

Project Development Phase

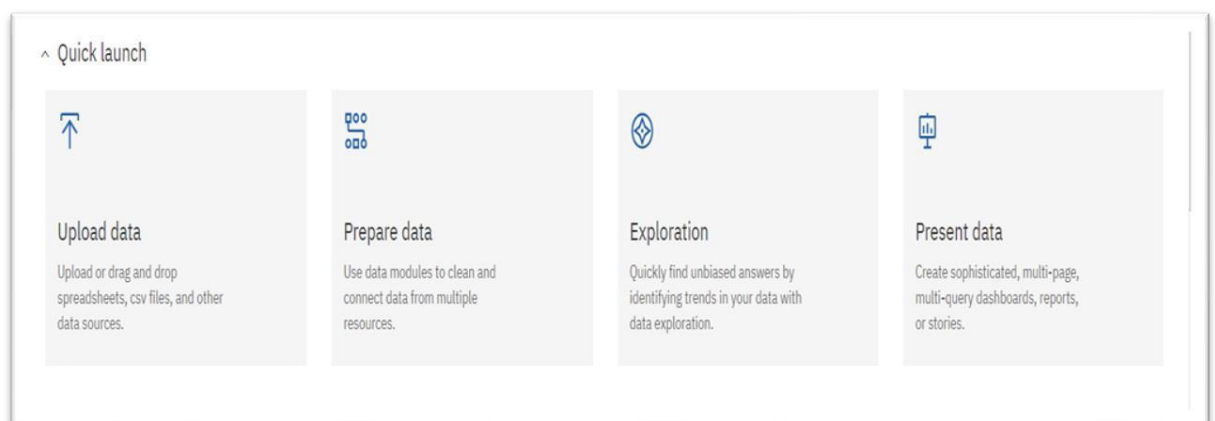
Delivery of Sprint – 2

Date	09 November 2022
Team ID	PNT2022TMID48377
Project name	Global Sales Data Analytics

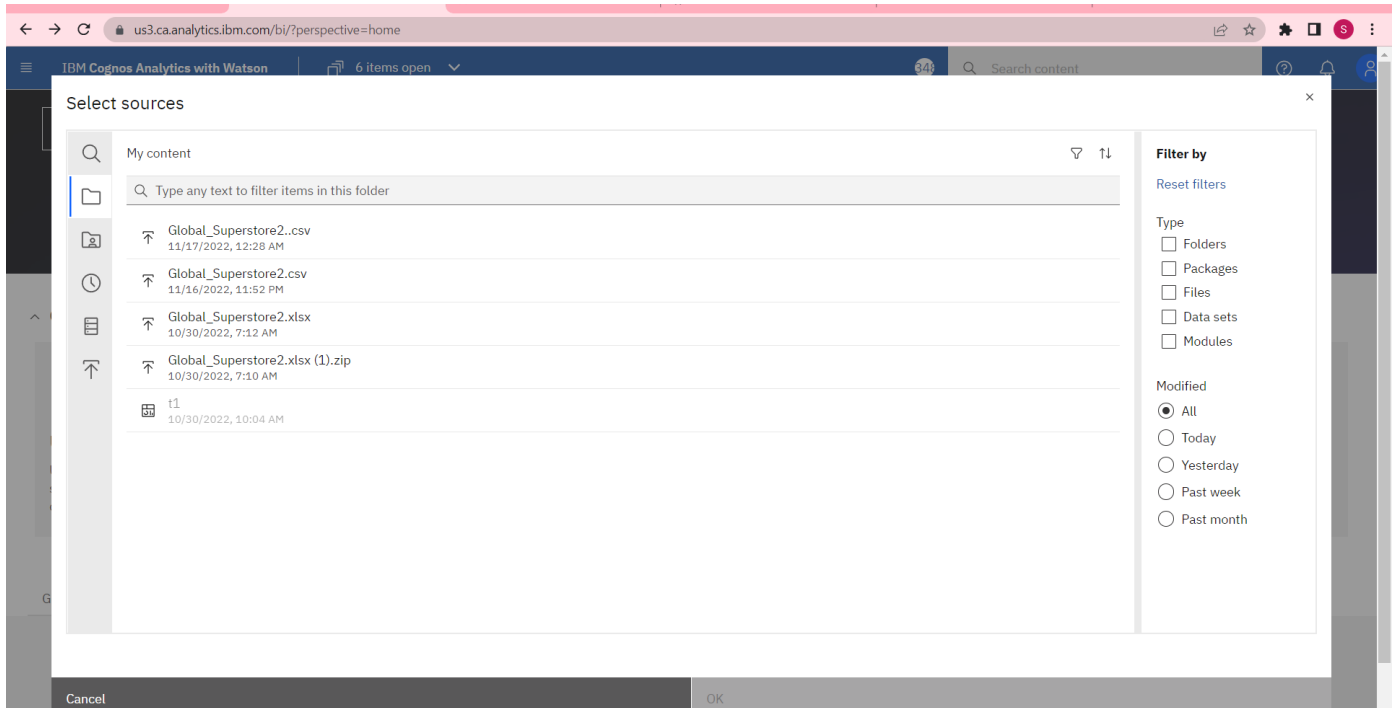
Data preparation phase :

