

Data Analytics Externship

Assignment-1

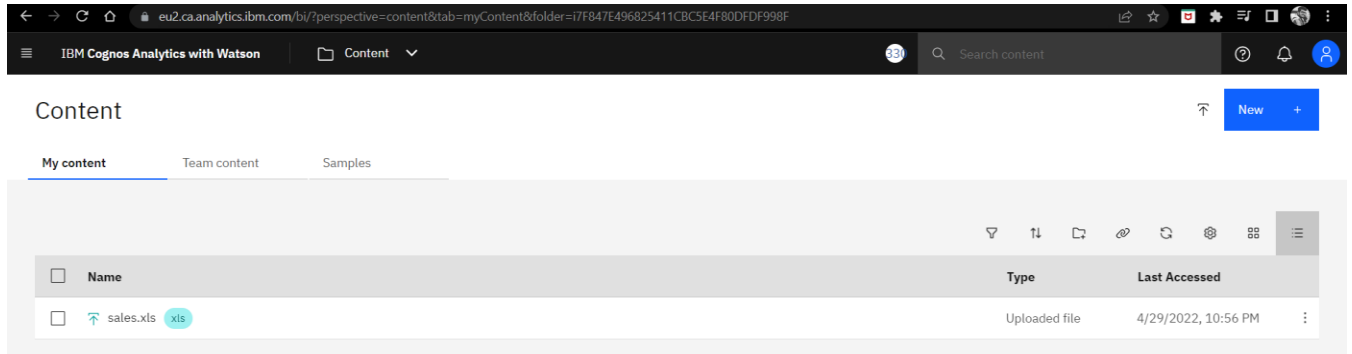
Name: G.Naga Sai Praneeth

Regd.No:19MIM10044

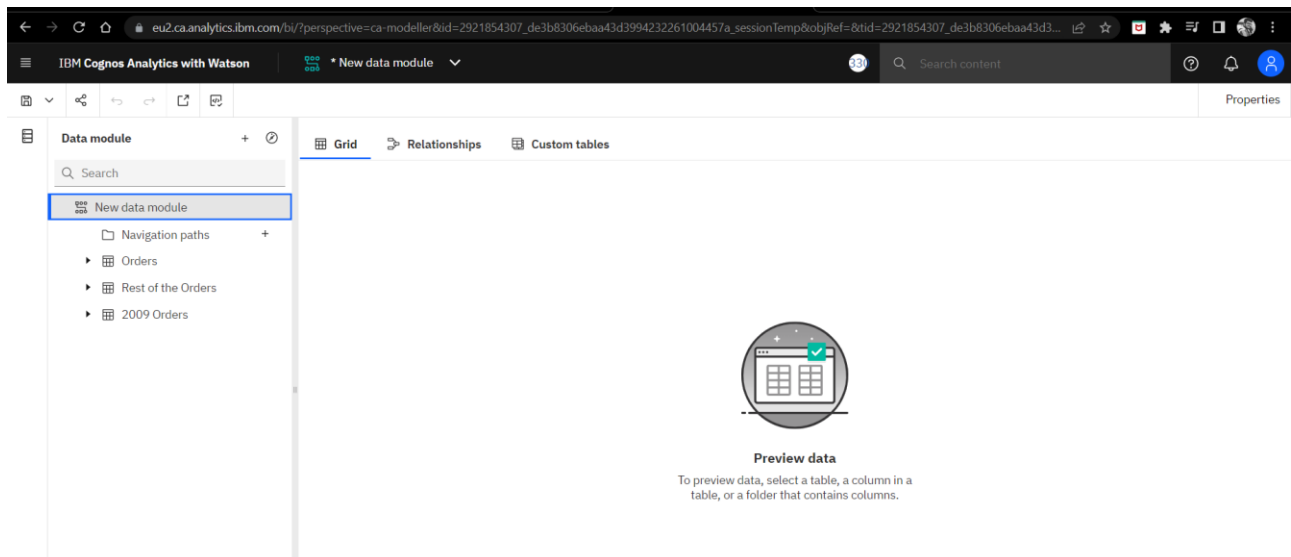
VIT BHOPAL.

