

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:

- 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...

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

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nanthu032@gmail.com
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Data preparation:

- Click the prepare data

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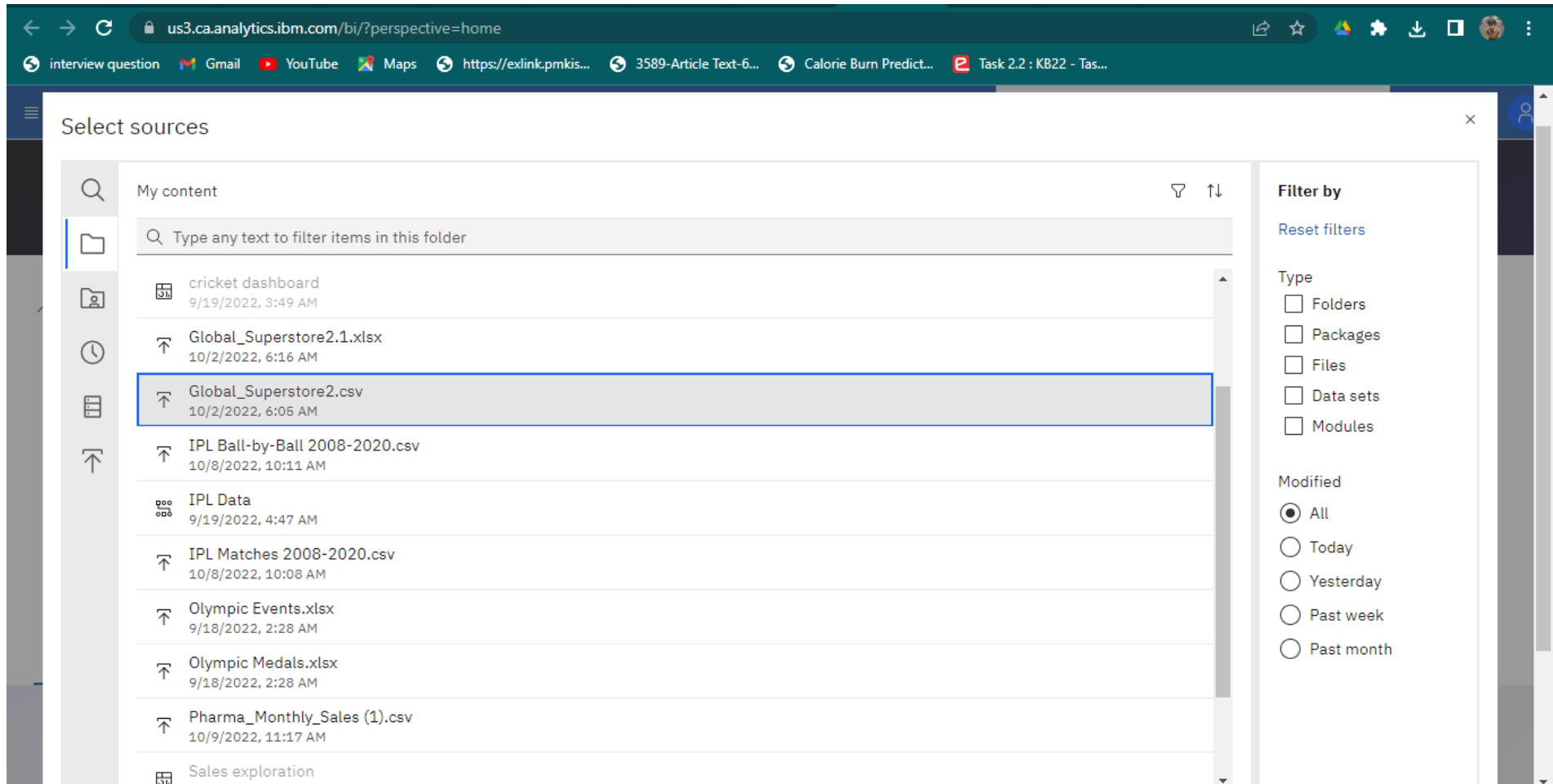
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- Select the upload the Dataset from the content menu.



