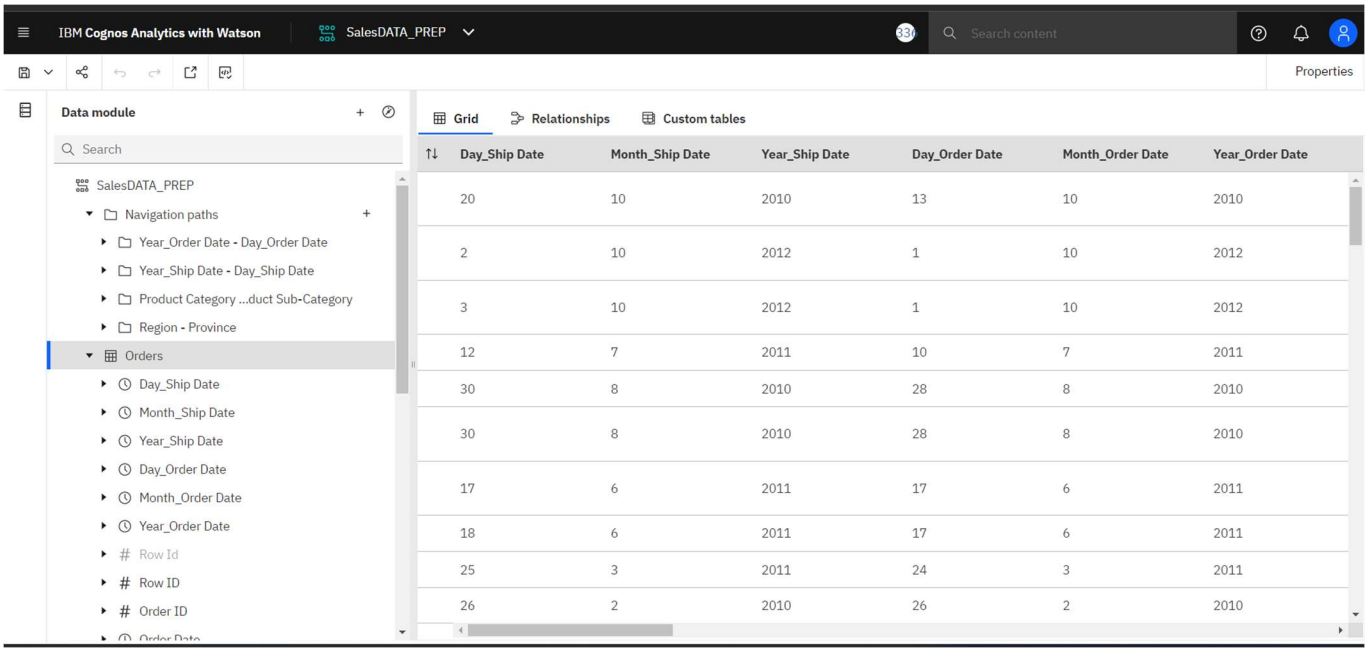
NAME: Pranav Sehgal

Registration Number: 20BCE0898

E-mail Id: pranav.sehgal2020@vitstudent.ac.in

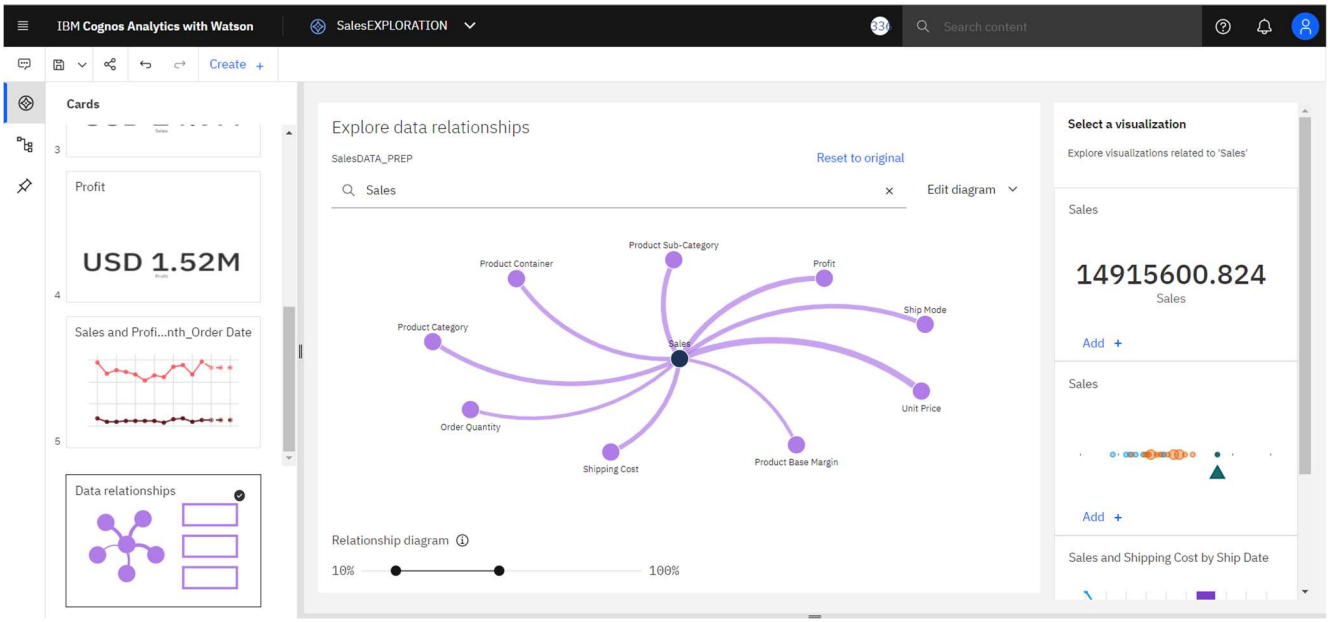
ASSIGNMENT-1

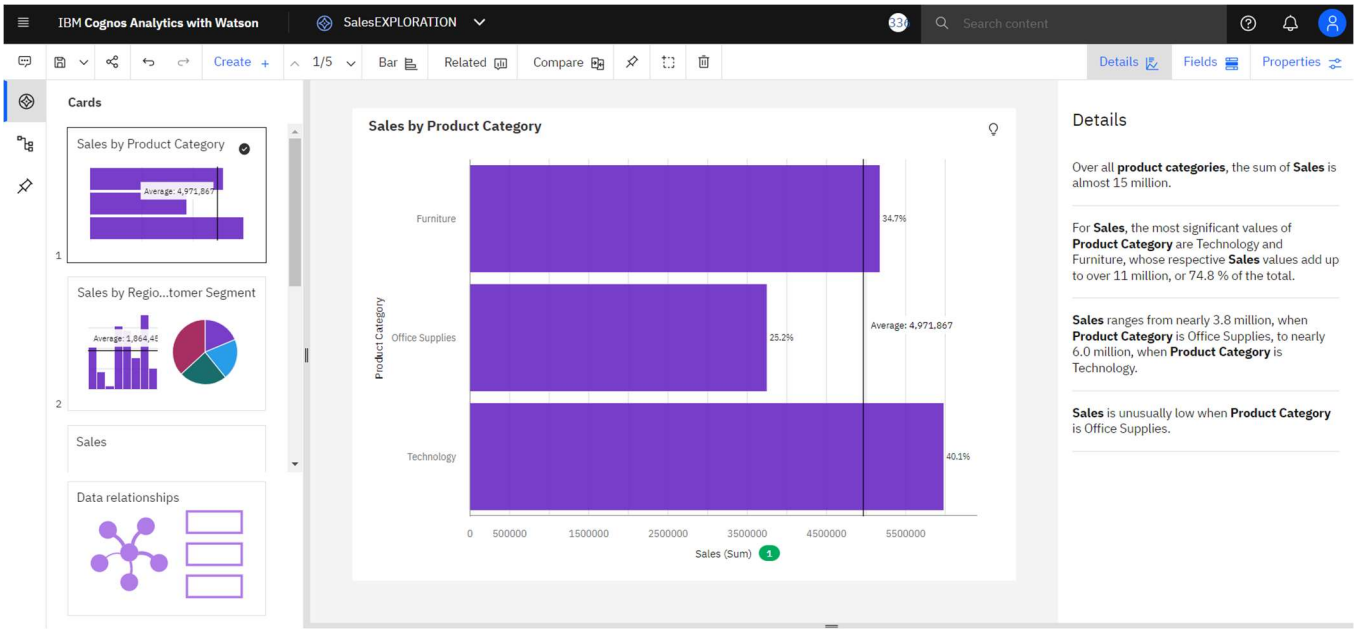
STEP-1: Sales Data Preparation

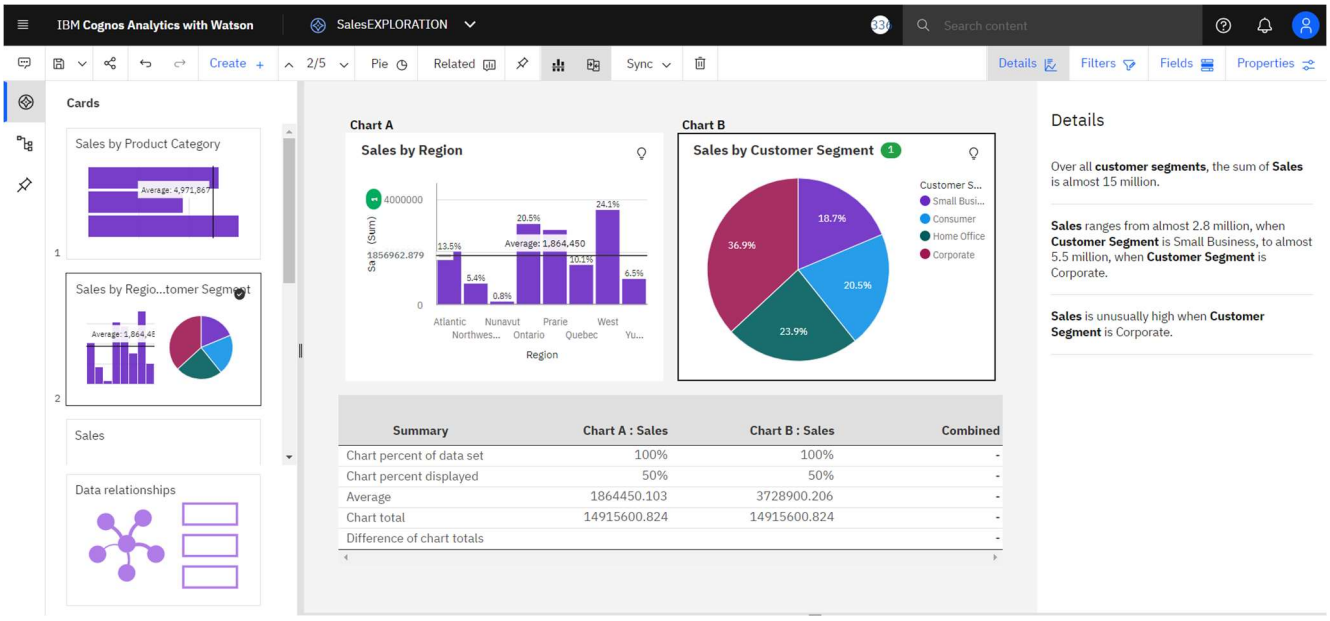


Day_Ship Date	Month_Ship Date	Year_Ship Date	Day_Order Date	Month_Order Date	Year_Order Date
20	10	2010	13	10	2010
2	10	2012	1	10	2012
3	10	2012	1	10	2012
12	7	2011	10	7	2011
30	8	2010	28	8	2010
30	8	2010	28	8	2010
17	6	2011	17	6	2011
18	6	2011	17	6	2011
25	3	2011	24	3	2011
26	2	2010	26	2	2010