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 organizing it in a way that makes it easy to explore and analyse.

Click on the Prepare Data option :



Now select the upload dataset from the menu



Explore the Data modules

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=3019265856_ee3ef5e9b30442da978dd4b454d3fa5_sessionTemp&objRef=&tid=3019265856_ee3ef5e9b30442da978dd4b454d3fa...

IBM Cognos Analytics with Watson

* New data module

Search content

Properties

Data module

Grid Relationships Custom tables

New data module

Navigation paths

Global_Su...ore2.xlsx

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

Preview data

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

Understanding the Data

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=2818311301_f5ec49b5159649bba6ae29b4bab370a5_sessionTemp&objRef=&tid=2818311301_f5ec49b5159649bba6ae29b4bab370...

IBM Cognos Analytics with Watson

* New data module

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Properties

Data module

Grid Relationships Custom tables

Search

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

Row Id	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID
1	32298	CA-2012-124891	31-07-2012	31-07-2012	Same Day	RH-19495
2	26341	IN-2013-77878	05-02-2013	07-02-2013	Second Class	JR-16210
3	25330	IN-2013-71249	17-10-2013	18-10-2013	First Class	CR-12730
4	13524	ES-2013-1579342	28-01-2013	30-01-2013	First Class	KM-16375
5	47221	SG-2013-4320	05-11-2013	06-11-2013	Same Day	RH-9495
6	22732	IN-2013-42360	28-06-2013	01-07-2013	Second Class	JM-15655
7	30570	IN-2011-81826	07-11-2011	09-11-2011	First Class	TS-21340
8	31192	IN-2012-86369	14-04-2012	18-04-2012	Standard Class	MB-18085
9	40155	CA-2014-135909	14-10-2014	21-10-2014	Standard Class	JW-15220
10	40936	CA-2012-116638	28-01-2012	31-01-2012	Second Class	JH-15985

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 is a 'Data module' pane with a search bar and a list of fields: 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, and Sales. The main area displays a data grid with columns: Row Id, Row ID, Order ID, Order Date, Ship Date, Ship Mode, and Customer ID. A context menu is open over the 'Order Date' column, showing options: Filter..., Create data group..., Create navigation path..., Split..., Convert to date..., Hide from users, Remove, Format data..., Clean..., Sort descending, Sort ascending, and Properties. The grid contains 10 rows of data.

Row Id	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID
1	32298	CA-2012-124891	31-07-2012		Same Day	RH-19495
2	26341	IN-2013-77878	05-02-2013		Second Class	JR-16210
3	25330	IN-2013-71249	17-10-2013		First Class	CR-12730
4	13524	ES-2013-1579342	28-01-2013		First Class	KM-16375
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The screenshot shows the 'Data format' dialog box for the 'Order Date' column. The 'Format type' is set to 'Date'. The 'Date separator' is set to '-', the 'Date style' is set to 'Default', the 'Date ordering' is set to 'Year, Month, Day', and the 'Missing value characters' are set to '<empty>'. There are 'Advanced options', 'Reset properties', 'Cancel', and 'OK' buttons.

