

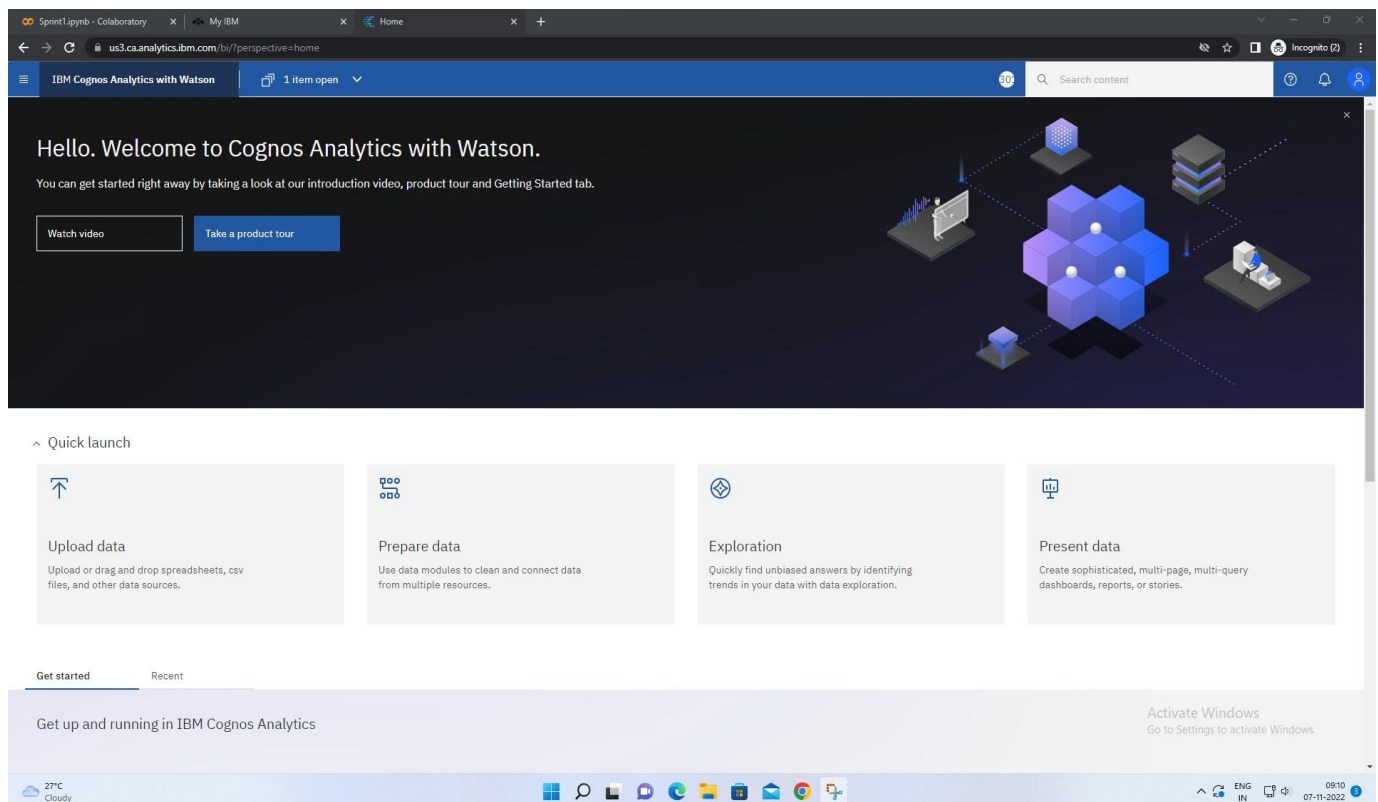
PROJECT DEVELOPMENT PHASE

DELIVERY OF SPRINT - 2

Date	09 November 2022
Team ID	PNT2022TMID21953
Project Name	Global Sales Data Analytics
Team Leader	SRI VIGNESH . P

