

PROJECT DEVELOPMENT

DELIVERY OF SPRINT-2

Team ID	PNT2022TMID49237
Project Name	Global Sales Data Analytics

Sprint 2 Requirements:

- Upload Dataset
- Data Preparation
- Data Exploration

Upload Dataset:

Download the Dataset using the following link:

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

- Open IBM COGNOS Dashboard and upload the dataset by clicking the upload data.

IBM Cognos Analytics with Watson

29 Search content

You can get started right away by taking a look at our introduction video, product tour and Getting Started tab.

Watch video Take a product tour

^ 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 explor...

Pre [Log out](#)
Create sophisticated, multi-page, multi-query dashboards, reports, or stori...

Nandha Kumar S (79b0f...)
nanthu032@gmail.com
[Profile and settings](#)

My schedules and subscriptions
Log my session

About
Manage product subscription
Privacy
Cookie Preferences
IBM Cognos Analytics Mobile

Data preparation:

- Click the prepare data

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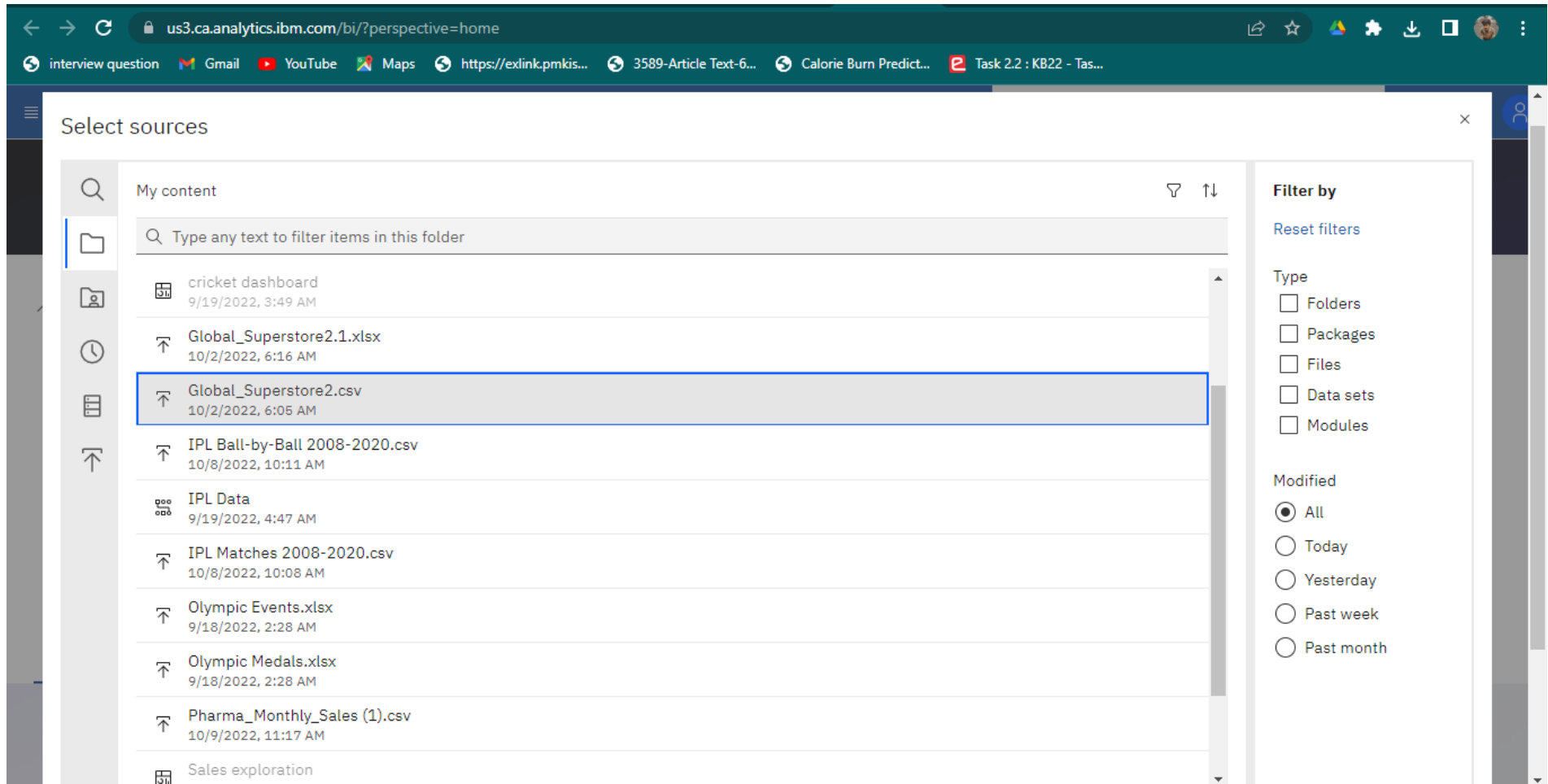
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- Select the upload the Dataset from the content menu.



- Prepare the data

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists various fields: Ship Date, Ship Mode, Customer ID, Customer Name, Segment, City, State, Country, Postal Code, Market, Region, Product ID, Category, and Sub-Category. The 'City' field is selected. The main area displays a table with the following data:

Order ID	Ship Mode	Customer ID	Customer Name	Segment	City
10131	Same Day	RH-19495	Rick Hansen	Consumer	New York City
10107	Second Class	JR-16210	Justin Ritter	Corporate	Wollongong
10118	First Class	CR-12730	Craig Reiter	Consumer	Brisbane
10130	First Class	KM-16375	Katherine Murray	Home Office	Berlin
10106	Same Day	RH-9495	Rick Hansen	Consumer	Dakar
10101	Second Class	JM-15655	Jim Mitchum	Corporate	Sydney
10109	First Class	TS-21340	Toby Swindell	Consumer	Porirua
10118	Standard Class	MB-18085	Mick Brown	Consumer	Hamilton

- REMOVE THE NULL VALUES.
- PREPARE CALCULATIONS OF YEAR, MONTH, DAY FIELDS AND ALSO THE RELATED NAVIGATION PATH.
- CREATE A FEW MORE CALCULATIONS – TARGET SALES, MIN SALES, MAX SALES, MIDDLE RANGE SALES.

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=44641012_1b979b5c07664aecb4c8cf6677f5f408_sessionTemp&objRef=&tid=44641012_1b9...

interview question Gmail YouTube Maps https://exlink.pmkis... 3589-Article Text-6... Calorie Burn Predict... Task 2.2 : KB22 - Tas...

IBM Cognos Analytics with Watson * New data module 290 Search content

Properties

Data module

Search

- Country
- Postal Code
- abc Market
- Region
- abc Product ID
- abc Category
- abc Sub-Category
- abc Product Name
- Sales**
- Quantity
- Discount
- Profit
- Shipping Cost
- abc Order Priority

Grid Relationships Custom tables

Row Id	Row ID	Order ID	Order Date	Ship Date	Ship Mode
3	25330	IN-2013-71249	2013-10-17	2013-10-18	First Class
4	13524	ES-2013-1579342	2013-01-28	2013-01-30	First Class
5	47221	SG-2013-4320	2013-11-05	2013-11-06	Same Day
6	22732	IN-2013-42360	2013-06-28	2013-07-01	Second Class
7	30570	IN-2011-81826	2011-11-07	2011-11-09	First Class
8	31192	IN-2012-86369	2012-04-14	2012-04-18	Standard Class
9	40155	CA-2014-135909	2014-10-14	2014-10-21	Standard Class
10	40936	CA-2012-116638	2012-01-28	2012-01-31	Second Class

- Create calculation to make the data prepared.

The screenshot displays the IBM Cognos Analytics with Watson web application. The browser address bar shows the URL: us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=44641012_1b979b5c07664aecb4c8cf6677f5f408_sessionTemp&objRef=8&tid=44641012_1b9.... The top navigation bar includes the IBM Cognos Analytics with Watson logo, a "New data module" button, a notification badge with "290", a search bar, and user profile icons. Below the navigation bar, a toolbar contains icons for saving, undo, redo, and other actions. The main interface is divided into three tabs: "Grid", "Relationships" (which is currently selected), and "Custom tables". On the left, a "Data module" panel shows a search bar and a list of fields from a data source named "Global_Su...tore2.csv". The fields include "Row Id", "Order ID", "Order Date", "Ship Date", "Ship Mode", "Customer ID", "Customer Name", "Segment", "City", "State", "Country", and "Postal Code". In the center, a diagram shows a data source node labeled "Global_Superstore2.csv". A context menu is open over this node, with the "Calculation..." option highlighted. Other options in the menu include "Filter...", "Table...", "Rename", "Show query information...", "Hide from users", "Remove", "Manage filters", "Auto-arrange", and "Properties". On the right side, a "Diagram settings" panel is visible, featuring a "Cardinality" toggle (which is checked), a "Focus mode" toggle (which is unchecked), and a "Degrees of separation" slider set to 1. A vertical toolbar on the far right contains icons for zooming in, zooming out, and resetting the view.