Column: Order Date

Format type: Date

① Date separator: -

① Date style: Default

① Date ordering: Year, Month, Day

① Missing value characters: <empty>

Advanced options

Reset properties

Cancel OK

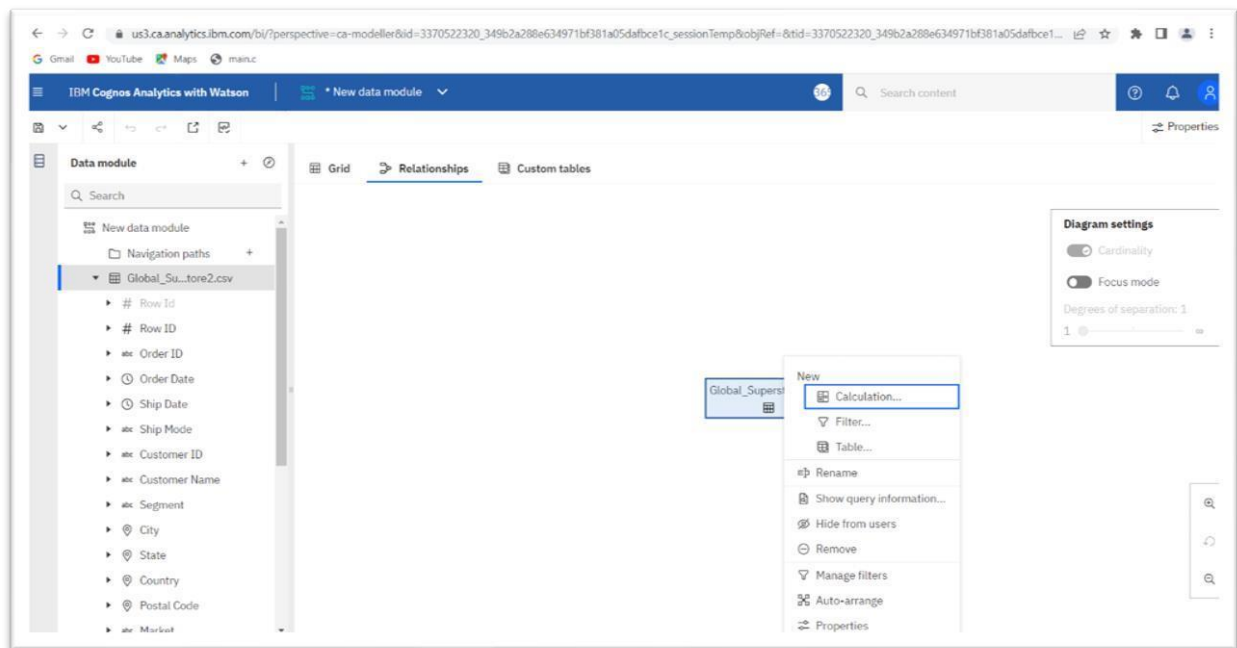
Choose the required fields to be filtered.

The screenshot shows the IBM Cognos Analytics interface. A 'Filter - Category' dialog box is open in the center. The dialog has a title bar with a close button. Below the title bar is a search bar and a list of categories: Furniture (checked), Office Supplies, and Technology. There are 'Clear all' and 'Invert' buttons at the bottom left of the list. At the bottom right of the dialog are 'Cancel' and 'OK' buttons. Below the dialog, there is a note: 'Select 'Refresh members' in the data tree to view the effect of the filter on members in the tree.'

