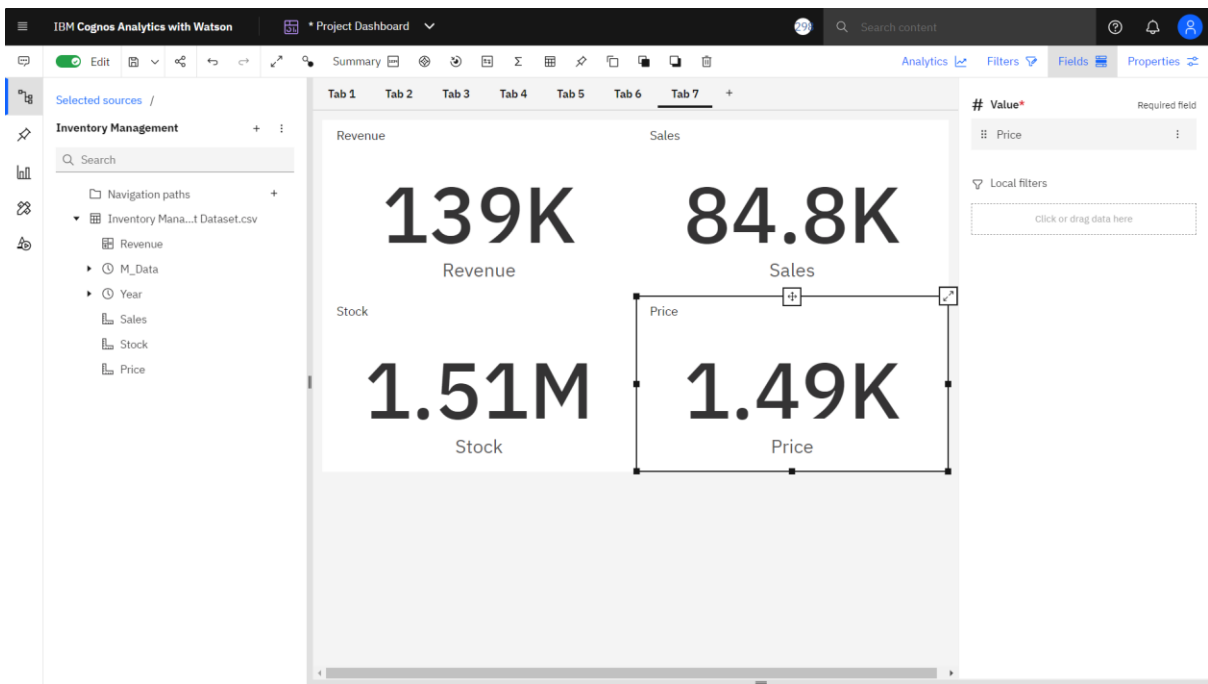

Revenue by M_Data

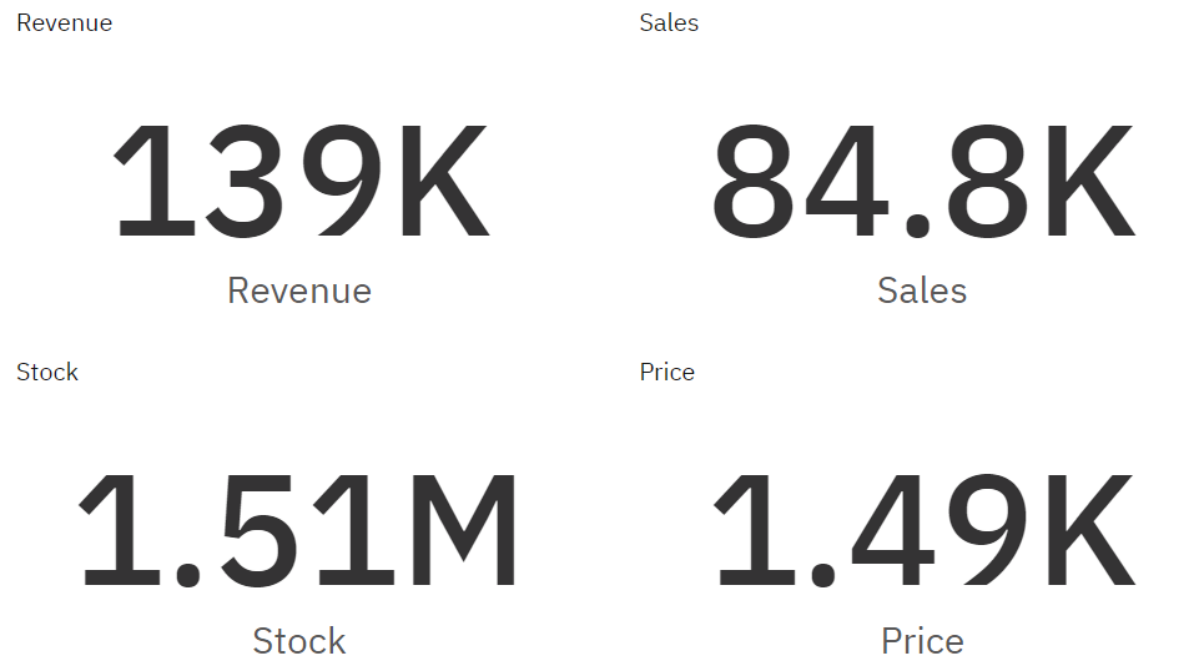## 8) Summary Cards of Total Revenue, Total Sales, Total Stock, Total Price