- Preparation of data

The screenshot displays the IBM Cognos Analytics web interface. The browser address bar shows the URL: us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=44641012_1b979b5c07664aecb4c8cf6677f5f408_sessionTemp&objRef=&tid=44641012_1b9.... The page title is "IBM Cognos Analytics with Watson". The main navigation bar includes a search bar and a "New data module" button. The left sidebar shows a "Data module" list with 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 content area displays a table with the following data:

Order ID	Ship Mode	Customer ID	Customer Name	Segment	City
1-31	Same Day	RH-19495	Rick Hansen	Consumer	New York City
1-07	Second Class	JR-16210	Justin Ritter	Corporate	Wollongong
1-18	First Class	CR-12730	Craig Reiter	Consumer	Brisbane
1-30	First Class	KM-16375	Katherine Murray	Home Office	Berlin
1-06	Same Day	RH-9495	Rick Hansen	Consumer	Dakar
1-01	Second Class	JM-15655	Jim Mitchum	Corporate	Sydney
1-09	First Class	TS-21340	Toby Swindell	Consumer	Porirua
1-18	Standard Class	MB-18085	Mick Brown	Consumer	Hamilton

- Once you load the data, we need to prepare the data.

- 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.

The screenshot shows the IBM Cognos Analytics interface. The top navigation bar includes the IBM Cognos Analytics with Watson logo, a search bar, and a user profile icon. The main content area displays a data module with a grid view of sales data. The left sidebar shows a list of data fields, including Country, Postal Code, Market, Region, Product ID, Category, Sub-Category, Product Name, Sales, Quantity, Discount, Profit, Shipping Cost, and Order Priority. The grid view shows a table with columns: Row Id, Row ID, Order ID, Order Date, Ship Date, and Ship Mode. The table contains 10 rows of data.

