

## SPRINT – 2

# PREPARING THE DATASET

Team ID : PNT2022TMID35428

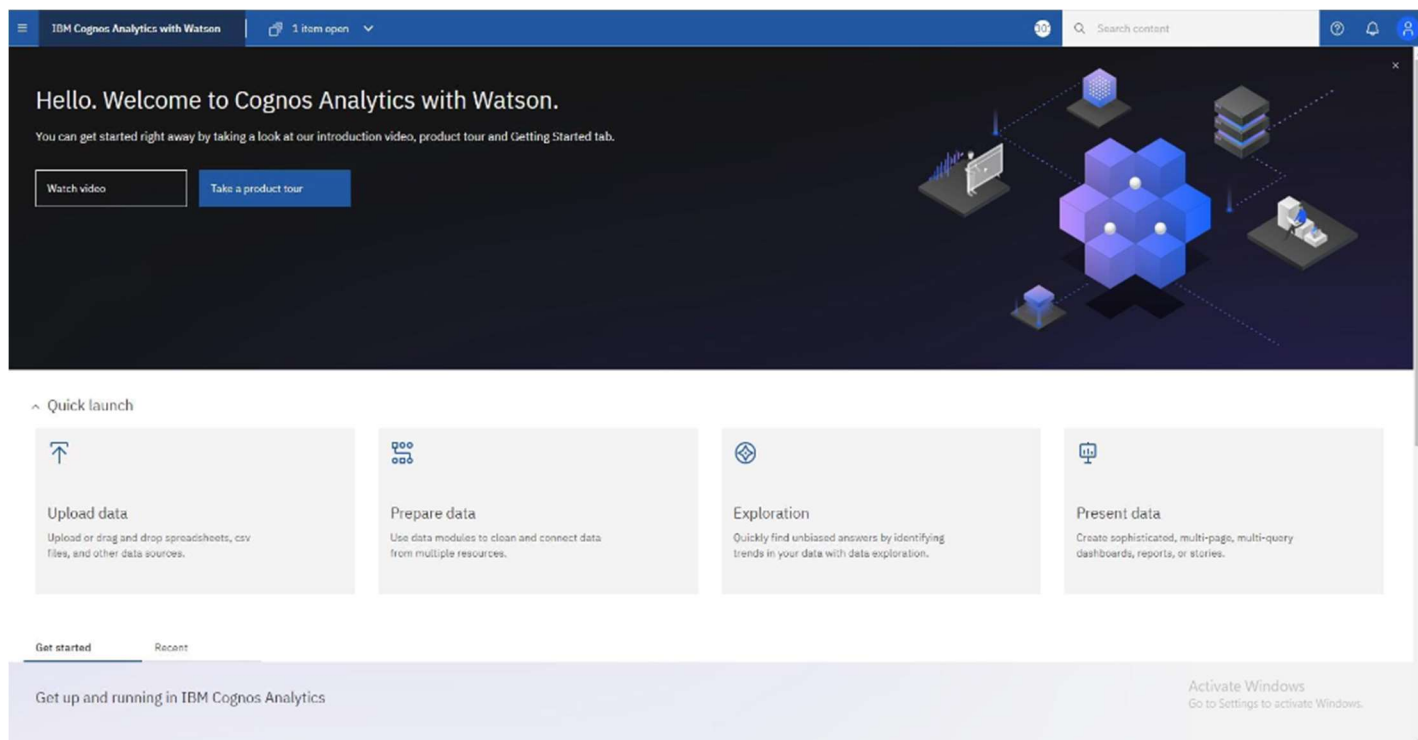
Project Name\_Global Sales Data Analytics

Once you load the data, we need to Prepare the data.

- Prepare Calculations of Year, Month, Day fields and the related Navigation path
- Create a Few more Calculations – Target Sales, Min Sales, Max Sales, Middle Range Sales.