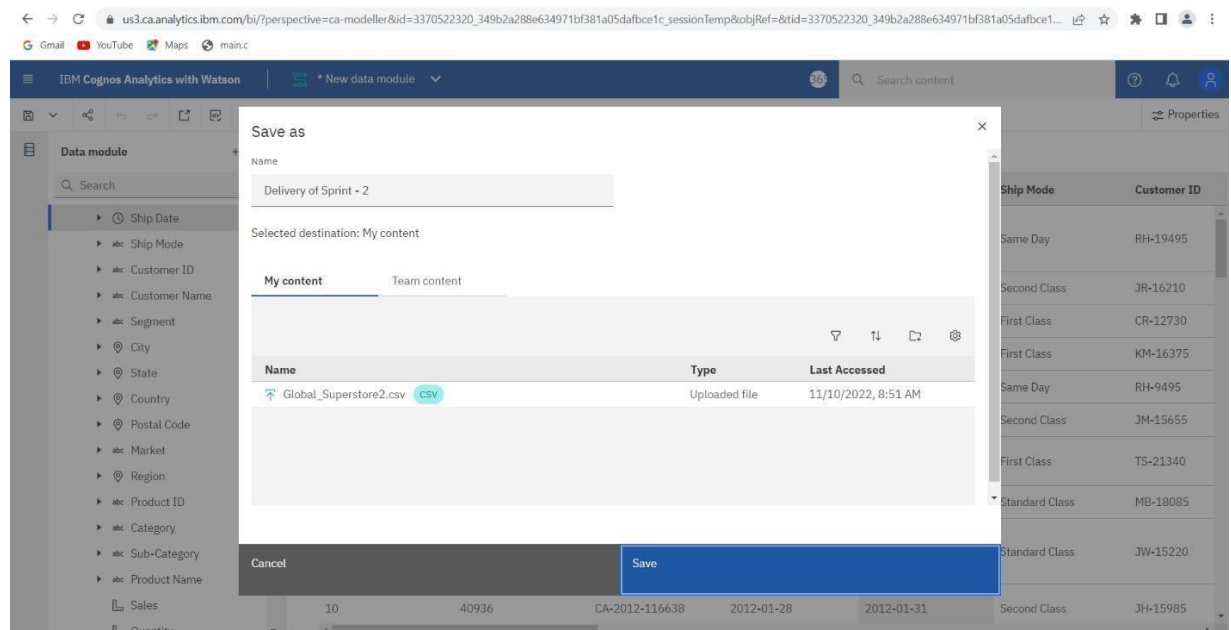
The background shows a data tree on the left and a data table on the right. The data tree has a 'Category' field expanded, showing 'Furniture', 'Office Supplies', and 'Technology'. The data table has columns 'Product ID' and 'Category'.

Product ID	Category
TEC-AC-10003033	Technology
FUR-CH-10003950	Furniture
TEC-PH-10004664	Technology
TEC-PH-10004583	Technology
TEC-SHA-10000501	Technology
TEC-PH-10000030	Technology
FUR-CH-10004050	Furniture
FUR-TA-10002958	Furniture
OFF-BI-10003527	Office Supplies
FUR-TA-10000198	Furniture

