

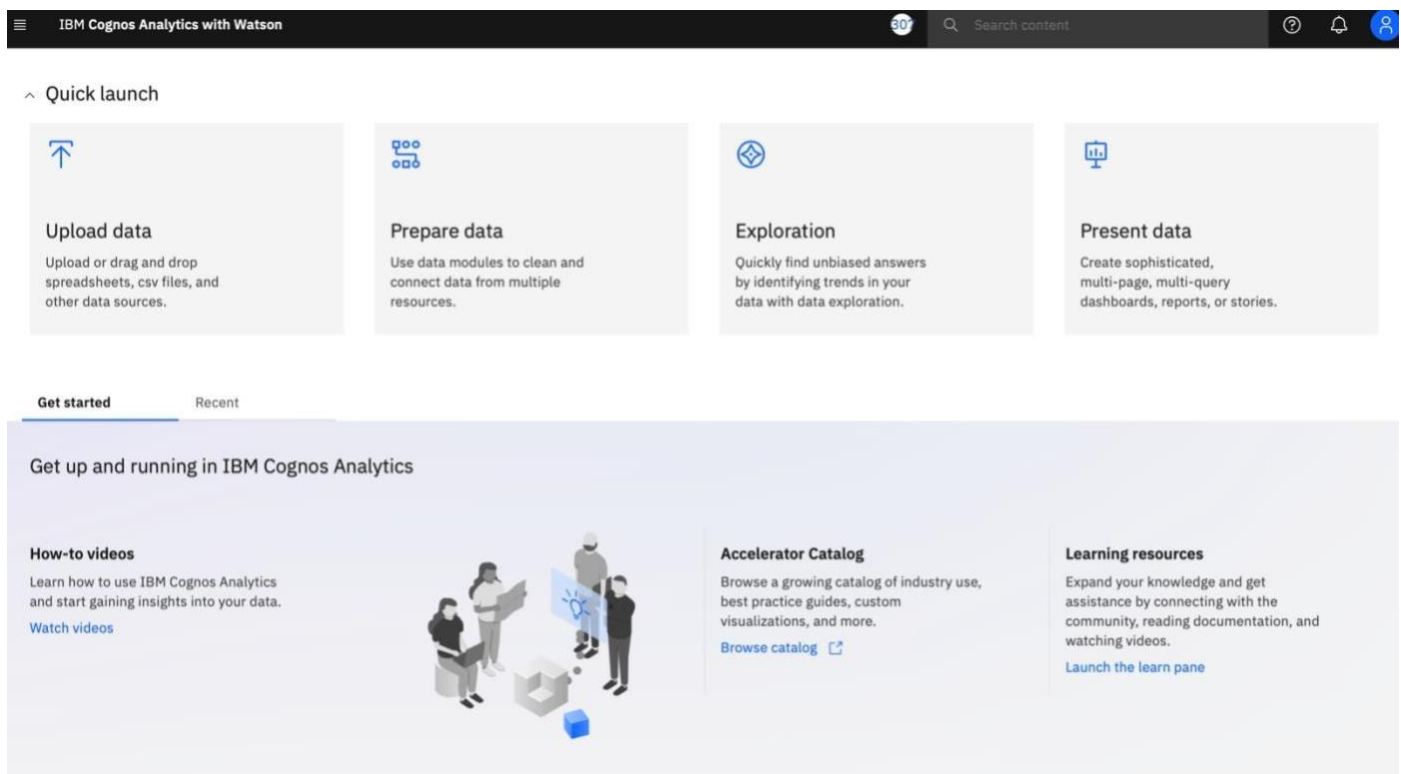
## PROJECT DEVELOPMENT PHASE

### Delivery of Sprint - 2

Date	06 Nov 2022
Team ID	PNT2022TMID50563
Project Name	Global Sales Data Analytics
Team Leader	V.Nanthini

#### • DATA PREPARATION PHASE

### 1. Open IBM Cognos Dashboard



IBM Cognos Analytics with Watson

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.