## DATA PREPARATION PHASE

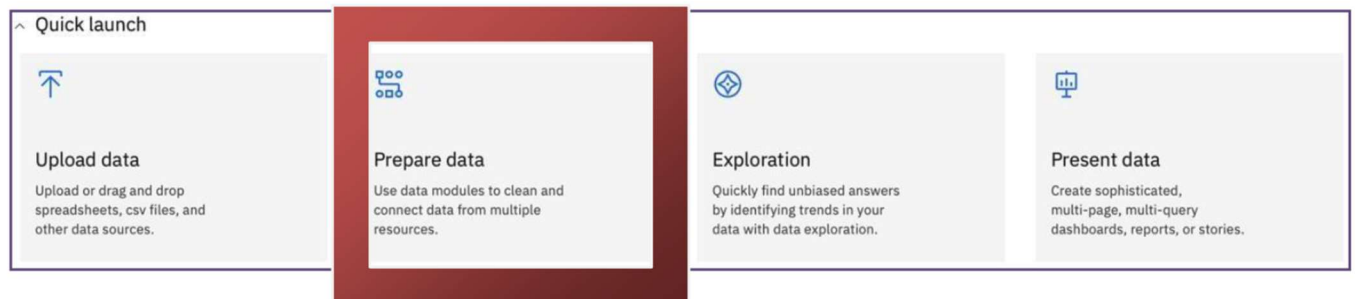
### 1.Open IBM Cognos Dashboard



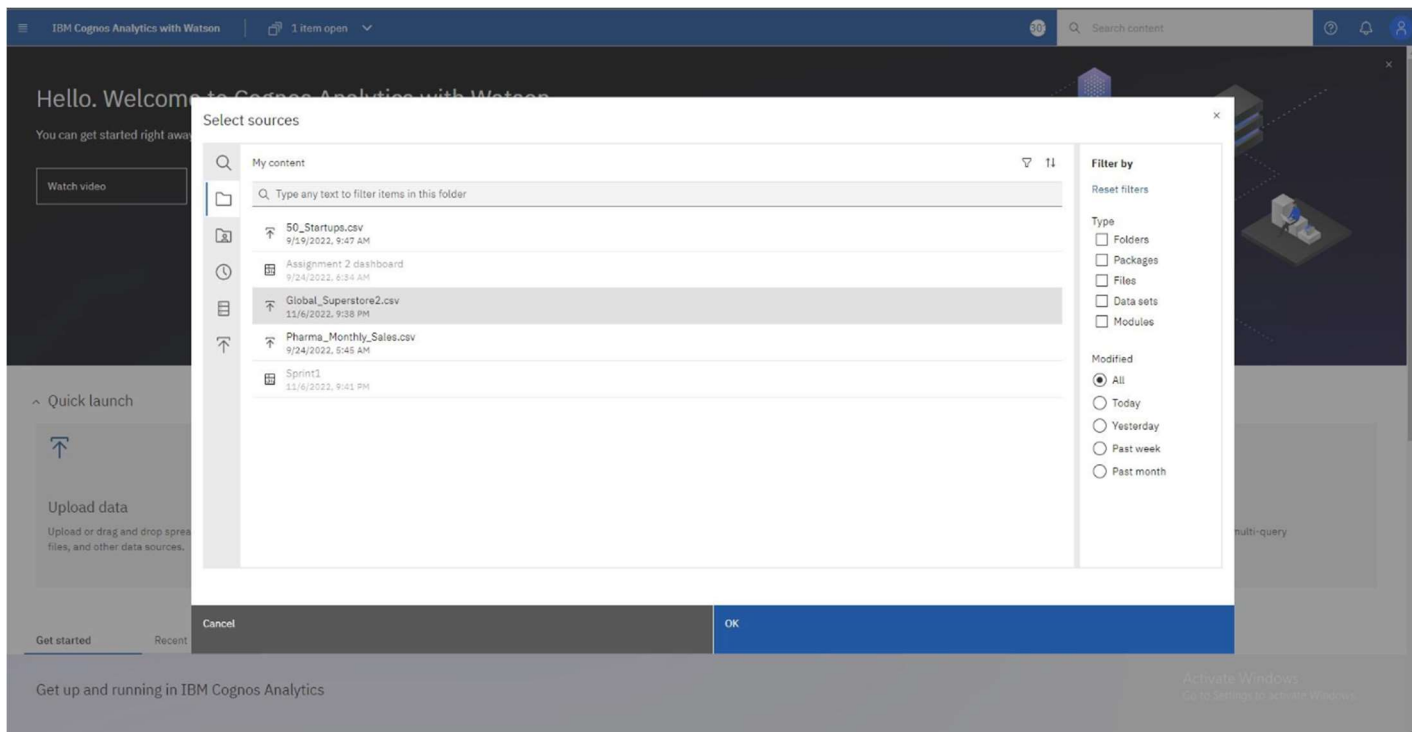
## Preparation phase:

We must prepare the dataset after it has been uploaded to the IBM Cognos dashboard. The process of preparing data involves cleaning it up, eliminating duplicate and null values, and organising it in a way that makes it easy to explore and analyse.