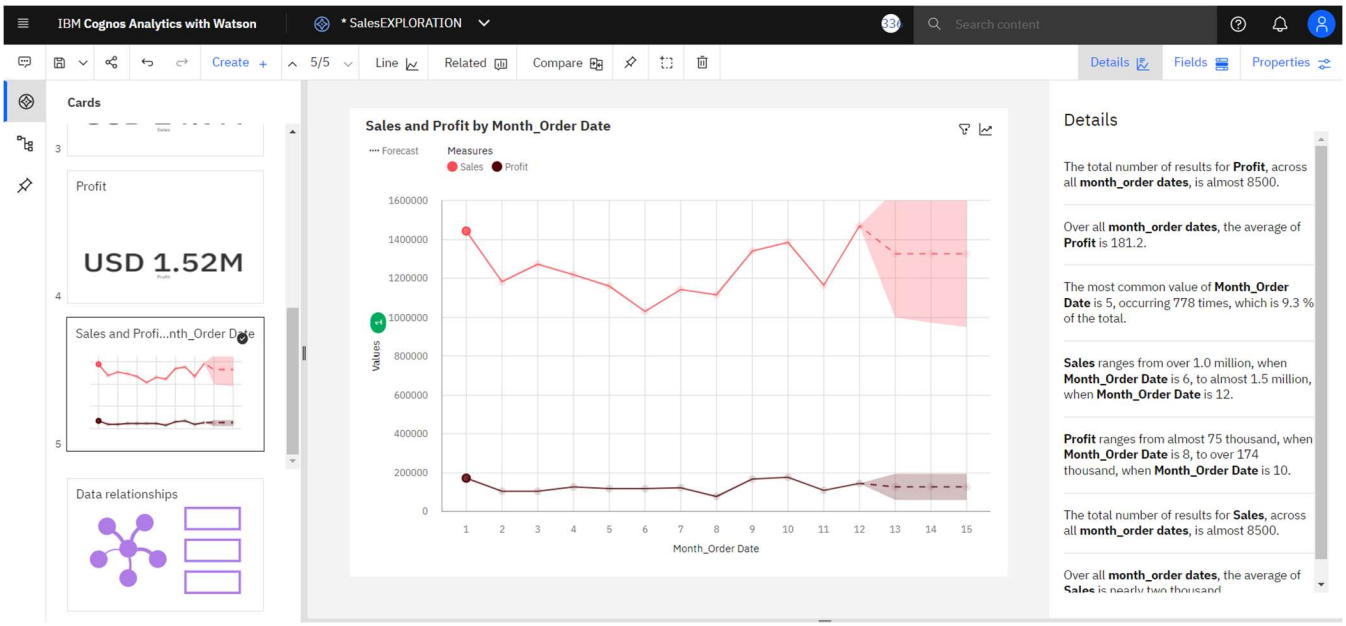
STEP-2: Sales Data Exploration

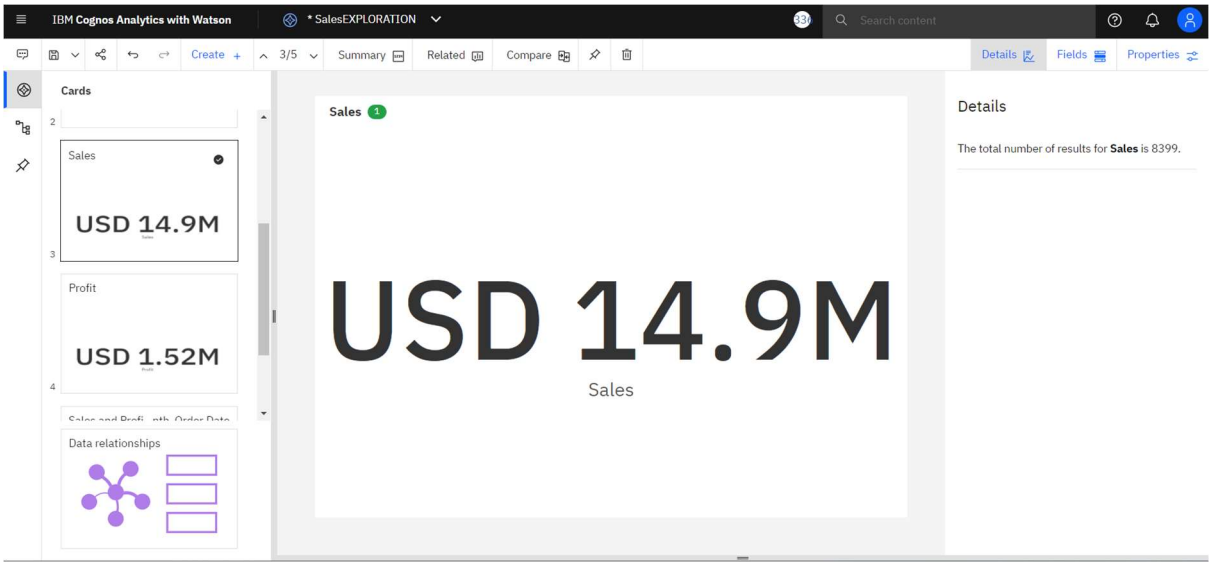


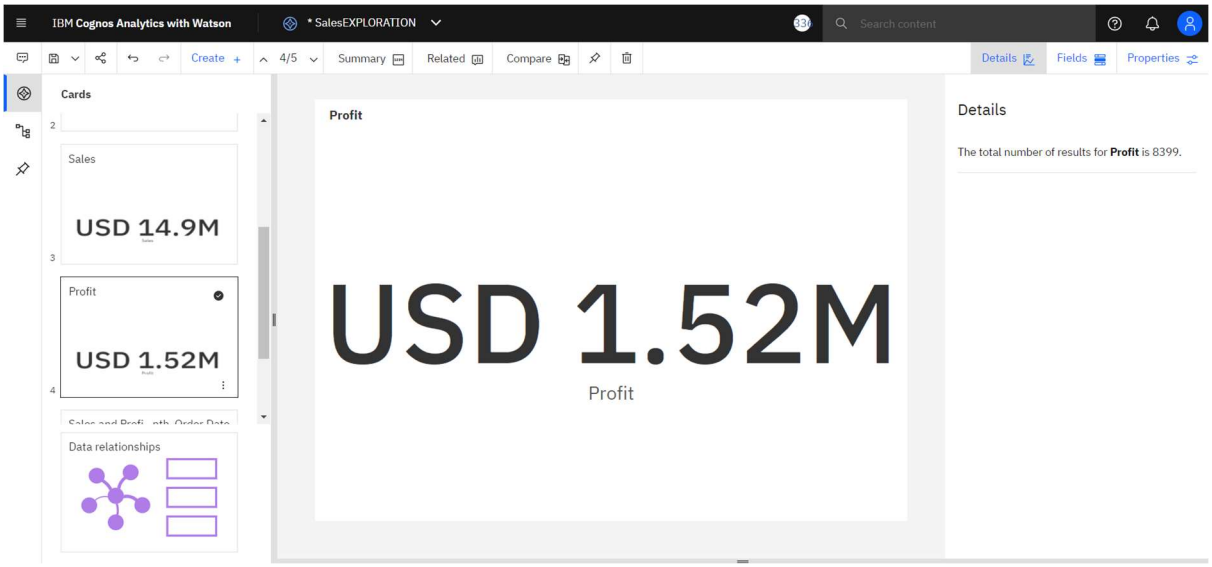




Summary	Chart A : Sales	Chart B : Sales	Combined
Chart percent of data set	100%	100%	-
Chart percent displayed	50%	50%	-
Average	1864450.103	3728900.206	-
Chart total	14915600.824	14915600.824	-
Difference of chart totals			-


IBM Cognos Analytics with Watson
* SalesEXPLORATION
Search content
Create
5/5
Line
Related
Compare
Details
Fields
Properties
Cards
Profit
USD 1.52M
Sales and Profi...nth_Order Date
Data relationships
Sales and Profit by Month_Order Date
Forecast
Measures
Sales
Profit
Values
Month_Order Date
Details
The total number of results for Profit, across all month_order dates, is almost 8500.
Over all month_order dates, the average of Profit is 181.2.
The most common value of Month_Order Date is 5, occurring 778 times, which is 9.3 % of the total.
Sales ranges from over 1.0 million, when Month_Order Date is 6, to almost 1.5 million, when Month_Order Date is 12.
Profit ranges from almost 75 thousand, when Month_Order Date is 8, to over 174 thousand, when Month_Order Date is 10.
The total number of results for Sales, across all month_order dates, is almost 8500.
Over all month_order dates, the average of


IBM Cognos Analytics with Watson
* SalesEXPLORATION
Search content
Create
3/5
Summary
Related
Compare
Details
Fields
Properties
Cards
Sales
USD 14.9M
Profit
USD 1.52M
Data relationships
Sales
USD 14.9M
Sales
Details
The total number of results for Sales is 8399.


