

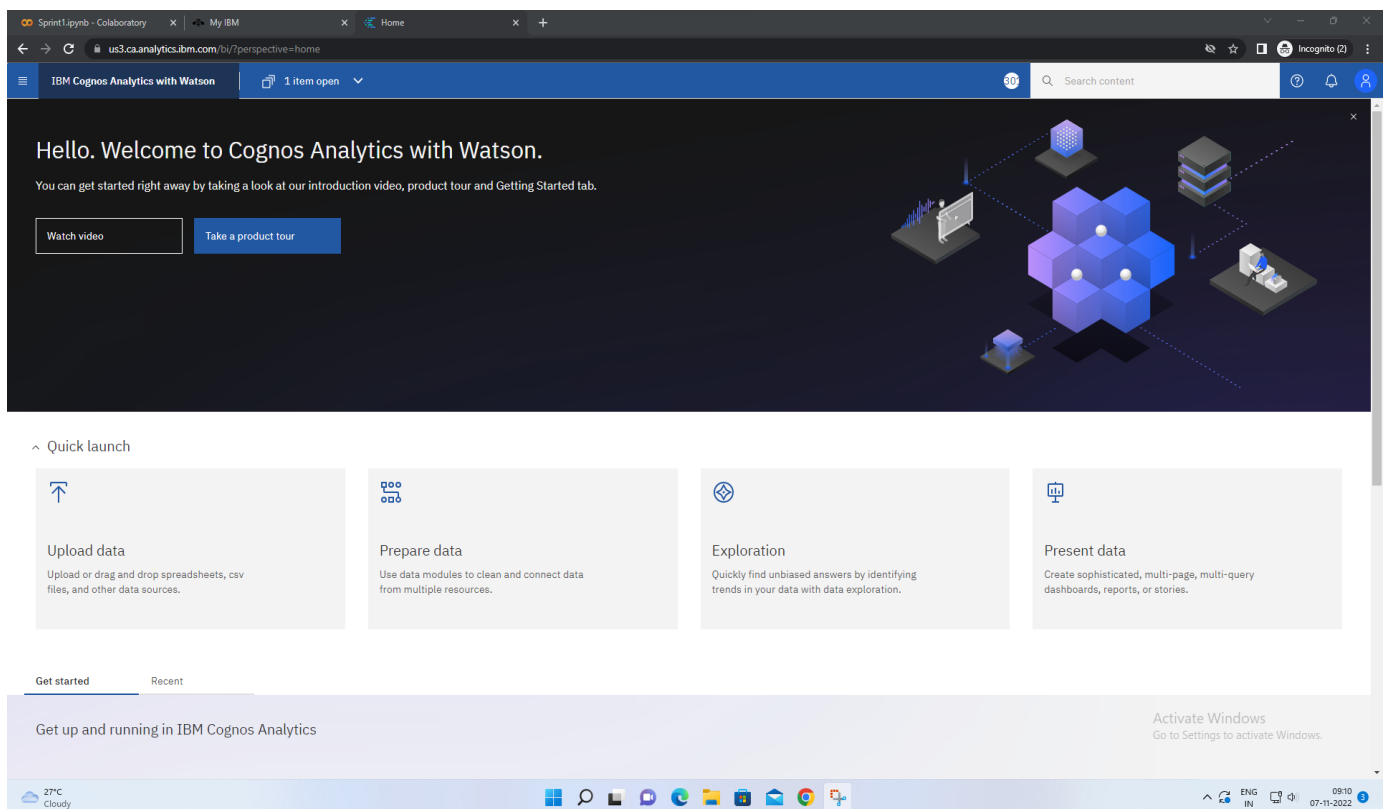
PROJECT DEVELOPMENT PHASE

DELIVERY OF SPRINT - 2

Date	12 November 2022
Team ID	PNT2022TMID14326
Project Name	Global Sales Data Analytics
Team Leader	Madhav K

DATA PREPARATION PHASE

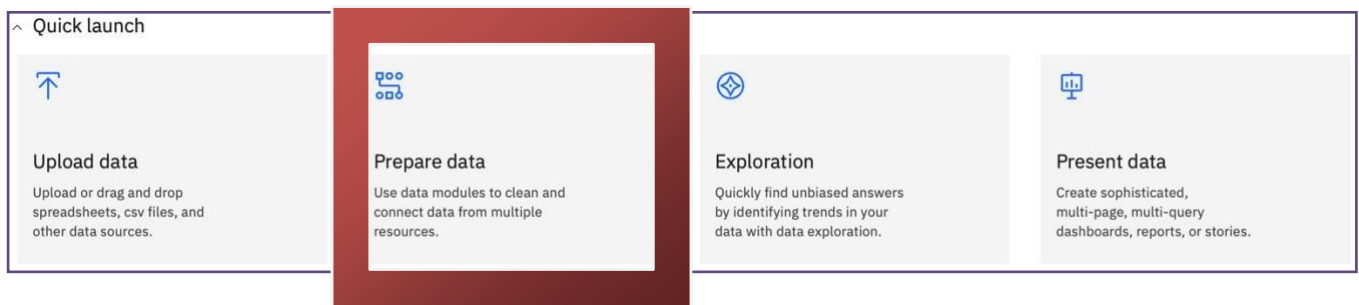
1. Open IBM Cognos Dashboard



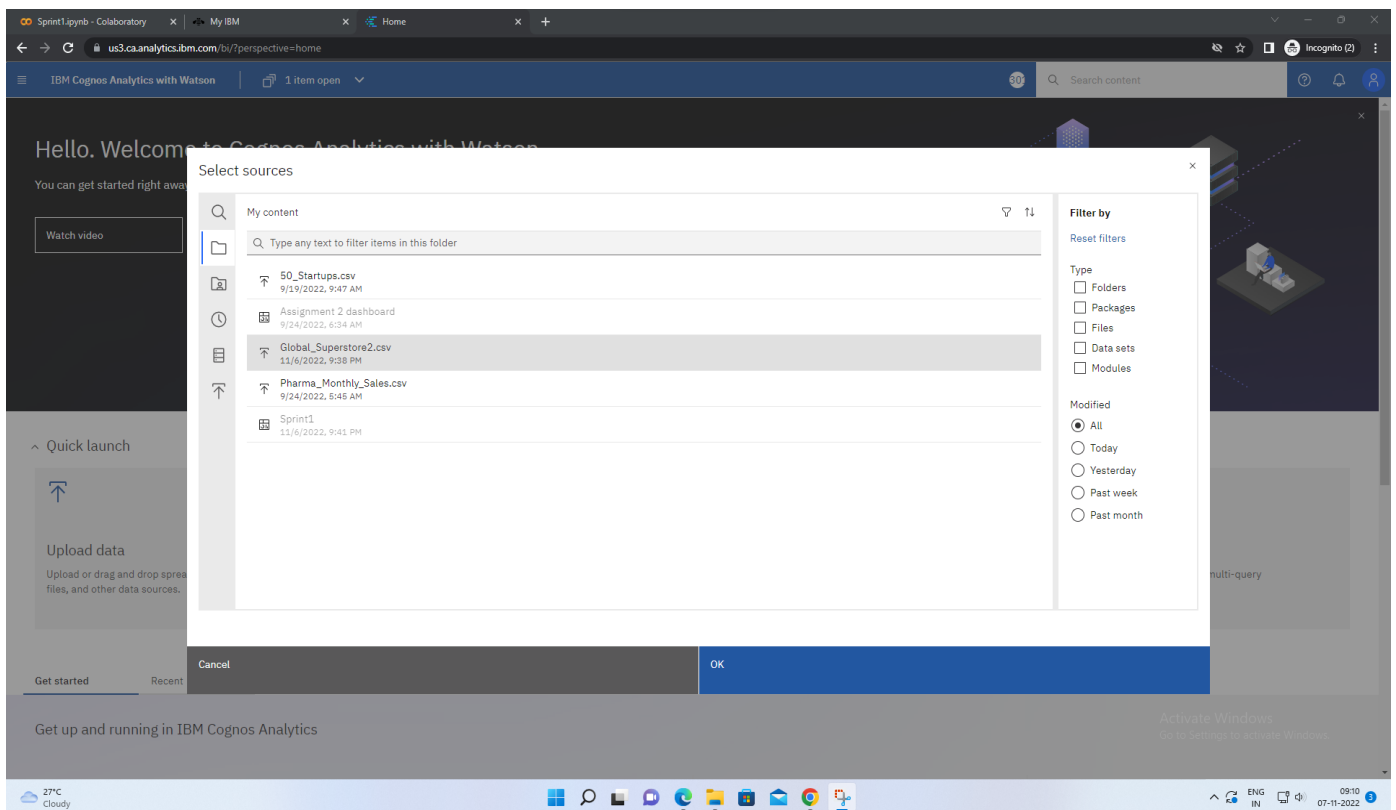
Preparation phase:

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 left sidebar contains a 'Data module' section with a search bar and a list of navigation paths. The main area displays a 'Preview data' message with a calendar icon and the text: 'To preview data, select a table, a column in a table, or a folder that contains columns.'

Activate Windows
Go to Settings to activate Windows.

5. Understanding the Data

The screenshot shows the IBM Cognos Analytics interface with a data table. The table has columns: Row ID, Order ID, Order Date, Ship Date, Ship Mode, Customer ID, Customer Name, and Segment. The data is as follows:

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-2013-72851	2013-06-06	2013-06-08	Second Class	DF-19120	Peter 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 lists various fields like Order ID, Ship Date, Customer ID, etc. The main area displays a table with 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 like 'Filter...', 'Create data group...', 'Create navigation path...', 'Split...', 'Hide from users', 'Remove', 'Format data...', 'Clean...', 'Sort descending', 'Sort ascending', and 'Properties'.

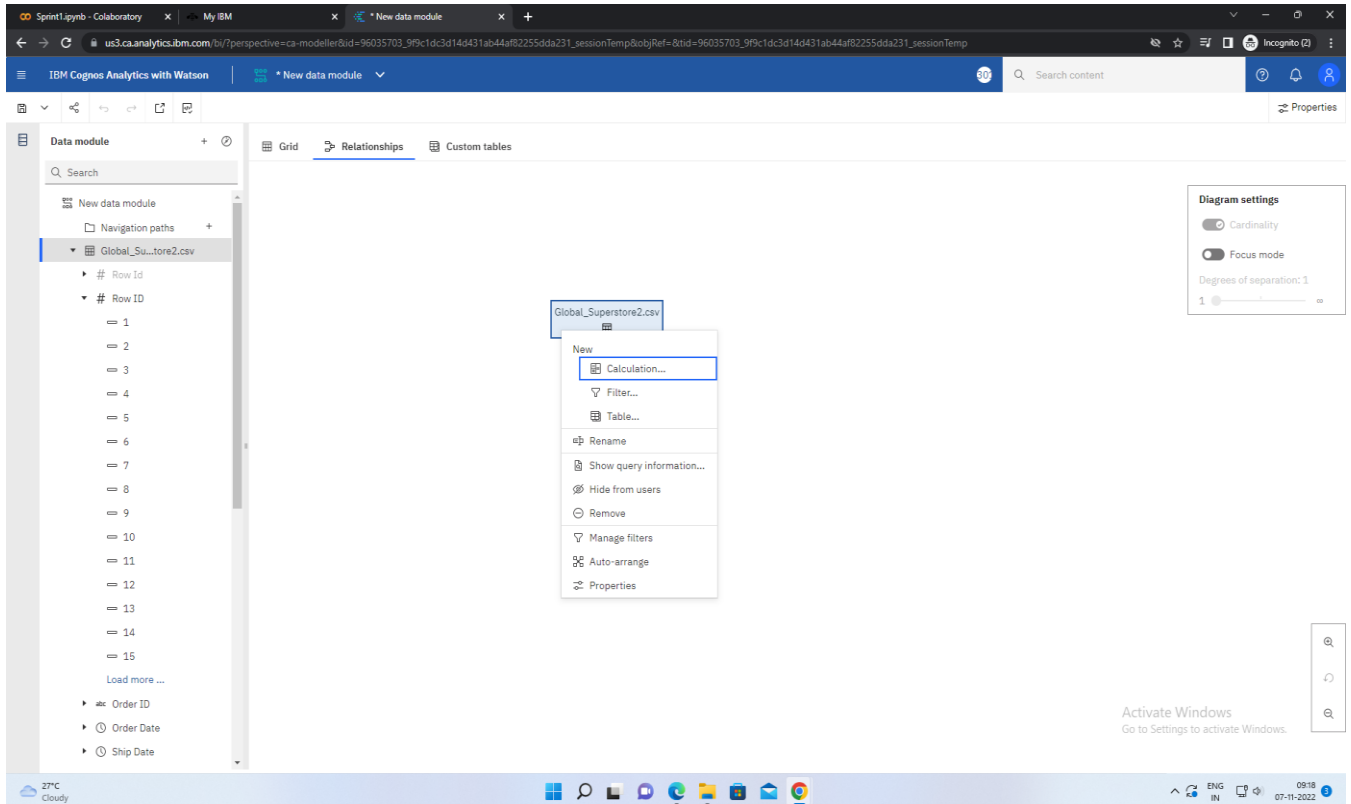
category	Sub-Category	Product Name	Quantity	Discount	Profit	Shipping Cost	Order Priority
technology	Accessories	Plantronics Over-the-ear Headset	7	0	762.1845	933.57	Critical
furniture	Chairs	Novime Leather Chair	9	0.1	-288.765	923.63	Critical
technology	Phones	Nokia Smartphone	9	0.1	919.971	915.49	Medium
technology	Phones	Motorola Cordless Phone	5	0.1	-96.54	910.16	Medium
technology	Copiers	Sharp High-Speed Copier	8	0	311.52	903.04	Critical
technology	Phones	Samsung Galaxy S21	5	0.1	763.275	897.35	Critical
furniture	Chairs	Novime Leather Adjustable Chair	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
office Supplies	Appliances	KitchenAid Microwave, 3701.57	12	0	1036.08	804.54	Critical

Choose the required fields to be filtered

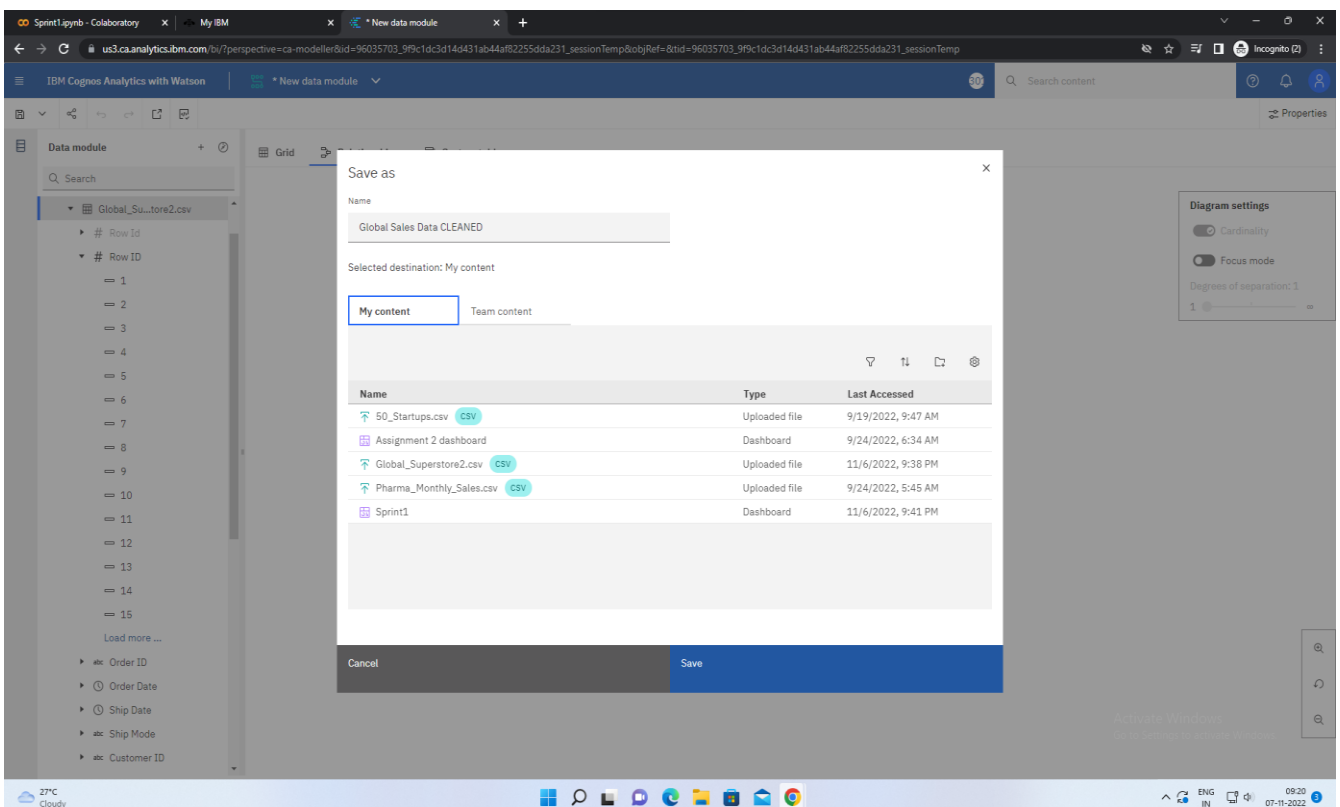
The screenshot shows the same IBM Cognos Analytics interface, but with a 'Filter - Region' dialog box open. The dialog box has a search bar and a list of regions with checkboxes. 'Canada' is selected. The background table is dimmed, showing columns: Region, Product ID, Category, Sub-Category, Product Name, Sales, Quantity, Discount, and Profit.

Region	Product ID	Category	Sub-Category	Product Name	Sales	Quantity	Discount	Profit
East	TEC-AD-10001350	Technology	Accessories	Plantronics CS510	762.1845	7	0	762.1845
Oceania	FUR-CH-10002033	Furniture	Chairs	Novime Leather Chair	-288.765	9	0.1	-288.765
Oceania	TEC-CIS-10001717	Technology	Phones	Nokia Smartphone	919.971	9	0.1	919.971
Central	FUR-TA-10001889	Furniture	Tables	Chromcraft Bull-Nose Wood Oval Conference Tables & Bases	-96.54	5	0.1	-96.54
Africa	TEC-AD-10001350	Technology	Accessories	Plantronics CS510	311.52	8	0	311.52
Oceania	FUR-CH-10002033	Furniture	Chairs	Novime Leather Adjustable Chair	564.84	4	0	564.84
Oceania	TEC-AD-10001350	Technology	Accessories	Plantronics CS510	763.275	5	0.1	763.275
Oceania	FUR-CH-10002033	Furniture	Chairs	Novime Leather Adjustable Chair	897.35	4	0	897.35
West	TEC-AD-10001350	Technology	Accessories	Plantronics CS510	996.48	6	0	996.48
South	TEC-CIS-10001717	Technology	Phones	Nokia Smartphone	1906.485	5	0.2	1906.485
South	FUR-CH-10002033	Furniture	Chairs	Novime Leather Adjustable Chair	-1862.3124	13	0.4	-1862.3124
Central Asia	FUR-TA-10001889	Furniture	Tables	Chromcraft Bull-Nose Wood Oval Conference Tables & Bases	83.281	5	0	83.281
EMEA	TEC-CIS-10001717	Technology	Phones	Nokia Smartphone	647.55	5	0	647.55
South	FUR-CH-10002033	Furniture	Chairs	Novime Leather Adjustable Chair	1151.4	4	0	1151.4
North Asia	TEC-AD-10001350	Technology	Accessories	Plantronics CS510	622.02	7	0	622.02
North Asia	TEC-AD-10001350	Technology	Accessories	Plantronics CS510	1036.08	12	0	1036.08

7. Creating Relationships among the data

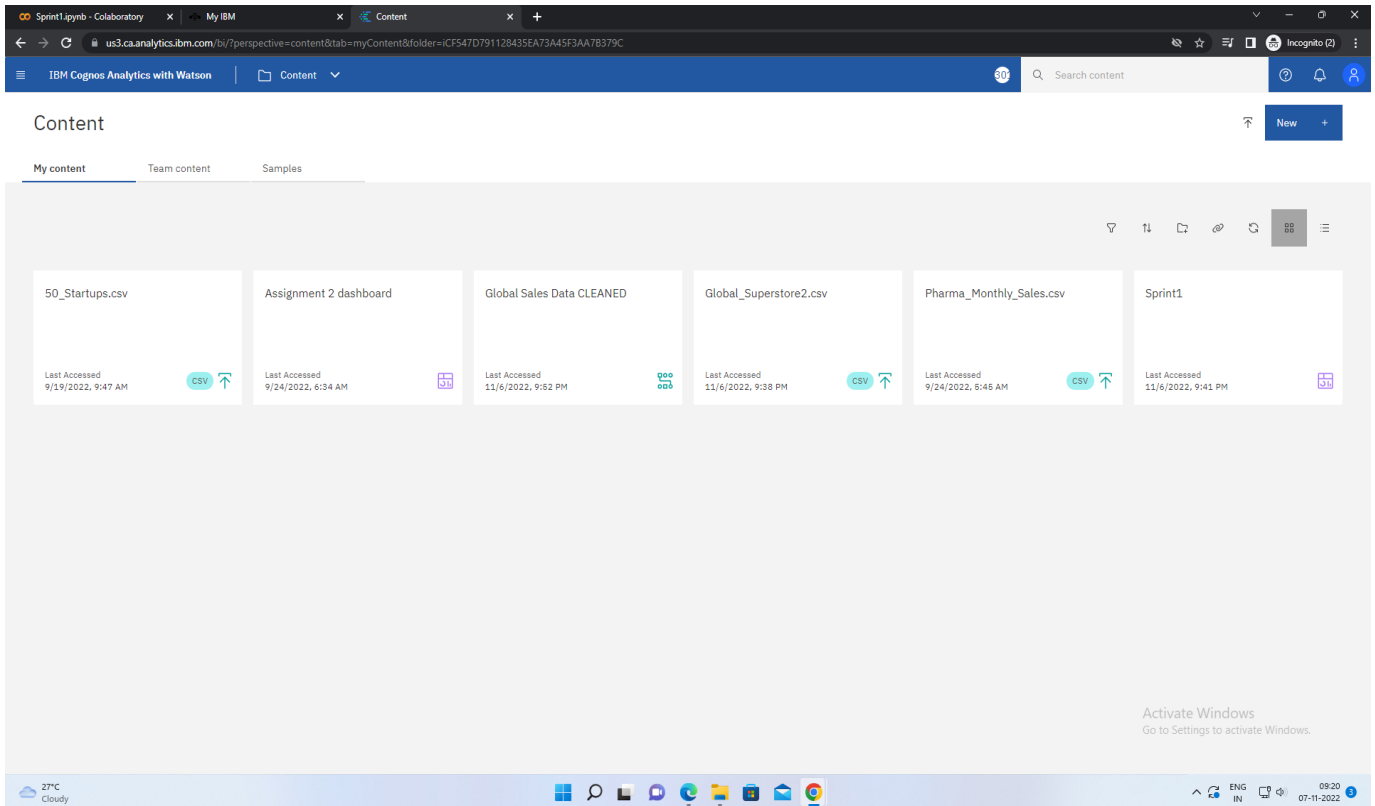


8. Save the dataset after preparing the data



9. Open “Content” from the menu bar

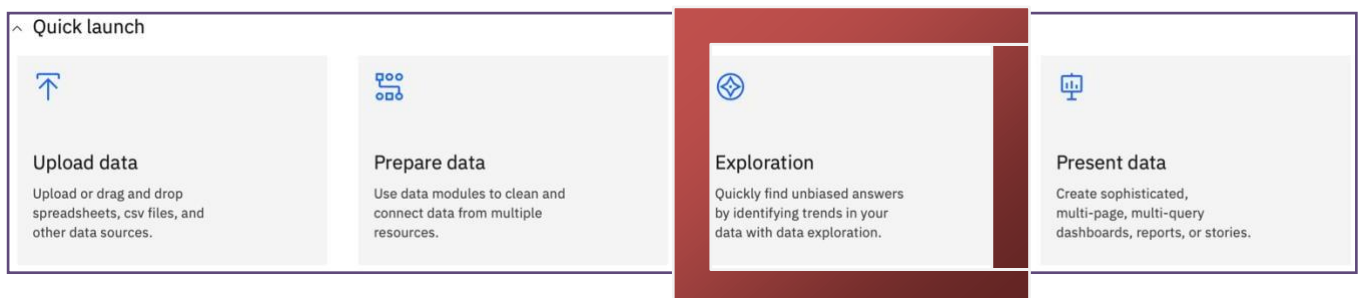
You can access the uploaded and stored data here.



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 web 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 several CSV files and a data module, all of which have been cleaned.

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

The background interface includes a sidebar with "Quick launch" options like "Upload data", "Get started", and "Recent". The main area shows a "Present data" section with instructions on creating sophisticated dashboards and reports.

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

The screenshot displays the IBM Cognos Analytics interface with a "New exploration" view. A relationship diagram is shown, centered on the "Quantity" field, with lines connecting it to other fields: "Discount", "Market", "Profit", "Sales", "Country", and "Shipping Cost". The diagram is titled "Explore data relationships" and "Global Sales Data CLEANED".

On the right side, a "Select a visualization" panel shows a "Profit" visualization with a value of "1.47M". Below this, there are options to "Add +" and "See more".

The interface also includes a "Cards" sidebar on the left with a "Data relationships" card, and a "Relationship diagram" section at the bottom with a zoom slider set to 100%.

13. Save the exploration

IBM Cognos Analytics with Watson

Explore data

Global Sales Data CLEANED

Quantity

Save as

Name

Sprint1 exploration

Selected destination: My content

My content Team content

Name	Type	Last Accessed
50_Startups.csv 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 CSV	Uploaded file	11/6/2022, 9:38 PM
Pharma_Monthly_Sales.csv CSV	Uploaded file	9/24/2022, 5:45 AM
Sprint1	Dashboard	11/6/2022, 9:41 PM

Cancel Save

Relationship diagram

18% 100%

Select a visualization

Explore visualizations related to 'Profit'

Profit

1.47M

Profit

Profit and Sales for Country regions

See more

27°C Cloudy

09:25 07-11-2022