←

→

↻

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=44641012_1b979b5c07664aecb4c8cf6677f5f408_sessionTemp&objRef=&tid=44641012_1b9...

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interview questionGmailYouTubeMapshttps://exlink.pmkis...3589-Article Text-6...Calorie Burn Predict...Task 2.2 : KB22 - Tas...

name

day

Components

🔍

🔍 Search

📄

🔗

🔗

📄 Global_Sup...tore2.csv

▶ # Row Id

▶ # Row ID

▶ abc Order ID

▶ ⌚ Order Date

▶ ⌚ Ship Date

▶ abc Ship Mode

▶ abc Customer ID

▶ abc Custo... Name

▶ abc Segment

▶ 📍 City

Expression

1 day(Order_Date)

Validation Results

✔ The expression is valid.

☐ Calculate after aggregation

Cancel

OK

- Save the data module after preparing the dataset

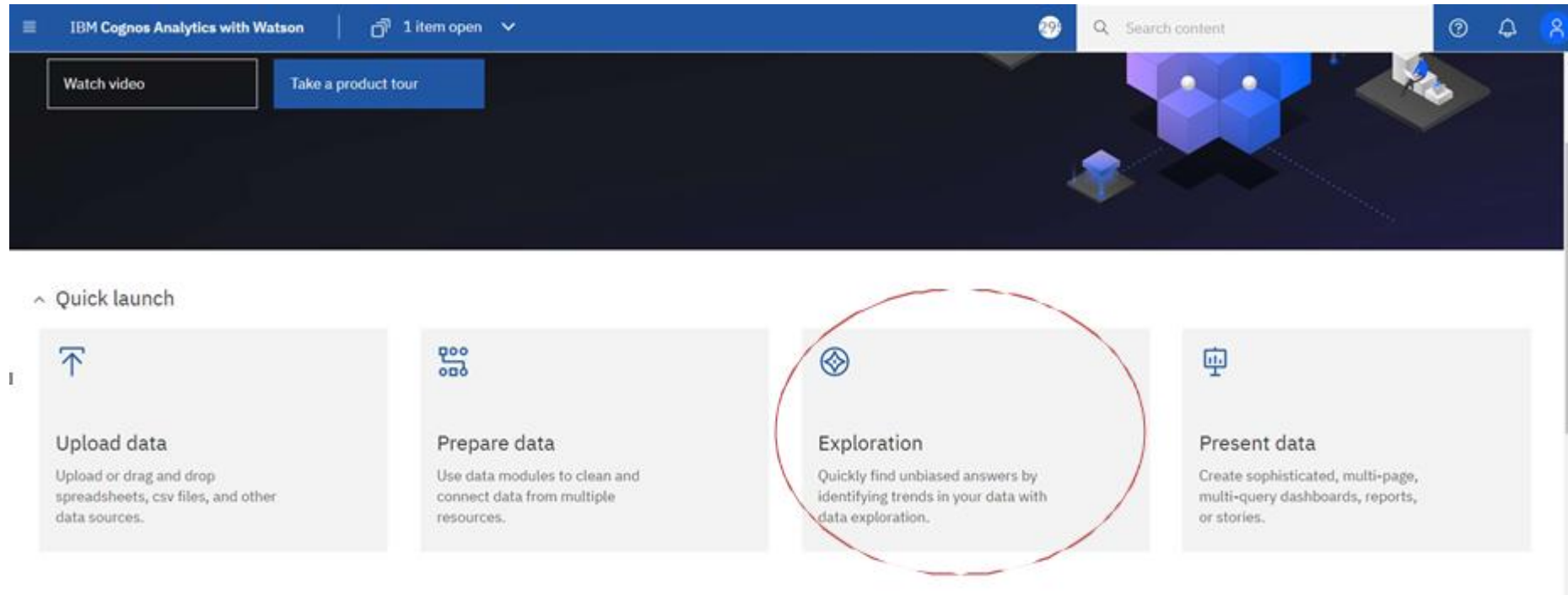
The screenshot shows the IBM Cognos Analytics web interface. The browser address bar displays the URL: us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=44641012_1b979b5c07664aecb4c8cf6677f5f408_sessionTemp&objRef=&tid=44641012_1b9.... The page header includes the text "IBM Cognos Analytics with Watson" and a search bar. A "Save as" dialog box is open in the center, with the "Name" field containing "Global Superstore module". Below the name field, it says "Selected destination: Data Modules". The dialog has two tabs: "My content" (selected) and "Team content". Under "My content", there is a breadcrumb "My content / Data Modules". A table lists the content items:

Name	Type	Last Accessed
Global Superstore data module	Data module	10/2/2022, 6:44 AM

At the bottom of the dialog are "Cancel" and "Save" buttons. The background interface shows a "Data module" list on the left with items like "Global_Su...", "# day", "# Row ID", "# Row ID", "abc Order ID", "Order D...", "Ship Da...", "abc Ship Mo...", "abc Custom...", "abc Custom...", "abc Segmen...", "City", "State", and "Country". On the right, there are "Properties" and "Diagram settings" panels.

Data Exploration:

- Click the Exploration



- Add the data module to explore

The screenshot shows the IBM Cognos Analytics web interface. The browser address bar displays `us3.ca.analytics.ibm.com/bi/?perspective=home`. The page header includes the IBM Cognos Analytics logo, a search bar, and user profile icons. A modal dialog titled "Add a data source to explore" is open, showing a list of data modules under the "My content" tab. The list includes five data modules, all of type "Data module". The background interface shows a sidebar with "Watch video", "Quick launch", and "Upload data" sections, and a main content area with a "Get started" button and a footer message "Get up and running in IBM Cognos Analytics".

us3.ca.analytics.ibm.com/bi/?perspective=home

interview question Gmail YouTube Maps https://exlink.pmkis... 3589-Article Text-6... Calorie Burn Predict... Task 2.2 : KB22 - Tas...

IBM Cognos Analytics with Watson

29 Search content

Watch video

Quick launch

Upload data

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

Get started

Get up and running in IBM Cognos Analytics

Add a data source to explore

My content Team content

My content / Data Modules

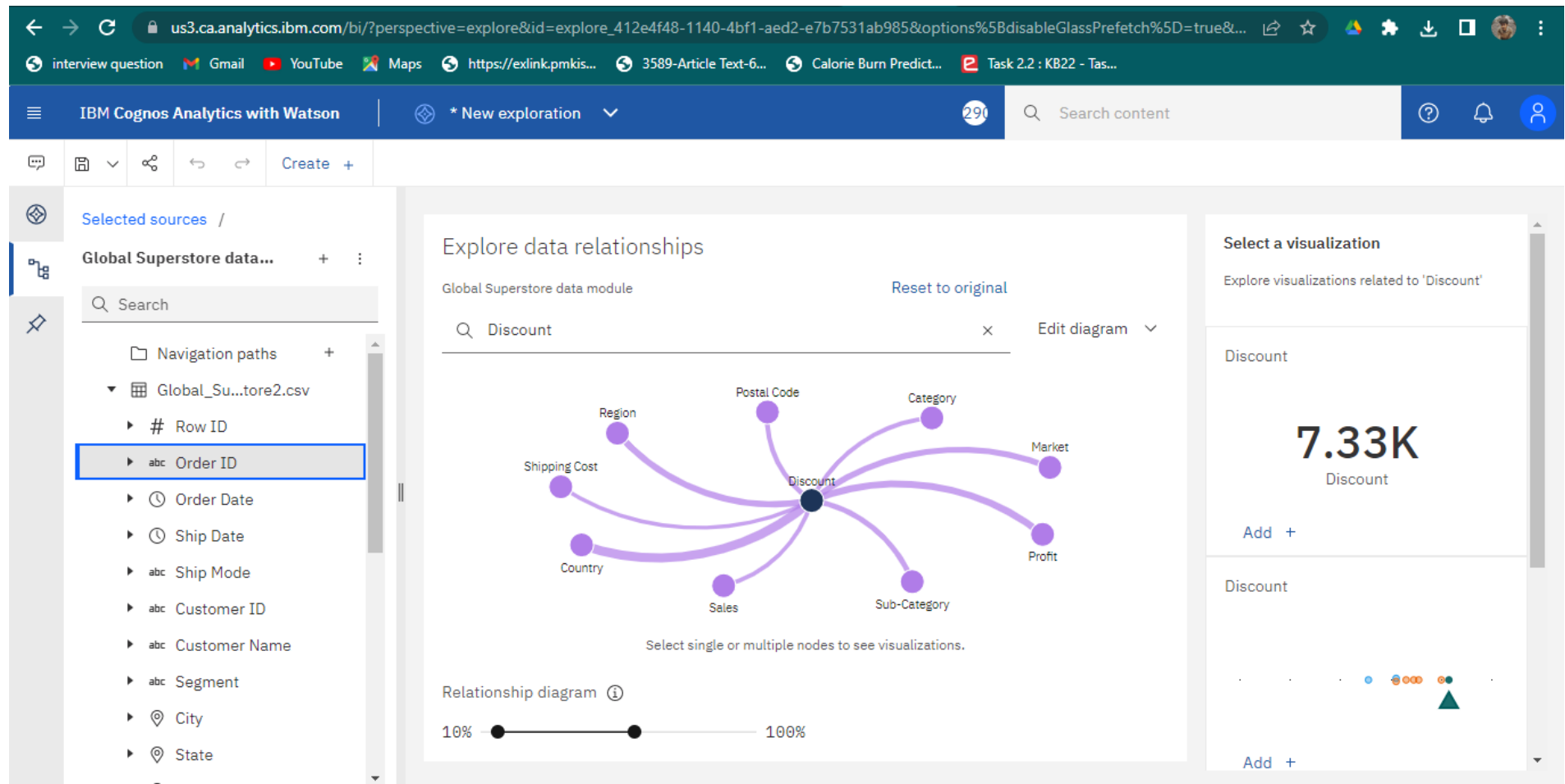
Name	Type	Last Accessed
Global Superstore data module	Data module	10/2/2022, 6:44 AM
Global Superstore module	Data module	11/19/2022, 10:10 AM
IPL data module	Data module	10/8/2022, 11:22 AM
Olympic Medals & Events data module	Data module	9/18/2022, 5:13 AM
pharma data module	Data module	10/9/2022, 11:21 AM