### 2. Click on the Prepare Data option

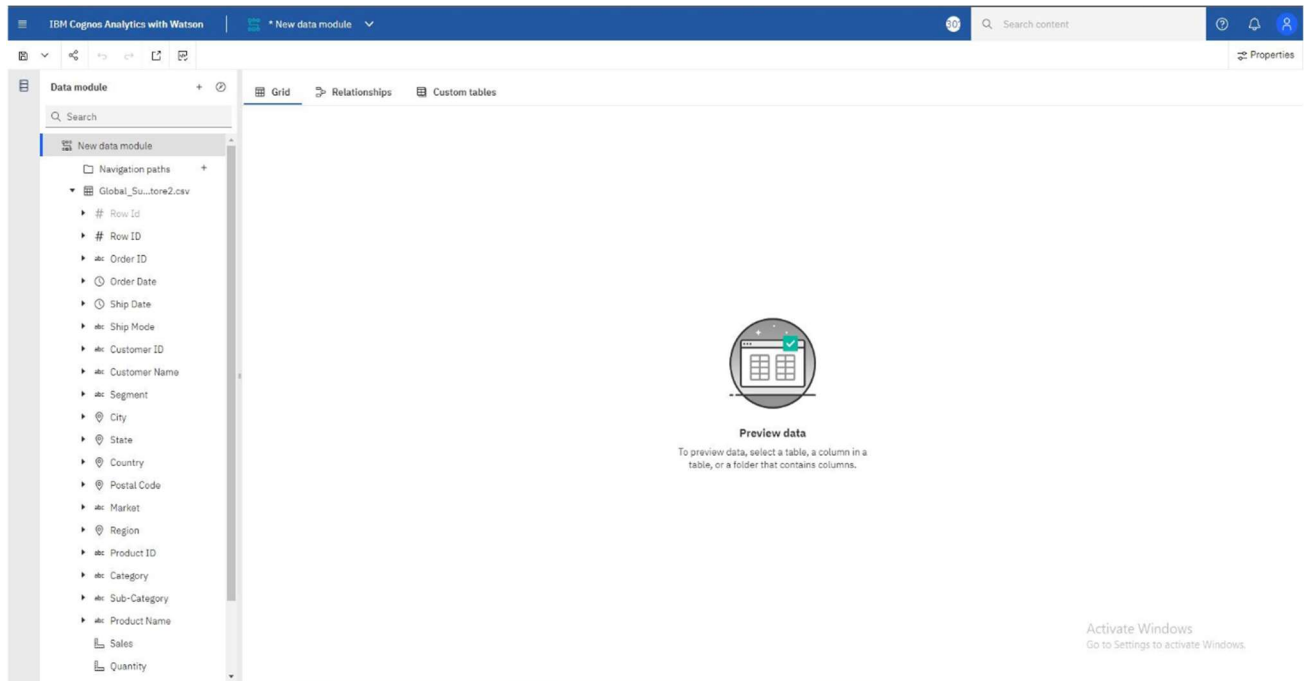


### 3. Now select the uploaded dataset from the menu



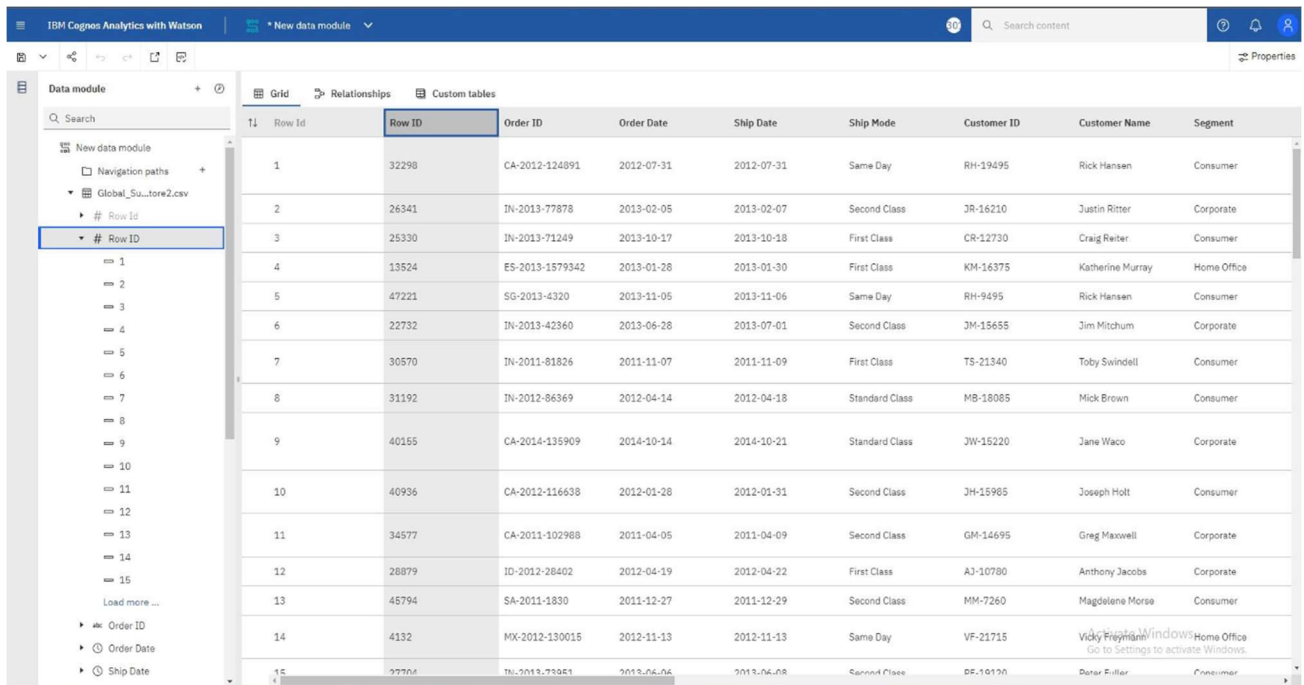
Select the dataset to be cleaned and prepared now.

## 4. Exploring the Data modules



The screenshot shows the IBM Cognos Analytics interface. The top bar includes the title 'IBM Cognos Analytics with Watson', a dropdown menu for 'New data module', a search bar, and user profile icons. The left sidebar, titled 'Data module', contains a search bar and a list of data sources under 'New data module'. The main area displays a 'Preview data' icon and the text: 'To preview data, select a table, a column in a table, or a folder that contains columns.' An 'Activate Windows' watermark is visible in the bottom right corner.

