

PROJECT DEVELOPMENT PHASE

Delivery of Sprint - 2

Date	18 Nov 2022
Team ID	PNT2022TMID37672
Project Name	Global Sales Data Analytics
Team Leader	N YASWANTH

• DATA PREPARATION PHASE

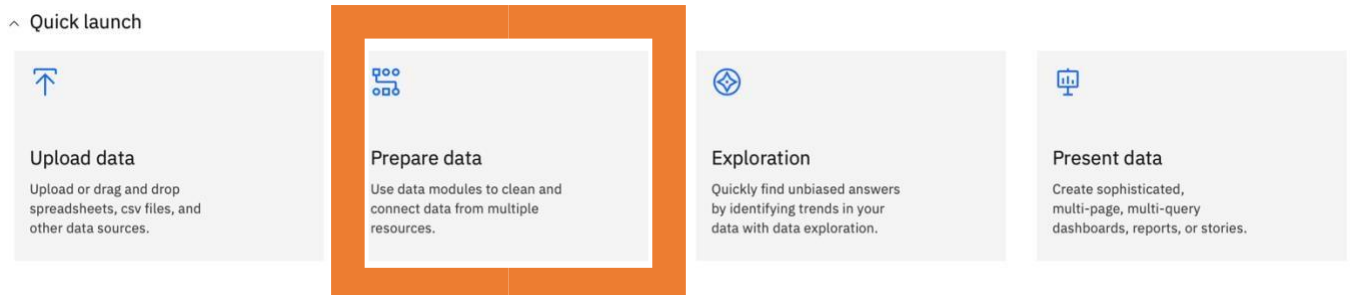
1. Open IBM Cognos Dashboard

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 icon, and a search bar. 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 presentation icon). Each tile has a brief description of its function. Below this is a "Get started" section with two tabs: "Get started" and "Recent". The "Get started" tab is active and shows a large section titled "Get up and running in IBM Cognos Analytics". This section contains three main areas: "How-to videos" (with a link to "Watch videos"), "Accelerator Catalog" (with a link to "Browse catalog"), and "Learning resources" (with a link to "Launch the learn pane"). An illustration of people working together is also present in the "How-to videos" area.

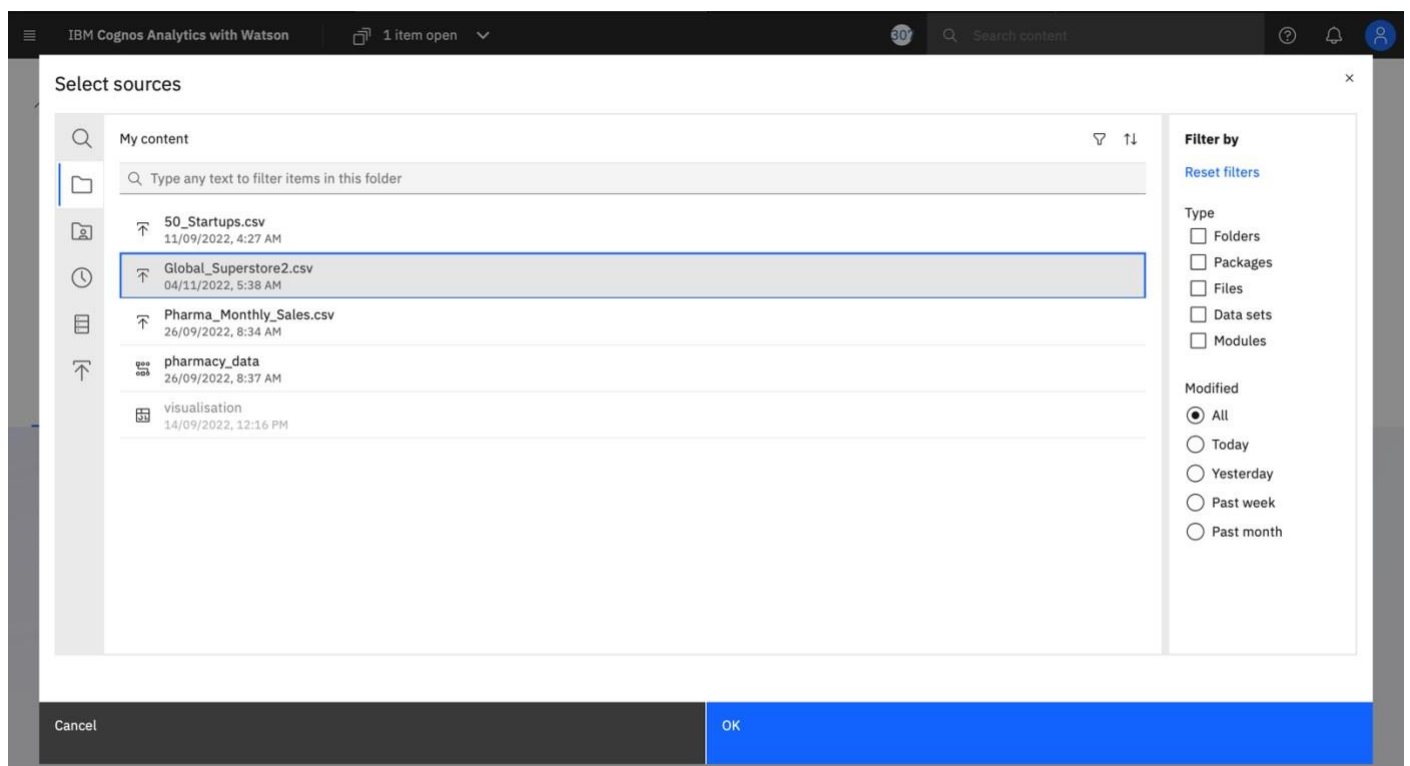
Preparation phase:

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

?

Grid

Relationships

Custom tables

Preview data

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

Search

New data module

Navigation paths

Global_Superstore2.csv

Row Id

Row ID

Order ID

Order Date

Ship Date

Ship Mode

Customer ID

Customer Name

Segment

City

State

Country

Postal Code

Market

Region

Product ID

Category

5. Understanding the Data

IBM Cognos Analytics with Watson

* New data module

30

Search content

?

Grid

Relationships

Custom tables

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

Search

New data module

Navigation paths

Global_Superstore2.csv

Row Id

Row ID

Order ID

Order Date

Ship Date

Ship Mode

Customer ID

Customer Name

Segment

City

State

Country

Postal Code

Market

Region

Product ID

Category

6. Filtering the data

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

IBM Cognos Analytics with Watson * global sales data cleaned

Search content

Properties

Data module

Search

- abc Ship Mode
- abc Customer ID
- abc Customer Name
- abc Segment
- City
- State
- Country
- Postal Code
- Market
- Region
- Product ID
- Category
- Sub-Category
- Product Name
- Sales
- Quantity
- Discount
- Profit
- Shipping Cost
- Order Priority

Grid Relationships Custom tables

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

Filter...

- Create data group...
- Create navigation path...
- Split...
- Hide from users
- Remove
- Format data...
- Clean...
- Sort descending
- Sort ascending
- Properties

Choose the required fields to be filtered

IBM Cognos Analytics with Watson * global sales data cleaned

Search content

Properties

Data module

Search

- Region
- Product ID
 - FUR-ADV...000002
 - FUR-ADV...000108
 - FUR-ADV...000183
 - FUR-ADV...000188
 - FUR-ADV...000190
 - FUR-ADV...000571
 - FUR-ADV...000600
 - FUR-ADV...000847
 - FUR-ADV...001283
 - FUR-ADV...001440
 - FUR-ADV...001659
 - FUR-ADV...001855
 - FUR-ADV...002329
 - FUR-ADV...002601
 - FUR-ADV...002632
- Category
- Sub-Category