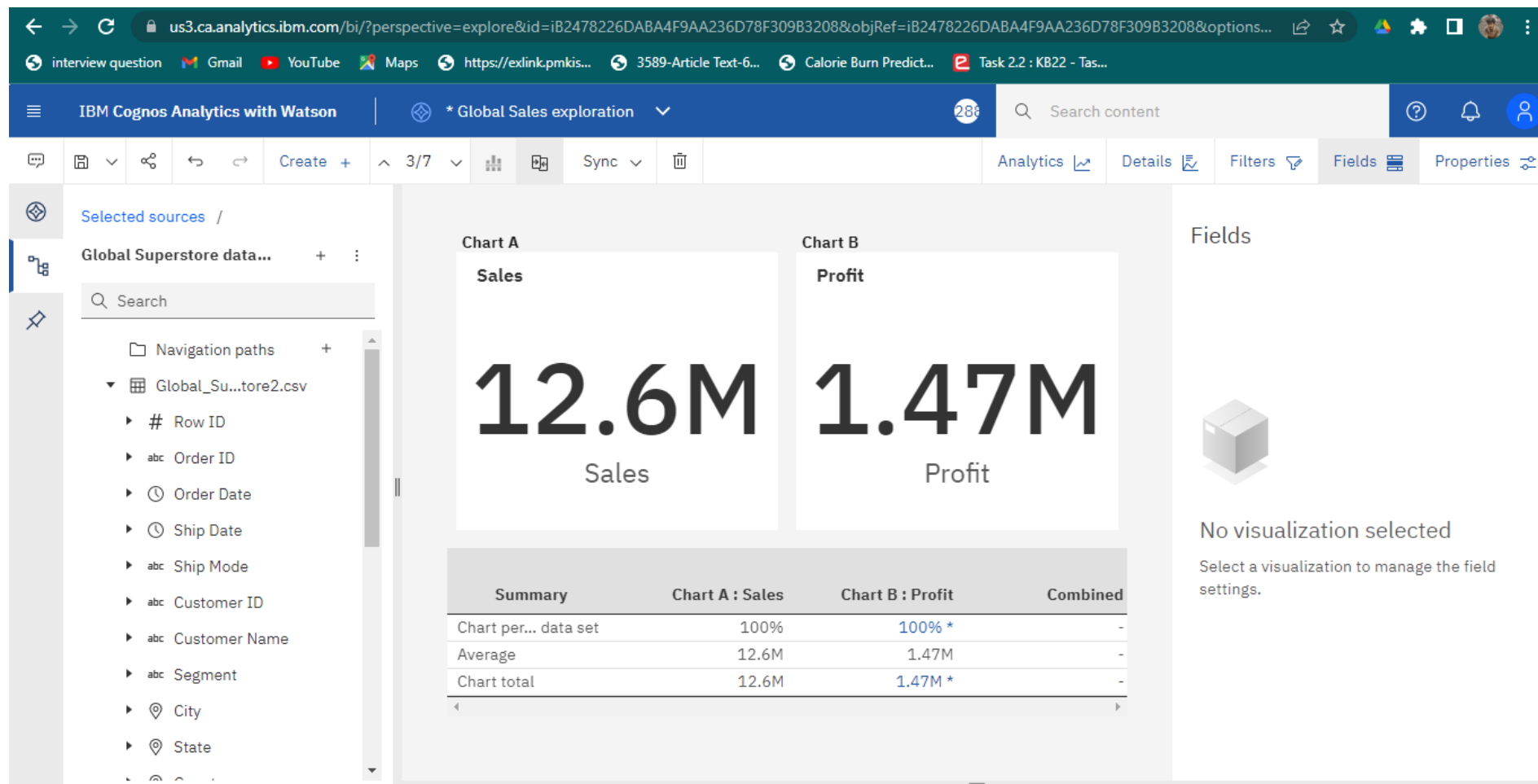
Cancel Add

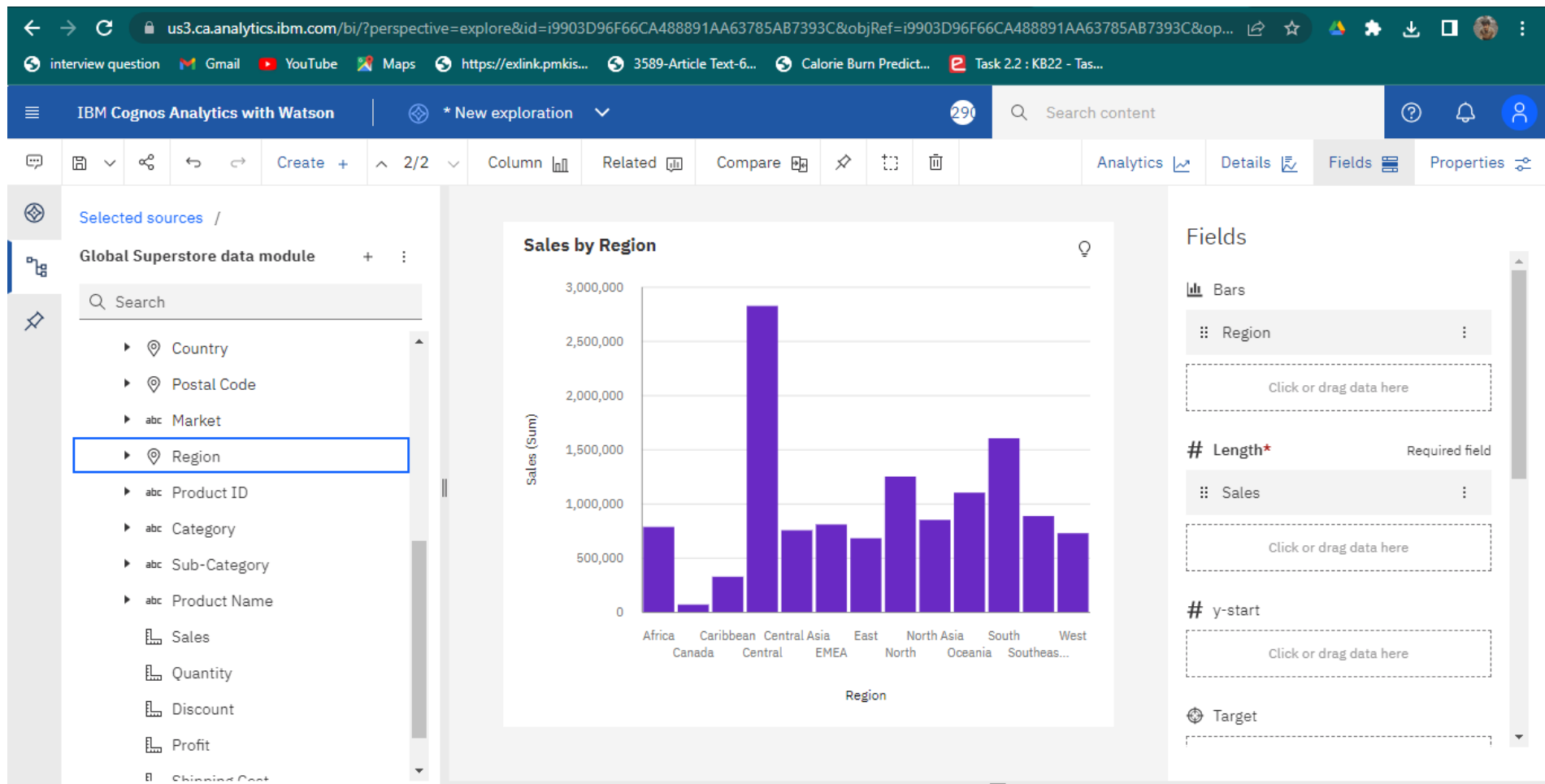
- Select the needed metric to be explored.