IBM Cognos Analytics with Watson
* SalesEXPLORATION
Search content
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Summary
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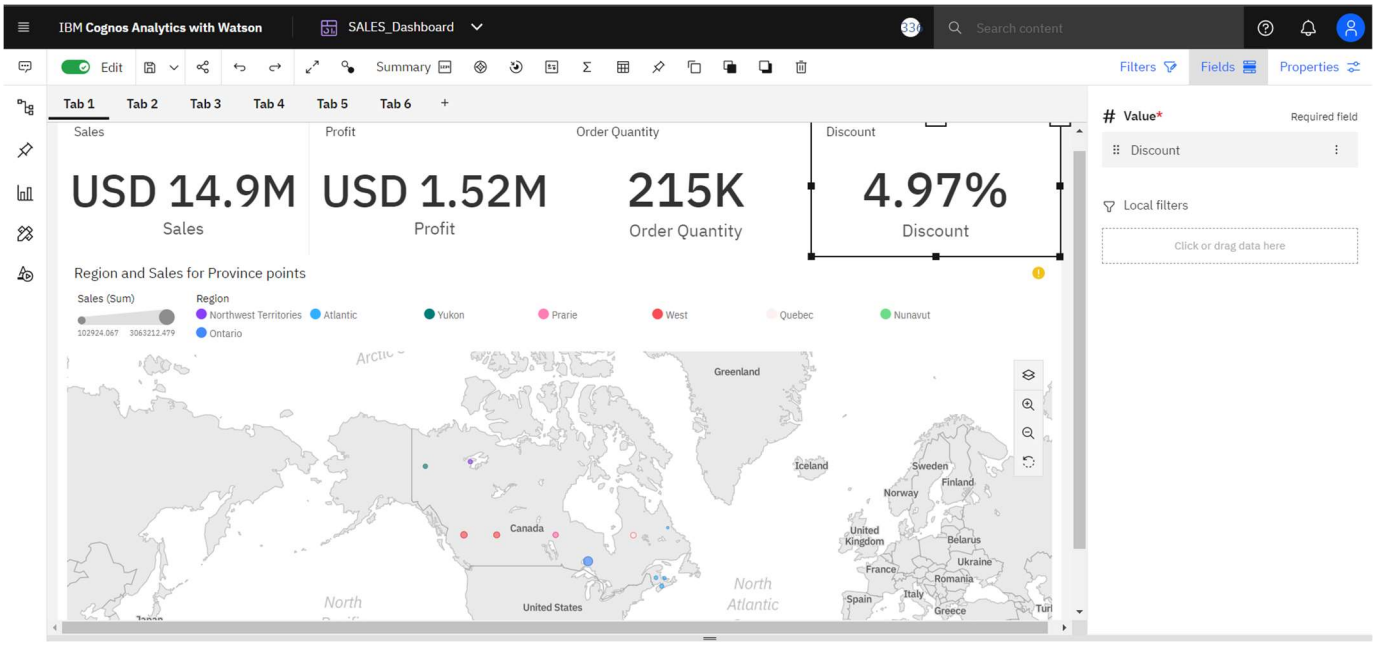
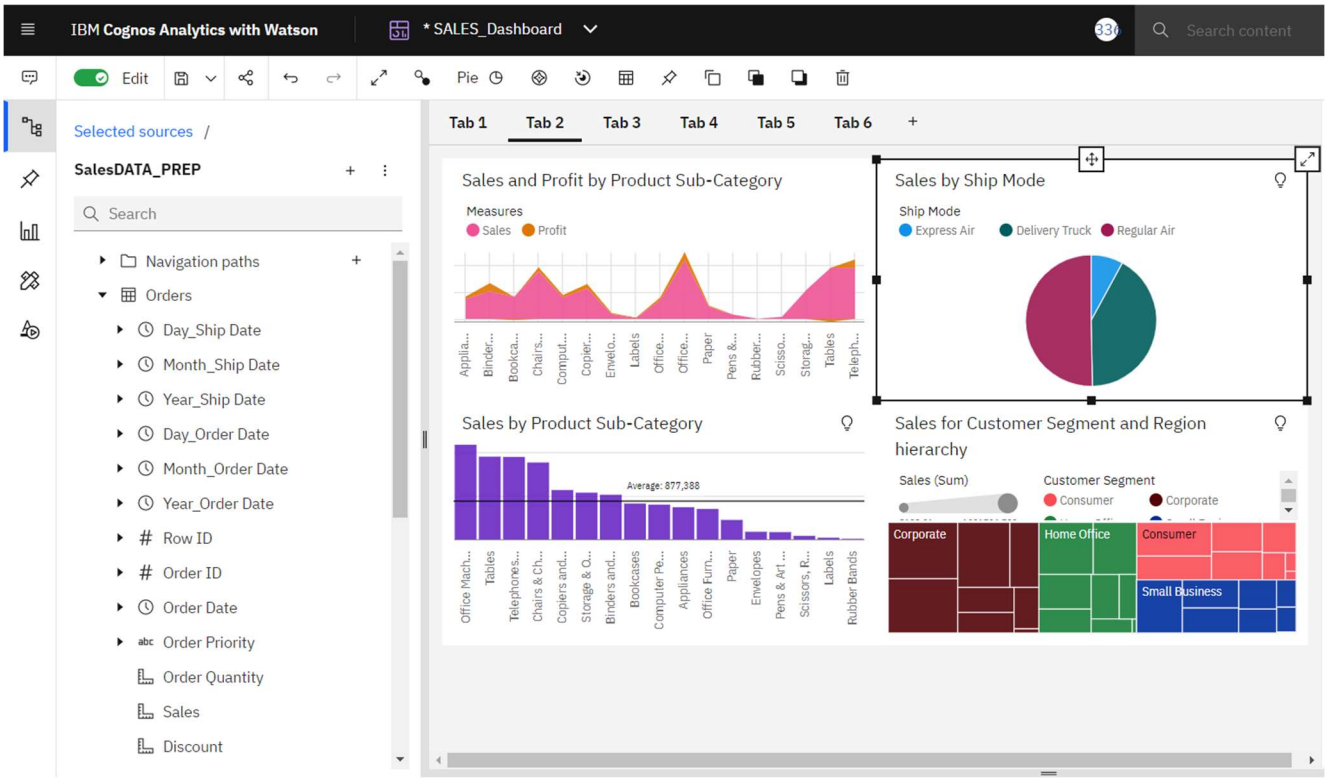