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 DATE 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=&tid=44641012_1b9.... The top navigation bar includes the IBM Cognos Analytics with Watson logo, a search bar, and a user profile icon. The main interface is divided into three tabs: Grid, Relationships, and Custom tables. The Relationships tab is active, showing a diagram with a data module named 'Global_Su...tore2.csv'. A context menu is open over this data module, listing options: New, Calculation..., Filter..., Table..., Rename, Show query information..., Hide from users, Remove, Manage filters, Auto-arrange, and Properties. The 'Calculation...' option is highlighted. On the left, a 'Data module' panel lists fields: Row Id, Order ID, Order Date, Ship Date, Ship Mode, Customer ID, Customer Name, Segment, City, State, Country, and Postal Code. On the right, a 'Diagram settings' panel shows options for Cardinality (checked), Focus mode (unchecked), and Degrees of separation (set to 1).

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

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

CancelOK

- Save the data module after preparing the dataset

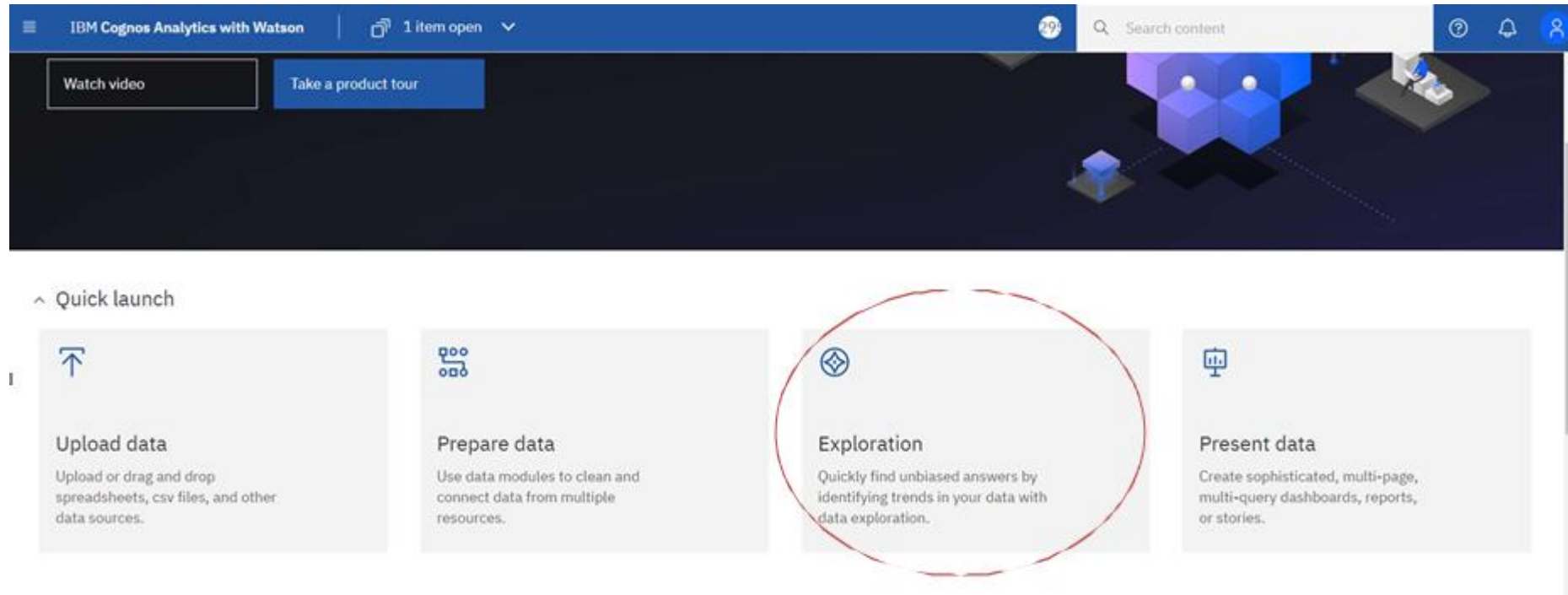
The screenshot shows the IBM Cognos Analytics web interface. The browser address bar displays the URL: us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=44641012_1b979b5c07664aecb4c8cf6677f5f408_sessionTemp&objRef=&tid=44641012_1b9.... The page title is "IBM Cognos Analytics with Watson". The main navigation bar includes a search bar and a "New data module" button. The left sidebar shows a "Data module" section with a search bar and a list of modules, including "Global Superstore module". The "Save as" dialog box is open, showing the "Name" field with the text "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 data modules:

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

At the bottom of the dialog, there are "Cancel" and "Save" buttons. The right sidebar shows "Properties" and "Diagram settings" sections.

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: "Global Superstore data module", "Global Superstore module", "IPL data module", "Olympic Medals & Events data module", and "pharma data module". Each module is listed with its name, type (Data module), and last accessed date. The dialog has "Cancel" and "Add" buttons at the bottom.

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

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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 includes the product name, a 'New exploration' button, a search bar, and user profile icons. Below the navigation bar, a sidebar on the left contains a 'Cards' section with a 'Data relationships' icon and a diagram of interconnected nodes. The main content area is titled 'Select a starting point' and includes a 'Skip' button. It provides instructions: 'Every exploration includes a data relationships card.' and 'Start with any column. You can always change it later.' A search bar prompts the user to 'Enter data column. Not sure? Try Profit, Quantity'. Below this, a section titled 'Try starting with one of these...' offers five selectable options: Profit, Quantity, Discount, Sales, and Shipping Cost.

IBM Cognos Analytics with Watson | * New exploration

29 Search content

Cards

Data relationships

Select a starting point

Every exploration includes a data relationships card.

Skip

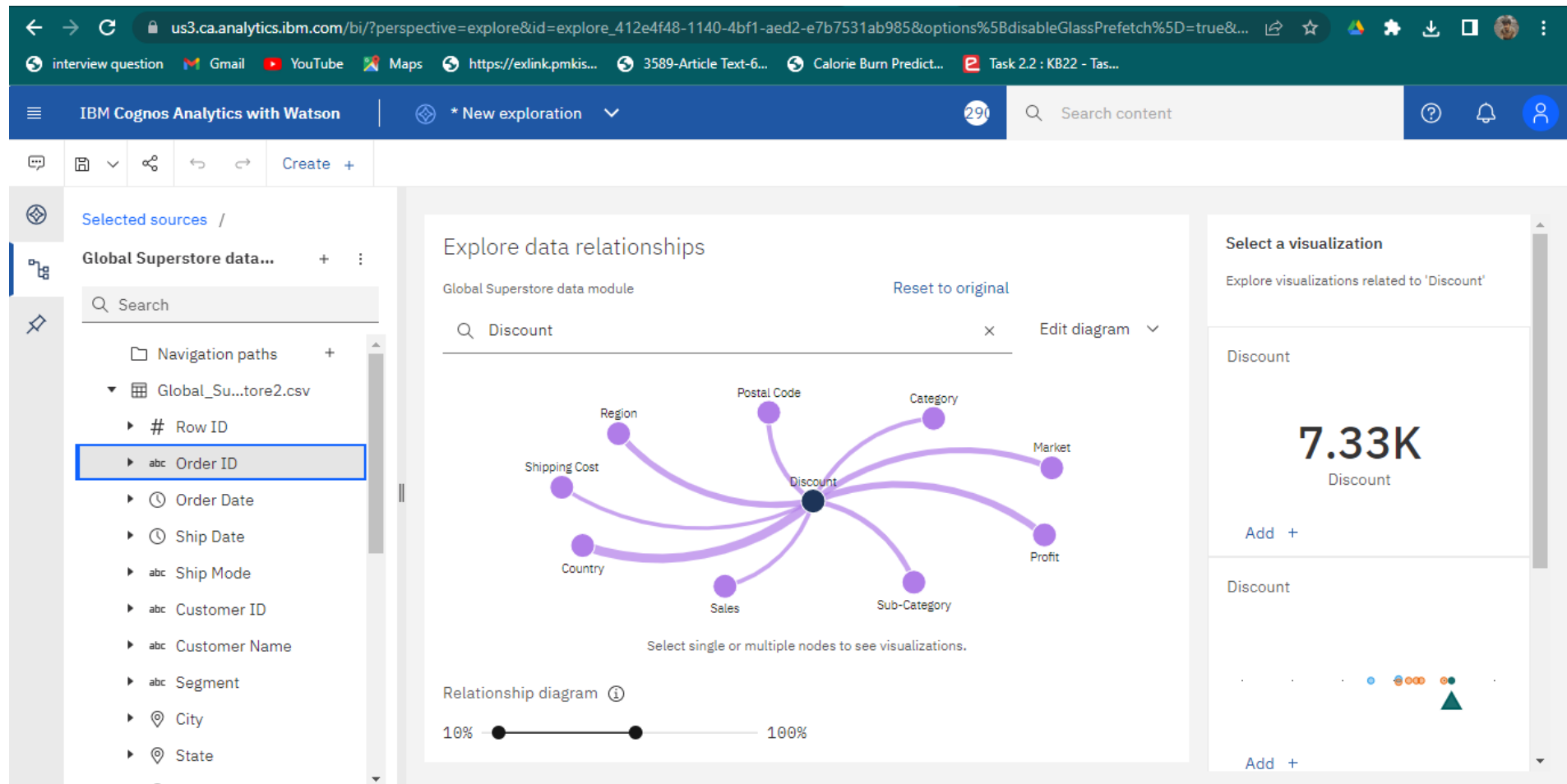
Start with any column. You can always change it later.

Enter data column. Not sure? Try Profit, Quantity

Try starting with one of these...

Profit Quantity Discount Sales Shipping Cost

- EXPLORE THE DATA RELATIONSHIPS



us3.ca.analytics.ibm.com/bi/?perspective=explore&id=explore_412e4f48-1140-4bf1-aed2-e7b7531ab985&options%5BdisableGlassPrefetch%5D=true&...