The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar is blue and contains the text "IBM Cognos Analytics with Watson", a "New exploration" button with a dropdown arrow, a user profile icon, and a search bar labeled "Search content". Below the navigation bar is a toolbar with icons for chat, view, zoom, undo, redo, and a "Create +" button. The main content area is divided into two sections. On the left, under the heading "Cards", there is a "Data relationships" card featuring a purple network diagram and three empty rectangular boxes. On the right, the "Select a starting point" section has a subtitle "Every exploration includes a data relationships card." and a text input field with the placeholder "Enter data column. Not sure? Try Profit, Quantity". Below this, a section titled "Try starting with one of these..." offers five buttons: "Profit", "Quantity", "Discount", "Sales", and "Shipping Cost". A "Skip" button is located in the top right corner of the main content area.

- Explore the data relationship







us3.ca.analytics.ibm.com/bi/?perspective=explore&id=i9903D96F66CA488891AA63785AB7393C&objRef=i9903D96F66CA488891AA63785AB7393C&op...

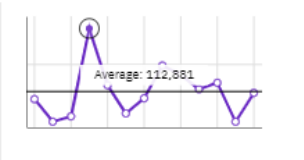
interview question Gmail YouTube Maps https://exlink.pmkis... 3589-Article Text-6... Calorie Burn Predict... Task 2.2 : KB22 - Tas...

IBM Cognos Analytics with Watson * New exploration 290 Search content ? ? ?