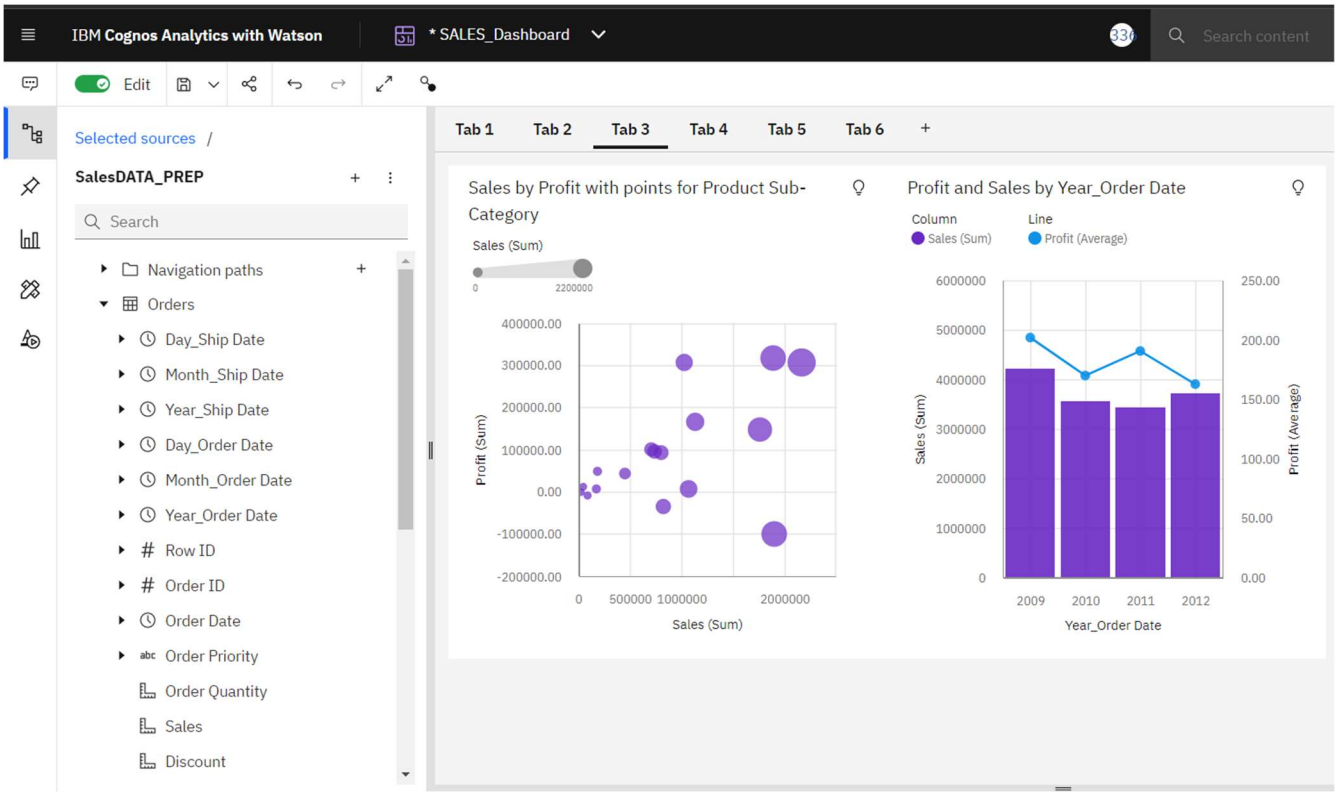
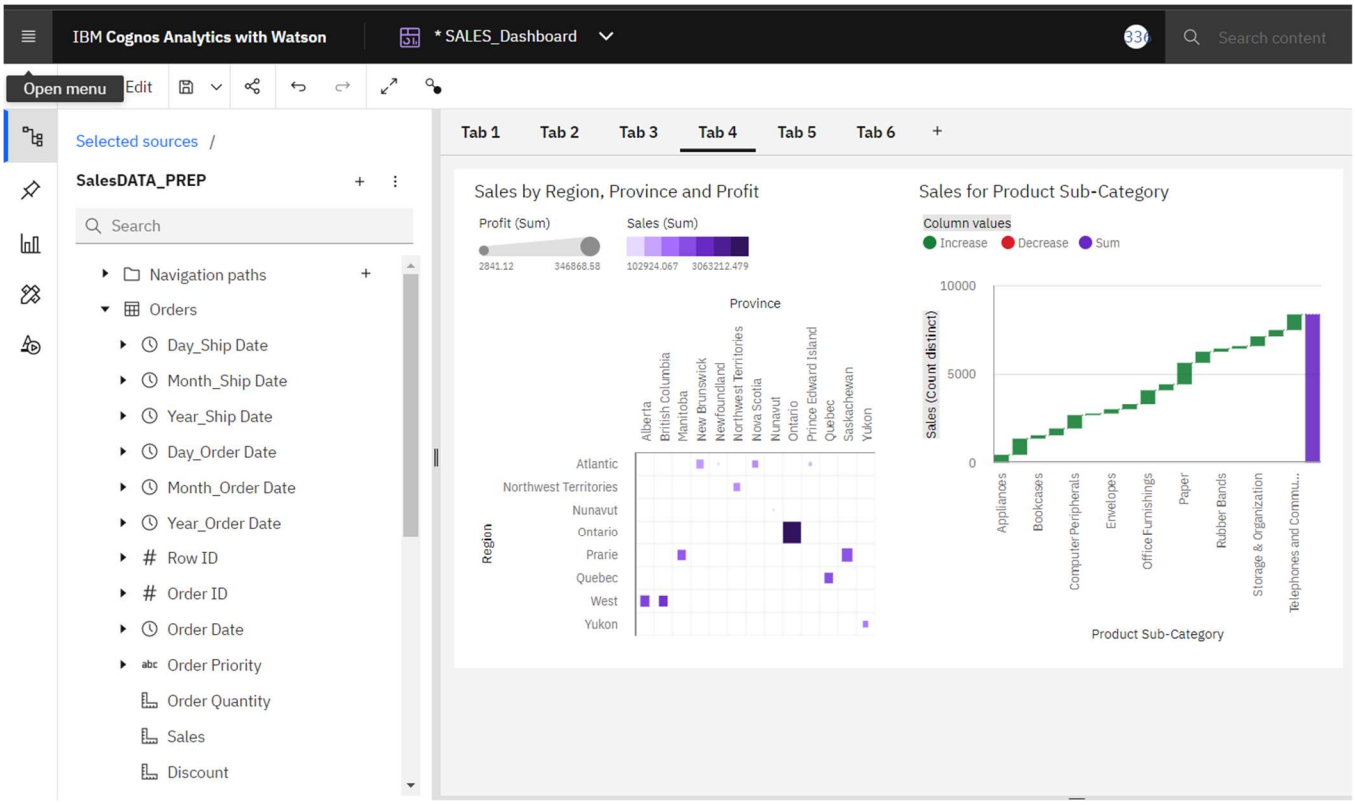
Details
Fields
Properties
Cards
Sales
USD 14.9M
Profit
USD 1.52M
Data relationships
Profit
USD 1.52M
Profit
Details
The total number of results for Profit is 8399.