Dataset: sales.csv

Upload the dataset to the Cognos:



Prepare the data: orders, rest of orders and 2009 orders



Change properties of Order Date using Calculations:

Create calculation

Name C_Order Date

Components

Expression

- Search
- Orders
 - # Row Id
 - # Row ID
 - # Order ID
 - Order Date
 - Order Priority
 - Order Quantity
 - Sales
 - Discount
 - Ship Mode
 - Profit

1 Year([Order Date])

Validation Results

The expression is valid.

Cancel

OK

IBM Cognos Analytics with Watson

New data module

Search content

Properties

Data module

Grid Relationships Custom tables

Search

New data module

Navigation paths

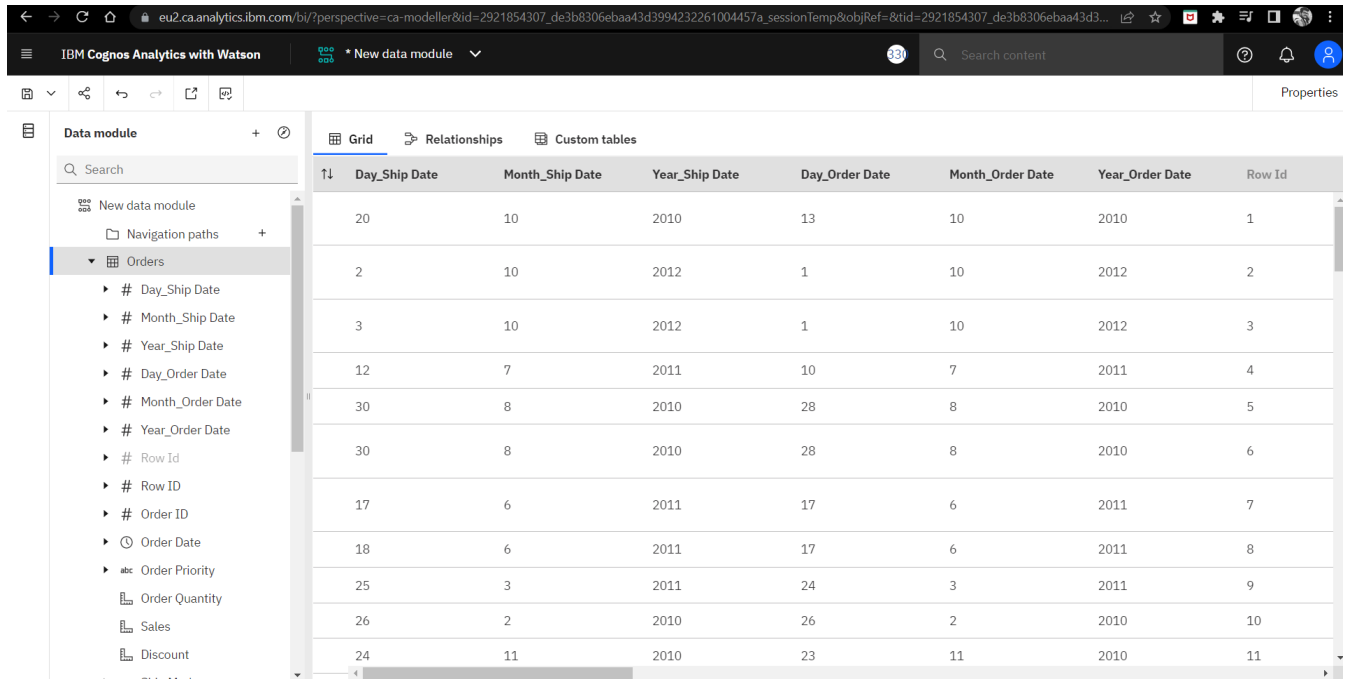
Orders

- # Day_Order Date
- # Month_Order Date
- # Year_Order Date
- # Row Id
- # Row ID
- # Order ID
- Order Date
- Order Priority
- Order Quantity
- Sales
- Discount
- Ship Mode
- Profit
- Unit Price

