

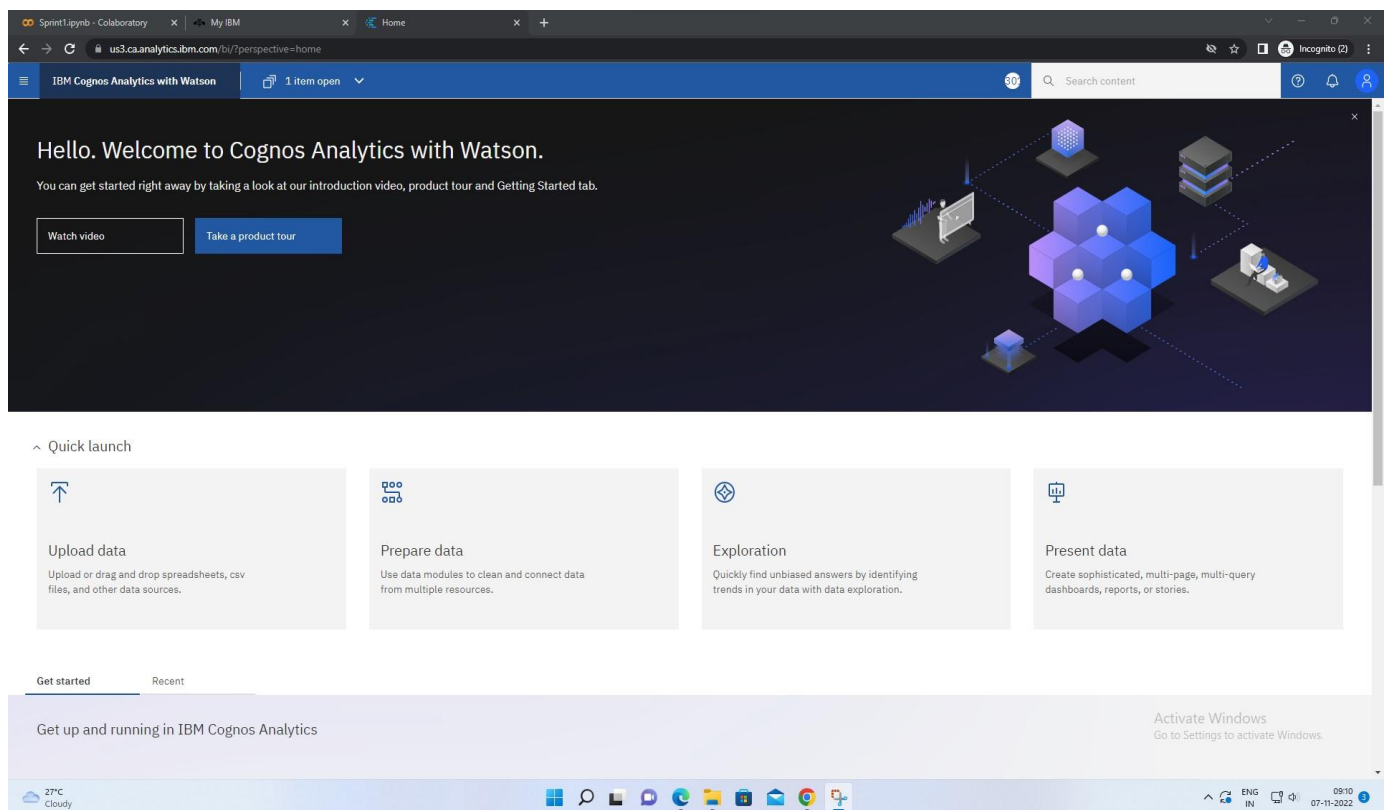
PROJECT DEVELOPMENT PHASE

DELIVERY OF SPRINT - 2

Date	07 November 2022
Team ID	PNT2022TMID40195
Project Name	Global Sales Data Analytics
Team Leader	PREMKUMAR S

DATA PREPARATION PHASE

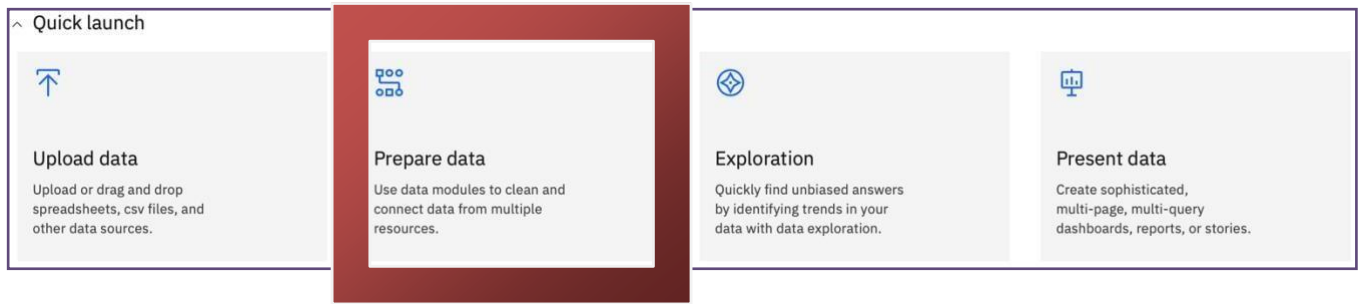
1. Open IBM Cognos Dashboard



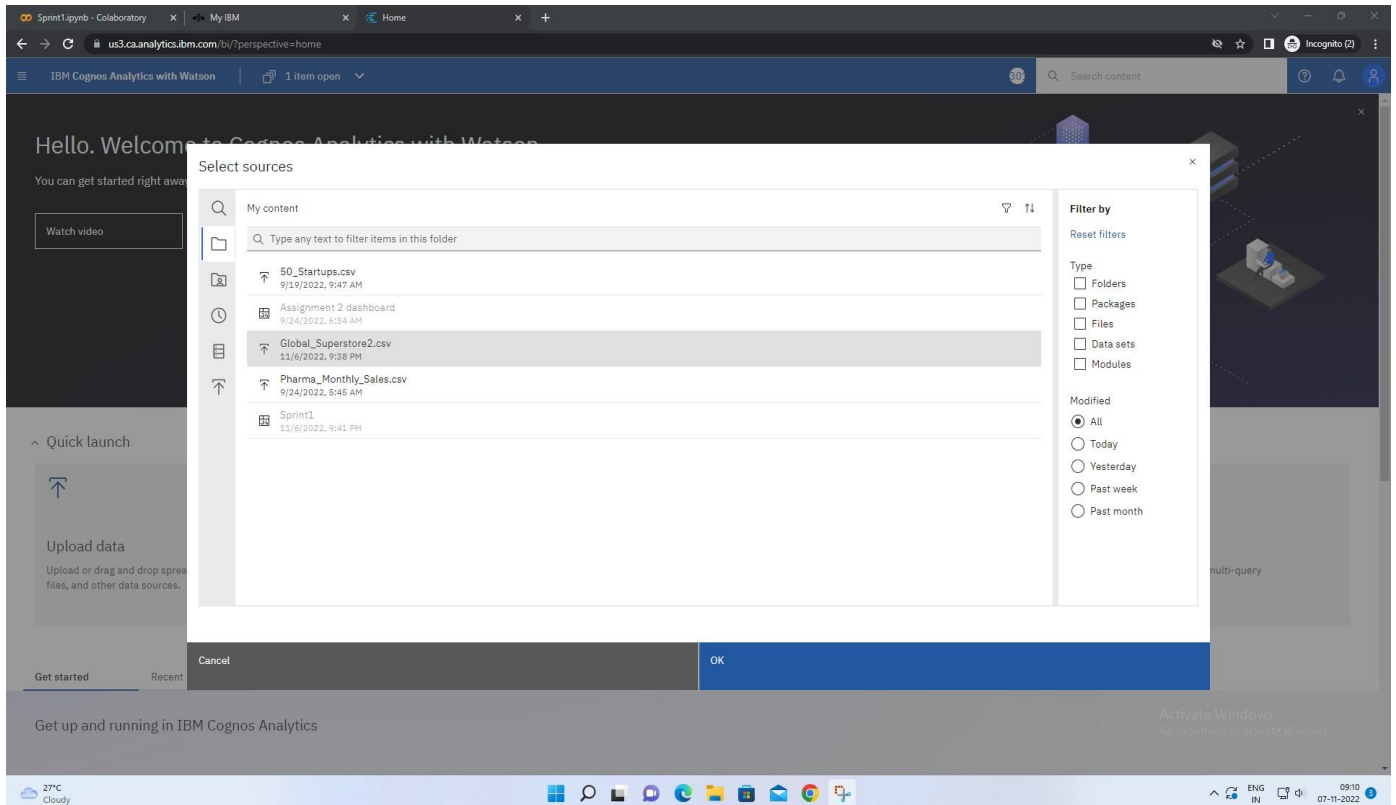
Preparation phase:

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

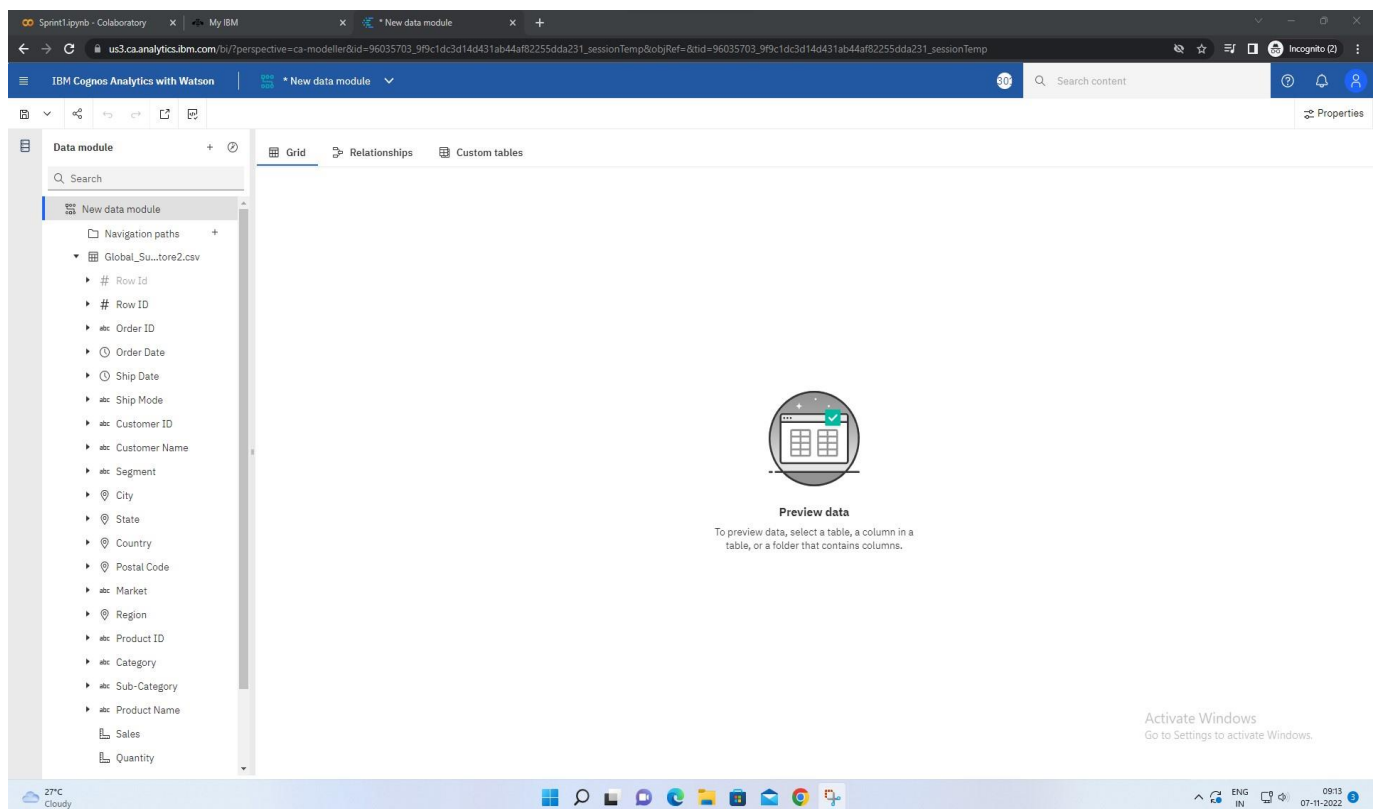


3. Now select the uploaded dataset from the menu



Select the dataset to be cleaned and prepared now.

4. Exploring the Data modules



5. Understanding the Data

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' sidebar is open, displaying a tree view of the data source 'Global_Su...ore2.csv'. The 'Row ID' field is selected. The main grid view displays a table with the following columns: Row ID, Order ID, Order Date, Ship Date, Ship Mode, Customer ID, Customer Name, and Segment. The table contains 15 rows of data, starting with Row ID 1 and Order ID CA-2012-124891.

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-2011-81826	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-15985	Joseph Holt	Consumer
11	CA-2011-102988	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 Freymann	Home Office
15	IN-2013-73951	2013-06-06	2013-06-08	Second Class	DF-19120	Deter 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' sidebar is open, displaying a tree view of the data source. The 'Product Name' field is selected. The main grid view displays a table with the following columns: category, Sub-Category, Product Name, Quantity, Discount, Profit, Shipping Cost, and Order Priority. A context menu is open over the 'Product Name' column, showing options such as 'Filter...', 'Create data group...', 'Create navigation path...', 'Split...', 'Hide from users', 'Remove', 'Format data...', 'Clean...', 'Sort descending', 'Sort ascending', and 'Properties'.

category	Sub-Category	Product Name	Quantity	Discount	Profit	Shipping Cost	Order Priority
Technology	Accessories	Plantron Over-the-ear Headset	7	0	762.1845	933.57	Critical
Furniture	Chairs	Novime Leather	9	0.1	-288.765	923.63	Critical
Technology	Phones	Nokia S with Call	9	0.1	919.971	915.49	Medium
Technology	Phones	Motorola Cordless	5	0.1	-96.54	910.16	Medium
Technology	Copiers	Sharp W High-Sp	8	0	311.52	903.04	Critical
Technology	Phones	Samsung with Call	5	0.1	763.275	897.35	Critical
Furniture	Chairs	Novime Leather Adjustable	4	0	564.84	894.77	Critical
Furniture	Tables	Chromcraft Conference Table, Fully Assembled	6	0	996.48	878.38	High
Office Supplies	Binders	Fellowes PB500 Electric Punch Plastic Comb Binding Machine with Manual Bind	5	0.2	1906.485	867.69	Low
Furniture	Tables	Chromcraft Bull-Nose Wood Oval Conference Tables & Bases	13	0.4	-1862.3124	865.74	Critical
Office Supplies	Supplies	Martin Yale Chadless Opener Electric Letter Opener	5	0	83.281	846.54	High
Furniture	Tables	Bevis Conference Table, Fully Assembled	5	0	647.55	835.57	High
Technology	Phones	Cisco Smart Phone, with Caller ID	4	0	1151.4	832.41	Critical
Furniture	Chairs	Harbour Creations Executive Leather Armchair, Adjustable	7	0	622.02	810.25	Critical
Home Appliances	Appliances	KitchenAid Microwave, 3701	12	0	1036.08	804.54	Critical

Choose the required fields to be filtered

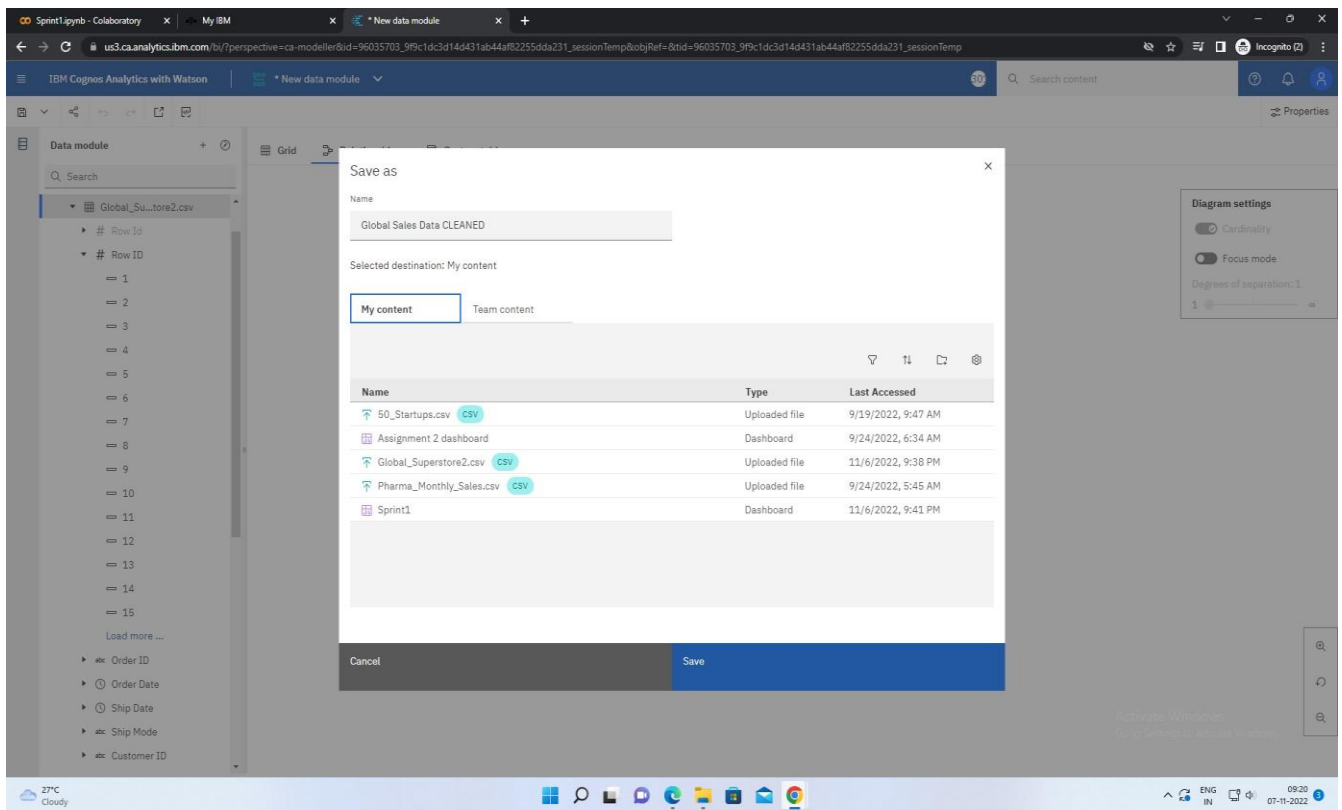
The screenshot shows the IBM Cognos Analytics interface. A data table is displayed with columns: Region, Product ID, Category, Sub-Category, Product Name, Sales, Quantity, Discount, and Profit. A 'Filter - Region' dialog box is open, allowing selection of a region to filter the data. The 'Canada' option is selected. The dialog also includes a search bar, a list of regions, and buttons for 'Clear all', 'Invert', 'Cancel', and 'OK'.

Region	Product ID	Category	Sub-Category	Product Name	Sales	Quantity	Discount	Profit
East	TE...					7	0	762.1845
Oceania	FU...					9	0.1	-288.765
Oceania	TE...					9	0.1	919.971
Central	TE...					5	0.1	-96.54
Africa	TE...					8	0	311.52
Oceania	TE...					5	0.1	763.275
Oceania	FU...					4	0	564.84
Oceania	FU...					6	0	996.48
West	OF...					5	0.2	1906.485
South	FU...					13	0.4	-1862.3124
South	OF...					5	0	83.281
Central Asia	FUR-TA-10001889	Furniture	Tables	Bevis Conference Table, Fully Assembled	4626.15	5	0	647.55
EMEA	TEC-CIS-10001717	Technology	Phones	Cisco Smart Phone, with Caller ID	2616.96	4	0	1151.4
South	FUR-CH-10002033	Furniture	Chairs	Harbour Creations Executive Leather Armchair, Adjustable	2221.8	7	0	622.02
North Asia	OFF-AP-10003500	Office Supplies	Appliances	KitchenAid Microwave,	3701.52	12	0	1076.08

7. Creating Relationships among the data

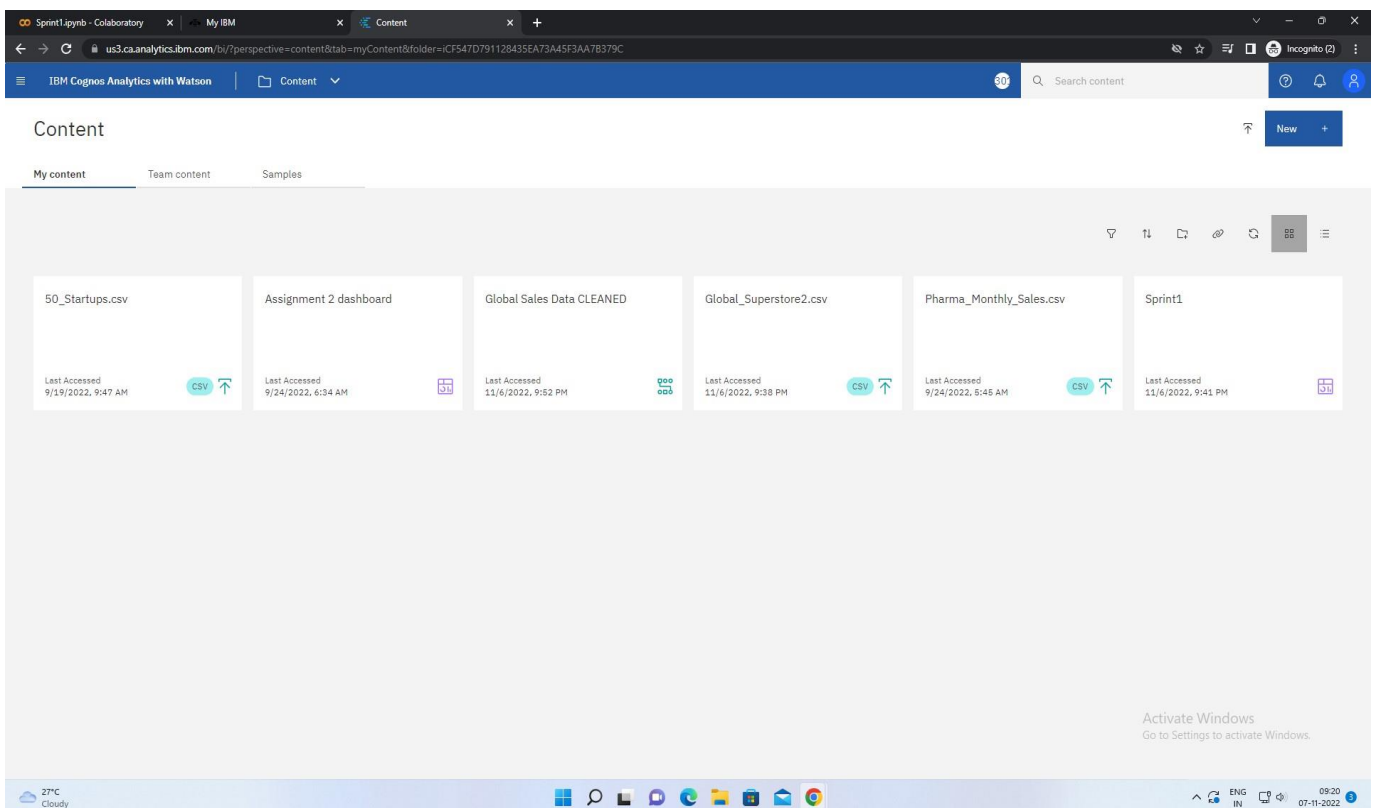
The screenshot shows the IBM Cognos Analytics interface with the 'Relationships' tab selected. A data module named 'Global_Superstore2.csv' is highlighted in the left pane. A context menu is open over the module, showing options: Calculation..., Filter..., Table..., Rename, Show query information..., Hide from users, Remove, Manage filters, Auto-arrange, and Properties. The right pane shows 'Diagram settings' with options for Cardinality, Focus mode, and Degrees of separation.

8. Save the dataset after preparing the data



9. Open “Content” from the menu bar

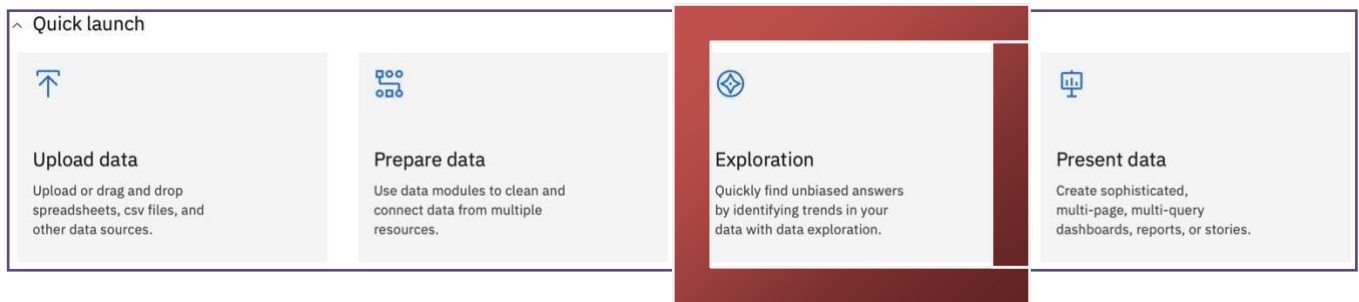
You can access the uploaded and stored data here.



DATA EXPLORATION PHASE

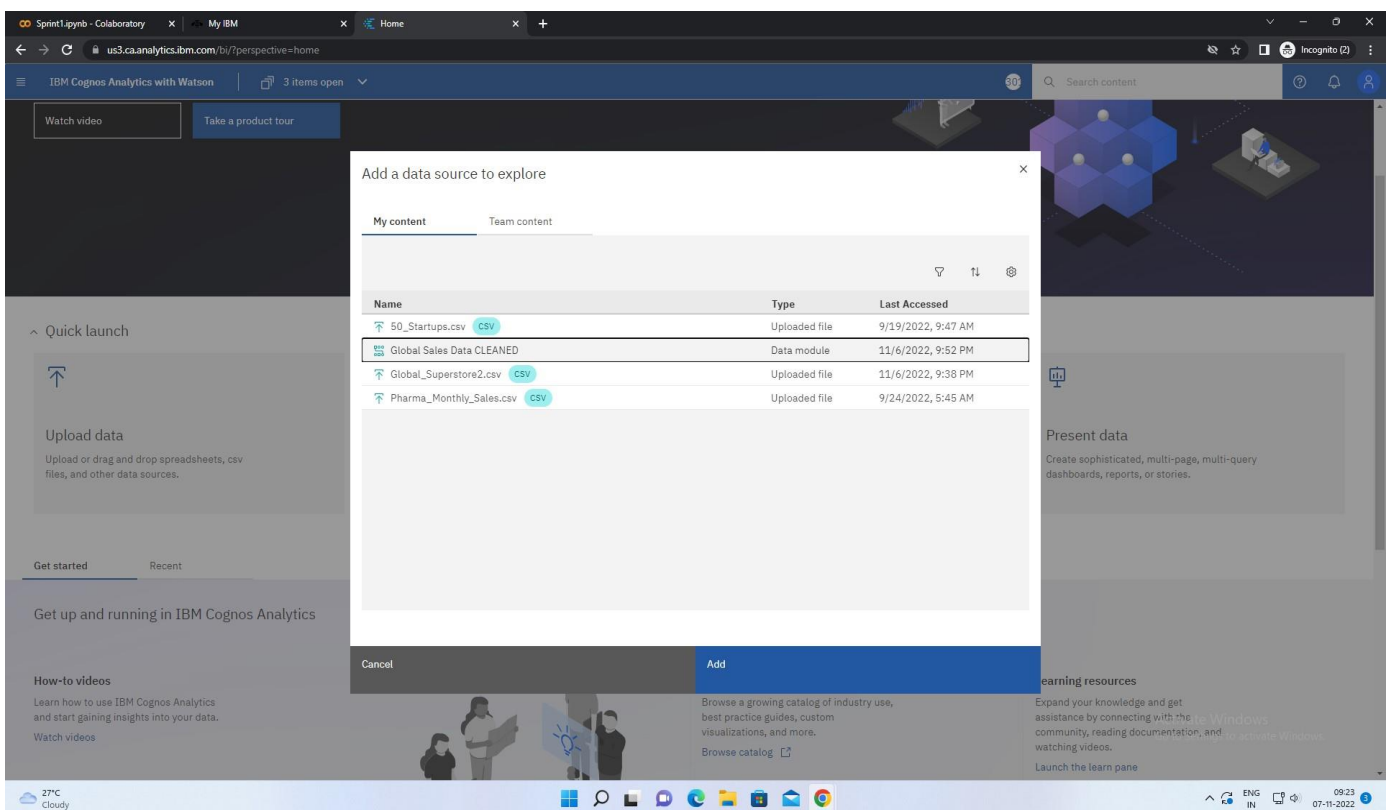
10. Data Exploration

To analyze the information, select the Exploration option.

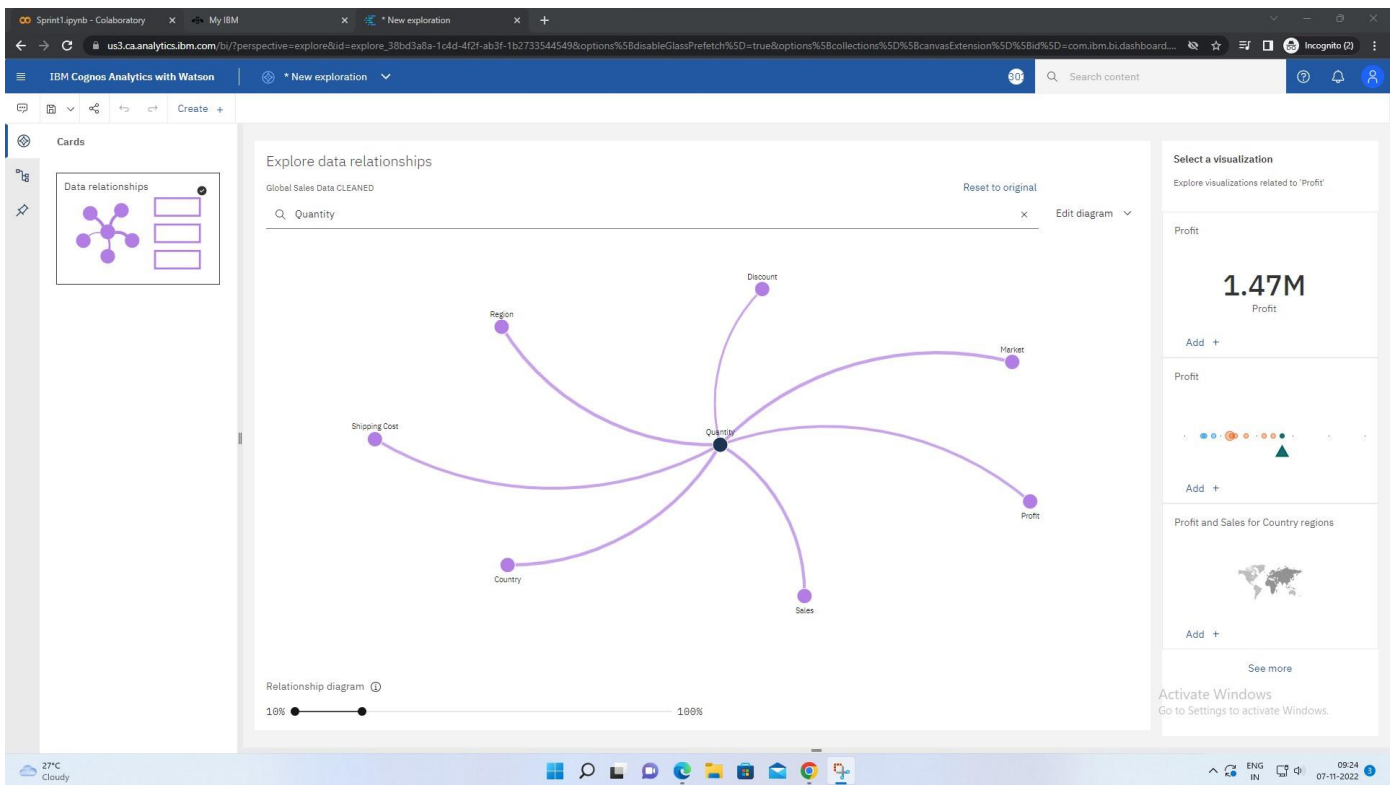


11. Select the Data to be explored

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



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



13. Save the exploration

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

Profit and Sales for Country regions

See more

Activate Windows

Go to Settings to activate Windows.