STEP-3: Sales Dashboard






IBM Cognos Analytics with Watson
* SALES_Dashboard
Search content
Edit
Selected sources /
SalesDATA_PREP
Search
Navigation paths
Orders
Day_Ship Date
Month_Ship Date
Year_Ship Date
Day_Order Date
Month_Order Date
Year_Order Date
Row ID
Order ID
Order Date
Order Priority
Order Quantity
Sales
Discount
Tab 1
Tab 2
Tab 3
Tab 4
Tab 5
Tab 6
Sales by Profit with points for Product Sub-Category
Sales (Sum)
Profit (Sum)
Sales (Sum)
Profit and Sales by Year_Order Date
Column
Sales (Sum)
Line
Profit (Average)
Sales (Sum)
Profit (Average)
Year_Order Date


IBM Cognos Analytics with Watson
* SALES_Dashboard
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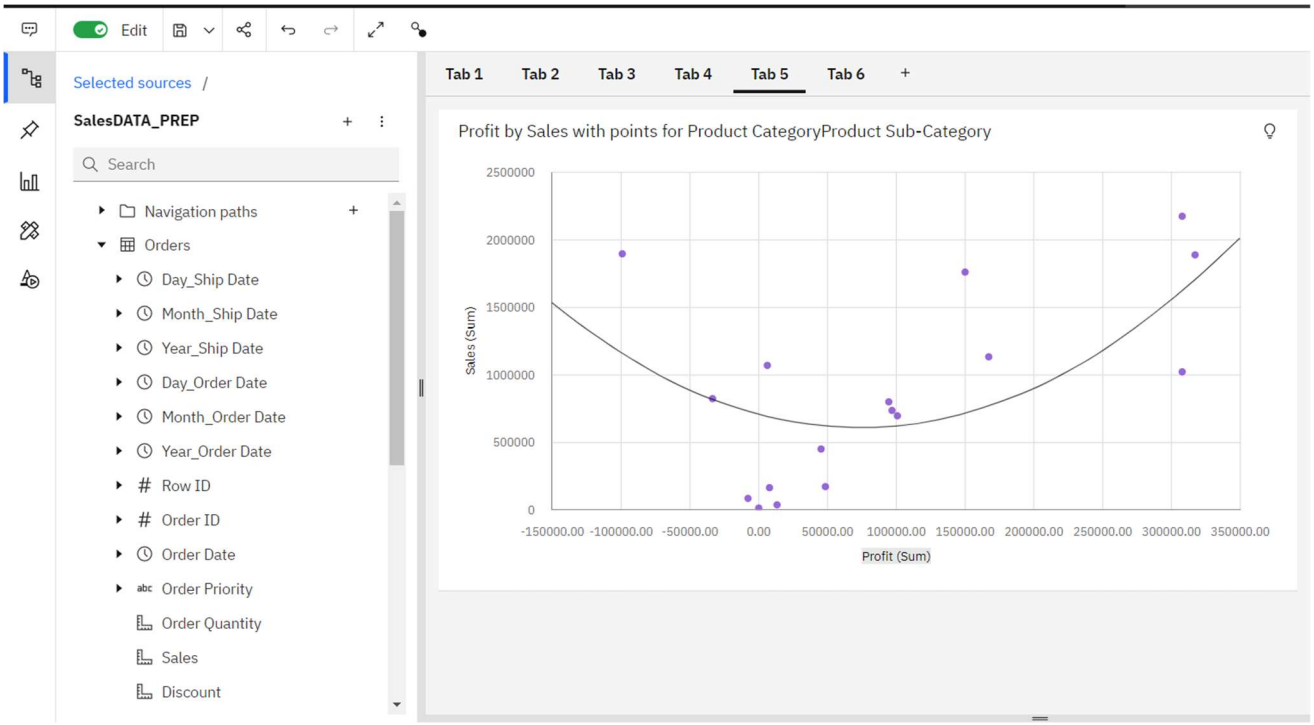
Day_Order Date
Month_Order Date
Year_Order Date
Row ID
Order ID
Order Date
Order Priority
Order Quantity
Sales
Discount
Tab 1
Tab 2
Tab 3
Tab 4
Tab 5
Tab 6
Sales by Region, Province and Profit
Profit (Sum)
Sales (Sum)
Province
Region
Sales for Product Sub-Category
Column values
Increase
Decrease
Sum
Sales (Count distinct)
Product Sub-Category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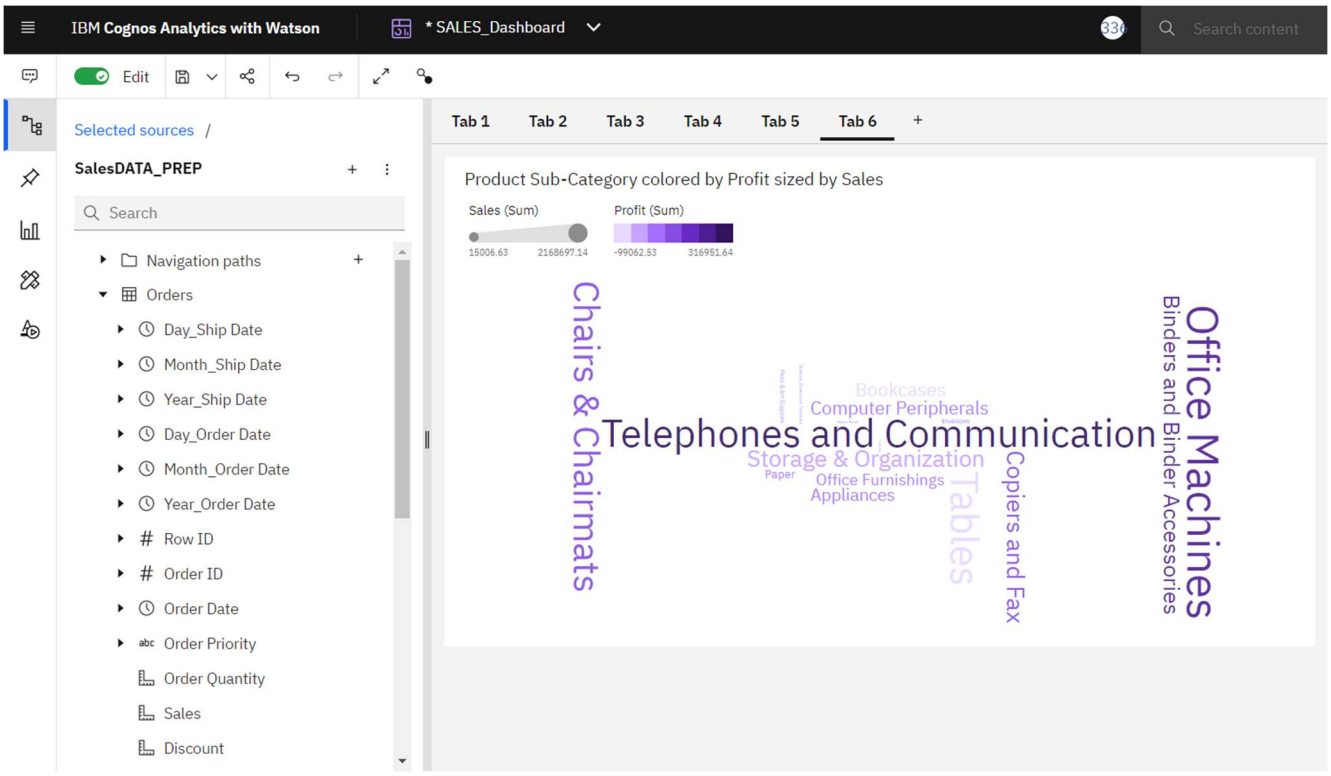
Day_Order Date
Month_Order Date
Year_Order Date
Row ID
Order ID
Order Date
Order Priority
Order Quantity
Sales
Discount
Tab 1
Tab 2
Tab 3
Tab 4
Tab 5
Tab 6
Profit by Sales with points for Product CategoryProduct Sub-Category
2500000
2000000
1500000
1000000
500000
0
Sales (Sum)
-150000.00 -100000.00 -50000.00 0.00 50000.00 100000.00 150000.00 200000.00 250000.00 300000.00 350000.00
Profit (Sum)


