

PROJECT DEVELOPMENT PHASE

DELIVERY OF SPRINT - 2

Date	05 Nov 2022
Team ID	PNT2022TMID07554
Project Name	Global Sales Data Analytics

- **DATA PREPARATION PHASE**

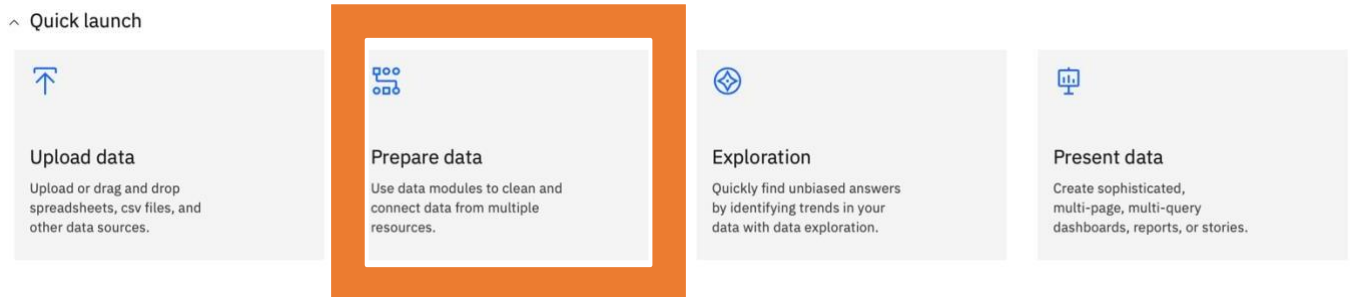
1. Open IBM Cognos Dashboard

The screenshot shows the IBM Cognos Analytics dashboard. At the top is a dark header bar with the text 'IBM Cognos Analytics with Watson', a search bar, and user profile icons. Below the header is a 'Quick launch' section with four tiles: 'Upload data' (with an upload icon), 'Prepare data' (with a data module icon), 'Exploration' (with a magnifying glass icon), and 'Present data' (with a dashboard icon). Each tile has a brief description of its function. Below this is a 'Get started' section with a 'Recent' tab. It features a large illustration of people working together around a table. To the left of the illustration is the 'How-to videos' section, which includes a link to 'Watch videos'. To the right is the 'Accelerator Catalog' section, which includes a link to 'Browse catalog'. Further right is the 'Learning resources' section, which includes a link to 'Launch the learn pane'.