Analytics Details Fields Properties


Create 4/4 Packed bubble Related Compare

3




4

Region colored ... sized by Sales



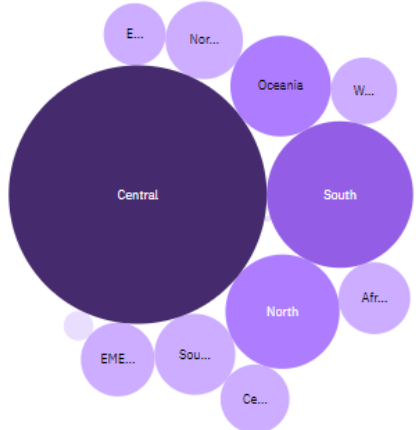
Data relationships



Region colored by Sales sized by Sales

Sales (Sum) 66,928.17 2,822,302.52

Sales (Sum) 66,928.17 2,822,302.52



Fields

Region

Click or drag data here

Size

Sales

Color

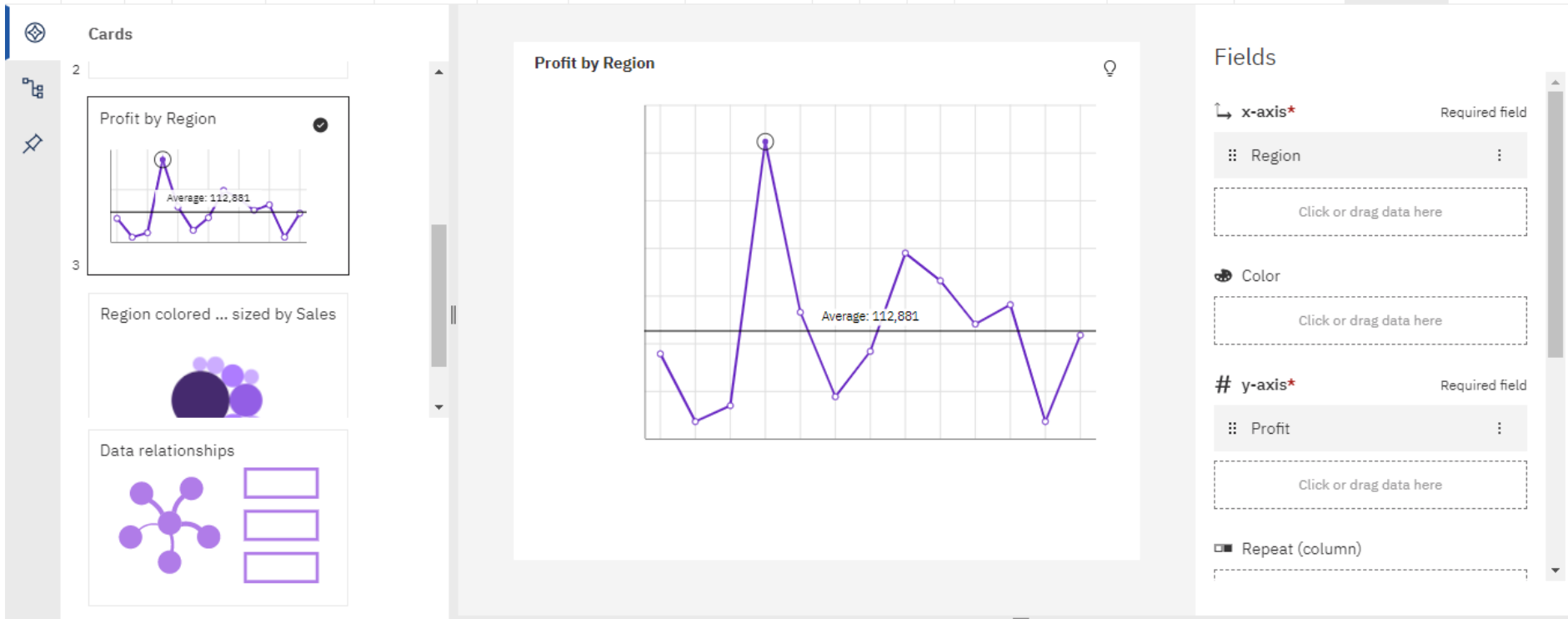
Sales

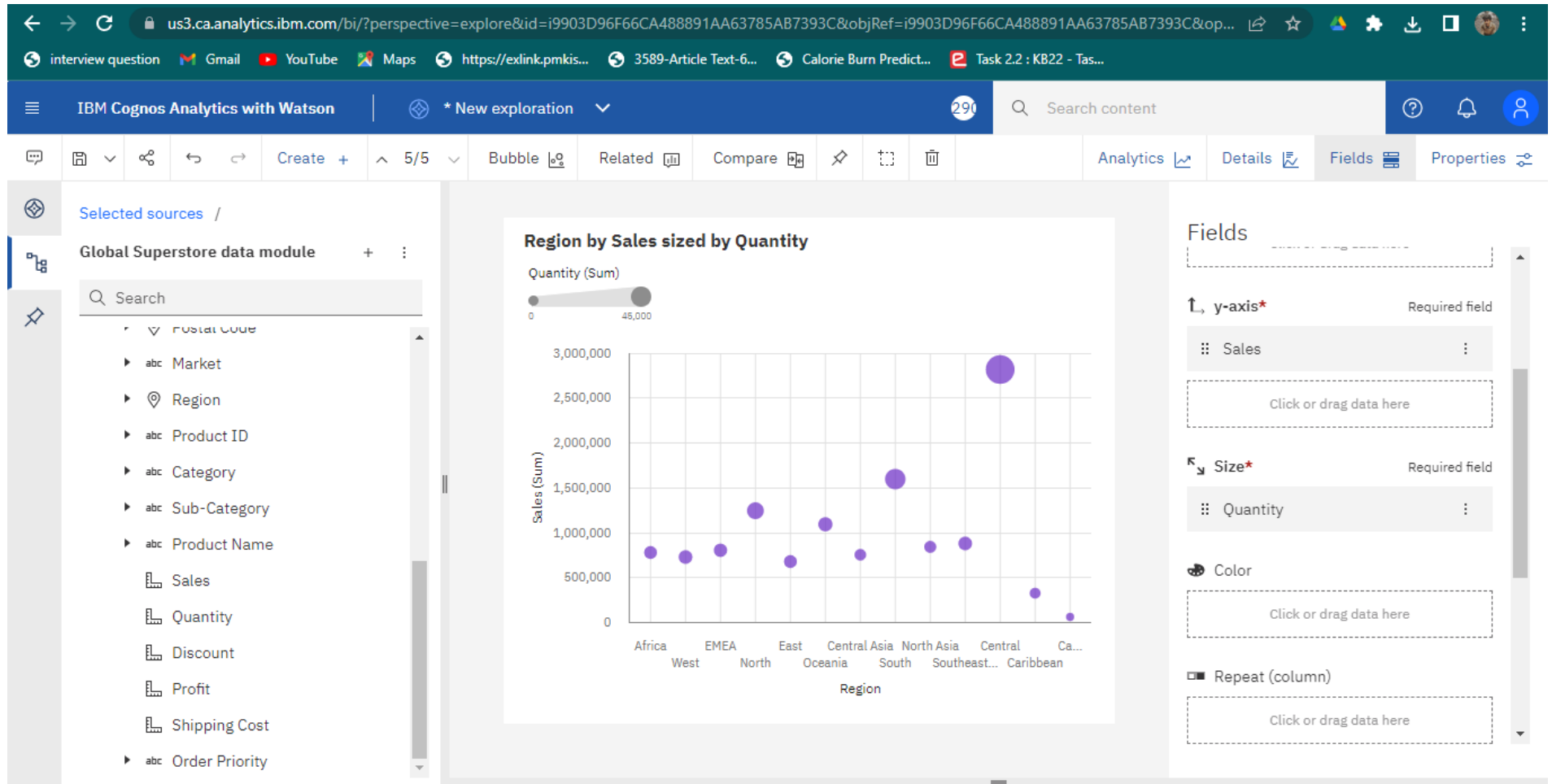
Click or drag data here

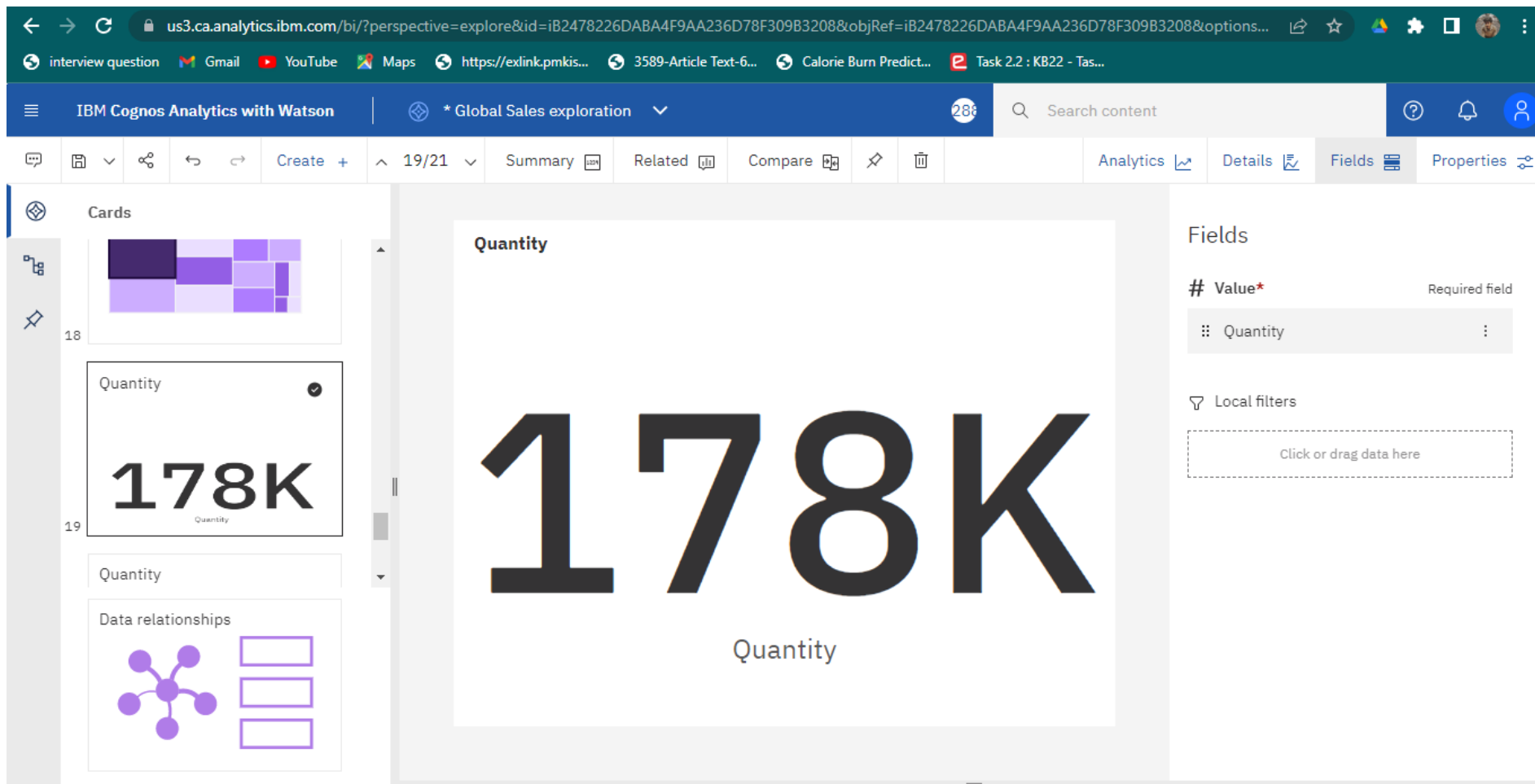
Repeat (column)

