

## PROJECT DEVELOPMENT PHASE

### DELIVERY OF SPRINT-2

Date	4 NOVEMBER 2022
TEAM ID	PNT2022TMID42071
PROJECT NAME	GLOBAL SALES DATA ANALYTICS

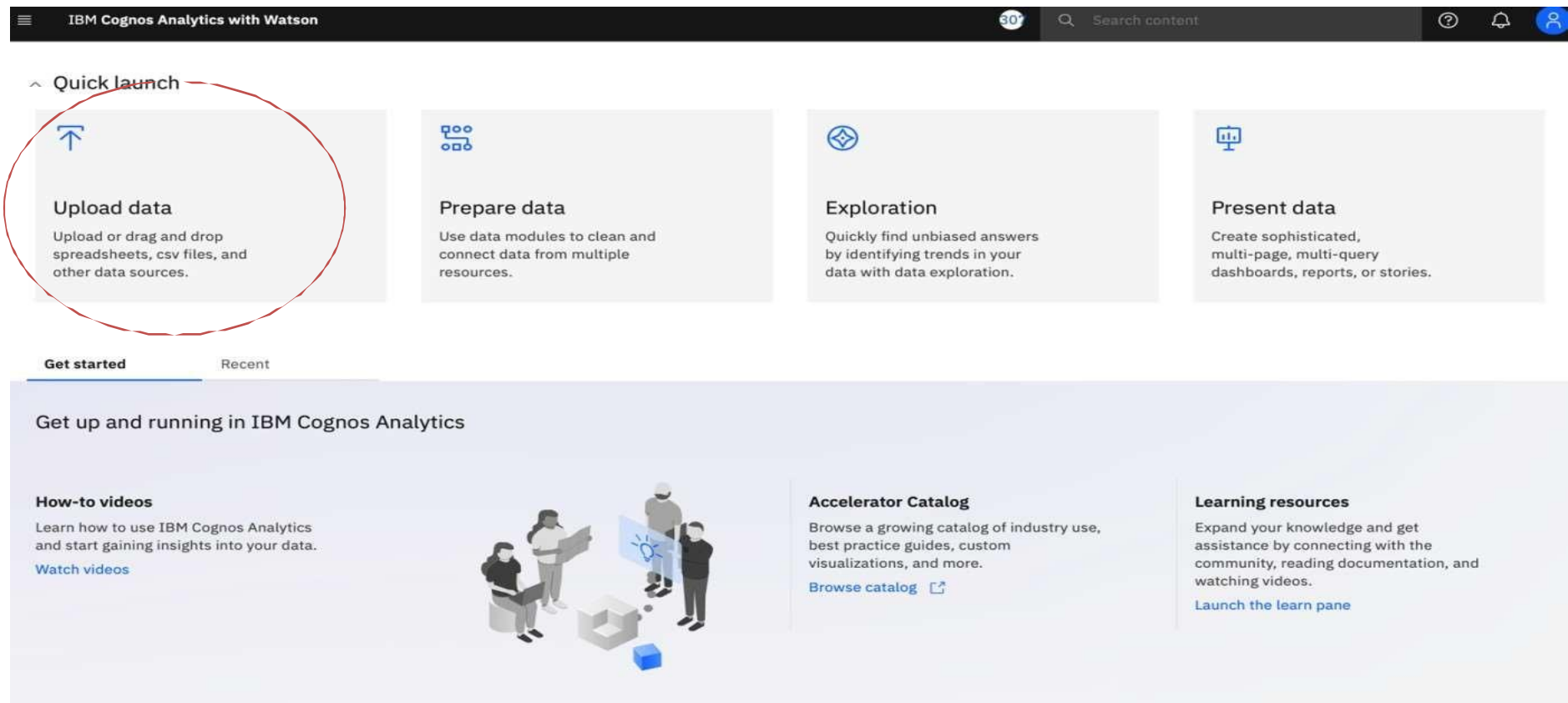
### SPRINT 2 FUNCTIONAL REQUIREMENT

- > UPLOAD DATASET
- > DATA PREPARATION
- > DATA EXPLORATION

## UPLOAD DATASET:

DOWNLOAD THE DATASET: <https://www.kaggle.com/datasets/apoorvaappz/global-super-store-dataset>

> OPEN IBM COGNOS DASHBOARD AND CLICK THE UPLOAD DATA AND UPLOAD THE DATASET FILE



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.

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](#)

**Accelerator Catalog**  
Browse a growing catalog of industry use, best practice guides, custom visualizations, and more.  
[Browse catalog](#)


**Learning resources**  
Expand your knowledge and get assistance by connecting with the community, reading documentation, and watching videos.  
[Launch the learn pane](#)

## DATA PREPARATION:

### STEP 1 : CLICK THE PREPARE DATA


 IBM Cognos Analytics with Watson 30°  Search content   

^ 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.


Get startedRecent

### 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](#)



#### Accelerator Catalog

Browse a growing catalog of industry use, best practice guides, custom visualizations, and more.