Filter - Region

Add a filter condition +

Search

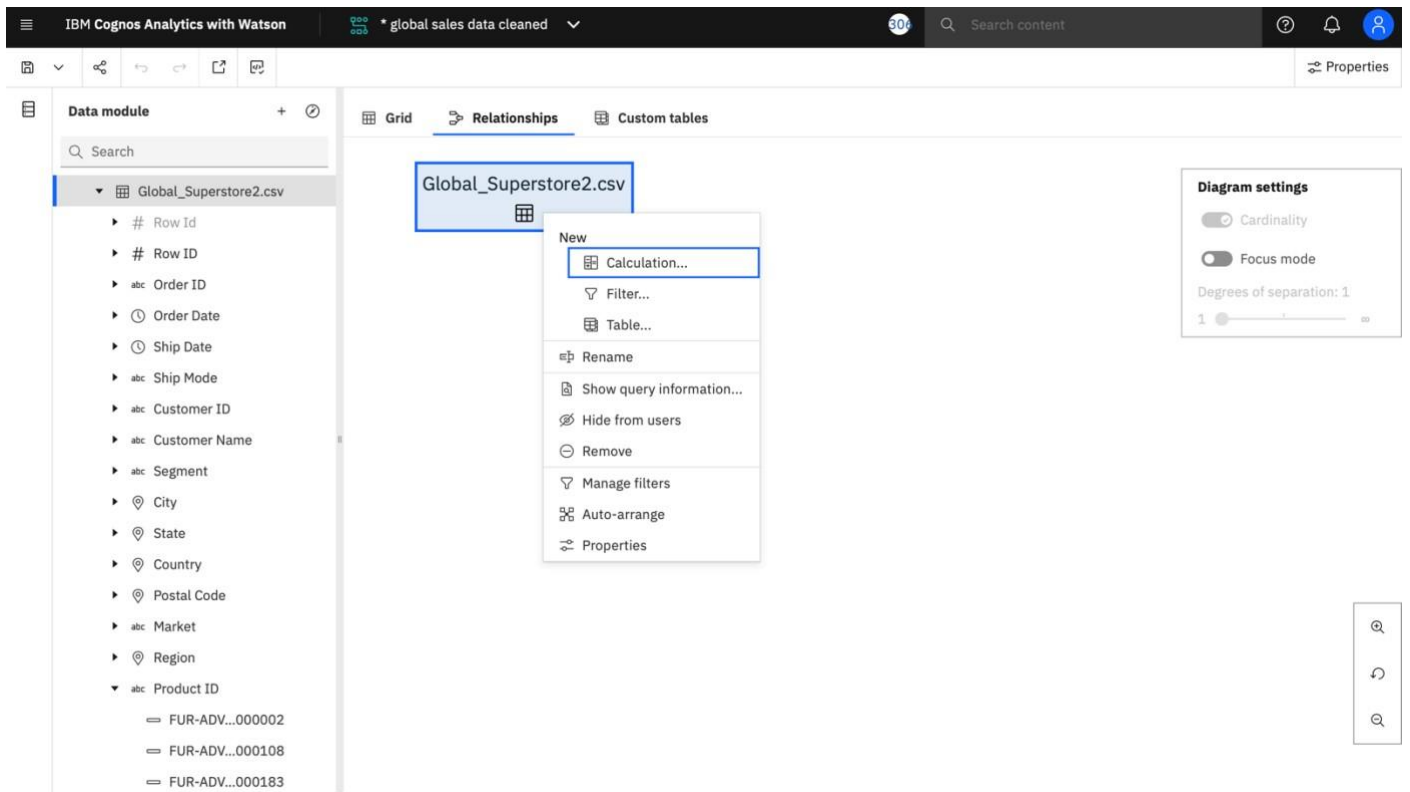
- ☐ Africa
- ☐ Canada
- ☐ Caribbean
- ☐ Central
- ☐ Central Asia
- ☐ EMEA
- ☐ East
- ☐ North