Change grid settings

Day_Order Date	Month_Order Date	Year_Order Date	Row Id	Row ID	Order ID	Order Date
	10	2010	1	1	3	10/13/10
1	10	2012	2	49	293	10/1/12
1	10	2012	3	50	293	10/1/12
10	7	2011	4	80	483	7/10/11
28	8	2010	5	85	515	8/28/10
28	8	2010	6	86	515	8/28/10
17	6	2011	7	97	613	6/17/11
17	6	2011	8	98	613	6/17/11
24	3	2011	9	103	643	3/24/11
26	2	2010	10	107	678	2/26/10
23	11	2010	11	127	807	11/23/10

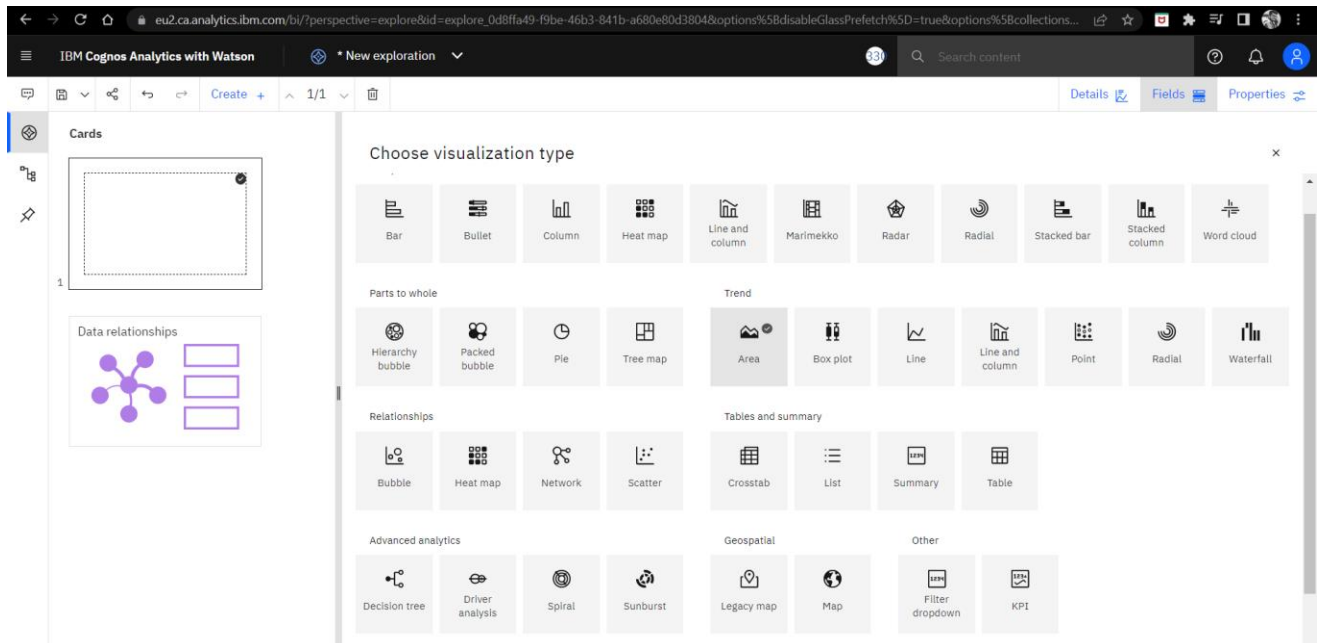
Also, change the properties of ship Date:



The screenshot shows the IBM Cognos Analytics with Watson interface. The left sidebar displays the 'Data module' tree with 'Orders' expanded, listing fields like Day_Ship Date, Month_Ship Date, Year_Ship Date, Day_Order Date, Month_Order Date, Year_Order Date, Row Id, Row ID, Order ID, Order Date, Order Priority, Order Quantity, Sales, Discount, and Ship Mode. The main area shows a grid view of the 'Orders' data module with 11 rows and 7 columns.