IBM Cognos Analytics with Watson
* SALES_Dashboard
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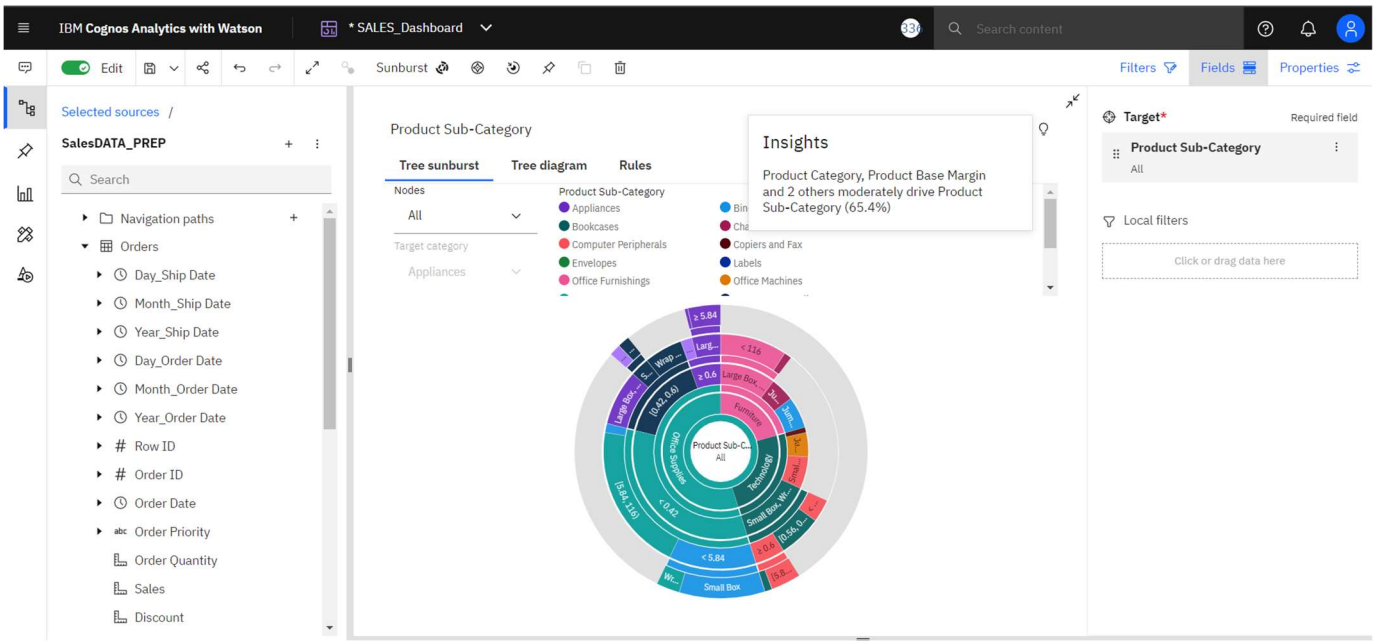
Month_Ship Date
Year_Ship Date
Day_Order Date
Month_Order Date
Year_Order Date
Row ID
Order ID
Order Date
Order Priority
Order Quantity
Sales
Discount
Tab 1
Tab 2
Tab 3
Tab 4
Tab 5
Tab 6
Product Sub-Category colored by Profit sized by Sales
Sales (Sum)
15006.63
2168697.14
Profit (Sum)
-99062.53
316951.64
Chairs & Chairmats
Bookcases
Computer Peripherals
Telephones and Communication
Storage & Organization
Paper
Office Furnishings
Appliances
Tables
Copiers and Fax
Office Machines
Binders and Binder Accessories