Clear all Invert

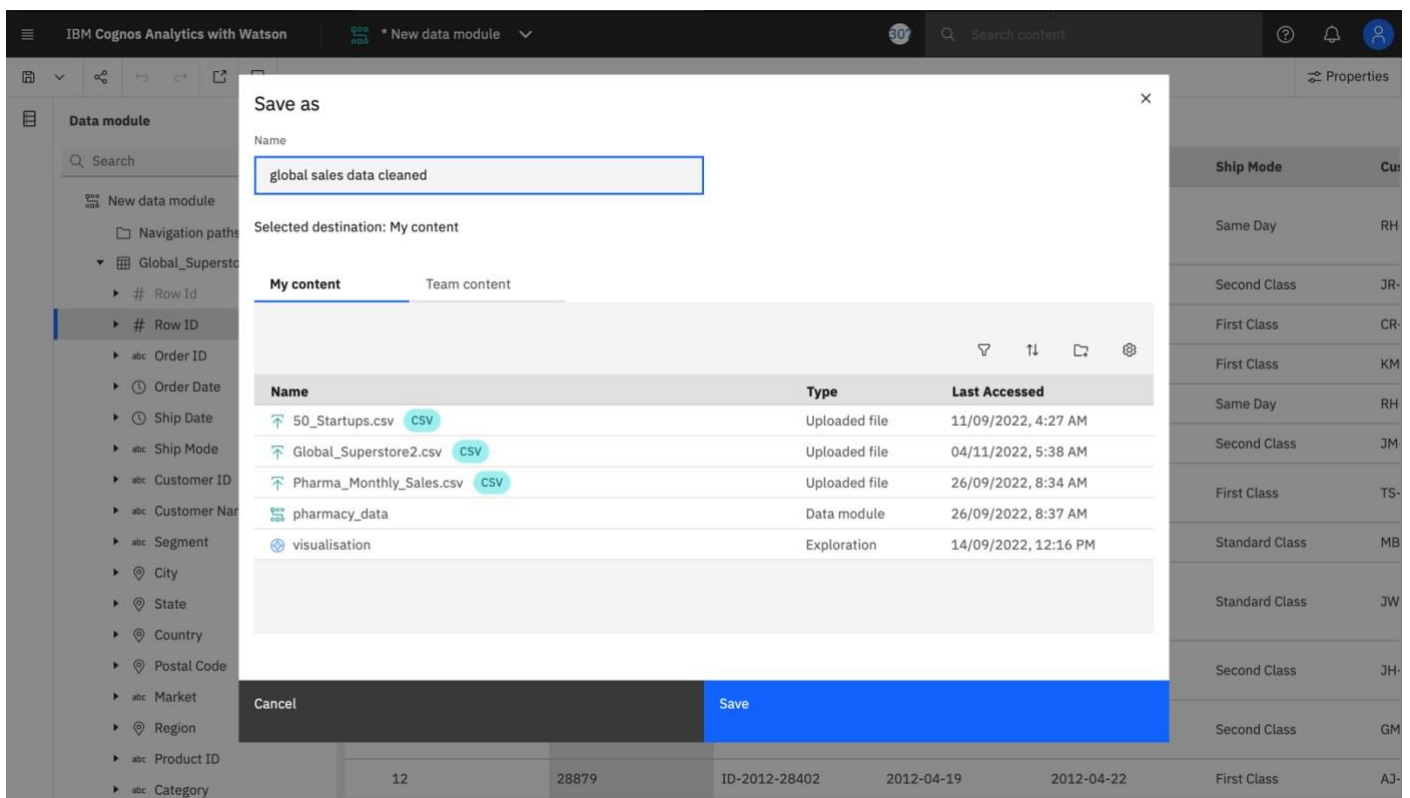
Cancel OK

Category	Sub-Category
Technology	Accessories
Furniture	Chairs
Technology	Phones
Technology	Phones
Technology	Copiers
Technology	Phones
Furniture	Chairs
Furniture	Tables
Office Supplies	Binders
Furniture	Tables
22304	US South OFF-SU-10002881 Office Supplies Supplies
Null	APAC Central Asia FUR-TA-10001889 Furniture Tables

7. Creating Relationships among the data

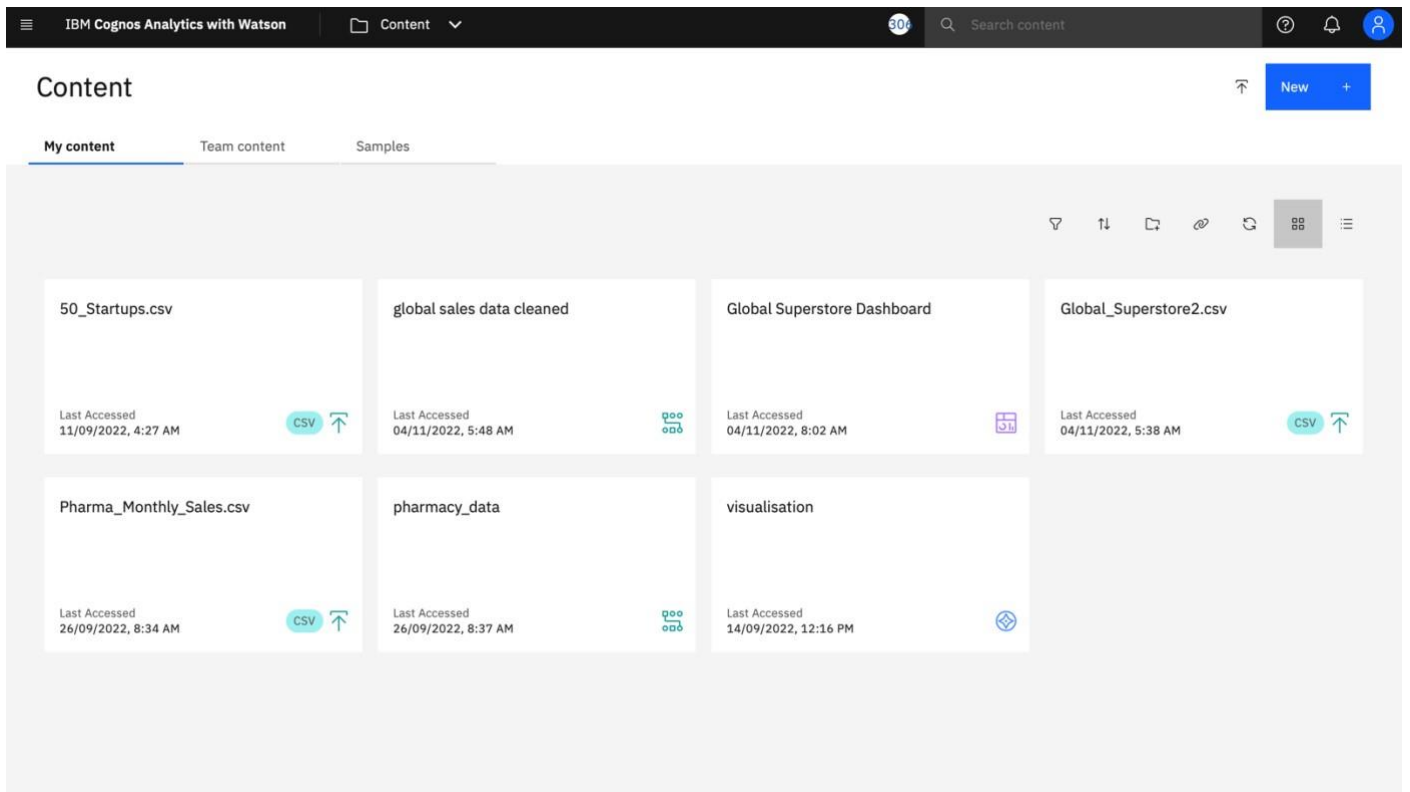


8. Save the dataset after preparing the data



9. Open “Content” from the menu bar

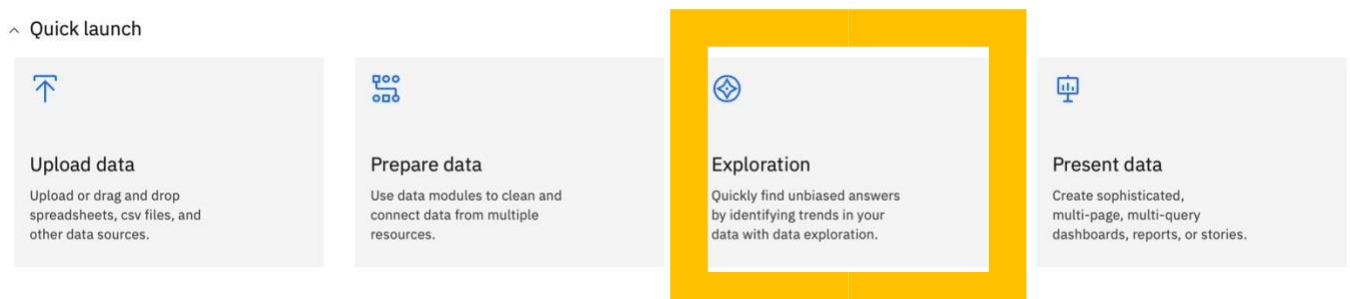
The uploaded and saved data is available here



• DATA EXPLORATION PHASE

10. Data Exploration

Click on the Exploration option to explore the data



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 Recent

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	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.

IBM Cognos Analytics with Watson * New exploration 30% Search content

Cards

Data relationships

global sales data cleaned

Quantity

Reset to original

Edit diagram

Region

Market

Quantity

Profit

Shipping Cost

Country

Sales

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 and Sales for Region regions

Add

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' entered. Below it, 'Selected destination: My content' is shown. 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.