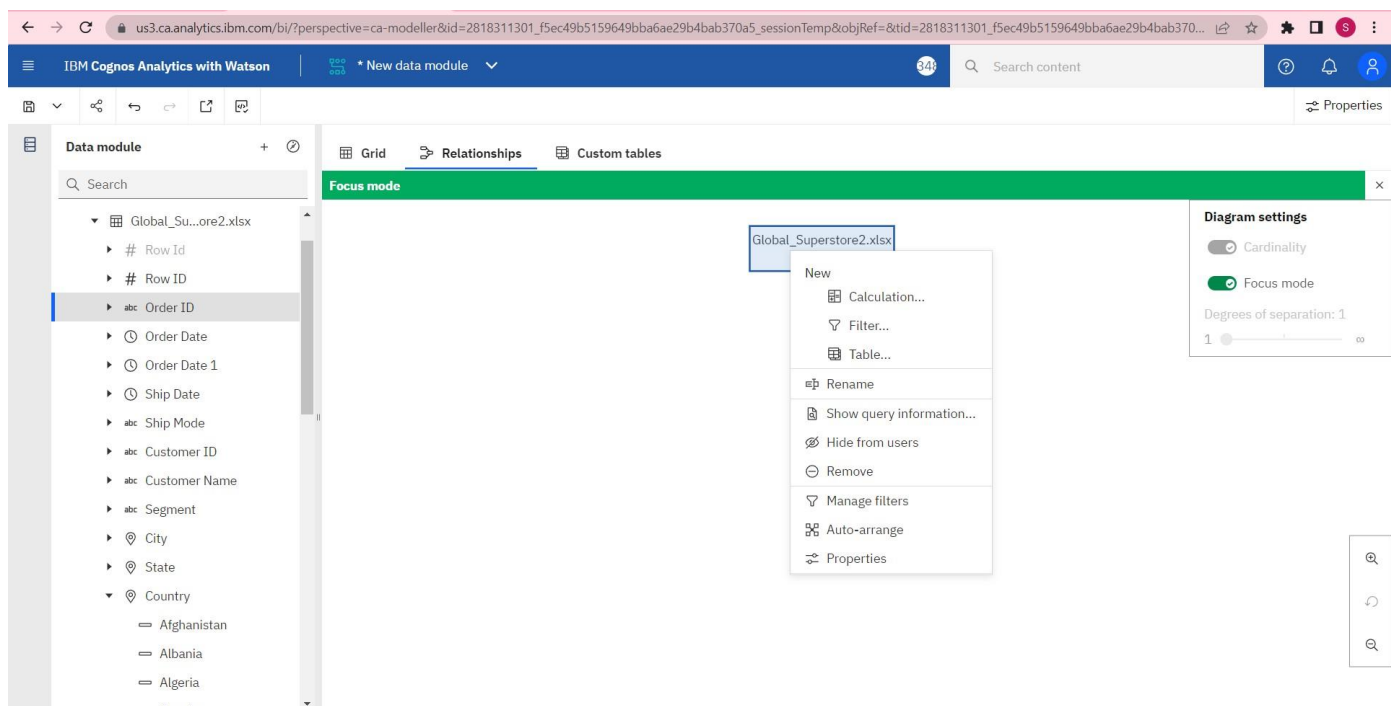
Creating Relationship among the data.



Save the dataset after preparing the data

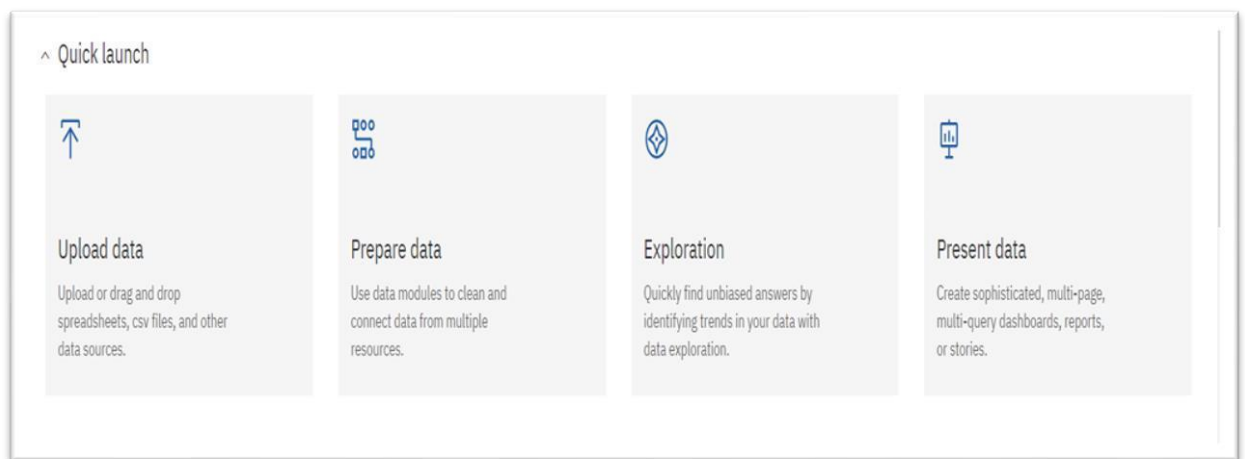


Open "Content" from the menu bar



DATA EXPLORATION PHASE :

Data Exploration



Select the data to be explored

To begin browsing the cleaned and prepared data choose “My Content” form the menu.