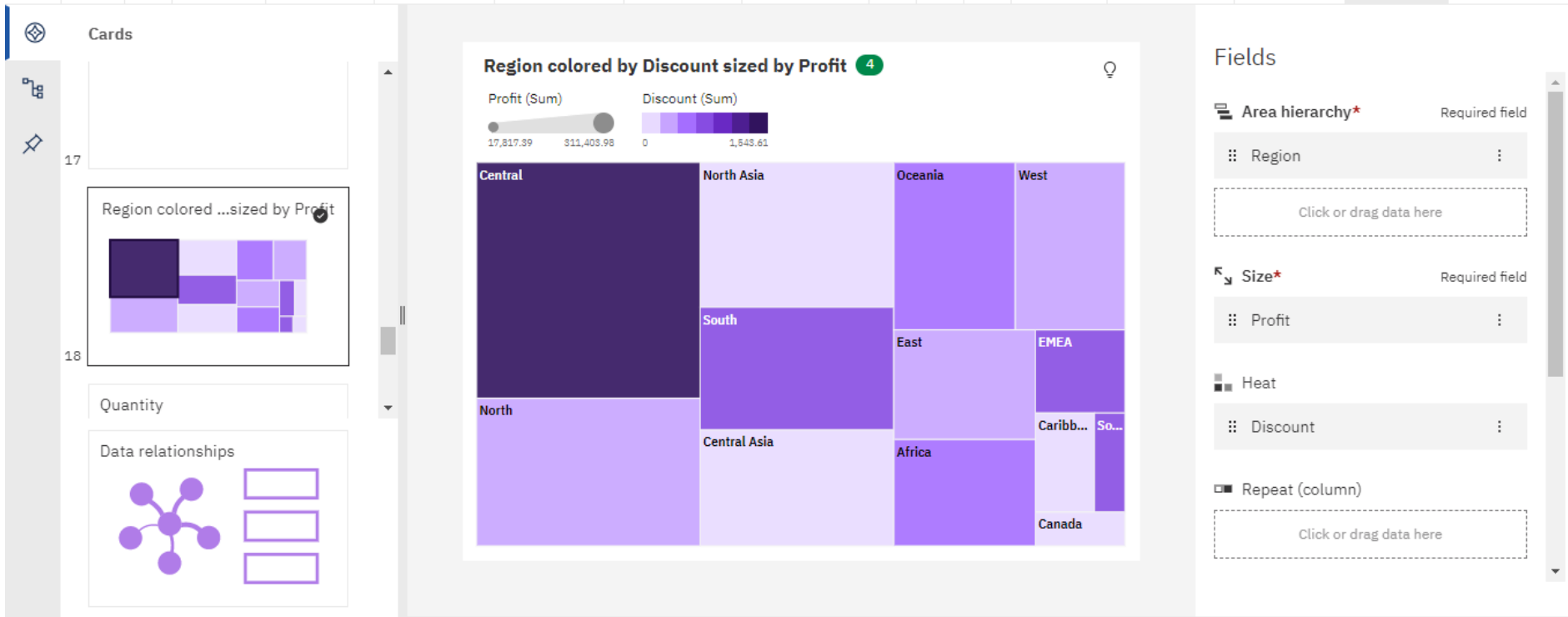
Click or drag data here

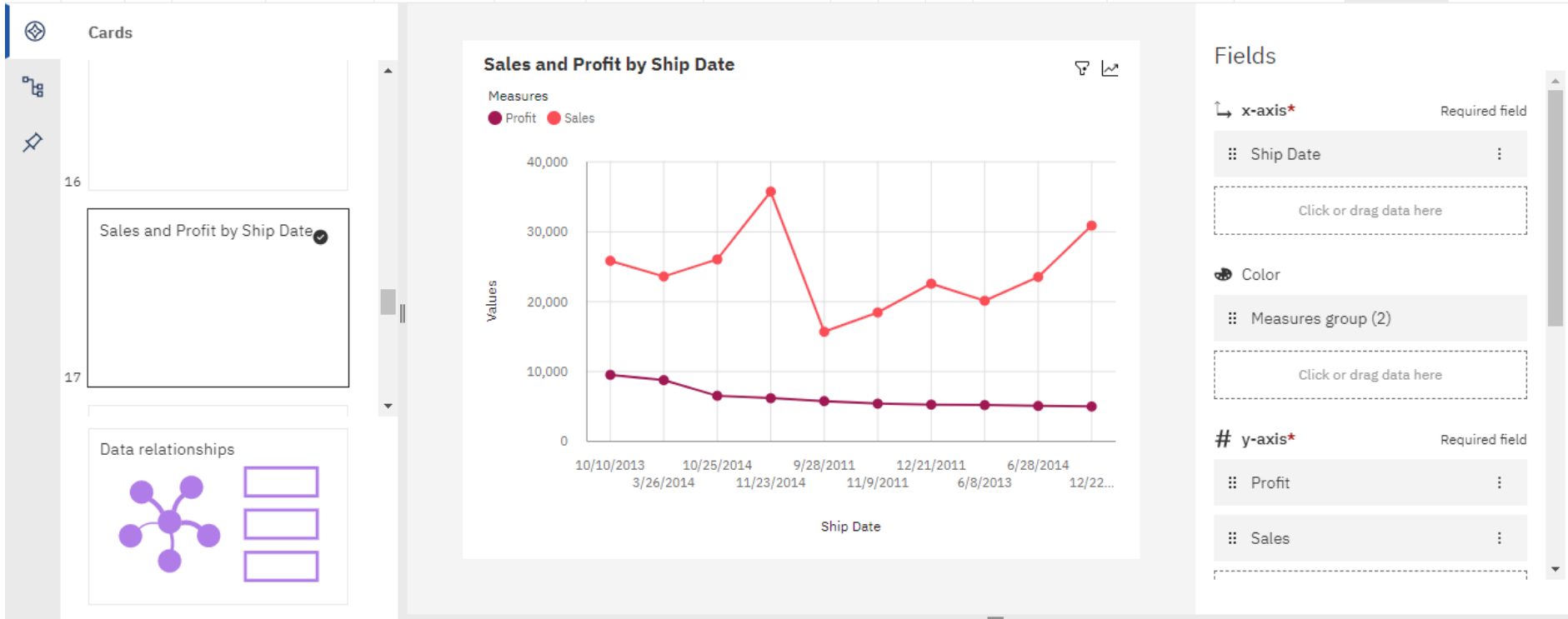
Repeat (row)











Cards

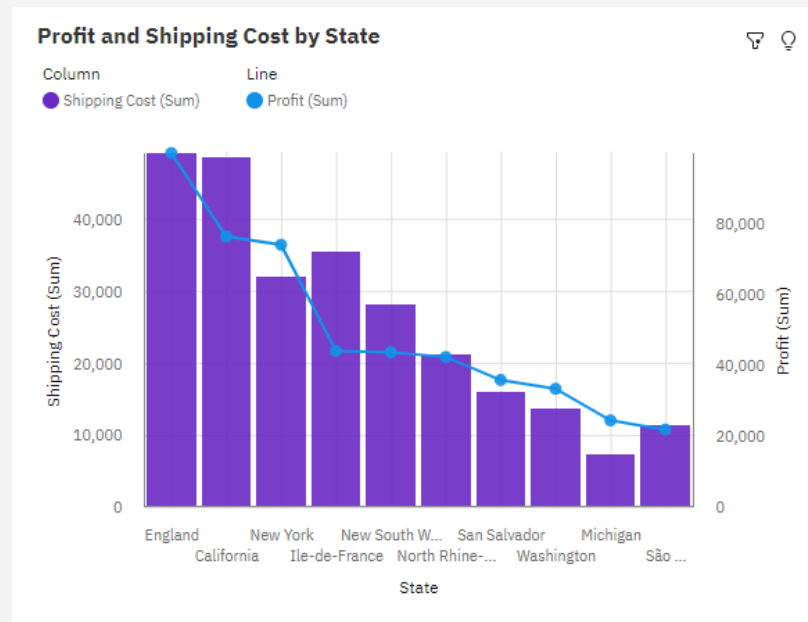

15

Profit and Ship...g Cost by State

16

Sales and Profit by Ship Date

Data relationships



Fields

x-axis

State

Click or drag data here

Column length* Required field

Shipping Cost

Click or drag data here

Column color

Click or drag data here

Line position* Required field

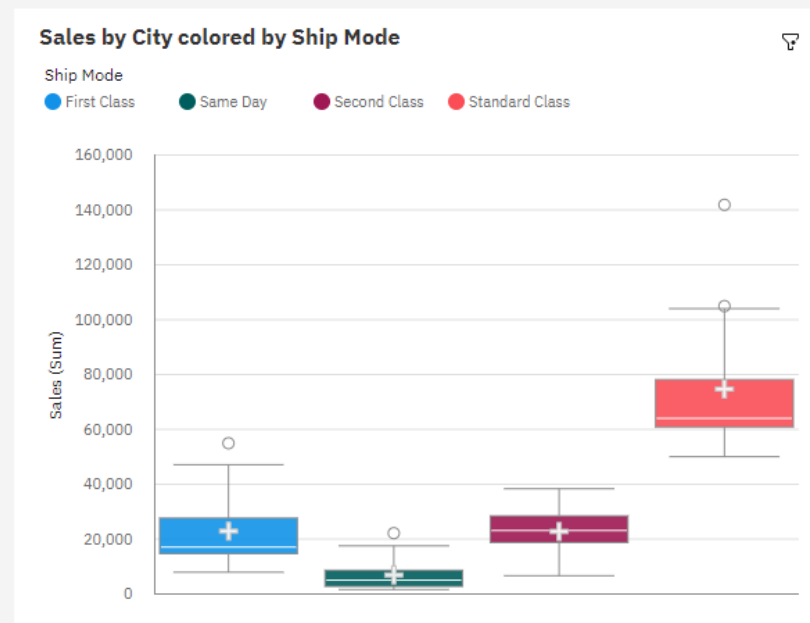


Cards

13 Sales by City c...d by Ship Mode

14 Shipping Cost by Ship Mode

Data relationships



Fields

x-axis

Click or drag data here

y-axis* Required field

Sales

Click or drag data here

Color

Ship Mode

Click or drag data here

Key

Cards

12

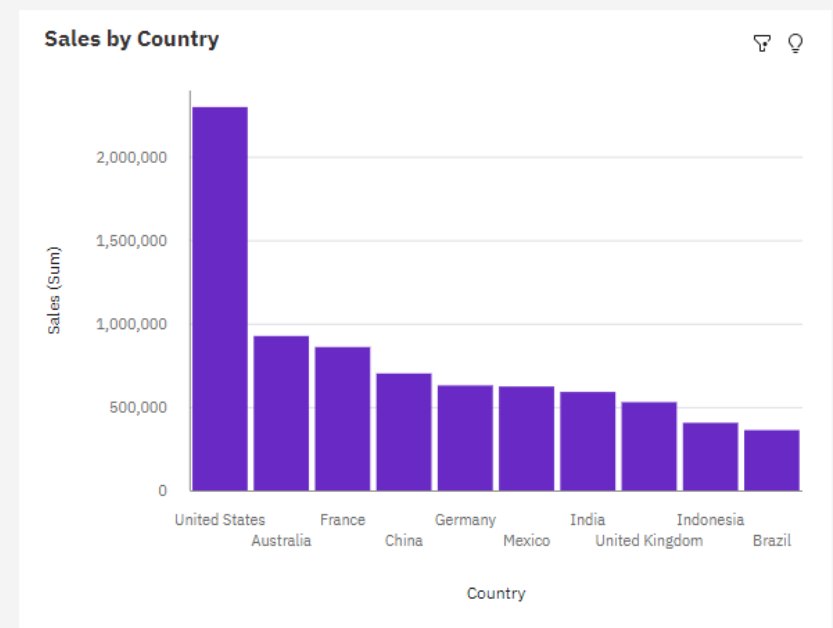
Sales by Country	2,000,000	1,500,000	1,000,000	500,000	0
United States	2,000,000				
Australia	1,000,000				
France	900,000				
China	700,000				
Germany	650,000				
Mexico	650,000				
India	600,000				
United Kingdom	550,000				
Indonesia	400,000				
Brazil	350,000				

13

Sales by Country

Discount for Sales

Data relationships



Fields

Bars

Country

Click or drag data here

Length* Required field

Sales

Click or drag data here

Color

Click or drag data here

Repeat (column)

1

Sales / Profit

12.6M 1.47M

Sales Profit

Sales by Region

Data relationships

Sales and Quantity for Ship Date

	Sales	Quantity
11/22/2014	31,078.09	529
12/22/2013	30,804.91	260
12/3/2014	29,256.88	326
11/16/2014	29,017.2	357
12/19/2014	27,355.16	337
12/7/2014	26,731.73	396
9/27/2014	26,381.23	299
10/25/2014	25,968.32	225
3/23/2011	25,869.72	81
Summary	288,131.97	3,125


Fields

No visualization selected

Select a visualization to manage the field settings.