In the Visualization tab, Summary is selected and the value is given as Revenue.

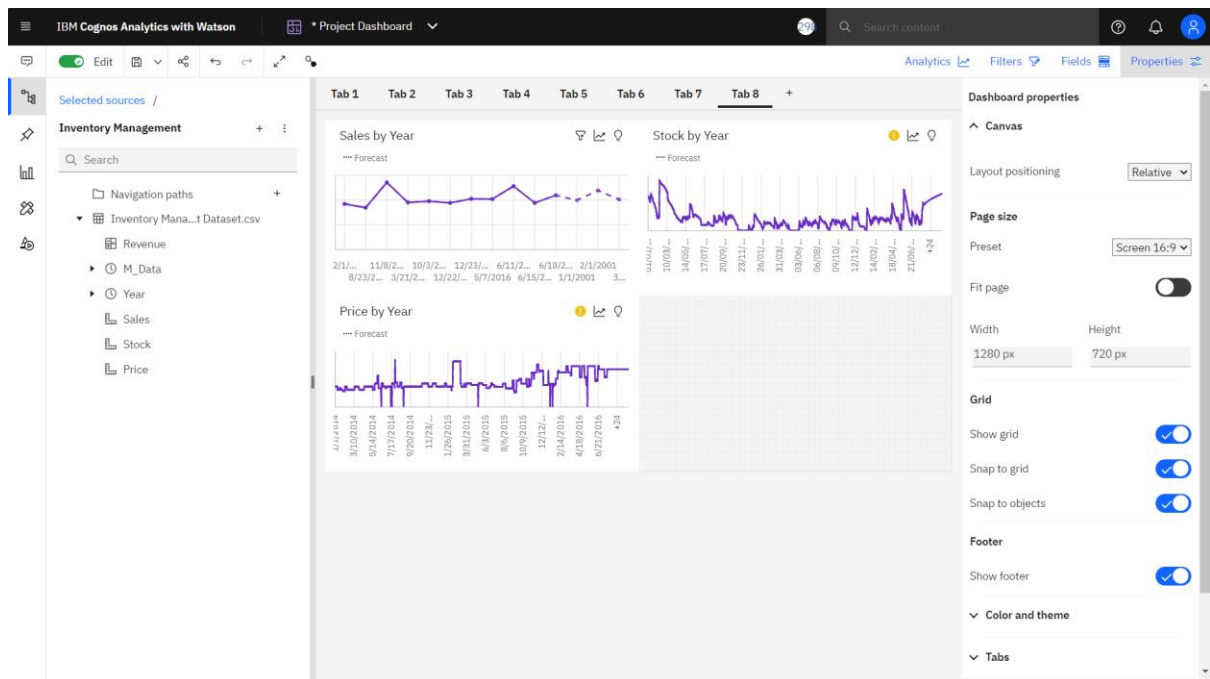Similarly, the Summary cards are displayed with Sales, Stock and Price as values.