## 5. Understanding the Data

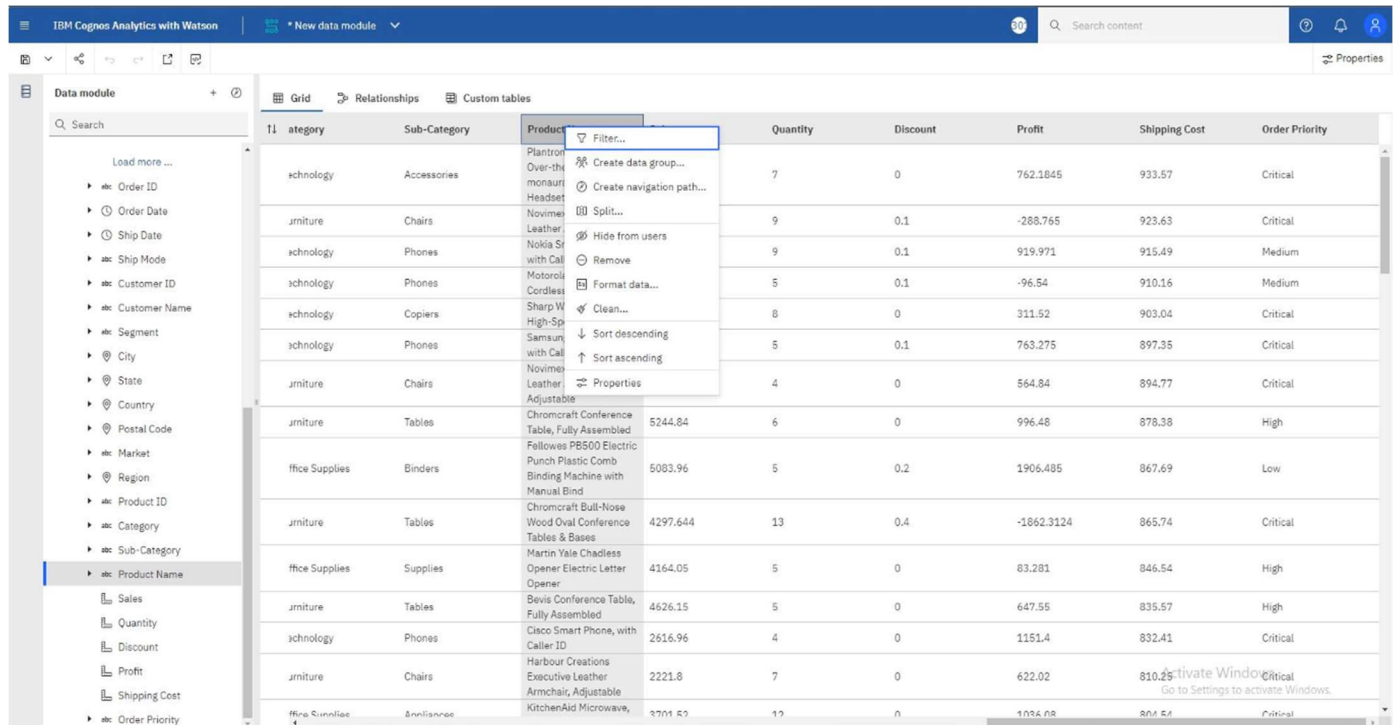


The screenshot shows the IBM Cognos Analytics interface with a data table displayed. The table has columns: Row ID, Order ID, Order Date, Ship Date, Ship Mode, Customer ID, Customer Name, and Segment. The data is displayed in a grid view. The left sidebar shows the 'Data module' list, and the top bar includes the title 'IBM Cognos Analytics with Watson', a dropdown menu for 'New data module', a search bar, and user profile icons. An 'Activate Windows' watermark is visible in the bottom right corner.

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
1	CA-2012-124891	2012-07-31	2012-07-31	Same Day	RH-19495	Rick Hansen	Consumer
2	IN-2013-77878	2013-02-05	2013-02-07	Second Class	JR-16210	Justin Ritter	Corporate
3	IN-2013-71249	2013-10-17	2013-10-18	First Class	CR-12730	Craig Reiter	Consumer
4	ES-2013-1579342	2013-01-28	2013-01-30	First Class	KM-16375	Katherine Murray	Home Office
5	SG-2013-4320	2013-11-05	2013-11-06	Same Day	RH-9495	Rick Hansen	Consumer
6	IN-2013-42360	2013-06-28	2013-07-01	Second Class	JM-15655	Jim Mitchum	Corporate
7	IN-2011-61826	2011-11-07	2011-11-09	First Class	TS-21340	Toby Swindell	Consumer
8	IN-2012-86369	2012-04-14	2012-04-18	Standard Class	MB-18085	Mick Brown	Consumer
9	CA-2014-135909	2014-10-14	2014-10-21	Standard Class	JW-15220	Jane Waco	Corporate
10	CA-2012-116638	2012-01-28	2012-01-31	Second Class	JH-15965	Joseph Holt	Consumer
11	CA-2011-102968	2011-04-05	2011-04-09	Second Class	GM-14695	Greg Maxwell	Corporate
12	ID-2012-28402	2012-04-19	2012-04-22	First Class	AJ-10780	Anthony Jacobs	Corporate
13	SA-2011-1830	2011-12-27	2011-12-29	Second Class	MM-7260	Magdelene Morse	Consumer
14	MX-2012-130015	2012-11-13	2012-11-13	Same Day	VF-21715	Vicky Friedman	Home Office
15	IN-2013-71061	2013-06-06	2013-06-08	Second Class	DE-10170	Derek Fuller	Consumer