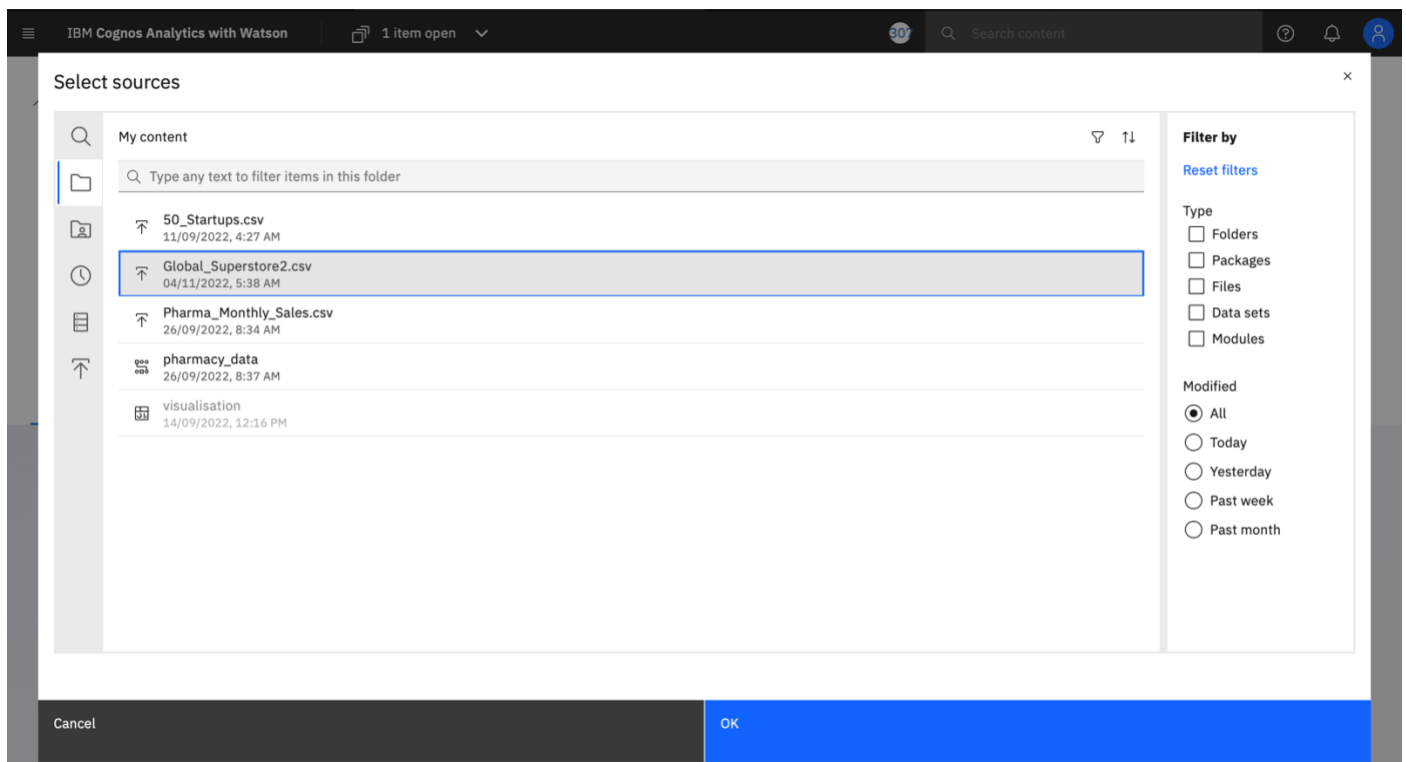
Preparation phase:

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

30

Search content

?

Properties

Data module

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

Grid

Relationships

Custom tables



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

30

Search content

?