DATA PREPARATION PHASE

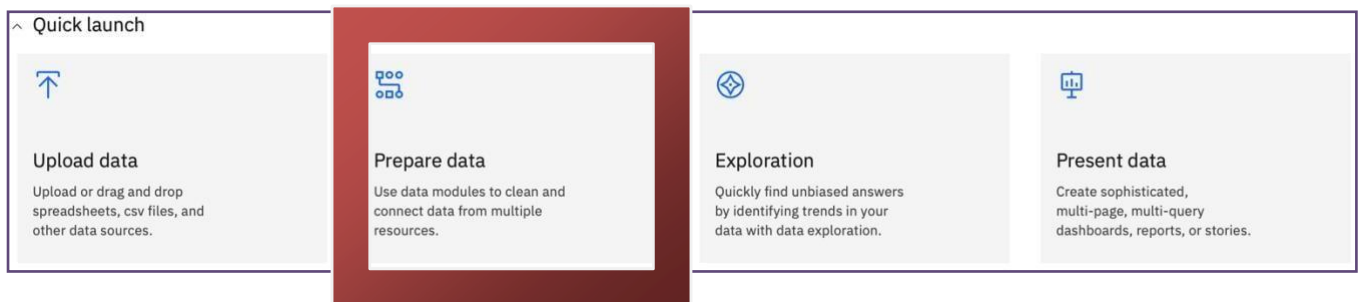
1. Open IBM Cognos Dashboard



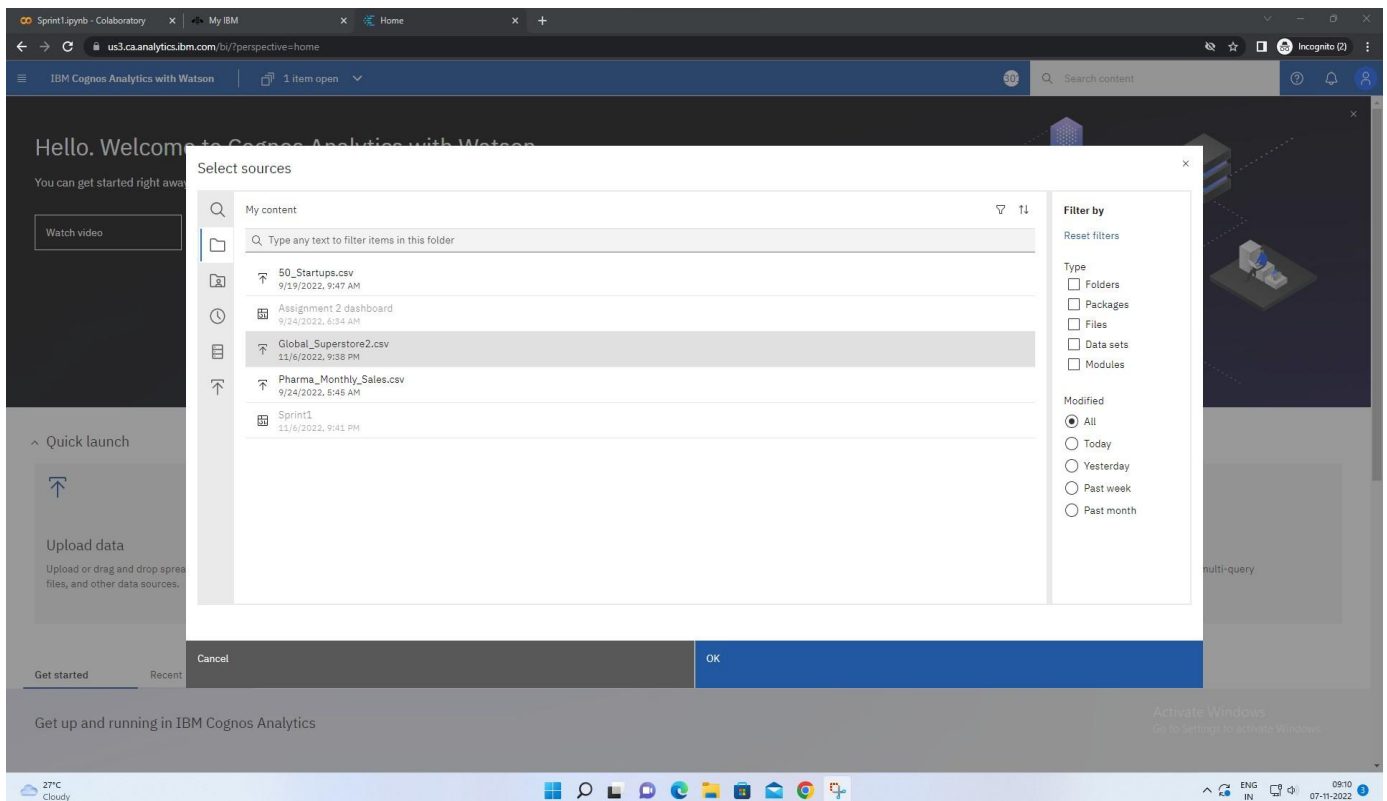
Preparation phase:

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' icon and the following text:

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

At the bottom right, there is a message: 'Activate Windows Go to Settings to activate Windows.'