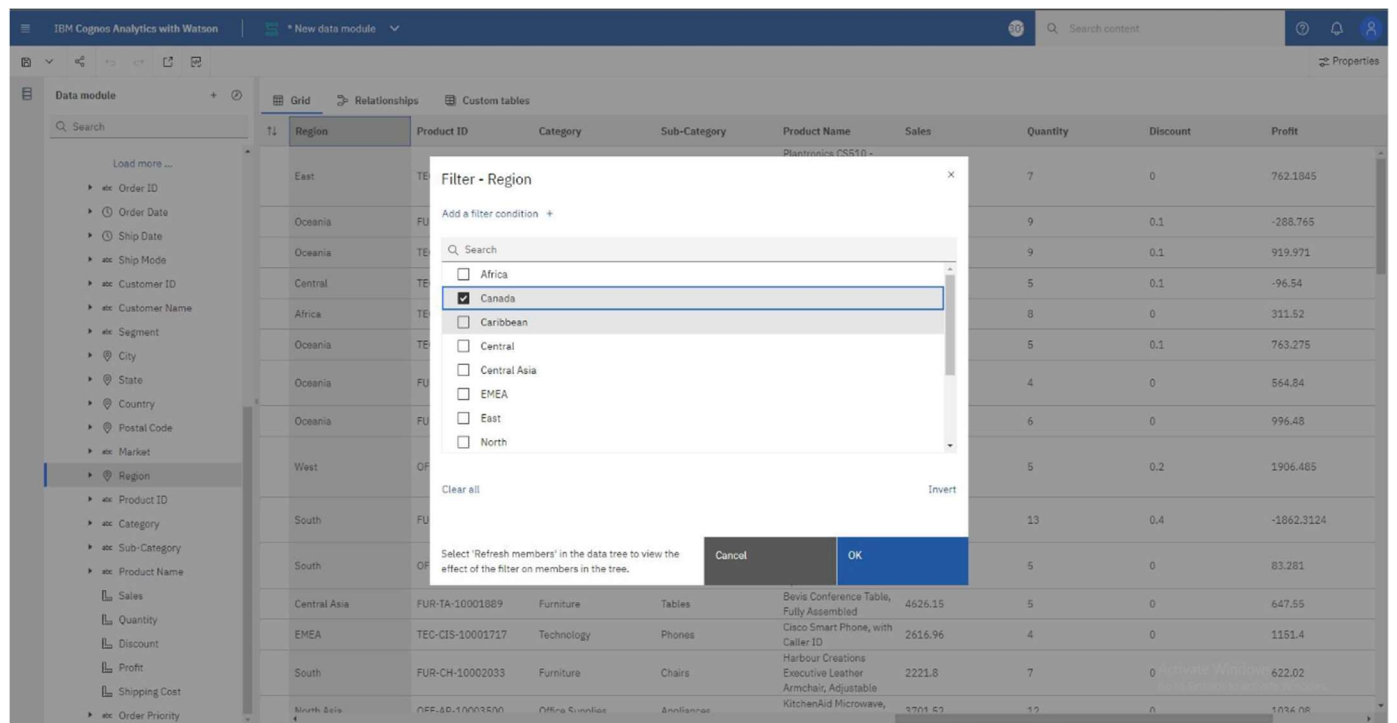
## 6. Filtering the data

Sort the data to meet your needs and eliminate any extraneous information.