Properties

Data module

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

Grid

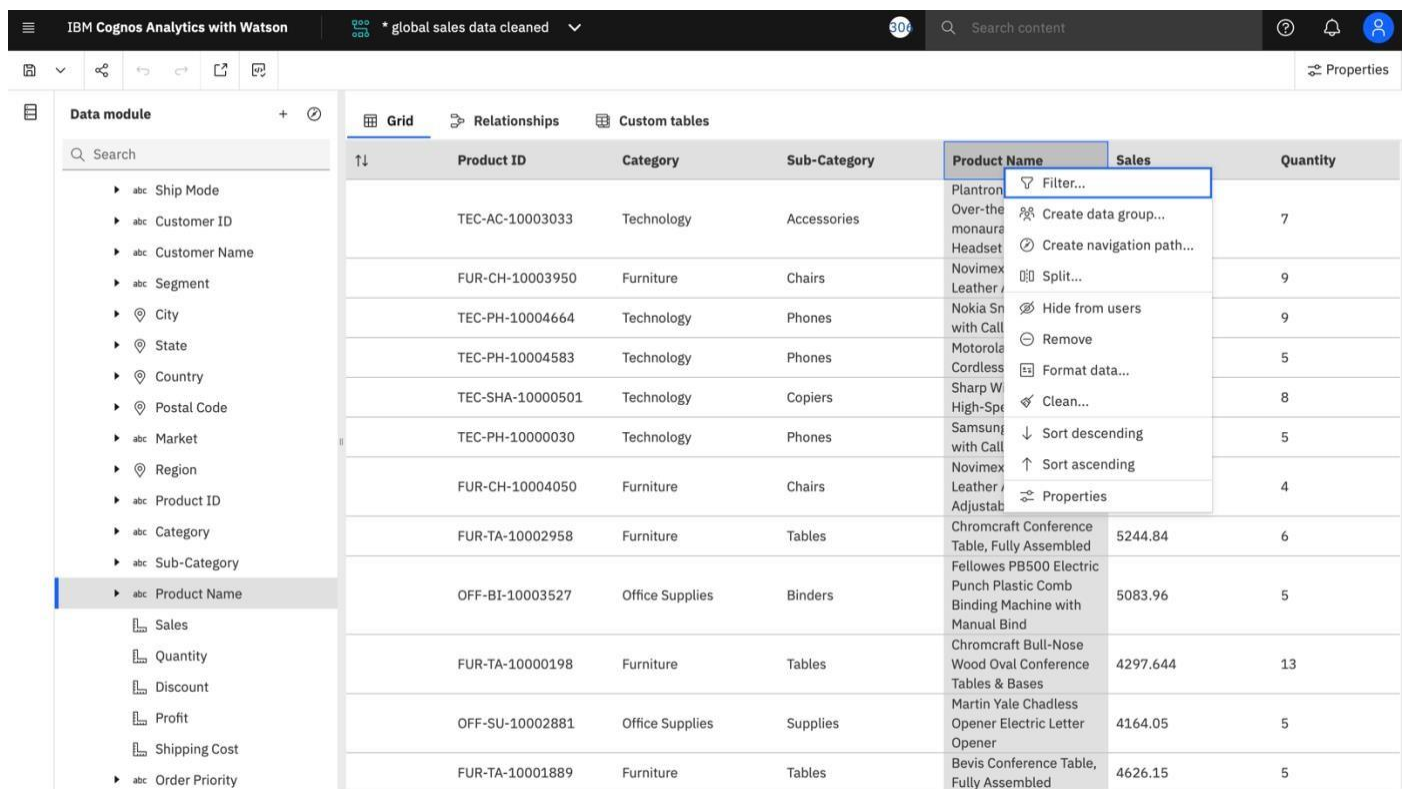
Relationships

Custom tables

Row Id	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Cu
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

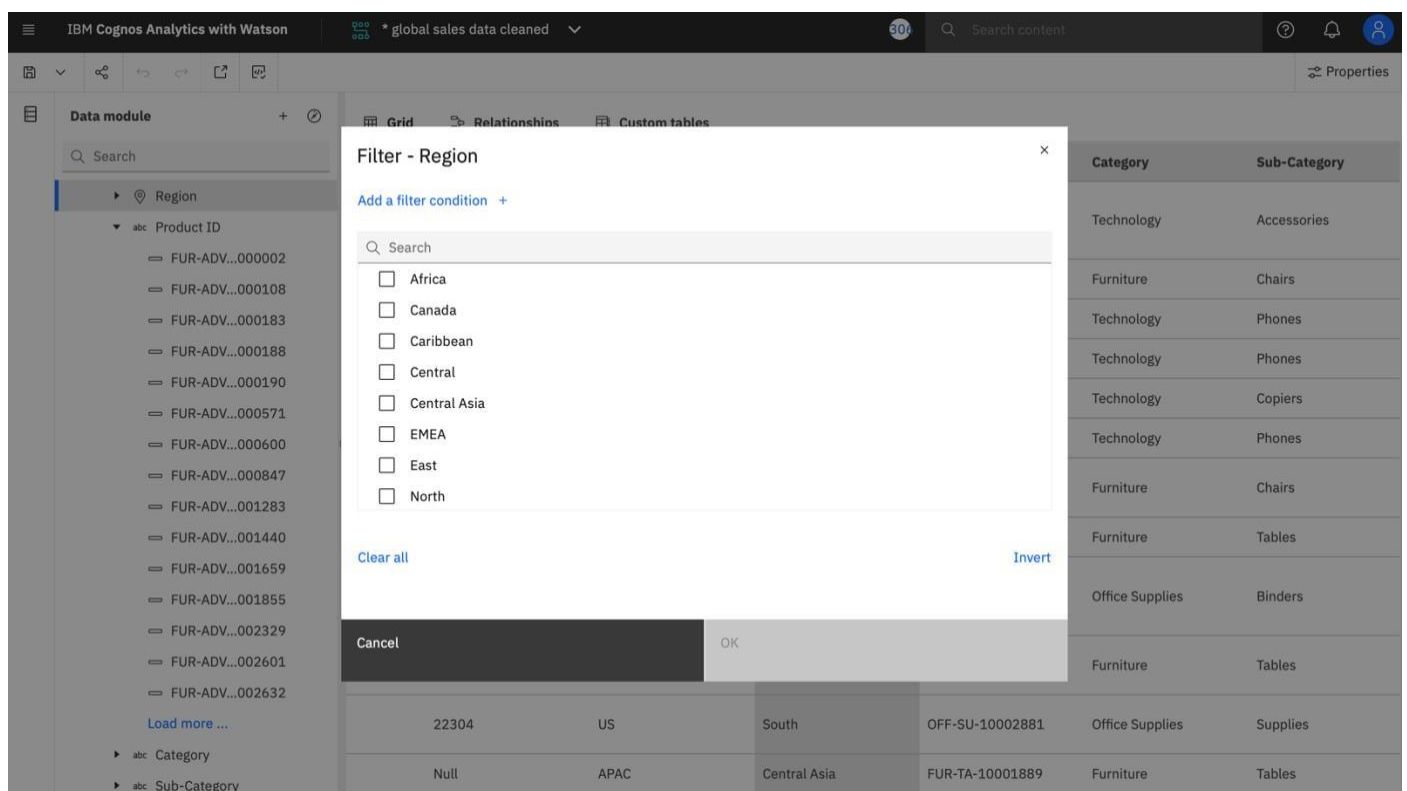
Filter the data according to the requirements and remove the unnecessary data



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 Camera		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 Camera		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 highlighted. The background shows a data grid with columns: Category, Sub-Category, and a list of product details.

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

7. Creating Relationships among the data

IBM Cognos Analytics with Watson

* global sales data cleaned

Search content

Properties

Data module

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

Product ID

FUR-ADV...000002

FUR-ADV...000108

FUR-ADV...000183

Grid Relationships Custom tables

Global_Superstore2.csv

New

Calculation...

Filter...

Table...

Rename

Show query information...

Hide from users

Remove

Manage filters

Auto-arrange

Properties

Diagram settings

Cardinality

Focus mode

Degrees of separation: 1

8. Save the dataset after preparing the data

IBM Cognos Analytics with Watson

* New data module

Search content

Properties

Data module

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

Product ID

Category

12

28879

ID-2012-28402

2012-04-19

2012-04-22

First Class

AJ-

Ship Mode

Cur

Same Day

RH

Second Class

JR-

First Class

CR

First Class

KM

Same Day

RH

Second Class

JM

First Class

TS-

Standard Class

MB

Standard Class

JW

Second Class

JH-

Second Class

GM

First Class

AJ-

Save as

Name

global sales data cleaned

Selected destination: My content

My content Team content

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

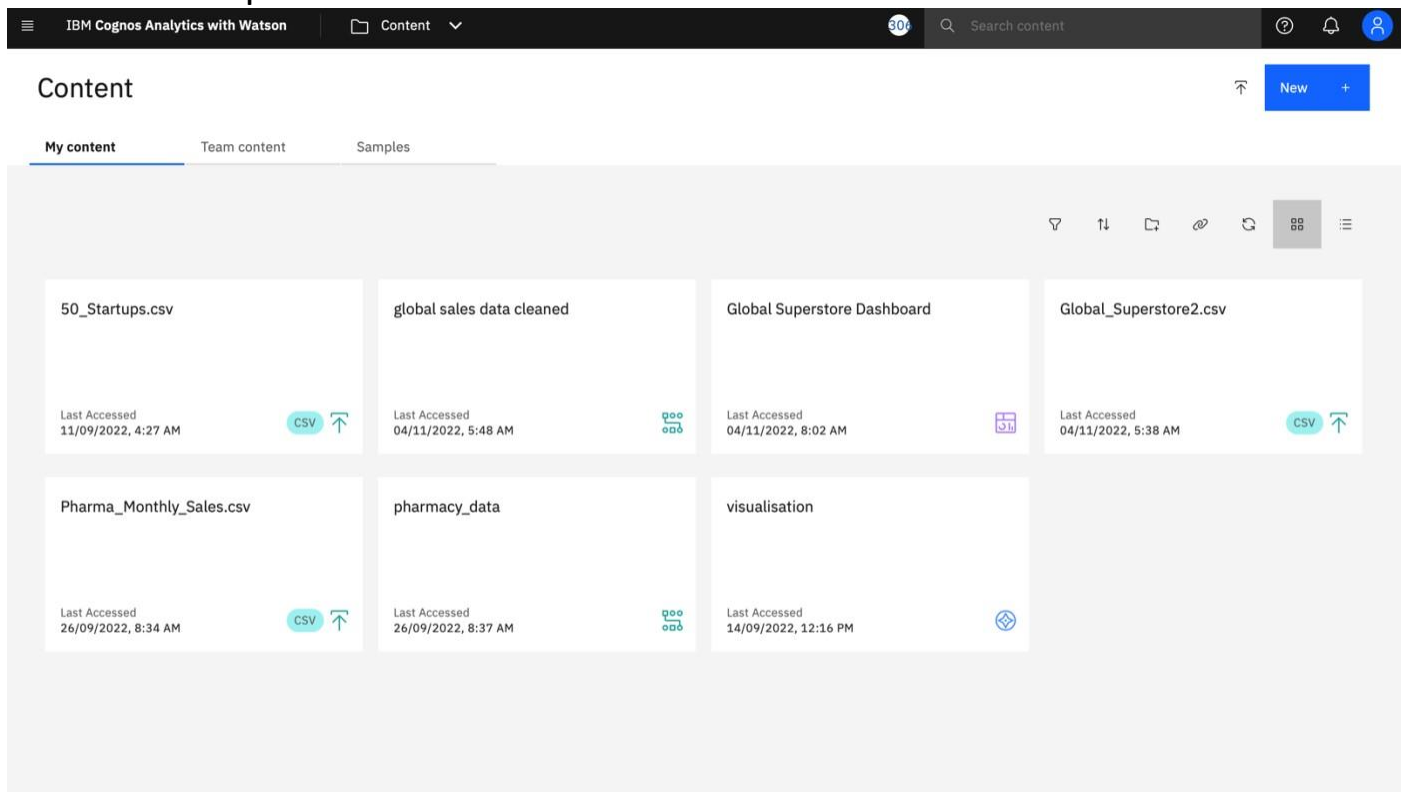
pharmacy_data Data module 26/09/2022, 8:37 AM