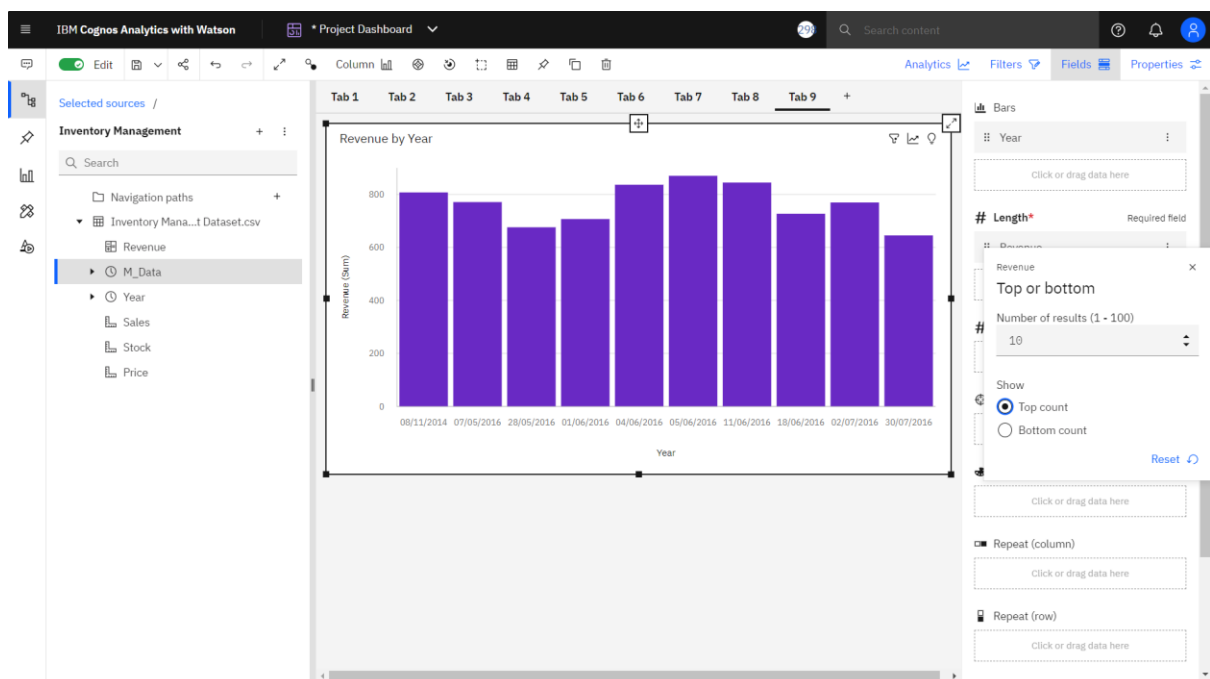The final output is as follows:

Revenue

139K

Revenue

Sales

84.8K

Sales

Stock

1.51M

Stock

Price

1.49K

Price

9) Dashboard Creation
- **Sales by Year Line Chart**
- **Stock by Year a Line Visual**
- **Price by Year Line Visual**
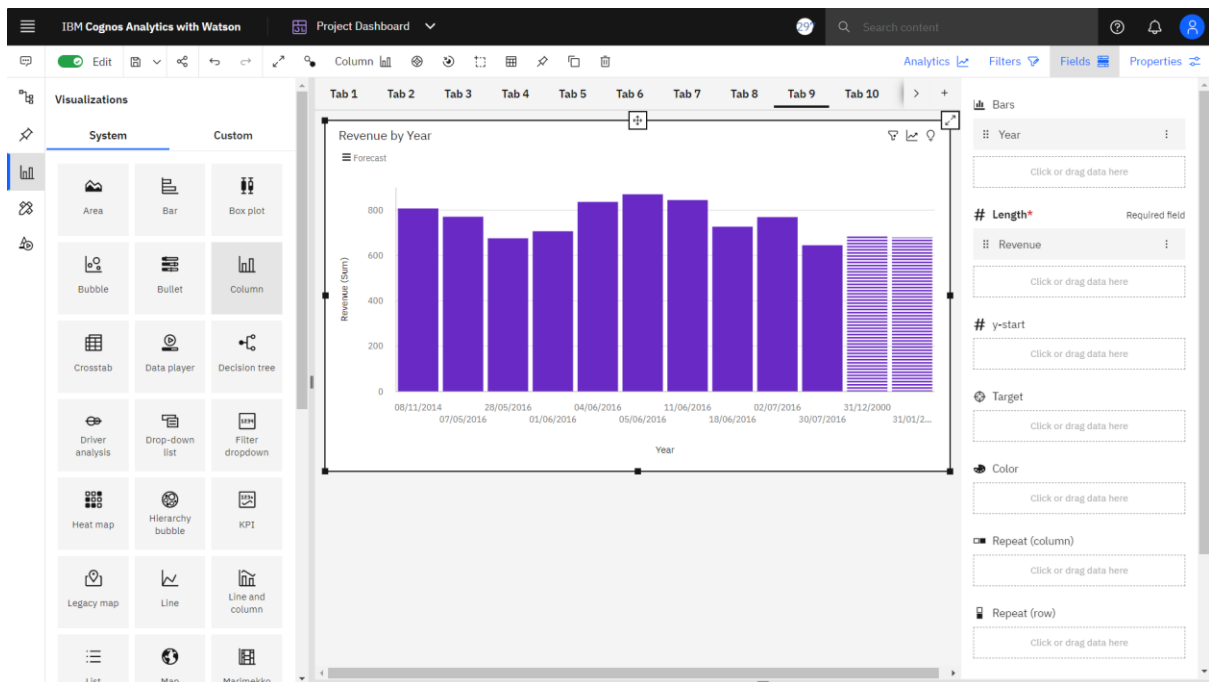- **Revenue by Year Column Forecast Visual**

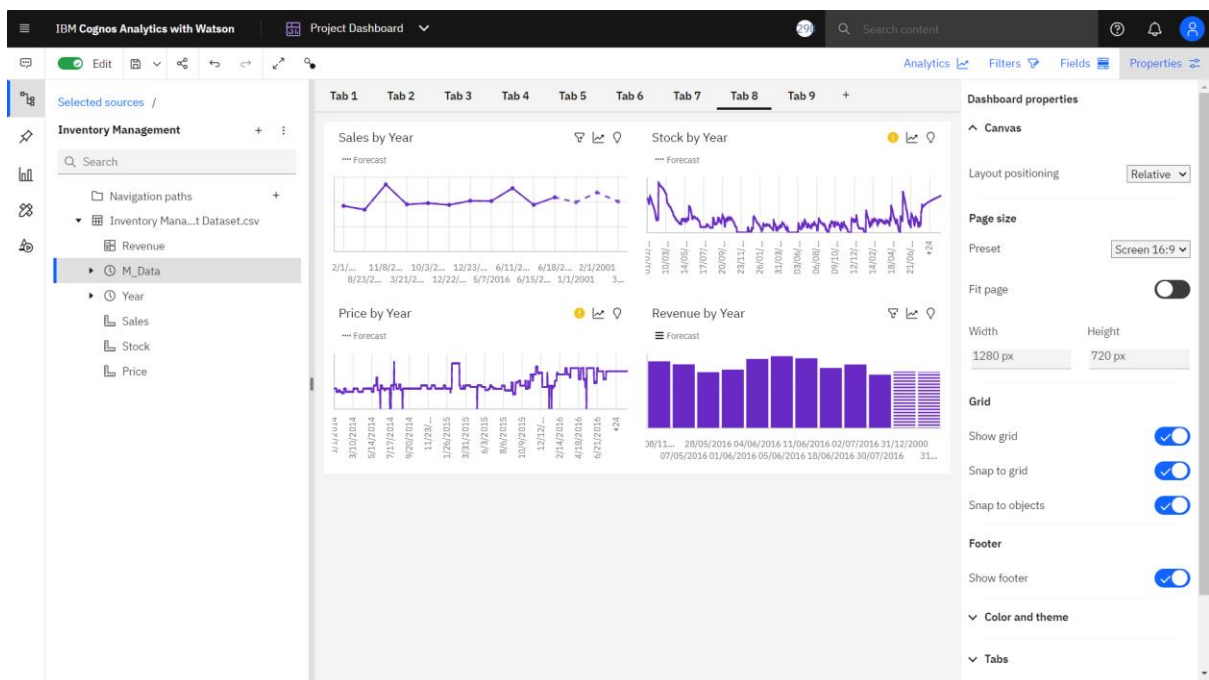The first three graphs are present already in previous tabs.

Revenue by Year Column graph gives the following output:

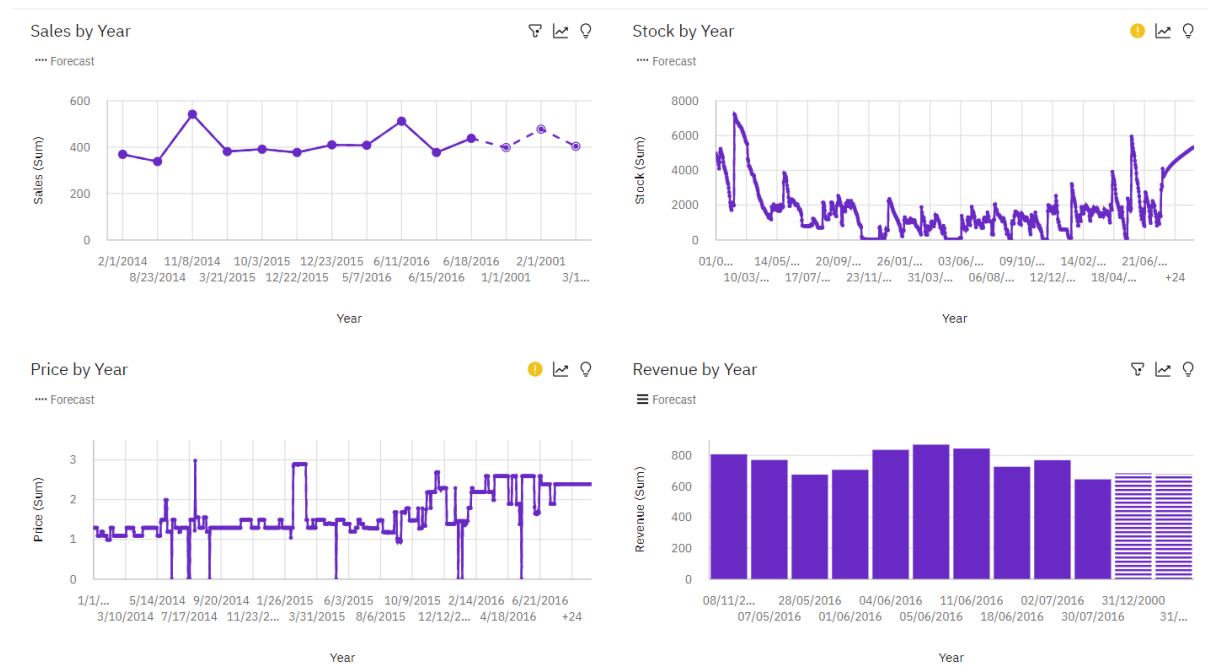After forecasting, we get the following result:

It can be added to dashboard by copying it from its tab and pasting it in the tab required.

The final output of the Dashboard created is as follows:

Conclusion:

Thus, in Sprint 2, the pre-processed dataset has been uploaded to IBM Cognos Analytics and Data Exploration is performed by creating several Graphs and Charts. A deeper understanding of the dataset is gained through this Sprint's activities.