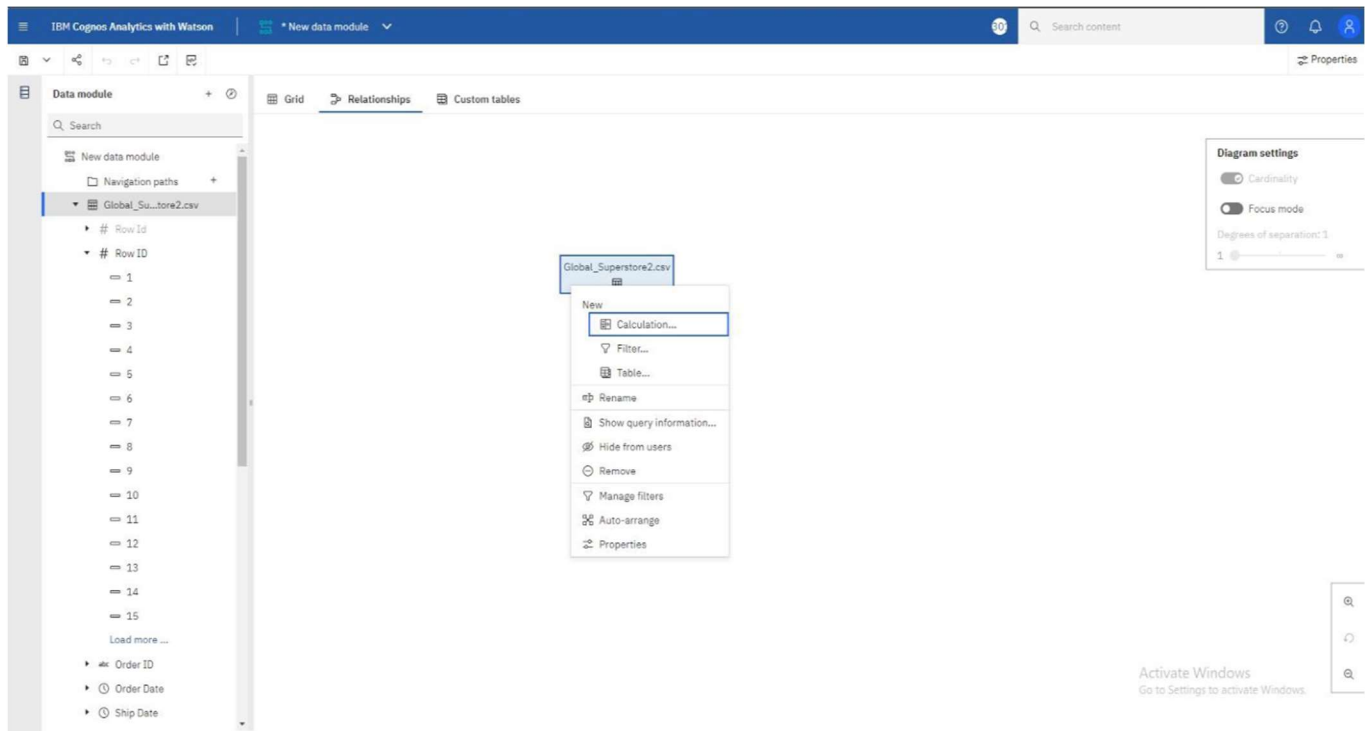
The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists various fields: Order ID, Order Date, Ship Date, Ship Mode, Customer ID, Customer Name, Segment, City, State, Country, Postal Code, Market, Region, Product ID, Category, Sub-Category, Product Name, Sales, Quantity, Discount, Profit, Shipping Cost, and Order Priority. The main area displays a data grid with columns: T1, category, Sub-Category, Product, Quantity, Discount, Profit, Shipping Cost, and Order Priority. A context menu is open over the 'Product' column, showing options: Filter..., Create data group..., Create navigation path..., Split..., Hide from users, Remove, Format data..., Clean..., Sort descending, Sort ascending, and Properties. The data rows include products like 'Plantation Over-the-monarch Headset', 'Novime Leather Chairs', 'Nokia Smart Phone', 'Motorola Cordless', 'Sharp W High-Speed', 'Samsun with Call', 'Novime Leather Adjustable', 'Chromcraft Conference Table', 'Fellowes PB500 Electric Punch Plastic Comb Binding Machine', 'Chromcraft Built-Nose Wood Oval Conference Tables & Bases', 'Martin Yale Chadless Opener Electric Letter Opener', 'Bevis Conference Table, Fully Assembled', 'Cisco Smart Phone, with Caller ID', 'Harbour Creations Executive Leather Armchair, Adjustable', and 'KitchenAid Microwave'.