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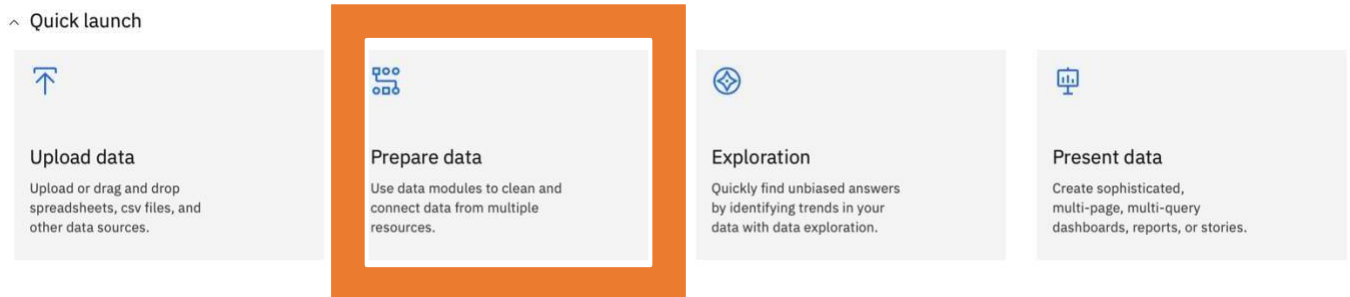
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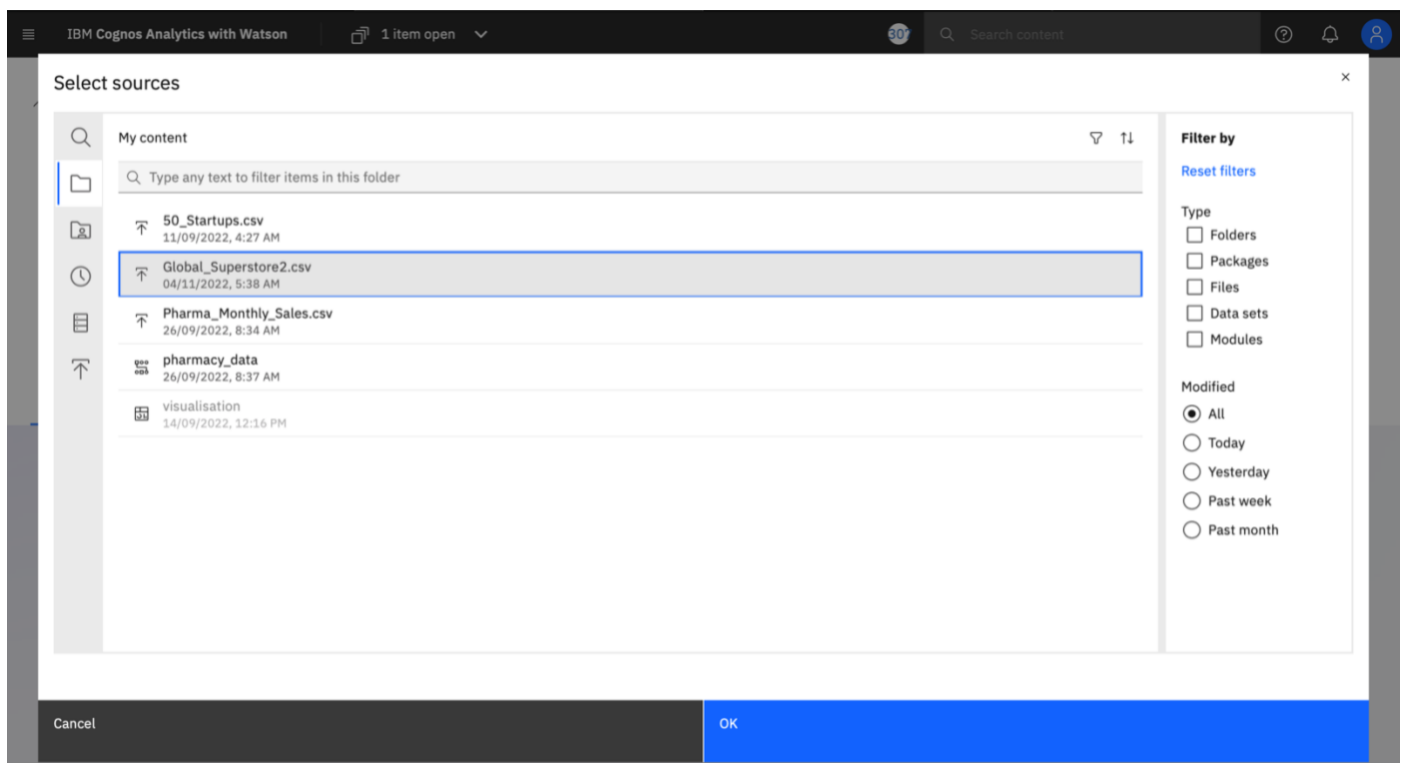
#### Preparation phase:

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

IBM Cognos Analytics with Watson

\* New data module

Search content

Properties

Data module

Grid Relationships Custom tables

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

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

Search content

Properties

Data module

Grid Relationships Custom tables

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

Row Id	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID
1	32298	CA-2012-124891	2012-07-31	2012-07-31	Same Day	RH
2	26341	IN-2013-77878	2013-02-05	2013-02-07	Second Class	JR
3	25330	IN-2013-71249	2013-10-17	2013-10-18	First Class	CR
4	13524	ES-2013-1579342	2013-01-28	2013-01-30	First Class	KM
5	47221	SG-2013-4320	2013-11-05	2013-11-06	Same Day	RH
6	22732	IN-2013-42360	2013-06-28	2013-07-01	Second Class	JM
7	30570	IN-2011-81826	2011-11-07	2011-11-09	First Class	TS
8	31192	IN-2012-86369	2012-04-14	2012-04-18	Standard Class	MB
9	40155	CA-2014-135909	2014-10-14	2014-10-21	Standard Class	JW
10	40936	CA-2012-116638	2012-01-28	2012-01-31	Second Class	JH
11	34577	CA-2011-102988	2011-04-05	2011-04-09	Second Class	GM
12	28879	ID-2012-28402	2012-04-19	2012-04-22	First Class	AJ

## 6. Filtering the data

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

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists various fields including Product Name. The main area displays a data grid with columns: Product ID, Category, Sub-Category, Product Name, Sales, and Quantity. 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'.

Product ID	Category	Sub-Category	Product Name	Sales	Quantity
TEC-AC-10003033	Technology	Accessories	Plantronics Over-the-ear monaural Headset		7
FUR-CH-10003950	Furniture	Chairs	Novimex Leather Chair		9
TEC-PH-10004664	Technology	Phones	Nokia Smartphone with Call		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 with Call		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 with a 'Filter - Region' dialog box open. The dialog box has a search bar and a list of regions with checkboxes: Africa, Canada, Caribbean, Central, Central Asia, EMEA, East, and North. The 'Clear all' button is visible. The background shows the data grid with columns: Category, Sub-Category, and Product ID.

Category	Sub-Category
Technology	Accessories
Furniture	Chairs
Technology	Phones
Technology	Phones
Technology	Copiers
Technology	Phones
Furniture	Chairs
Furniture	Tables
Office Supplies	Binders
Furniture	Tables
Office Supplies	Supplies
Furniture	Tables

## 7. Creating Relationships among the data

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' list includes 'Global\_Superstore2.csv' and its fields: # Row ID, # Row ID, abc Order ID, Order Date, Ship Date, Ship Mode, Customer ID, Customer Name, Segment, City, State, Country, Postal Code, Market, Region, and Product ID. The 'Global\_Superstore2.csv' module is selected, and a context menu is open over it. The menu options are: New, Calculation..., Filter..., Table..., Rename, Show query information..., Hide from users, Remove, Manage filters, Auto-arrange, and Properties. On the right, the 'Diagram settings' panel shows 'Cardinality' and 'Focus mode' toggles, and 'Degrees of separation: 1'.