Day_Ship Date	Month_Ship Date	Year_Ship Date	Day_Order Date	Month_Order Date	Year_Order Date	Row Id
20	10	2010	13	10	2010	1
2	10	2012	1	10	2012	2
3	10	2012	1	10	2012	3
12	7	2011	10	7	2011	4
30	8	2010	28	8	2010	5
30	8	2010	28	8	2010	6
17	6	2011	17	6	2011	7
18	6	2011	17	6	2011	8
25	3	2011	24	3	2011	9
26	2	2010	26	2	2010	10
24	11	2010	23	11	2010	11

Create a card and choose a type for visualizing our data

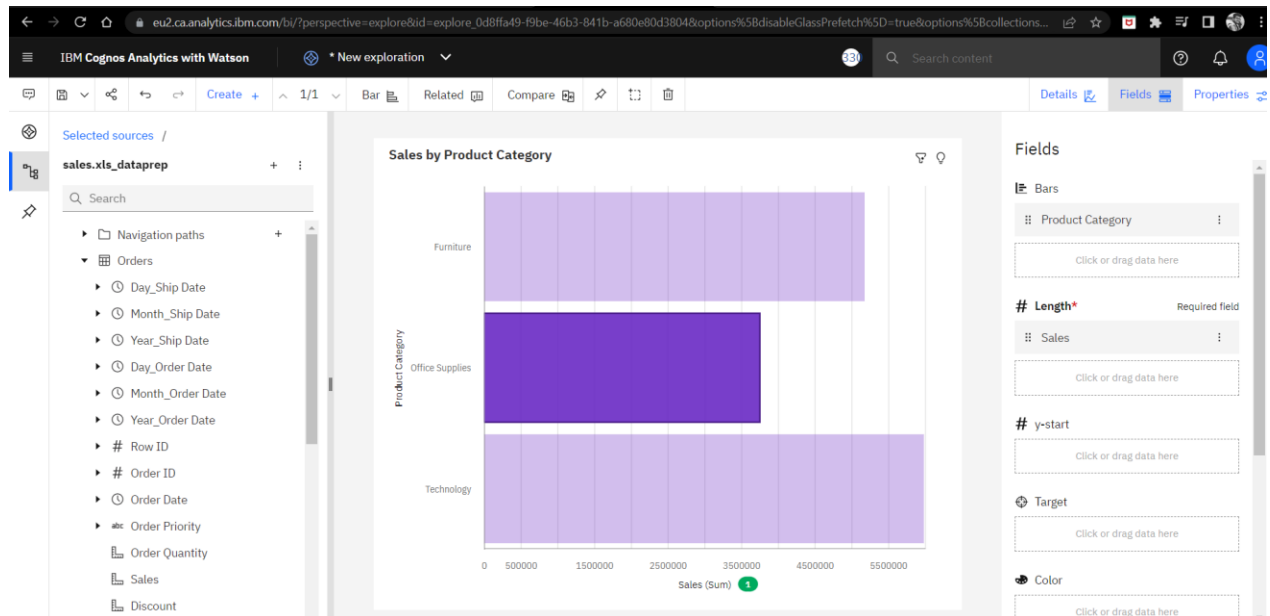


The screenshot shows the IBM Cognos Analytics with Watson interface. The left sidebar displays the 'Cards' section with a 'Data relationships' diagram. The main area shows the 'Choose visualization type' dialog with various visualization options categorized into 'Parts to whole', 'Trend', 'Relationships', 'Tables and summary', 'Advanced analytics', 'Geospatial', and 'Other'.