Choose the required fields to be filtered

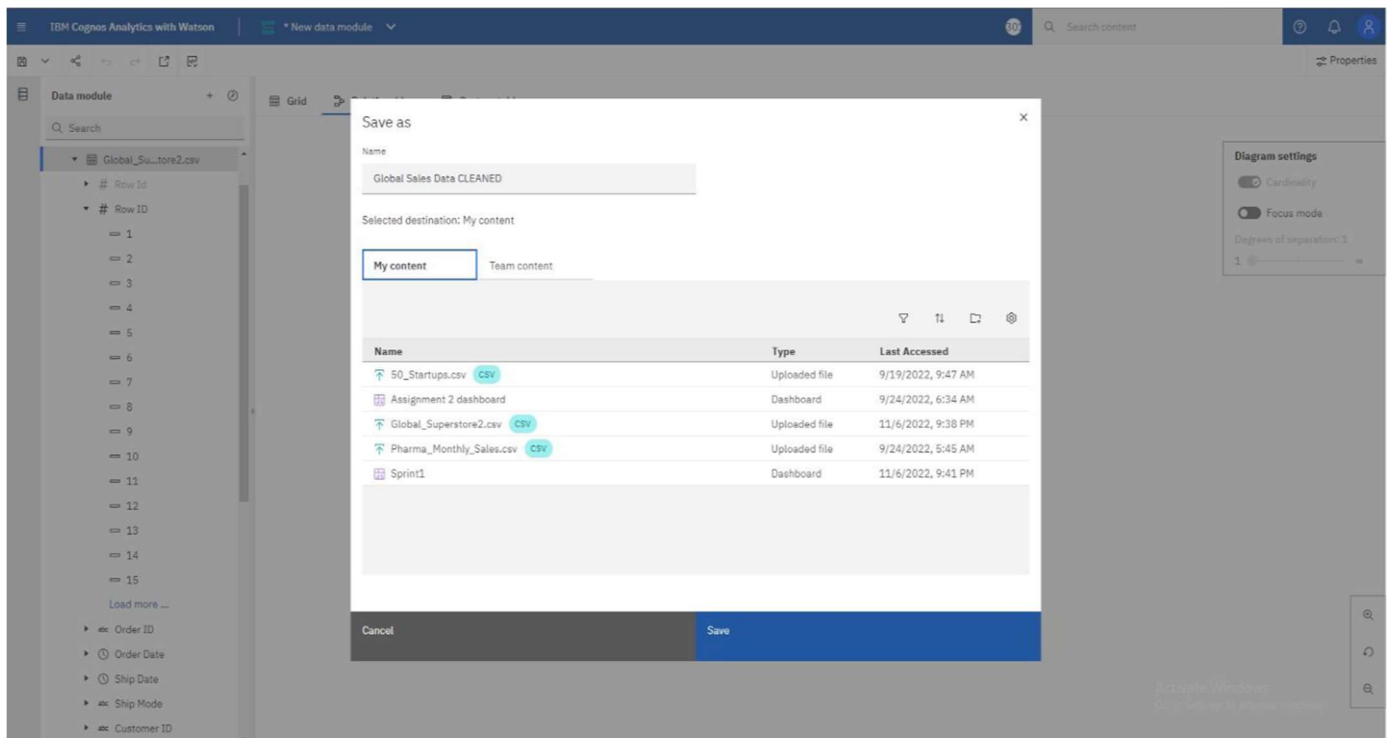


The screenshot shows the same IBM Cognos Analytics interface, but with a 'Filter - Region' dialog box open. The dialog box has a search bar and a list of regions: Africa, Canada (checked), Caribbean, Central, Central Asia, EMEA, East, and North. There are 'Clear all' and 'Invert' buttons at the bottom. The background data grid is dimmed, showing the same columns as before. The 'Region' column in the grid is highlighted, and the data rows are filtered to show only those with 'Canada' as the region.

## 7. Creating Relationships among the data

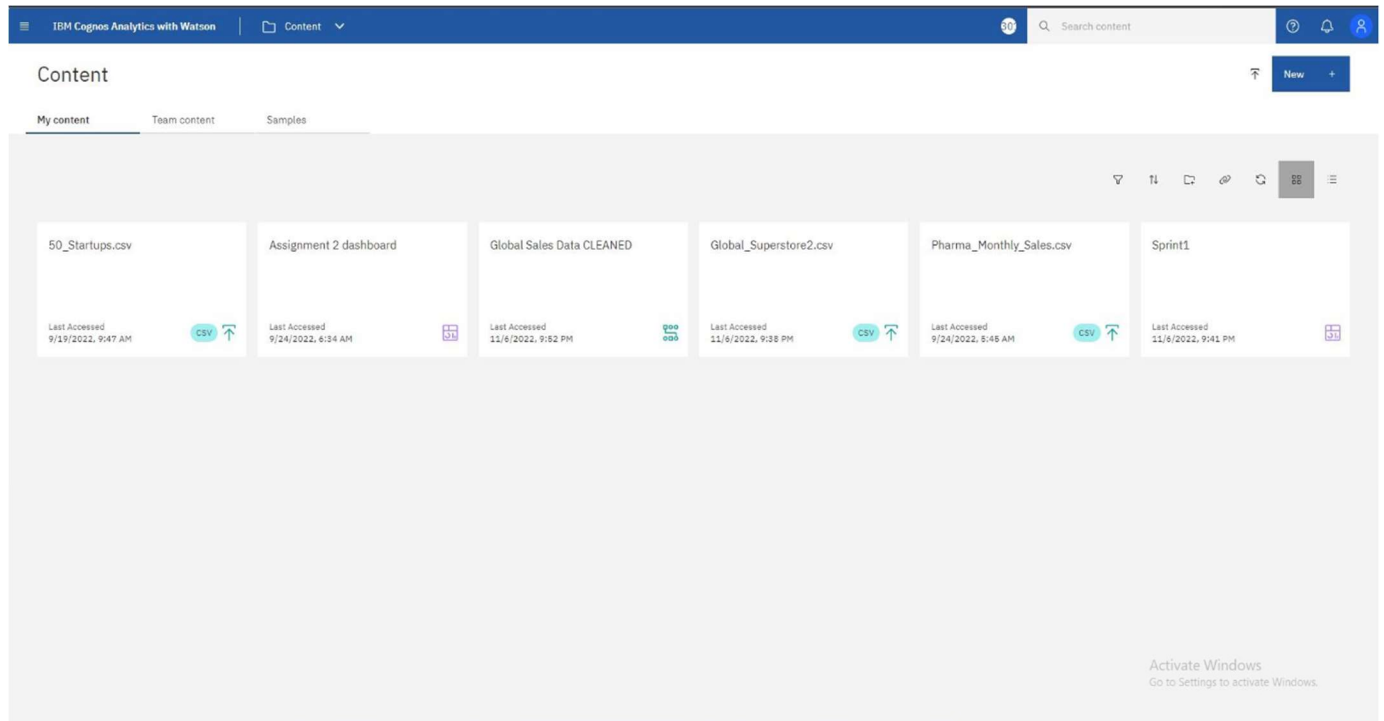


## 8. Save the dataset after preparing the data



## 9. Open “Content” from the menu bar

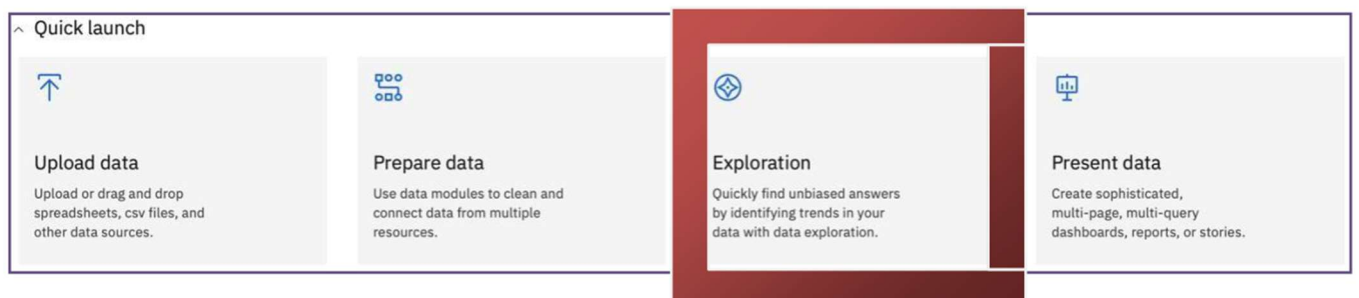
You can access the uploaded and stored data here.



## DATA EXPLORATION PHASE

### 10. Data Exploration

To analyze the information, select the Exploration option.



## 11. Select the Data to be explored

To begin browsing the cleaned and prepared data, choose "My Content" from the menu.

The screenshot shows the IBM Cognos Analytics interface. A modal dialog titled "Add a data source to explore" is open, displaying a table of available data sources under the "My content" tab. The table lists four items: "50\_Startups.csv", "Global Sales Data CLEANED", "Global\_Superstore2.csv", and "Pharma\_Monthly\_Sales.csv". The "Global Sales Data CLEANED" item is highlighted. The background interface includes a "Quick launch" section with an "Upload data" button, a "Get started" section with a "Get up and running in IBM Cognos Analytics" link, and a "How-to videos" section.

Name	Type	Last Accessed
50_Startups.csv	Uploaded file	9/19/2022, 9:47 AM
Global Sales Data CLEANED	Data module	11/6/2022, 9:52 PM
Global_Superstore2.csv	Uploaded file	11/6/2022, 9:38 PM
Pharma_Monthly_Sales.csv	Uploaded file	9/24/2022, 5:45 AM

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

The screenshot shows the IBM Cognos Analytics interface with the "Explore data relationships" view. The central area displays a relationship diagram for the "Global Sales Data CLEANED" data source. The diagram shows a central node labeled "Quantity" connected to several other nodes: "Region", "Discount", "Market", "Profit", "Sales", "Country", and "Shipping Cost". The left sidebar shows a "Cards" section with a "Data relationships" card. The right sidebar shows a "Select a visualization" section with a "Profit" card displaying a value of "1.47M".

Explore data relationships

Global Sales Data CLEANED

Reset to original

Q Quantity

Relationship diagram

10% 100%

Select a visualization

Explore visualizations related to 'Profit'

Profit

1.47M

Profit

Profit and Sales for Country regions

Activate Windows

Go to Settings to activate Windows.

### 13. Save the exploration

IBM Cognos Analytics with Watson | \* New exploration | Search content

Cards

Explore data

Global Sales Data CLF

Q Quantity

Data relationships

Save as

Name

Sprint1 exploration

Selected destination: My content

My content | Team content

Name	Type	Last Accessed
50_Startups.csv	Uploaded file	9/19/2022, 9:47 AM
Assignment 2 dashboard	Dashboard	9/24/2022, 6:34 AM
Global Sales Data CLEANED	Data module	11/6/2022, 9:52 PM
Global_Superstore2.csv	Uploaded file	11/6/2022, 9:38 PM
Pharma_Monthly_Sales.csv	Uploaded file	9/24/2022, 5:45 AM
Sprint1	Dashboard	11/6/2022, 9:41 PM

Cancel Save

Relationship diagram

10% 100%

Select a visualization

Explore visualizations related to 'Profit'

Profit

1.47M

Profit

Add +

Profit and Sales for Country regions

Add +

See more

IBM Cognos Analytics

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[https://us3.ca.analytics.ibm.com/bi/perspective-explore?id=explore\\_388&data=1c4d402f4b3f1b2773354549&options%5BdisableClassPreset%5D=true&options%5Bcollections%5D%5BcanvasExtension%5D%5B%5D=com.ibm.bi.dashboard.canvasExtension&options%5Bcollections%5D%5BfeatureExtension%5D%5B%5D=com.ibm.bi.dashboard.c...](https://us3.ca.analytics.ibm.com/bi/perspective-explore?id=explore_388&data=1c4d402f4b3f1b2773354549&options%5BdisableClassPreset%5D=true&options%5Bcollections%5D%5BcanvasExtension%5D%5B%5D=com.ibm.bi.dashboard.canvasExtension&options%5Bcollections%5D%5BfeatureExtension%5D%5B%5D=com.ibm.bi.dashboard.c...)