visualisation Exploration 14/09/2022, 12:16 PM

Cancel Save

9. Open “Content” from the menu bar

The uploaded and saved data is available here

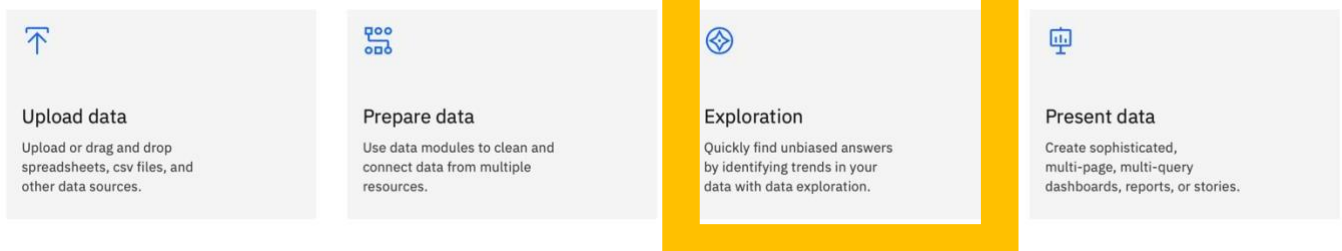


- **DATA EXPLORATION PHASE**

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

Get up and running in IBM Cognos Analytics

How-to videos

Learn how to use IBM Cognos Analytics and start gaining insights into your data.

Watch videos

Samples

Add a data source to explore

My content

Team content

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

Cancel

Add

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

IBM Cognos Analytics with Watson

* New exploration

Search content

Cards

Data relationships

Explore data relationships

global sales data cleaned

Reset to original

Quantity

Region

Market

Profit

Sales

Country

Shipping Cost

Select a visualization

Explore visualizations related to 'Quantity'

Quantity

178K

Quantity

Quantity and Sales for Region regions

Relationship diagram

10% 100%

13. Save the exploration

The screenshot shows the IBM Cognos Analytics interface with a 'Save as' dialog box open. The dialog has a title bar with a close button. Inside, the 'Name' field is set to 'New exploration'. Below this, it says 'Selected destination: My content'. There are two tabs: 'My content' (selected) and 'Team content'. A table lists existing content items with columns for Name, Type, and Last Accessed. At the bottom of the dialog are 'Cancel' and 'Save' buttons.

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