IBM Cognos Analytics with Watson
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Month_Ship Date
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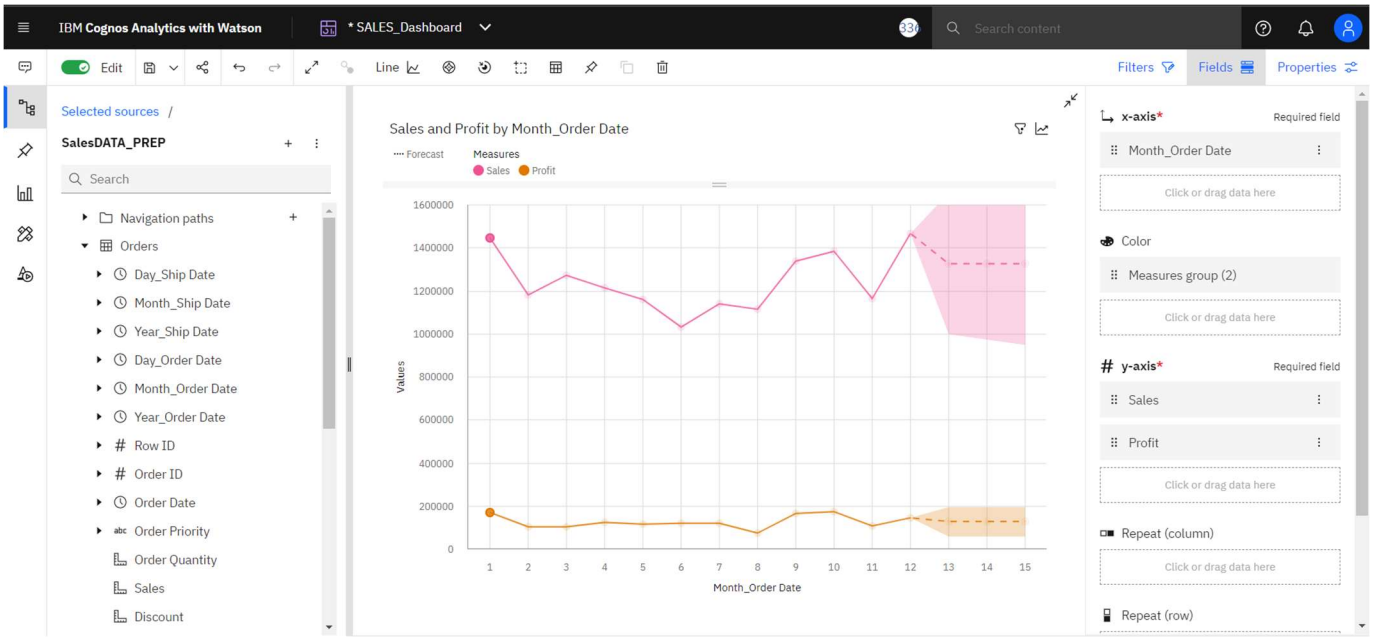
Day_Order Date
Month_Order Date
Year_Order Date
Row ID
Order ID
Order Date
Order Priority
Order Quantity
Sales
Discount
Product Sub-Category
Tree sunburst
Tree diagram
Rules
Nodes
All
Target category
Appliances
Product Sub-Category
Appliances
Bookcases
Computer Peripherals
Envelopes
Office Furnishings
Copiers and Fax
Labels
Office Machines
Insights
Product Category, Product Base Margin and 2 others moderately drive Product Sub-Category (65.4%)
Target*
Required field
Product Sub-Category
All
Local filters
Click or drag data here


IBM Cognos Analytics with Watson
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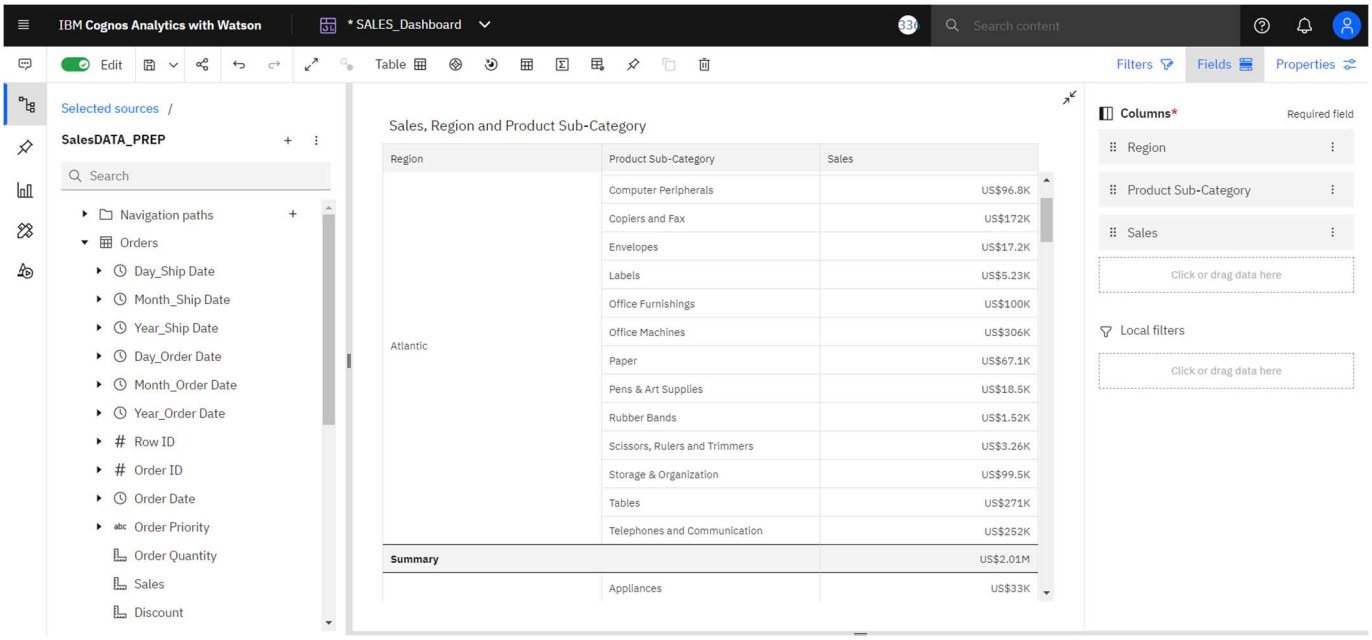
Month_Ship Date
Year_Ship Date
Day_Order Date
Month_Order Date
Year_Order Date
Row ID
Order ID
Order Date
Order Priority
Order Quantity
Sales
Discount
Sales and Profit by Month_Order Date
Forecast
Measures
Sales
Profit
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
Values
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Month_Order Date
x-axis*
Required field
Month_Order Date
Click or drag data here
Color
Measures group (2)
Click or drag data here
y-axis*
Required field
Sales
Profit
Click or drag data here
Repeat (column)
Click or drag data here
Repeat (row)


IBM Cognos Analytics with Watson
* SALES_Dashboard
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SalesDATA_PREP
Search
Navigation paths
Orders
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Month_Ship Date
Year_Ship Date
Day_Order Date
Month_Order Date
Year_Order Date
Row ID
Order ID
Order Date
Order Priority
Order Quantity
Sales
Discount
Sales, Region and Product Sub-Category
Region
Product Sub-Category
Sales
Atlantic
Computer Peripherals US$96.8K
Copiers and Fax US$172K
Envelopes US$17.2K
Labels US$5.23K
Office Furnishings US$100K
Office Machines US$306K
Paper US$67.1K
Pens & Art Supplies US$18.5K
Rubber Bands US$1.52K
Scissors, Rulers and Trimmers US$3.26K
Storage & Organization US$99.5K
Tables US$271K
Telephones and Communication US$252K
Summary US$2.01M
Appliances US$33K
Columns*
Required field
Region
Product Sub-Category
Sales
Click or drag data here
Local filters
Click or drag data here