The screenshot shows the IBM Cognos Analytics interface. A modal dialog titled "Add a data source to explore" is open, displaying a table of data sources under the "My content" tab. The table lists four files: two CSV files and two XLSX files, all uploaded on 10/30/2022. The background interface includes a "Quick launch" section with an "Upload data" button and a "Recent" tab.

Name	Type	Last Accessed
Global_Superstore2.csv	CSV	Uploaded file 11/17/2022, 12:28 AM
Global_Superstore2.csv	CSV	Uploaded file 11/16/2022, 11:52 PM
Global_Superstore2.xlsx	XLSX	Uploaded file 10/30/2022, 7:12 AM
Global_Superstore2.xlsx (1).zip		Uploaded file 10/30/2022, 7:10 AM

Start Exploring the data and create relationship among the dataset

The screenshot shows the IBM Cognos Analytics interface. A modal dialog titled "Select a starting point" is open, prompting the user to select a starting point for an exploration. The dialog includes a search bar and a list of suggested columns: Postal Code, Row ID, Quantity, Discount, Profit, Sales, and Shipping Cost. The background interface shows a "Cards" section with a "Data relationships" card.

Select a starting point

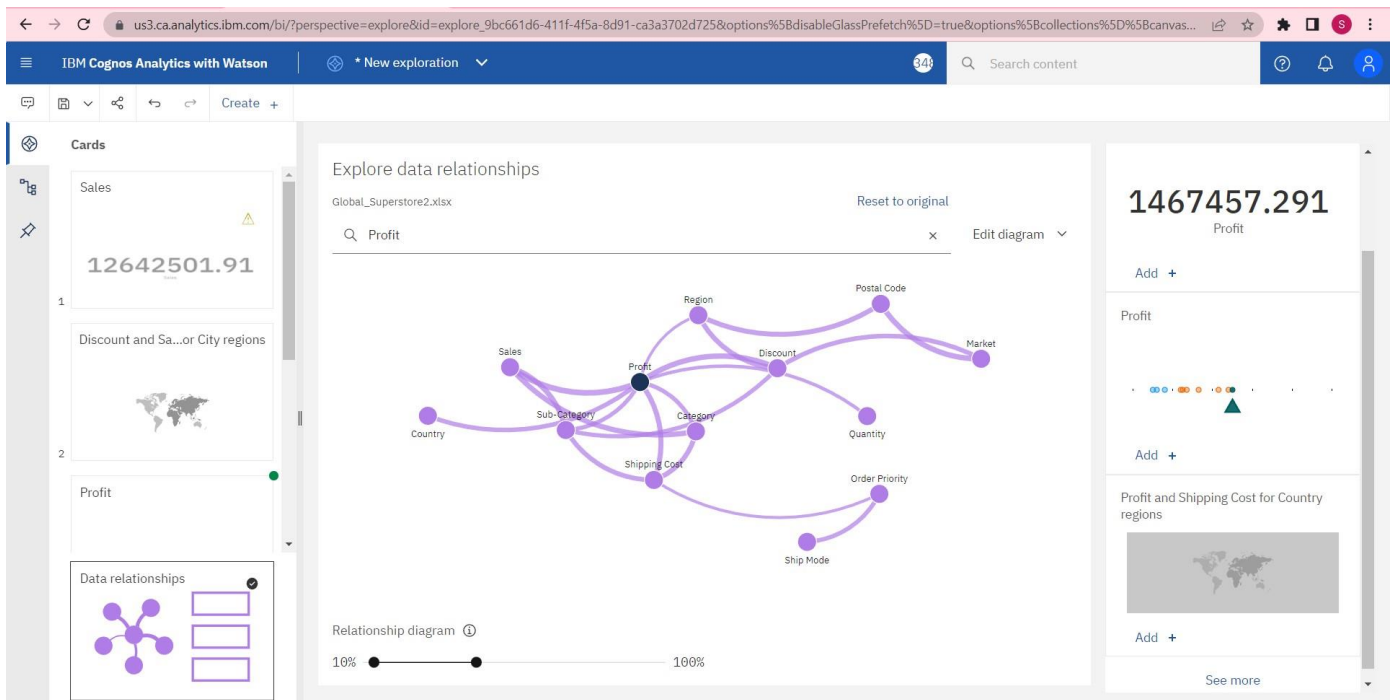
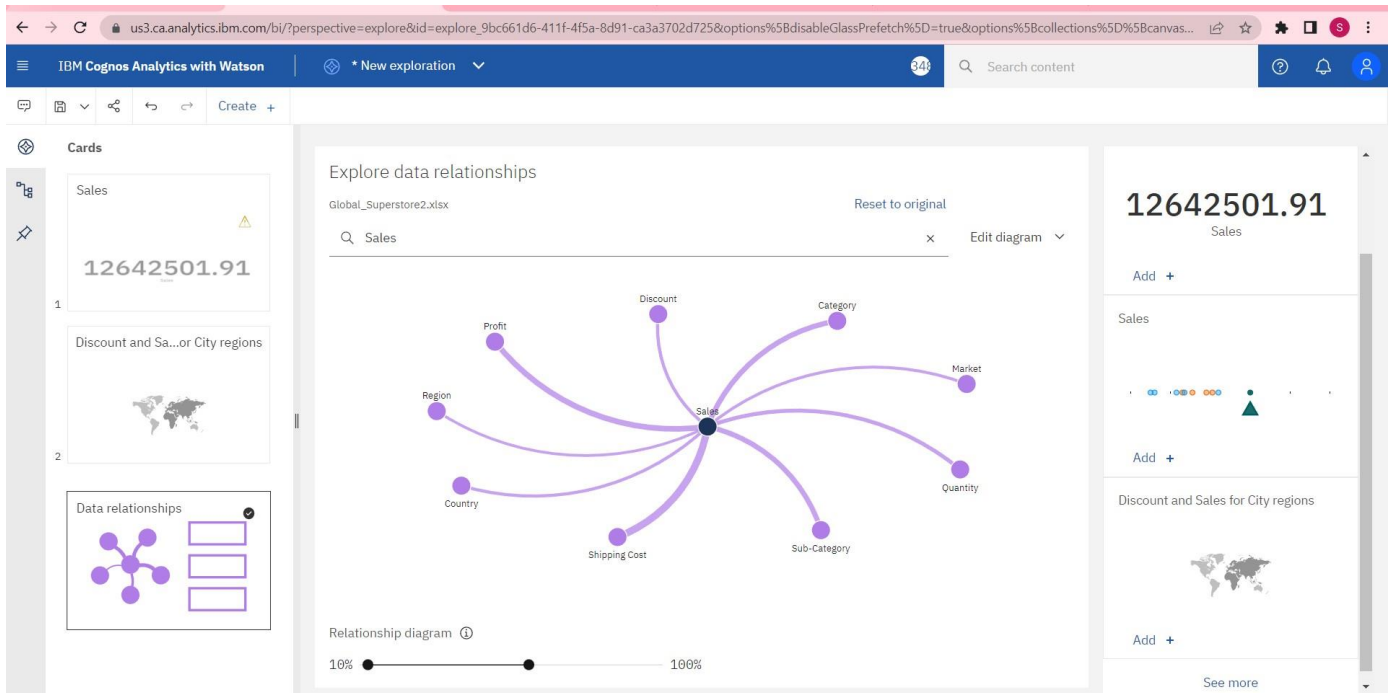
Every exploration includes a data relationships card.

Start with any column. You can always change it later.

Enter data column. Not sure? Try Postal Code, Row ID

Try starting with one of these...

Postal Code Row ID Quantity Discount Profit Sales Shipping Cost



Save the Exploration

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New exploration

34

Search content

?

Cards

Sales

12642501.91

Discount and Sa...or City regions

Profit

Data relationships

Save as

Name

exploration 1

Selected destination: exploration

My content

Team content

Team content / exploration

No items

Cancel

Save

1467457.291

Profit

Add +

Profit

Add +

Profit and Shipping Cost for Country regions

Add +

See more