Choose visualization type

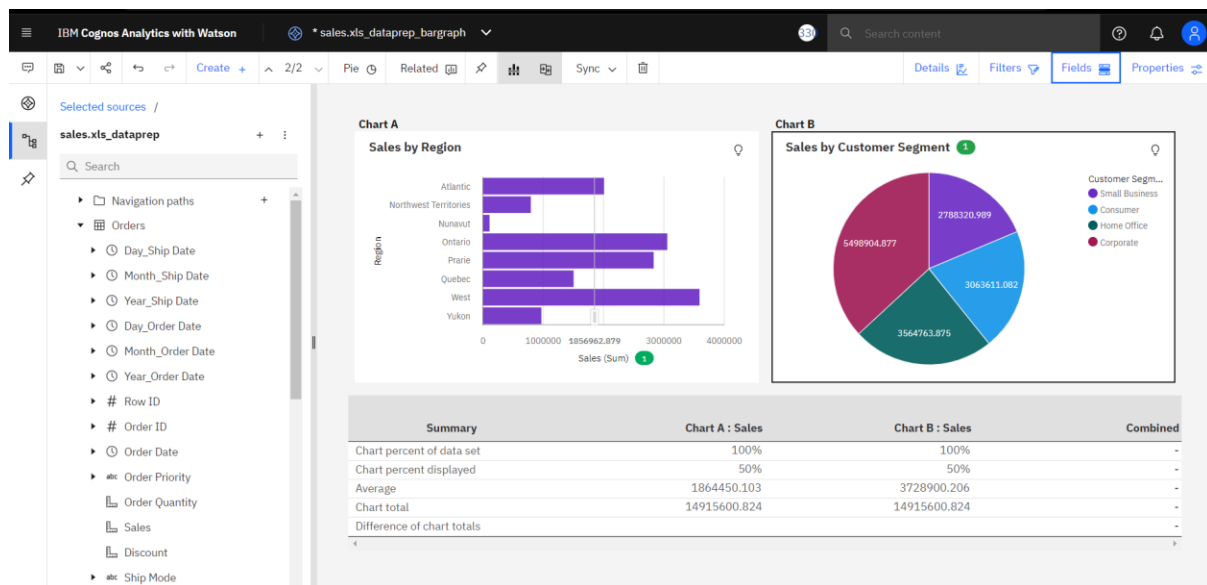
- Parts to whole:** Bar, Bullet, Column, Heat map, Line and column, Marimekko, Radar, Radial, Stacked bar, Stacked column, Word cloud.
- Trend:** Area, Box plot, Line, Line and column, Point, Radial, Waterfall.
- Relationships:** Hierarchy bubble, Packed bubble, Pie, Tree map, Bubble, Heat map, Network, Scatter, Crosstab, List, Summary, Table.
- Advanced analytics:** Decision tree, Driver analysis, Spiral, Sunburst.
- Geospatial:** Legacy map, Map.
- Other:** Filter dropdown, KPI.

Bar chart visualization of product category and sales:

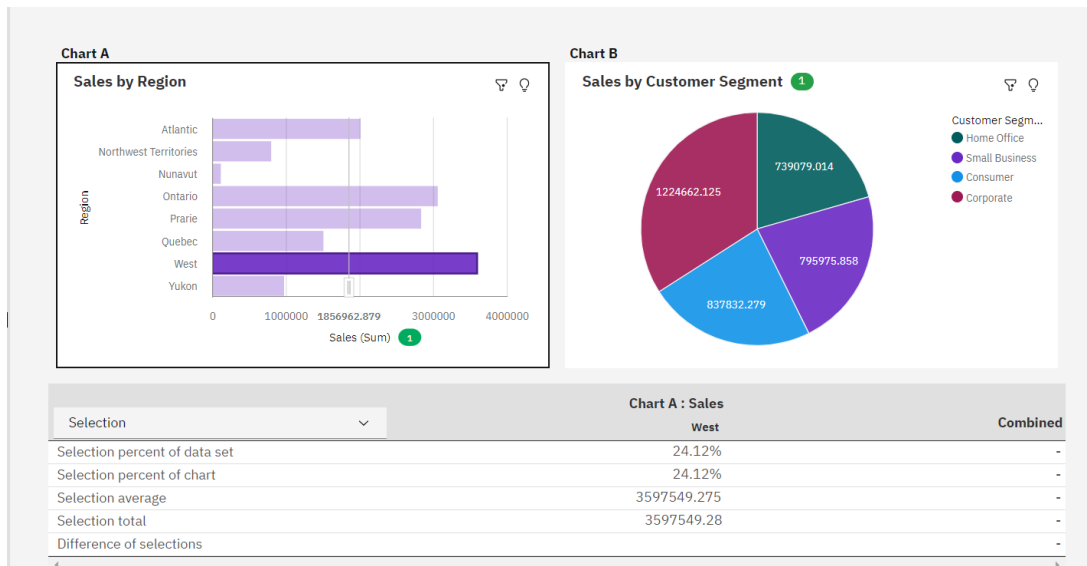


Save the data.