## 8. Save the dataset after preparing the data

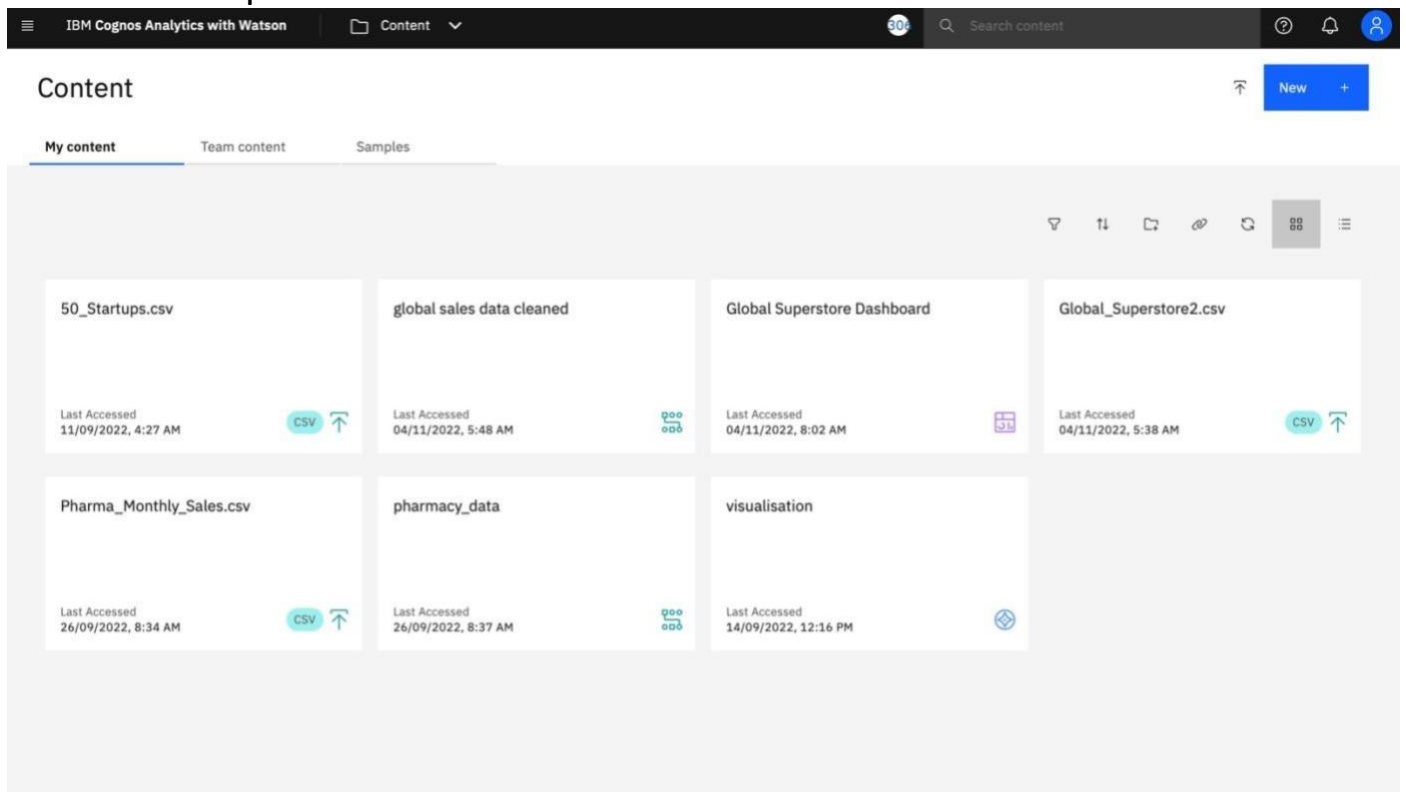
The screenshot shows the 'Save as' dialog box in IBM Cognos Analytics. The 'Name' field contains 'global sales data cleaned'. The 'Selected destination: My content' section shows a table of existing content items:

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

The dialog box has 'Cancel' and 'Save' buttons at the bottom.

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

The uploaded and saved data is available here

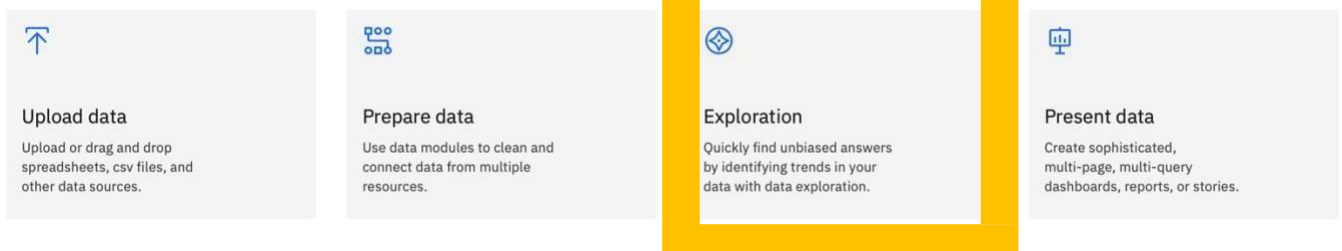


- **DATA EXPLORATION PHASE**

## 10. Data Exploration

Click on the Exploration option to explore the data

^ Quick launch



## 11. Select the Data to be explored

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

IBM Cognos Analytics with Watson

1 item open

Search content

Quick launch

Upload data

Upload or drag and drop spreadsheets, csv files, and other data sources.

Get started

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Samples

Add a data source to explore

My content Team content

Name	Type	Last Accessed
50_Startups.csv CSV	Uploaded file	11/09/2022, 4:27 AM
global sales data cleaned	Data module	04/11/2022, 5:48 AM
Global_Superstore2.csv CSV	Uploaded file	04/11/2022, 5:38 AM
Pharma_Monthly_Sales.csv CSV	Uploaded file	26/09/2022, 8:34 AM
pharmacy_data	Data module	26/09/2022, 8:37 AM

Cancel Add

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

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\* New exploration

Search content

Cards

Data relationships

Explore data relationships

global sales data cleaned

Reset to original

Quantity

Edit diagram

Region

Market

Profit

Sales

Country

Shipping Cost

Select single or multiple nodes to see visualizations.

Relationship diagram

10% 100%

Select a visualization

Explore visualizations related to 'Quantity'

Quantity

178K

Quantity

Add +

Quantity

Add +

Quantity and Sales for Region regions

## 13. Save the exploration

The screenshot shows the IBM Cognos Analytics interface with a 'Save as' dialog box open. The dialog has a 'Name' field with 'New exploration' and a 'Selected destination: My content' section. Below this, there are two tabs: 'My content' (selected) and 'Team content'. A table lists existing content items:

Name	Type	Last Accessed
50_Startups.csv CSV	Uploaded file	11/09/2022, 4:27 AM
global sales data cleaned	Data module	04/11/2022, 5:48 AM
Global Superstore Dashboard	Dashboard	04/11/2022, 8:02 AM
Global_Superstore2.csv CSV	Uploaded file	04/11/2022, 5:38 AM
Pharma_Monthly_Sales.csv CSV	Uploaded file	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 the 'Cards' section with a 'Data relationships' diagram and a 'Skip' button.