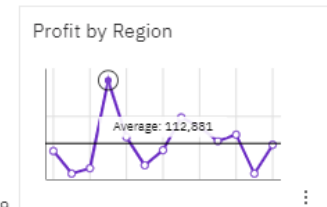
Cards

Sales by Order Priority



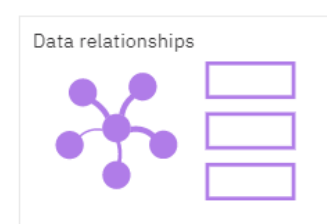
8

Profit by Region



9

Data relationships





Fields

x-axis

Order Priority

Click or drag data here

Color

Click or drag data here


y-axis* Required field


Sales

Repeat (column)

Click or drag data here


Cards




6 

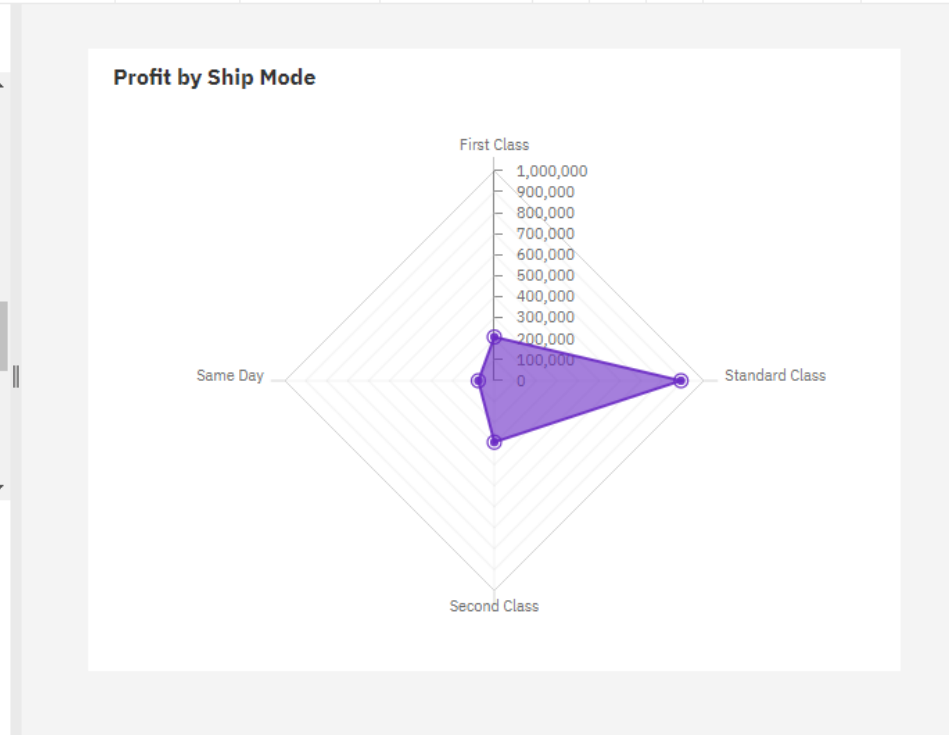
Profit by Ship Mode 

7

Profit by Region

Data relationships 



Fields

x-axis

Ship Mode

Click or drag data here

Color

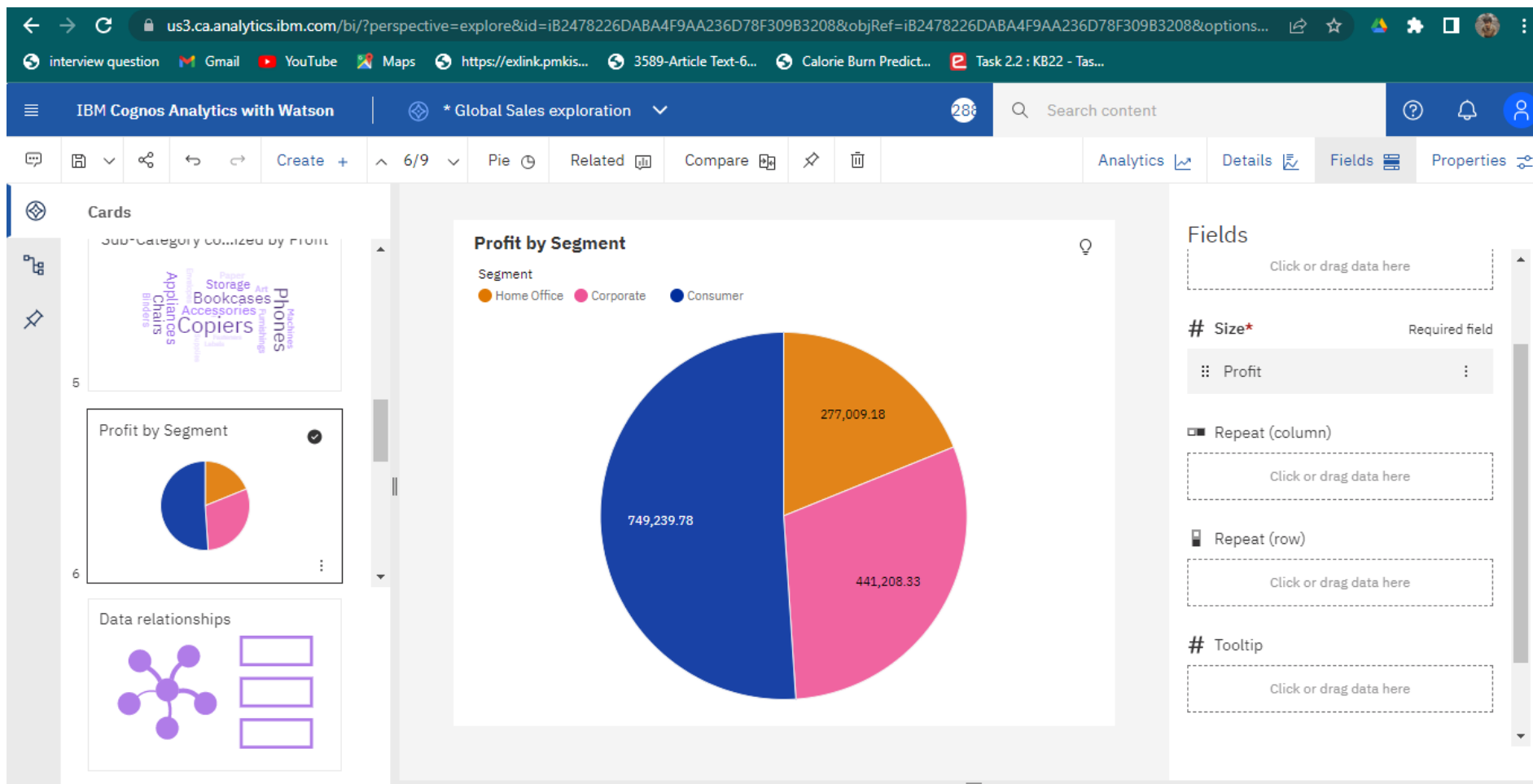
Click or drag data here

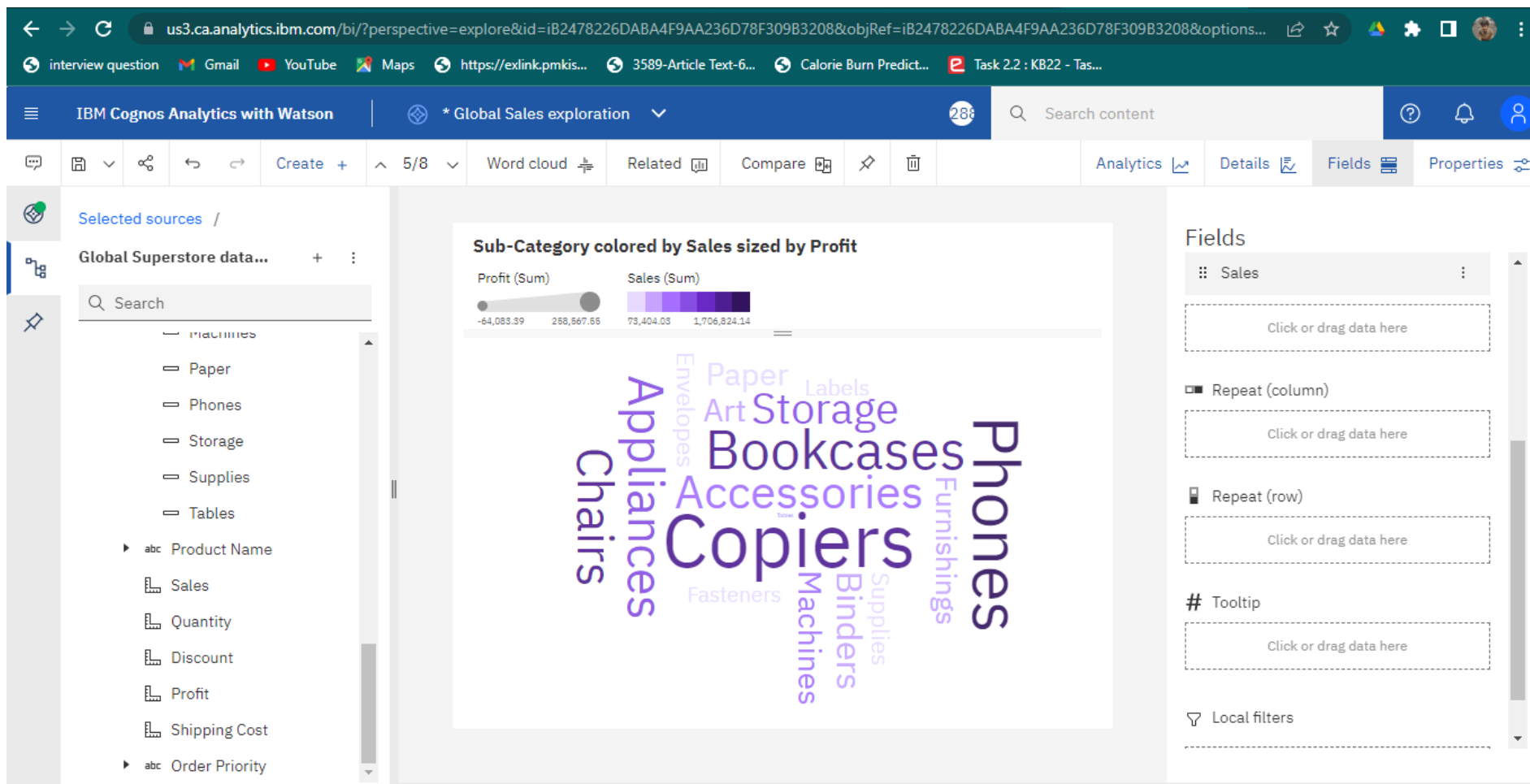
y-axis* Required field

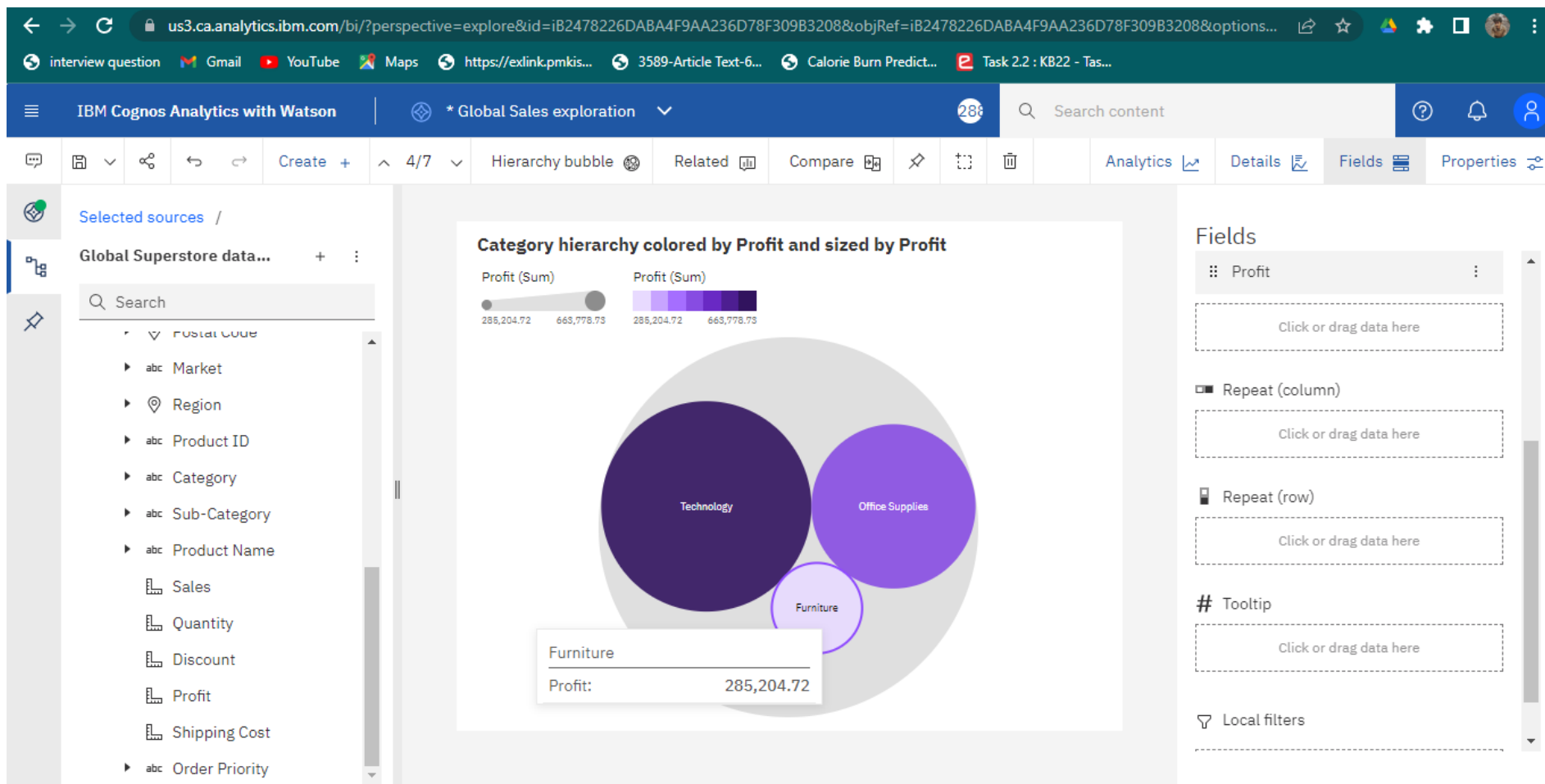
Profit

Repeat (column)

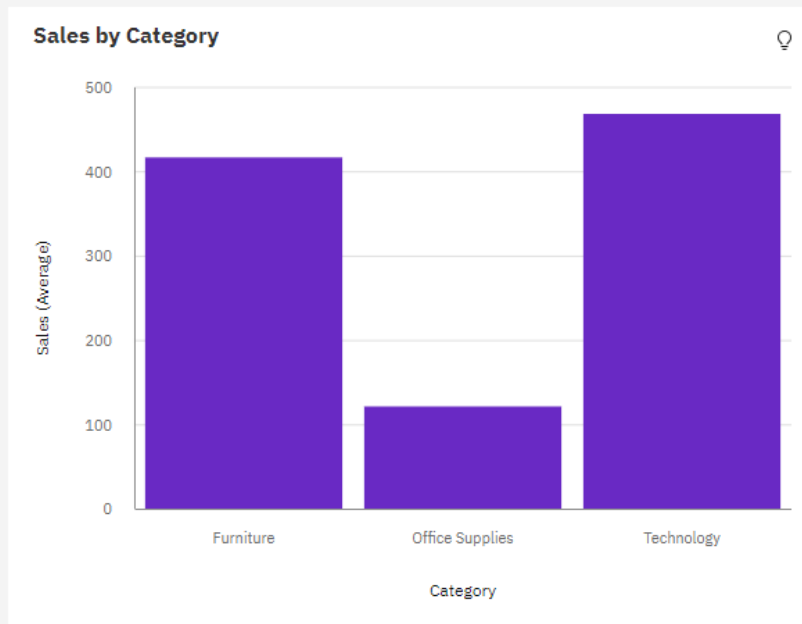
Click or drag data here







Selected sources /
Global Superstore data... + :
Search
Country
Postal Code
Market
Region
Product ID
Category
Sub-Category
Product Name
Sales
Quantity
Discount
Profit
Shipping Cost



Fields

Bars

Category

Click or drag data here

Length* Required field

Sales

Click or drag data here

y-start

Click or drag data here

Target

➤ SAVE THE EXPLORATION

The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the title 'IBM Cognos Analytics with Watson', a dropdown menu showing '* global sales data cleaned', a search bar, and user profile icons. The main workspace is divided into three tabs: 'Grid', 'Relationships', and 'Custom tables'. The 'Grid' tab is active, showing a data module named 'Global_Superstore2.csv'. A context menu is open over this module, listing options such as 'New', 'Calculation...', 'Filter...', 'Table...', 'Rename', 'Show query information...', 'Hide from users', 'Remove', 'Manage filters', 'Auto-arrange', and 'Properties'. The 'New' option is highlighted. On the left, a 'Data module' panel lists various fields like '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'. On the right, a 'Diagram settings' panel shows options for 'Cardinality' and 'Focus mode', along with a 'Degrees of separation' slider set to 1. A vertical toolbar on the far right contains icons for search, undo, and redo.

Exploration link: https://us3.ca.analytics.ibm.com/bi/?perspective=explore&pathRef=.my_folders%2FGlobal%2BSales%2Bexploration&subView=model000001849e664c4d_00000000