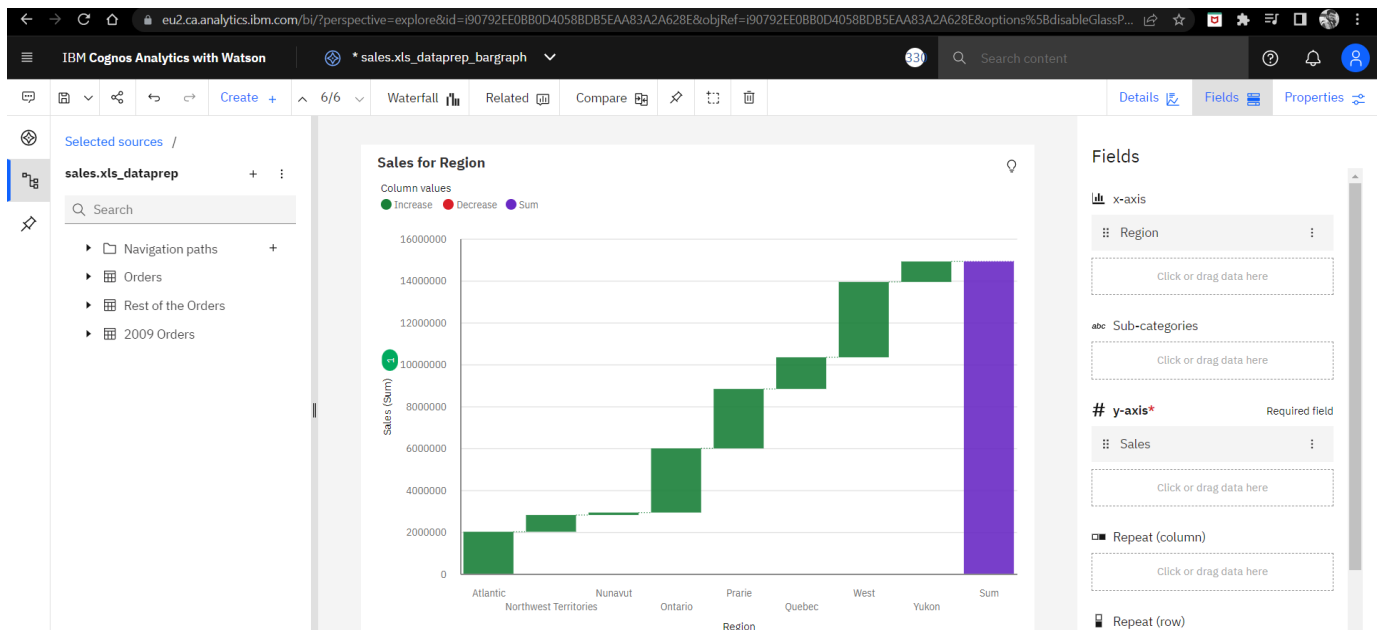
Compare bar and pie chart:



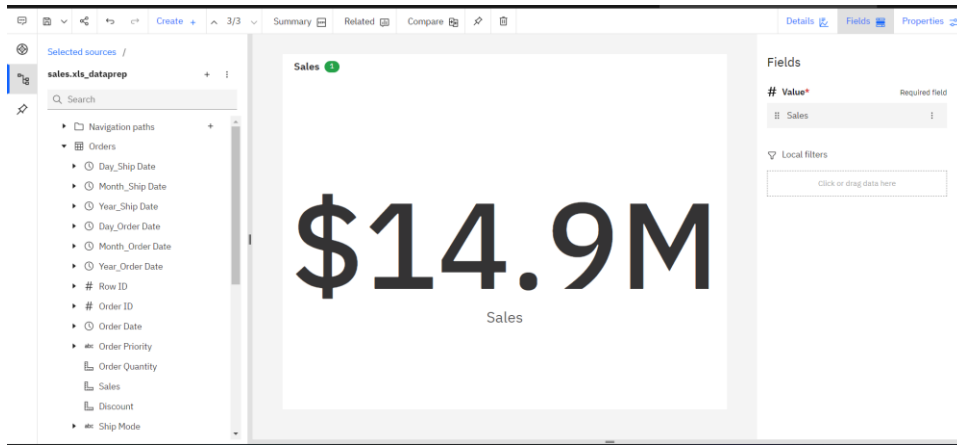
WEST Region:



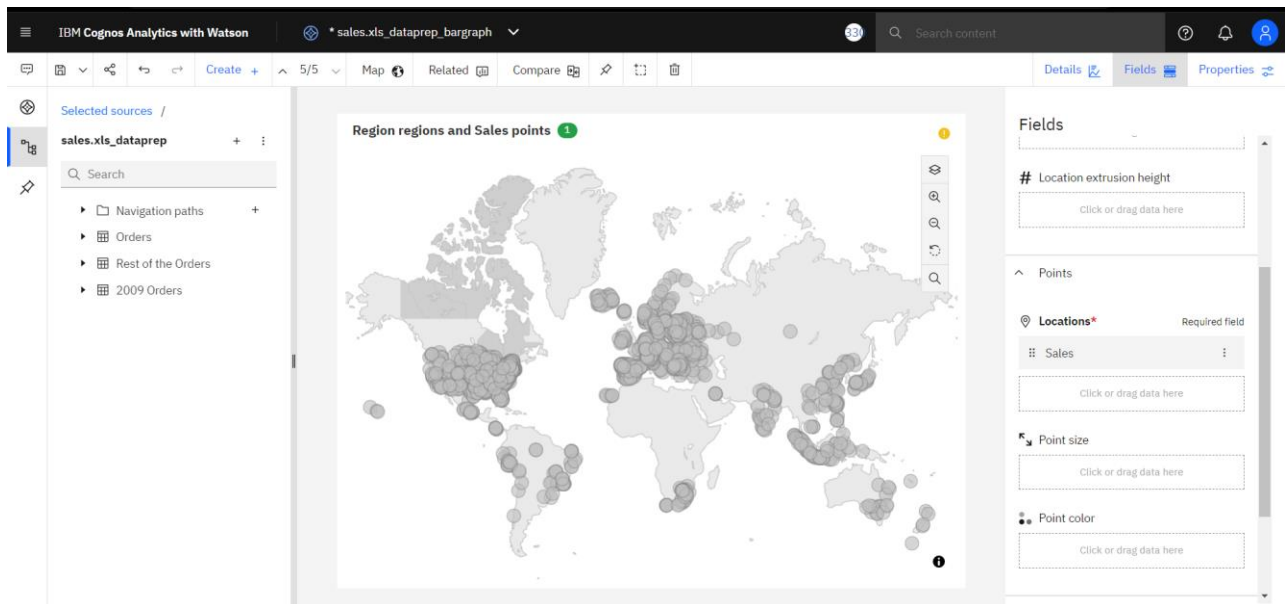
Waterfall:



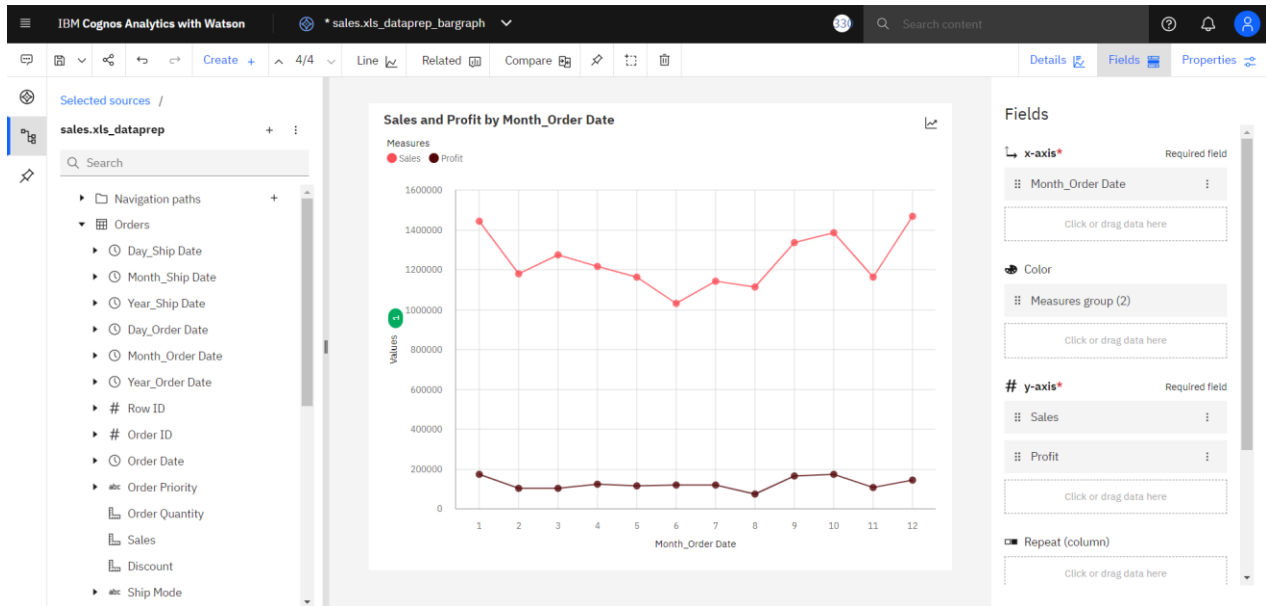
Summary of Sales:



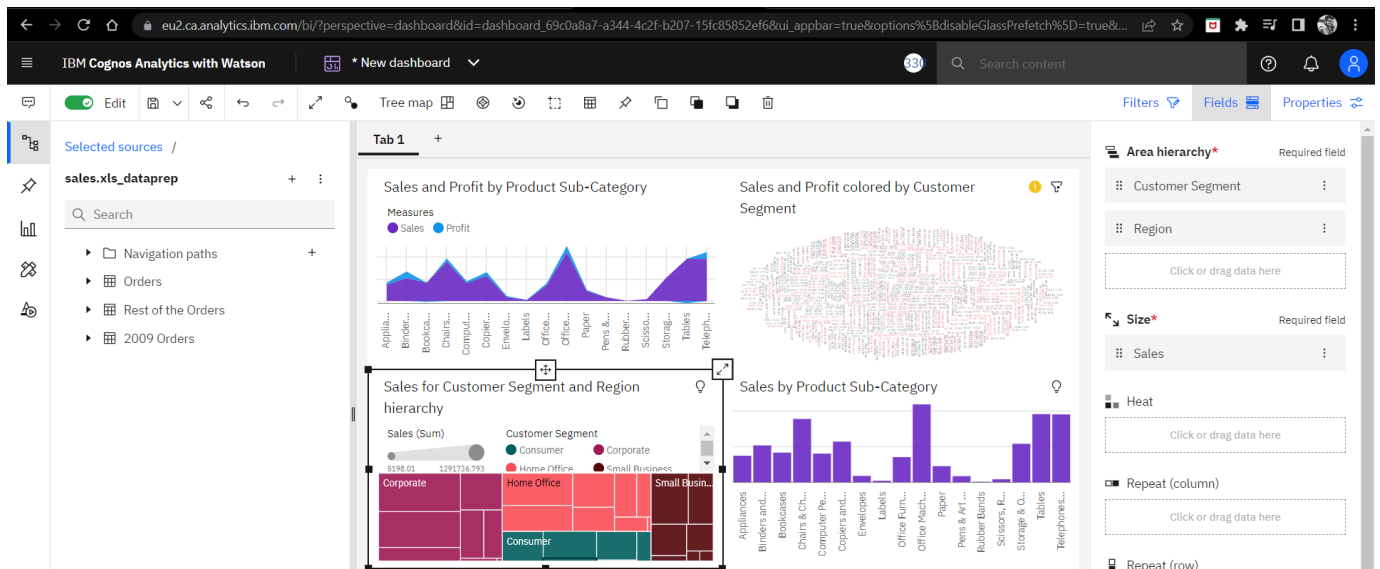
Region and Sales Map:



Line Chart: Monthly sales and Profit



creating a dashboard and visualizing:



Tree Map:

