

PROJECT DEVELOPMENT PHASE

DELIVERY OF SPRINT - 2

Date	05 Nov 2022
Team ID	PNT2022TMID15445
Project Name	Global Sales Data Analytics

• DATA PREPARATION PHASE


1. Open IBM Cognos Dashboard

IBM Cognos Analytics with Watson

30°


Search content

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 exploration.



Present data

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

Get started


Recent

Get up and running in IBM Cognos Analytics

How-to videos

Learn how to use IBM Cognos Analytics and start gaining insights into your data.

[Watch videos](#)



Accelerator Catalog

Browse a growing catalog of industry use, best practice guides, custom visualizations, and more.

[Browse catalog](#)

Learning resources

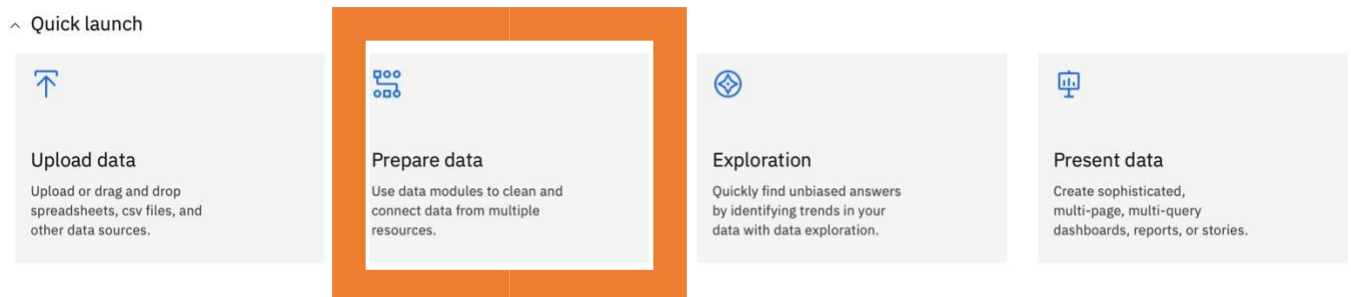
Expand your knowledge and get assistance by connecting with the community, reading documentation, and watching videos.

[Launch the learn pane](#)

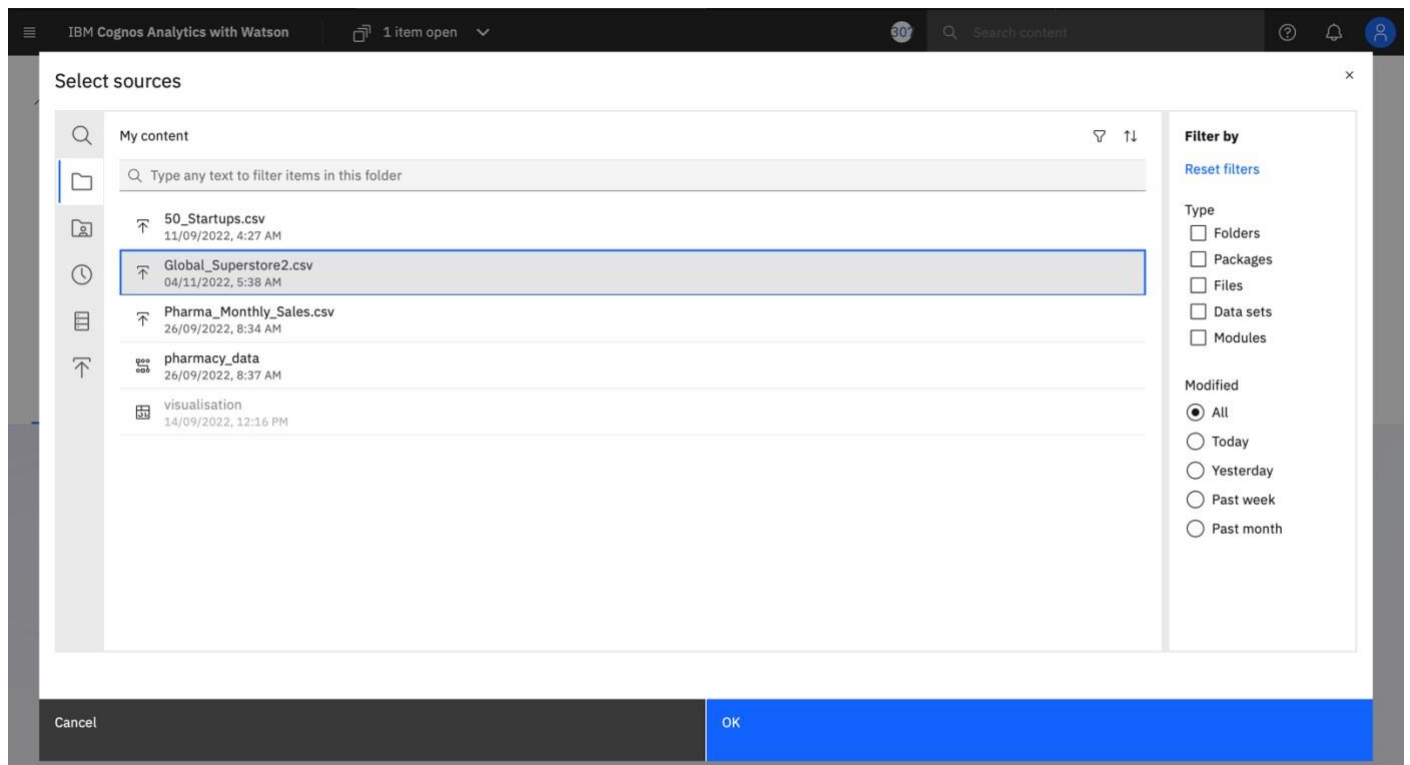
Preparation phase:

Once the Dataset is uploaded into the IBM Cognos dashboard, we need to prepare the dataset. The data preparation includes cleaning up the data, removing the null values, removing the duplicate values, structuring the data so that the data is well understood for exploration and analysis

2. Click on the Prepare Data option

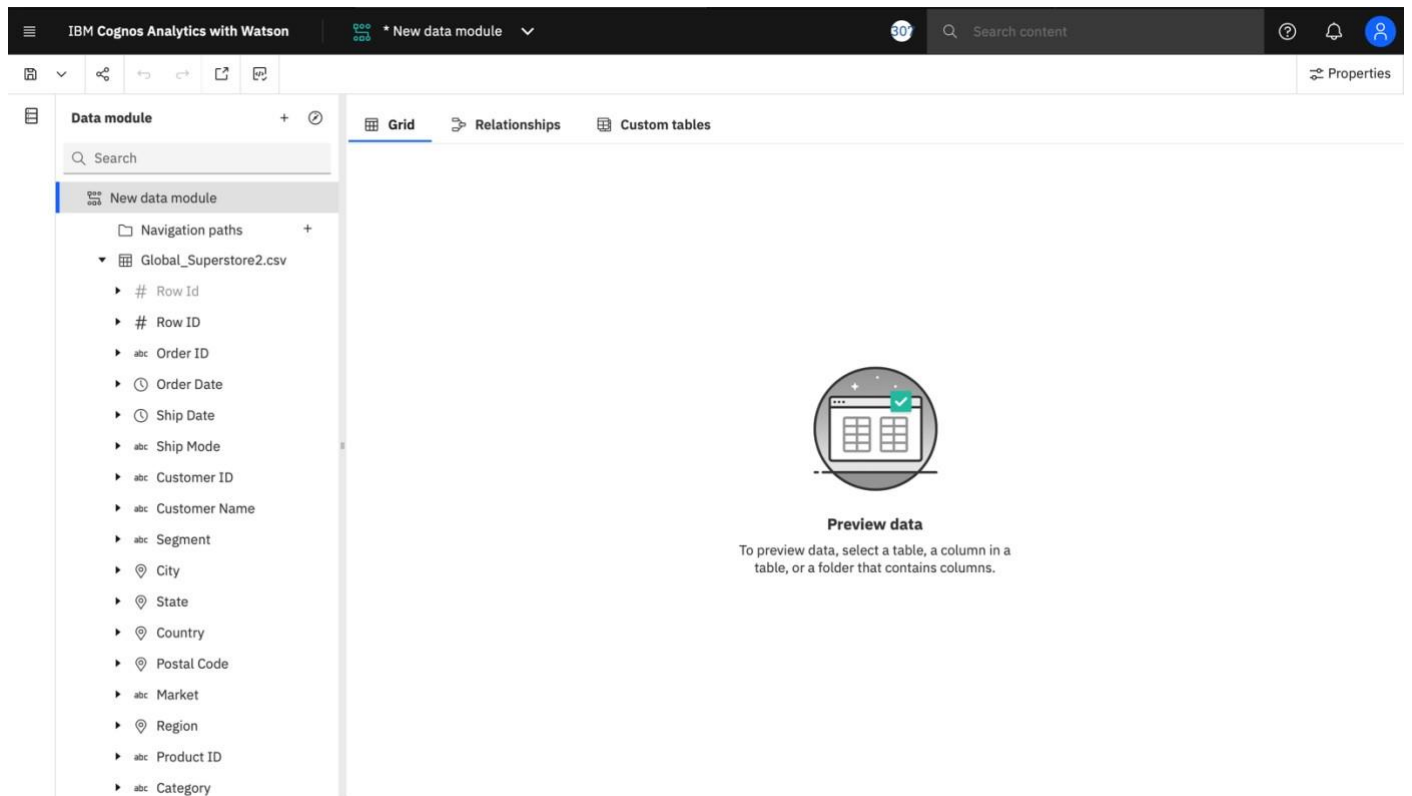


3. Now select the uploaded dataset from the menu



Now select the dataset to be prepared and cleaned

4. Exploring the Data modules



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 for '* New data module', a search bar, and user profile icons. The main workspace is divided into a left sidebar and a central area. The sidebar, titled 'Data module', contains a search bar and a list of available data modules. The central area shows the 'Grid' tab selected, with a large circular icon and text prompting the user to preview data.

Data module

Search

New data module

- Navigation paths
- Global_Superstore2.csv
 - # Row Id
 - # Row ID
 - abc Order ID
 - Order Date
 - Ship Date
 - abc Ship Mode
 - abc Customer ID
 - abc Customer Name
 - abc Segment
 - City
 - State
 - Country
 - Postal Code
 - abc Market
 - Region
 - abc Product ID
 - abc Category

Grid Relationships Custom tables

Preview data

To preview data, select a table, a column in a table, or a folder that contains columns.

5. Understanding the Data

IBM Cognos Analytics with Watson

* New data module

30

Search content

?

Grid

Relationships

Custom tables

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer
1	CA-2012-124891	2012-07-31	2012-07-31	Same Day	RH
2	IN-2013-77878	2013-02-05	2013-02-07	Second Class	JR
3	IN-2013-71249	2013-10-17	2013-10-18	First Class	CR
4	ES-2013-1579342	2013-01-28	2013-01-30	First Class	KM
5	SG-2013-4320	2013-11-05	2013-11-06	Same Day	RH
6	IN-2013-42360	2013-06-28	2013-07-01	Second Class	JM
7	IN-2011-81826	2011-11-07	2011-11-09	First Class	TS
8	IN-2012-86369	2012-04-14	2012-04-18	Standard Class	MB
9	CA-2014-135909	2014-10-14	2014-10-21	Standard Class	JW
10	CA-2012-116638	2012-01-28	2012-01-31	Second Class	JH
11	CA-2011-102988	2011-04-05	2011-04-09	Second Class	GM
12	ID-2012-28402	2012-04-19	2012-04-22	First Class	AJ

Data module

Search

New data module

Navigation paths

Global_Superstore2.csv

Row ID

Row ID

abc Order ID

Order Date

Ship Date

abc Ship Mode

abc Customer ID

abc Customer Name

abc Segment

City

State

Country

Postal Code

abc Market

Region

abc Product ID

abc Category

6. Filtering the data

Filter the data according to the requirements and remove the unnecessary data

IBM Cognos Analytics with Watson

* global sales data cleaned

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Search content

?

Grid

Relationships

Custom tables

Search

abc Ship Mode

abc Customer ID

abc Customer Name

abc Segment

City

State

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

Product ID	Category	Sub-Category	Product Name	Sales	Quantity
TEC-AC-10003033	Technology	Accessories	Plantronics Over-the-ear headset		7
FUR-CH-10003950	Furniture	Chairs	Novimex Leather Chair		9
TEC-PH-10004664	Technology	Phones	Nokia Smartphone		9
TEC-PH-10004583	Technology	Phones	Motorola Cordless Phone		5
TEC-SHA-10000501	Technology	Copiers	Sharp Wireless High-Speed Copier		8
TEC-PH-10000030	Technology	Phones	Samsung Smartphone		5
FUR-CH-10004050	Furniture	Chairs	Novimex Leather Chair		4
FUR-TA-10002958	Furniture	Tables	Chromcraft Conference Table, Fully Assembled	5244.84	6
OFF-BI-10003527	Office Supplies	Binders	Fellowes PB500 Electric Punch Plastic Comb Binding Machine with Manual Bind	5083.96	5
FUR-TA-10000198	Furniture	Tables	Chromcraft Bull-Nose Wood Oval Conference Tables & Bases	4297.644	13
OFF-SU-10002881	Office Supplies	Supplies	Martin Yale Chadless Opener Electric Letter Opener	4164.05	5
FUR-TA-10001889	Furniture	Tables	Bevis Conference Table, Fully Assembled	4626.15	5

Choose the required fields to be filtered

The screenshot shows the IBM Cognos Analytics interface. A 'Filter - Region' dialog box is open, allowing selection of regions to filter the data. The dialog includes a search bar, a list of regions with checkboxes, and buttons for 'Clear all', 'Invert', 'Cancel', and 'OK'. The background displays a data table with columns 'Category' and 'Sub-Category'.

Category	Sub-Category
Technology	Accessories
Furniture	Chairs
Technology	Phones
Technology	Phones
Technology	Copiers
Technology	Phones
Furniture	Chairs
Furniture	Tables
Office Supplies	Binders
Furniture	Tables
22304	US
South	OFF-SU-10002881
Office Supplies	Supplies
Null	APAC
Central Asia	FUR-TA-10001889
Furniture	Tables

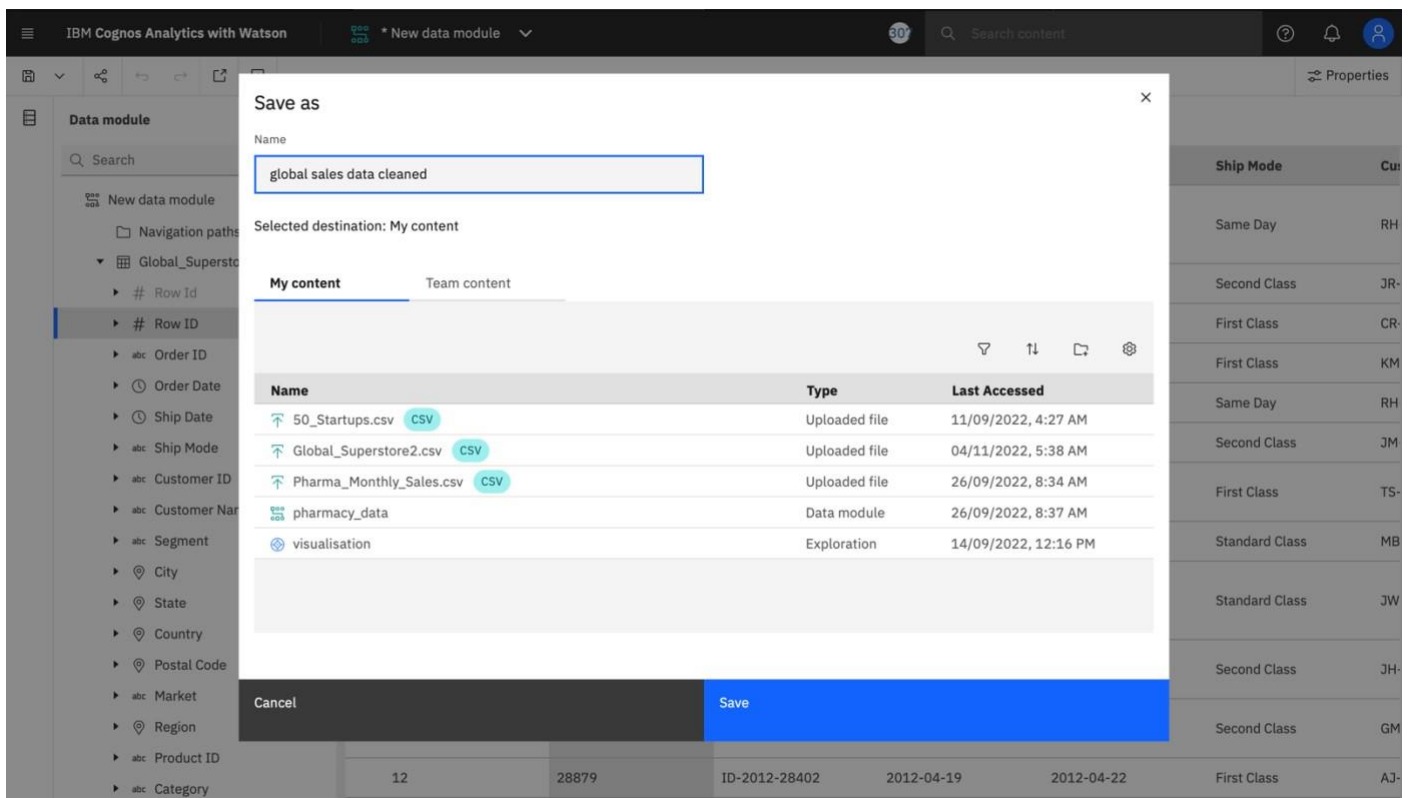
7. Creating Relationships among the data

The screenshot shows the IBM Cognos Analytics interface in the 'Relationships' view. The 'Global_Superstore2.csv' data source is selected, and a context menu is open, showing options for creating new calculations, filters, or tables, as well as other actions like rename, show query information, hide from users, remove, manage filters, auto-arrange, and properties. The background displays a diagram with the data source and a 'Diagram settings' panel.

Diagram settings

- ☐ Cardinality
- ☐ Focus mode
- Degrees of separation: 1

8. Save the dataset after preparing the data

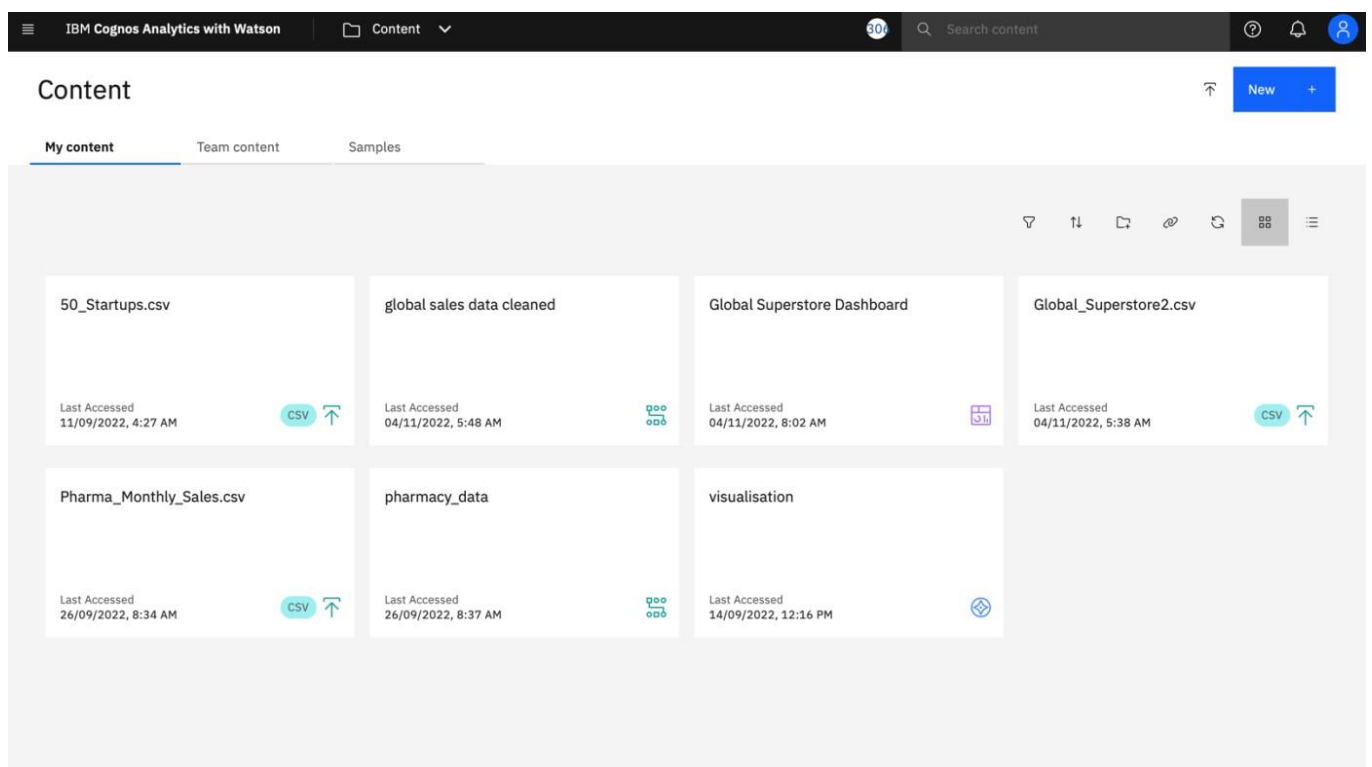


The screenshot shows the 'Save as' dialog box in IBM Cognos Analytics. The 'Name' field contains 'global sales data cleaned'. The 'Selected destination' is 'My content'. The dialog lists existing content items in a table:

Name	Type	Last Accessed
50_Startups.csv	CSV	11/09/2022, 4:27 AM
Global_Superstore2.csv	CSV	04/11/2022, 5:38 AM
Pharma_Monthly_Sales.csv	CSV	26/09/2022, 8:34 AM
pharmacy_data	Data module	26/09/2022, 8:37 AM
visualisation	Exploration	14/09/2022, 12:16 PM

At the bottom of the dialog are 'Cancel' and 'Save' buttons. The background shows a data table with columns like 'Ship Mode', 'Order ID', 'Order Date', 'Ship Date', 'Ship Mode', 'Customer ID', 'Customer Name', 'Segment', 'City', 'State', 'Country', 'Postal Code', 'Market', 'Region', 'Product ID', and 'Category'.

9. Open “Content” from the menu bar



The screenshot shows the 'Content' view in IBM Cognos Analytics. The 'My content' tab is selected, displaying a grid of content items:

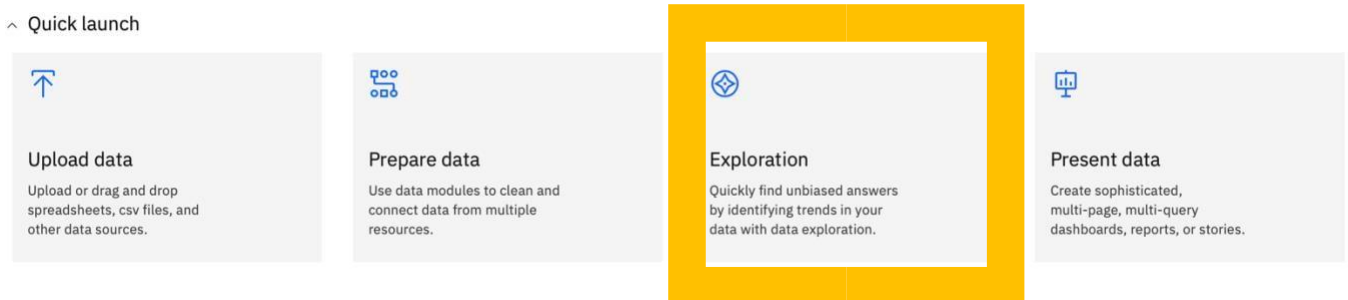
Name	Last Accessed	Type
50_Startups.csv	11/09/2022, 4:27 AM	CSV
global sales data cleaned	04/11/2022, 5:48 AM	CSV
Global Superstore Dashboard	04/11/2022, 8:02 AM	Dashboard
Global_Superstore2.csv	04/11/2022, 5:38 AM	CSV
Pharma_Monthly_Sales.csv	26/09/2022, 8:34 AM	CSV
pharmacy_data	26/09/2022, 8:37 AM	Data module
visualisation	14/09/2022, 12:16 PM	Exploration

The interface includes a 'New' button and various icons for filtering, sorting, and sharing content.

• DATA EXPLORATION PHASE

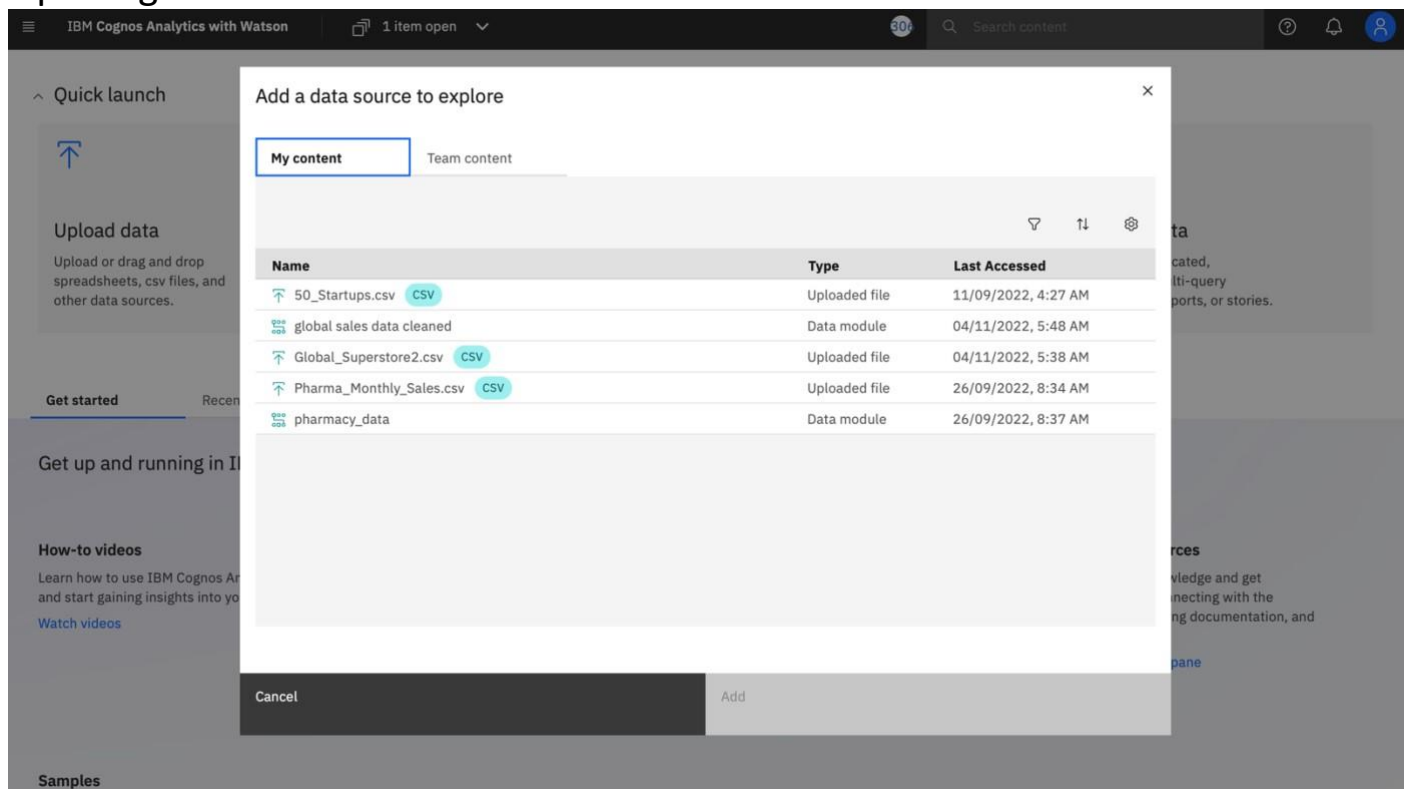
10. Data Exploration

Click on the Exploration option to explore the data

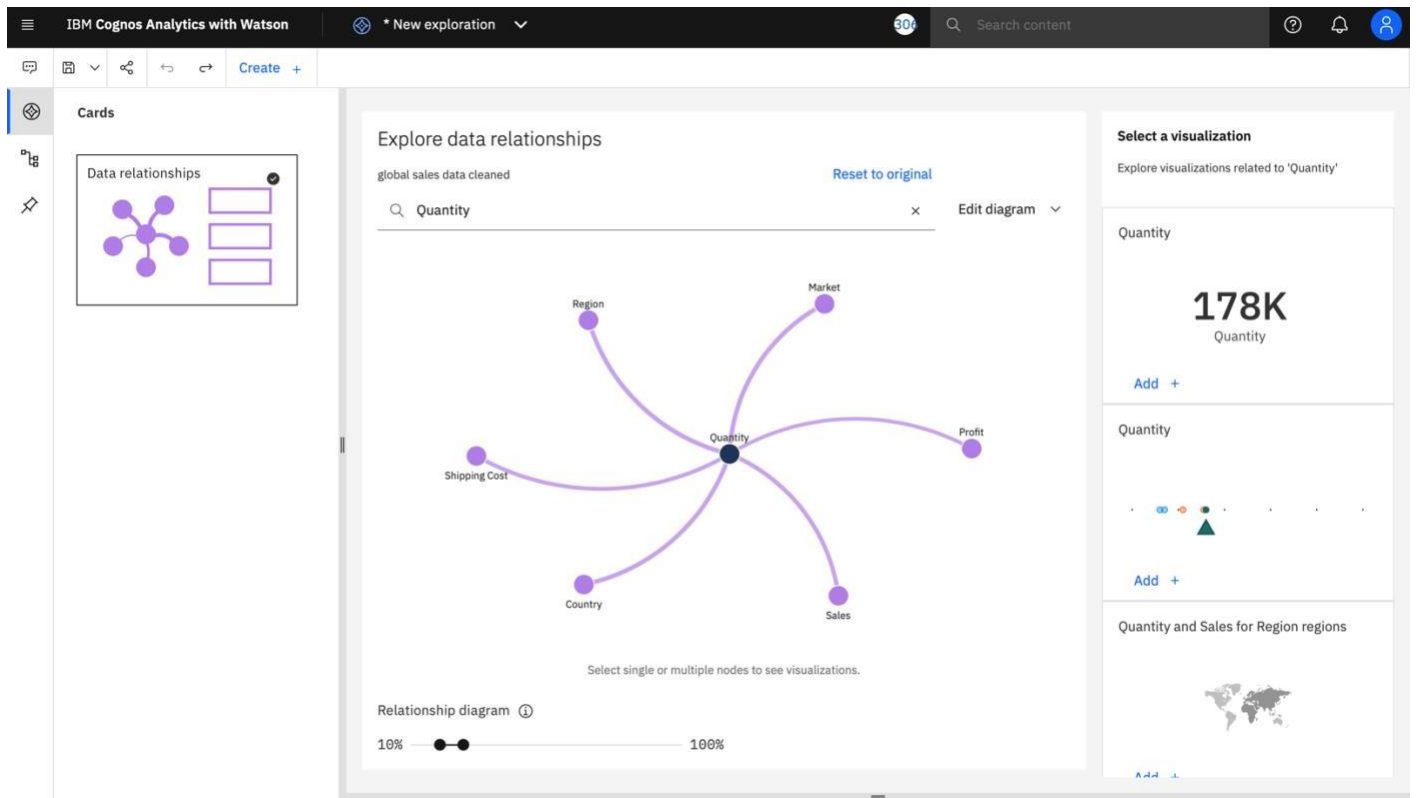


11. Select the Data to be explored

Now select the cleaned and prepared data from the “My Content” Menu, for exploring it



12. Start exploring the data and create relationships among the data.



13. Save the exploration