5. Understanding the Data

The screenshot shows the IBM Cognos Analytics interface with a data table displayed. The table has the following 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	32298	CA-2012-124891	2012-07-31	2012-07-31	Same Day	RH-19495	Rick Hansen	Consumer
2	26341	IN-2013-77878	2013-02-05	2013-02-07	Second Class	JR-16210	Justin Ritter	Corporate
3	25330	IN-2013-71249	2013-10-17	2013-10-18	First Class	CR-12730	Craig Reiter	Consumer
4	13524	ES-2013-1579342	2013-01-28	2013-01-30	First Class	KM-16375	Katherine Murray	Home Office
5	47221	SG-2013-4320	2013-11-05	2013-11-06	Same Day	RH-9495	Rick Hansen	Consumer
6	22732	IN-2013-42360	2013-06-28	2013-07-01	Second Class	JM-15655	Jim Mitchum	Corporate
7	30570	IN-2011-81826	2011-11-07	2011-11-09	First Class	TS-21340	Toby Swindell	Consumer
8	31192	IN-2012-86369	2012-04-14	2012-04-18	Standard Class	MB-18085	Mick Brown	Consumer
9	40155	CA-2014-135909	2014-10-14	2014-10-21	Standard Class	JW-15220	Jane Waco	Corporate
10	40936	CA-2012-116638	2012-01-28	2012-01-31	Second Class	JH-15985	Joseph Holt	Consumer
11	34577	CA-2011-102988	2011-04-05	2011-04-09	Second Class	GM-14695	Greg Maxwell	Corporate
12	28879	ID-2012-28402	2012-04-19	2012-04-22	First Class	AJ-10780	Anthony Jacobs	Corporate
13	45794	SA-2011-1830	2011-12-27	2011-12-29	Second Class	MM-7260	Magdelene Morse	Consumer
14	4132	MX-2012-130015	2012-11-13	2012-11-13	Same Day	VF-21715	Vicky Freyhan	Home Office
15	27704	IN-2013-73951	2013-06-06	2013-06-08	Second Class	DF-19120	Dexter Fuller	Consumer

6. Filtering the data

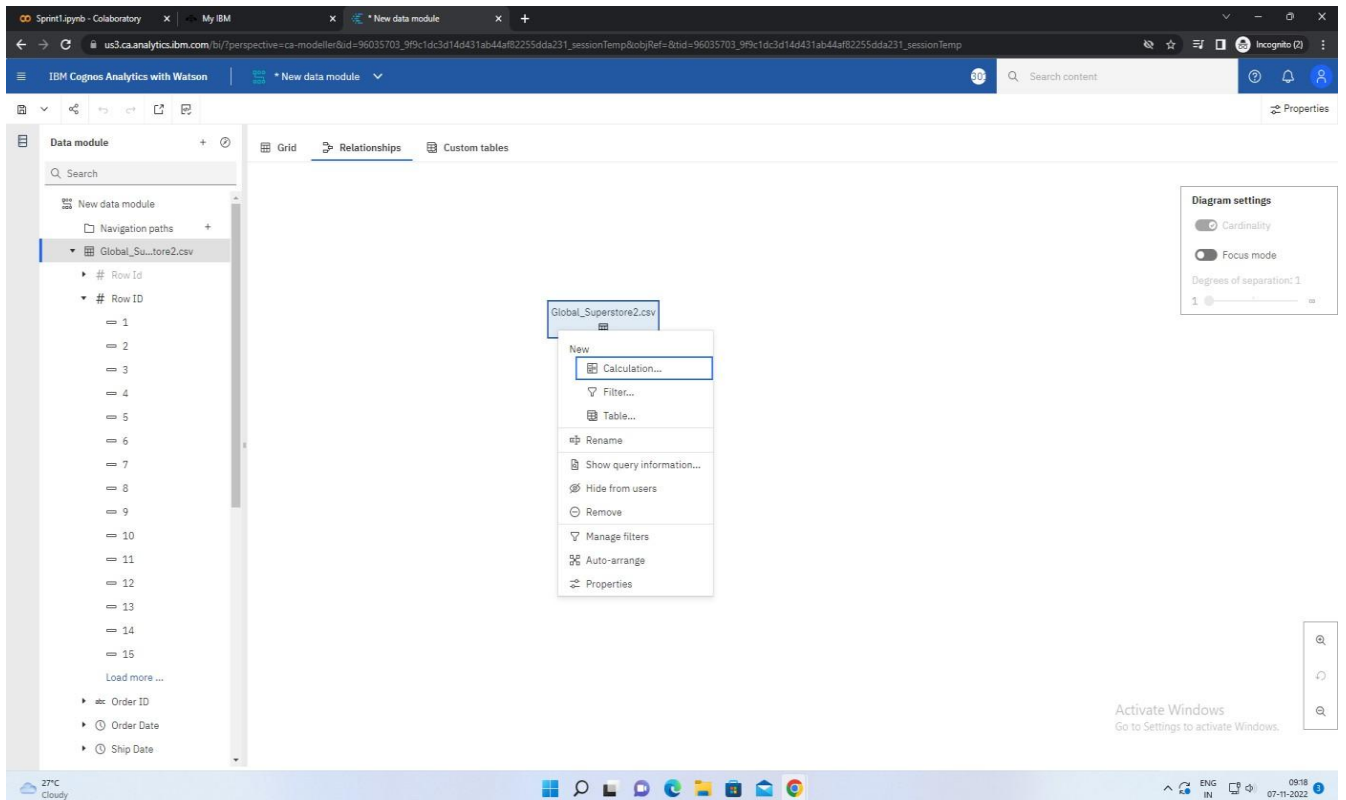
Sort the data to meet your needs and eliminate any extraneous information.

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists various fields including 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 table with columns: 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 table data includes rows for various products like Plantronics Over-the-monaural Headset, Novime Leather, Nokia Smart Phone, Motorola Cordless, Sharp Wireless, Samsung with Call, Novime Leather Adjustable, Chromcraft Conference Table, Fellowes PB500 Electric Punch Plastic Comb Binding Machine with Manual Bind, Chromcraft Bull-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.

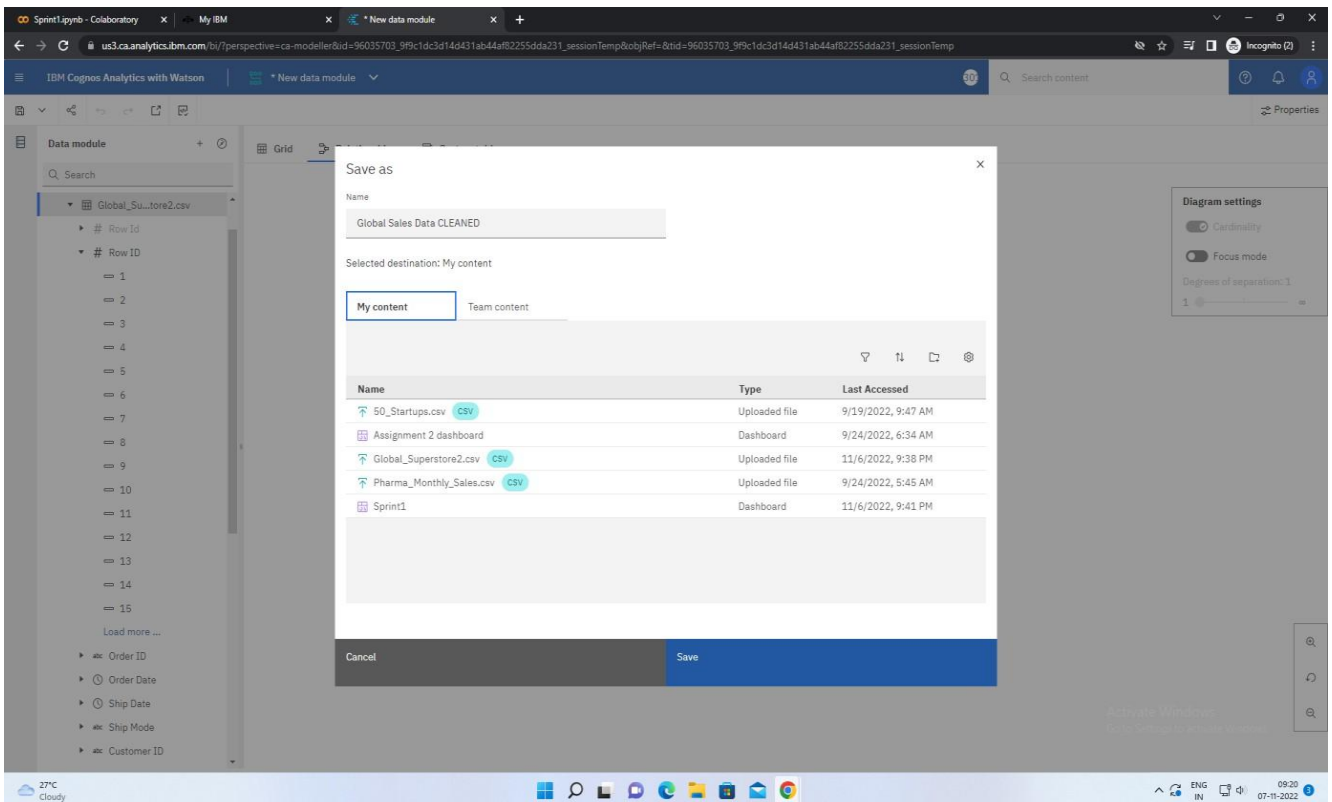
Choose the required fields to be filtered

The screenshot shows the IBM Cognos Analytics interface with a 'Filter - Region' dialog box open. The dialog box has a search bar and a list of regions with checkboxes: Africa, Canada (checked), Caribbean, Central, Central Asia, EMEA, East, and North. Below the list are 'Clear all' and 'Invert' buttons. At the bottom of the dialog are 'Cancel' and 'OK' buttons. The background table shows data filtered by region, with columns: Region, Product ID, Category, Sub-Category, Product Name, Sales, Quantity, Discount, and Profit. The table data includes rows for various products like Plantronics CS510, Bevis Conference Table, Fully Assembled, Cisco Smart Phone, with Caller ID, Harbour Creations Executive Leather Armchair, Adjustable, and KitchenAid Microwave.

7. Creating Relationships among the data

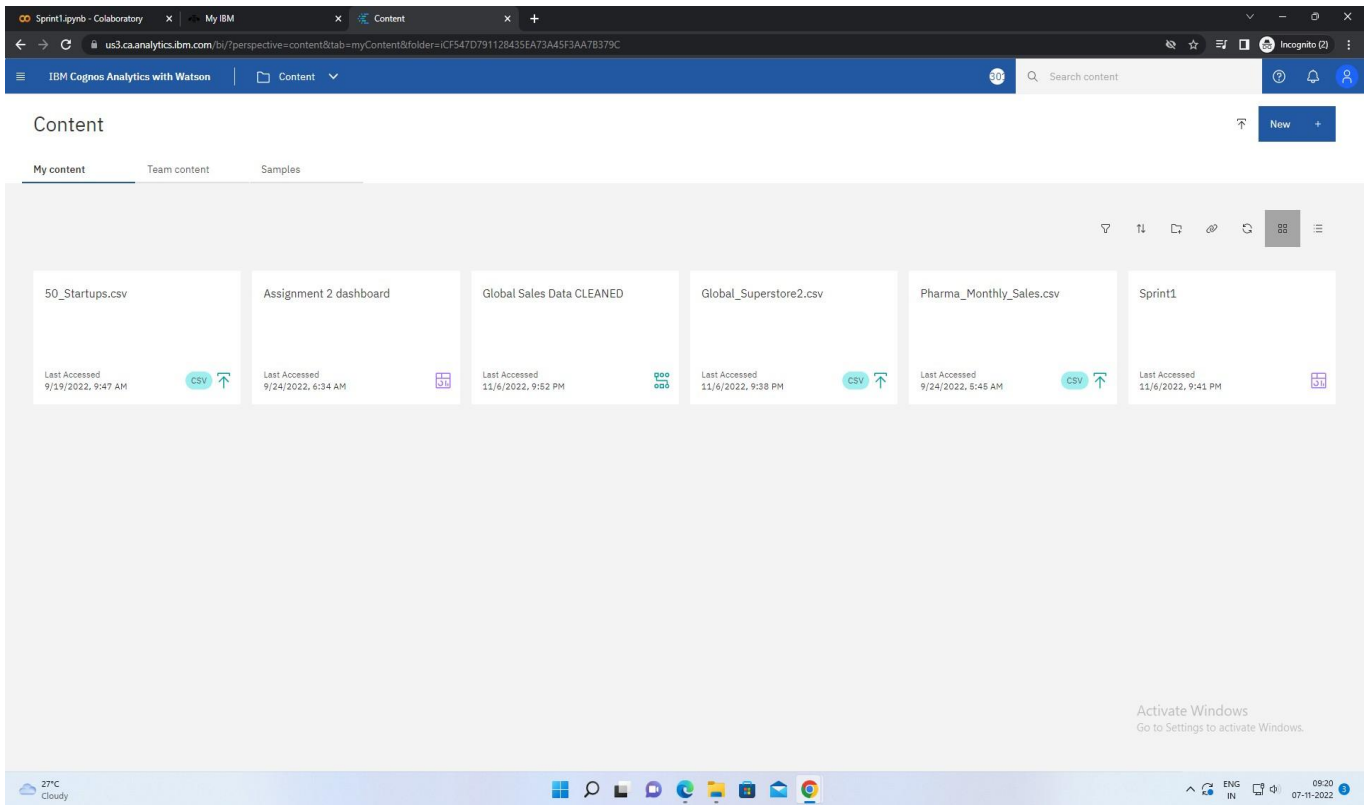


8. Save the dataset after preparing the data



9. Open “Content” from the menu bar

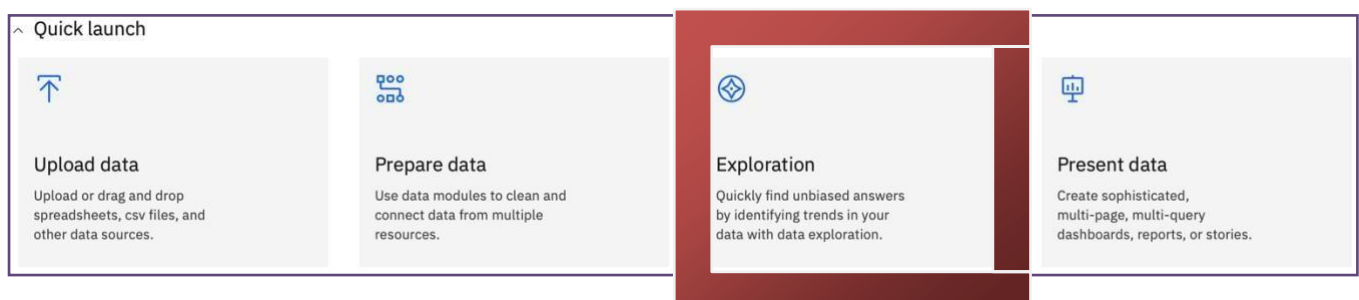
You can access the uploaded and stored data here.



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, with "Global Sales Data CLEANED" highlighted. The background interface includes a sidebar with "Quick launch" and "Upload data" options, and a main area with "Present data" and "Learning resources" sections.

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 web interface in the "New exploration" view. A relationship diagram is displayed for the data source "Global Sales Data CLEANED". The diagram shows "Quantity" as the central node, connected to several other nodes: "Region", "Discount", "Market", "Profit", "Sales", "Country", and "Shipping Cost". The interface includes a sidebar with "Cards" and a "Data relationships" section. The main area is titled "Explore data relationships" and includes a search bar for "Quantity". The right sidebar shows a "Select a visualization" section with a "Profit" card displaying "1.47M".

Relationship diagram ①

10% 100%

13. Save the exploration

The screenshot shows the IBM Cognos Analytics interface with a 'Save as' dialog box open. The dialog box has a 'Name' field containing 'Sprint1 exploration' and a 'Selected destination' of 'My content'. Below this is a table listing existing content items.

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

The background interface shows a 'Cards' panel on the left with a 'Data relationships' diagram. The main area is titled 'Explore data' and shows a 'Global Sales Data' table with a 'Quantity' filter. On the right, there is a 'Select a visualization' panel with a 'Profit' chart showing a value of 1.47M.