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

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Search content

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↶

↷

Create +

1/1

Summary

Related

Compare

✂️

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Analytics

Details

Fields

Properties


Cards

Sales

12.6M

1

Data relationships



Sales

12.6M

Sales

Fields

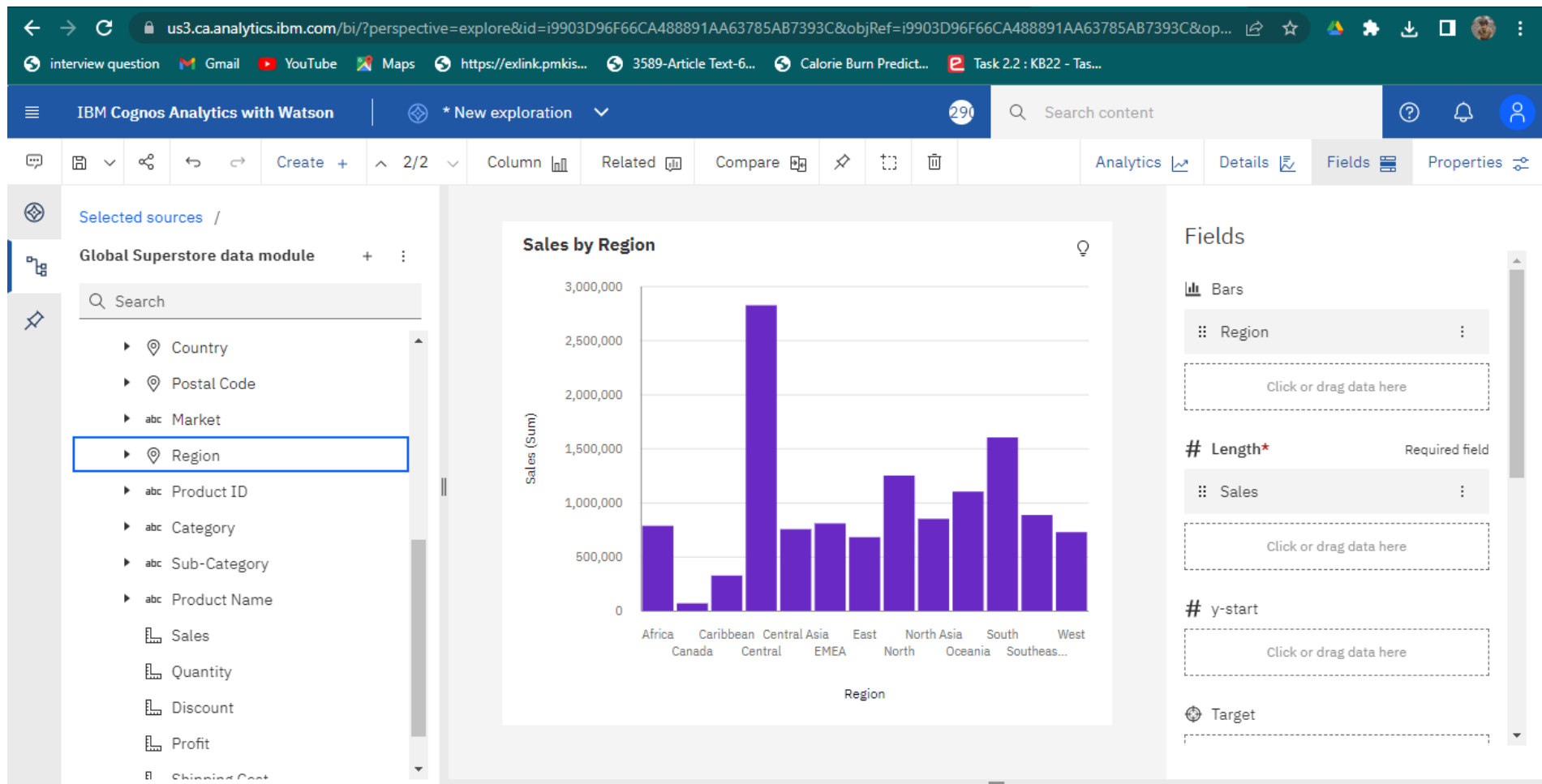
Value* Required field

Sales

⋮

Local filters

Click or drag data here



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

4/4 Packed bubble Related Compare

3

Average: 112,881

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

Central South North Afr... Oceania W... Nor... EME... Sou... Ce...

Fields

Region

Size

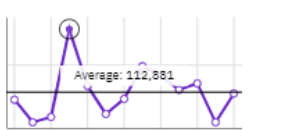
Sales

Color

Sales

Repeat (column)

Repeat (row)



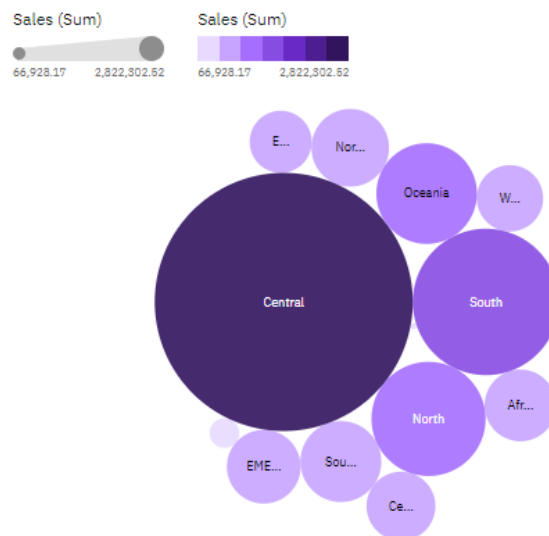
Region colored ... sized by Sales



Data relationships



Region colored by Sales sized by Sales



Fields

Region

Click or drag data here

Size

Sales

Color

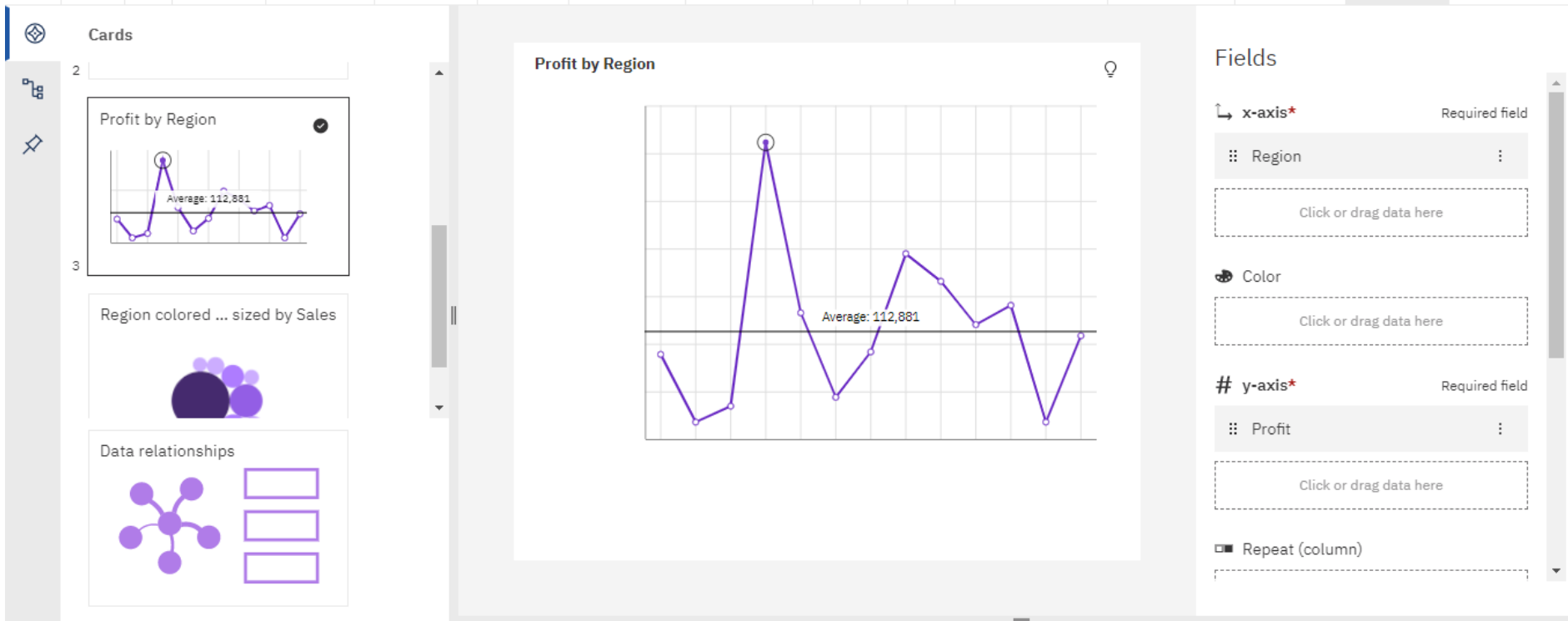
Sales

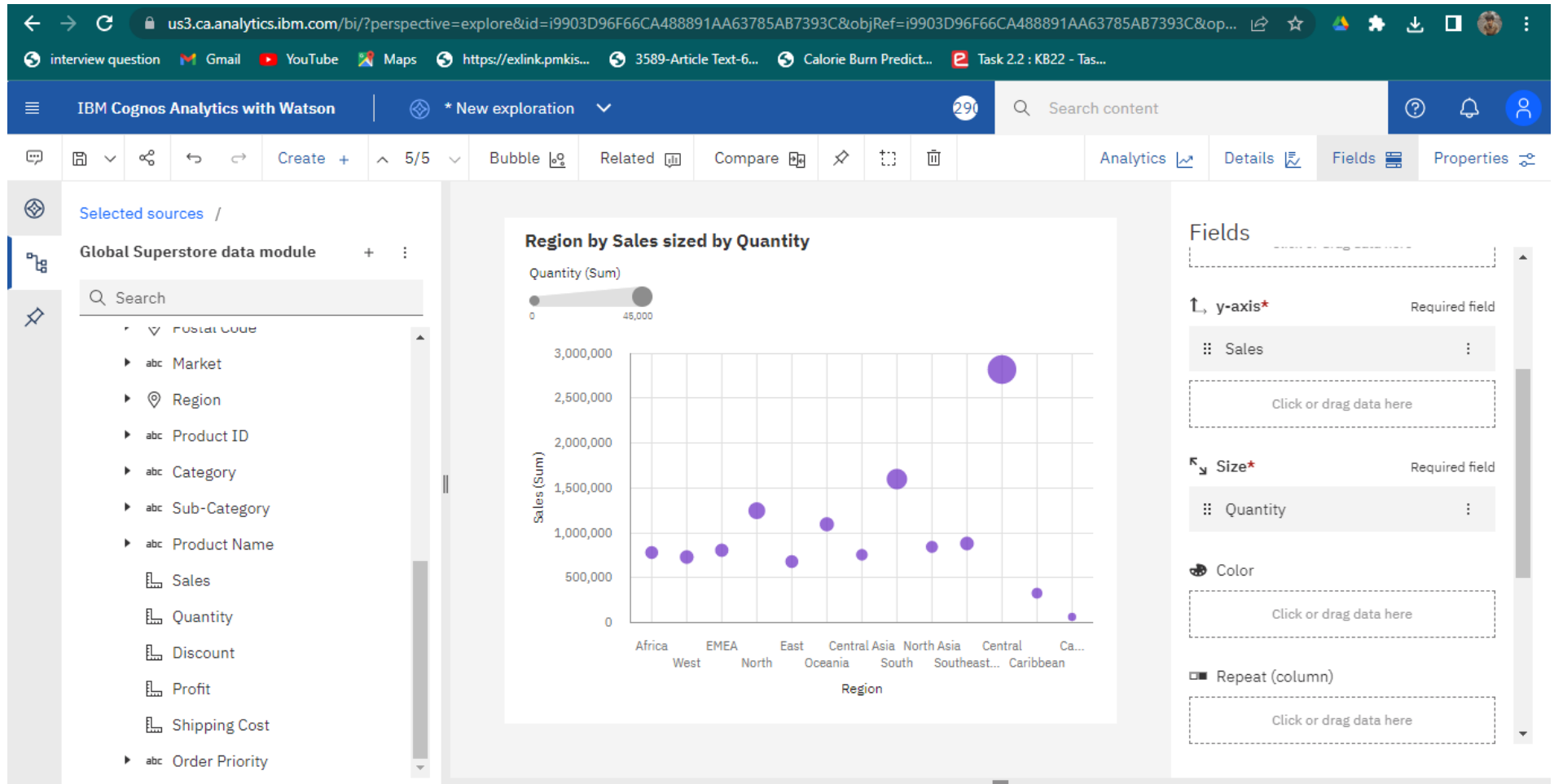
Click or drag data here

Repeat (column)

Click or drag data here

Repeat (row)





➤ SAVE THE EXPLORATION

The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the application name, a dropdown menu for the current exploration titled '* global sales data cleaned', a search bar, and user profile icons. Below the navigation bar, a toolbar contains icons for saving, sharing, and other actions. The main workspace is divided into three panes: a left-hand 'Data module' pane, a central 'Relationships' pane, and a right-hand 'Diagram settings' pane.

The 'Data module' pane on the left shows a tree view of the data source 'Global_Superstore2.csv'. It lists various fields such as '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 specific product identifiers: 'FUR-ADV...000002', 'FUR-ADV...000108', and 'FUR-ADV...000183'.

The central 'Relationships' pane displays a diagram with a single node labeled 'Global_Superstore2.csv'. A context menu is open over this node, offering several options: 'New' (with sub-options 'Calculation...', 'Filter...', and 'Table...'), 'Rename', 'Show query information...', 'Hide from users', 'Remove', 'Manage filters', 'Auto-arrange', and 'Properties'. The 'Calculation...' option is highlighted.

The right-hand 'Diagram settings' pane contains configuration options for the diagram. It includes a 'Cardinality' toggle (which is turned on), a 'Focus mode' toggle (which is turned off), and a 'Degrees of separation' slider set to 1. A vertical toolbar on the far right of the workspace contains icons for zooming in, zooming out, and a search icon.