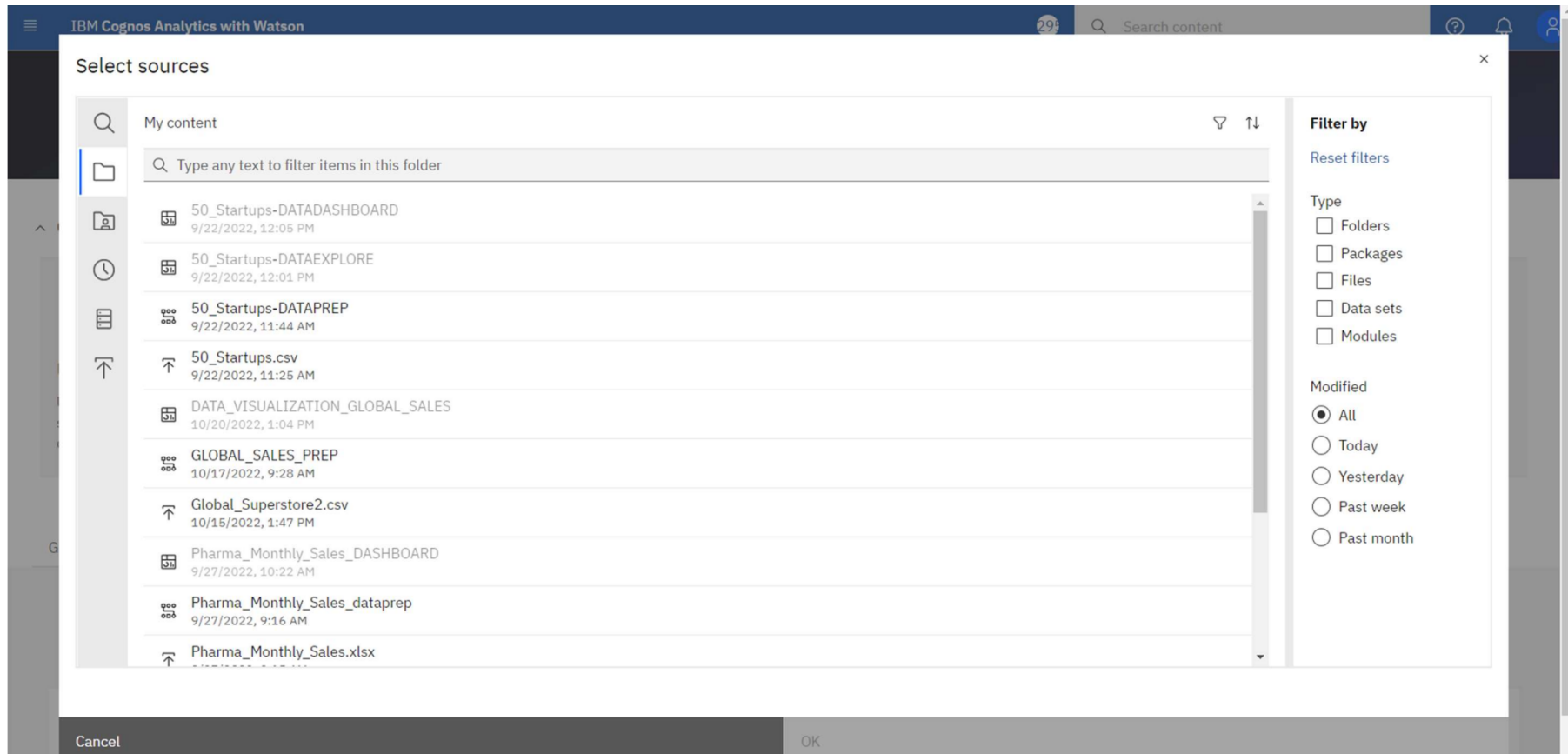
[Browse catalog](#) 

#### Learning resources

Expand your knowledge and get assistance by connecting with the community, reading documentation, and watching videos.

[Launch the learn pane](#)

## STEP 2: SELECT THE UPLOAD DATASET FROM THE CONTENT MENU



### STEP 3 : PREPARATION OF THE DATA

The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the IBM logo, the text "IBM Cognos Analytics with Watson", a dropdown menu for "New data module", a search bar labeled "Search content", and user profile icons. Below the navigation bar, a toolbar contains icons for file operations. The main workspace is divided into a left sidebar and a central area. The sidebar, titled "Data module", contains a search bar and a list of items: "New data module", "Navigation paths", and "Global\_Superstore2.csv". The "Global\_Superstore2.csv" item is expanded, showing a list of columns: "# Row Id", "Order ID", "Order Date", "Ship Date", "Ship Mode", "Customer ID", "Customer Name", "Segment", "City", "State", "Country", "Postal Code", "Market", "Region", "Product ID", and "Category". The central area has three tabs: "Grid", "Relationships", and "Custom tables". The "Grid" tab is active, displaying a large icon of a calendar with a checkmark and the text "Preview data". Below the icon, a message states: "To preview data, select a table, a column in a table, or a folder that contains columns."

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
- abc Product ID
- abc Category

Grid Relationships Custom tables

Preview data

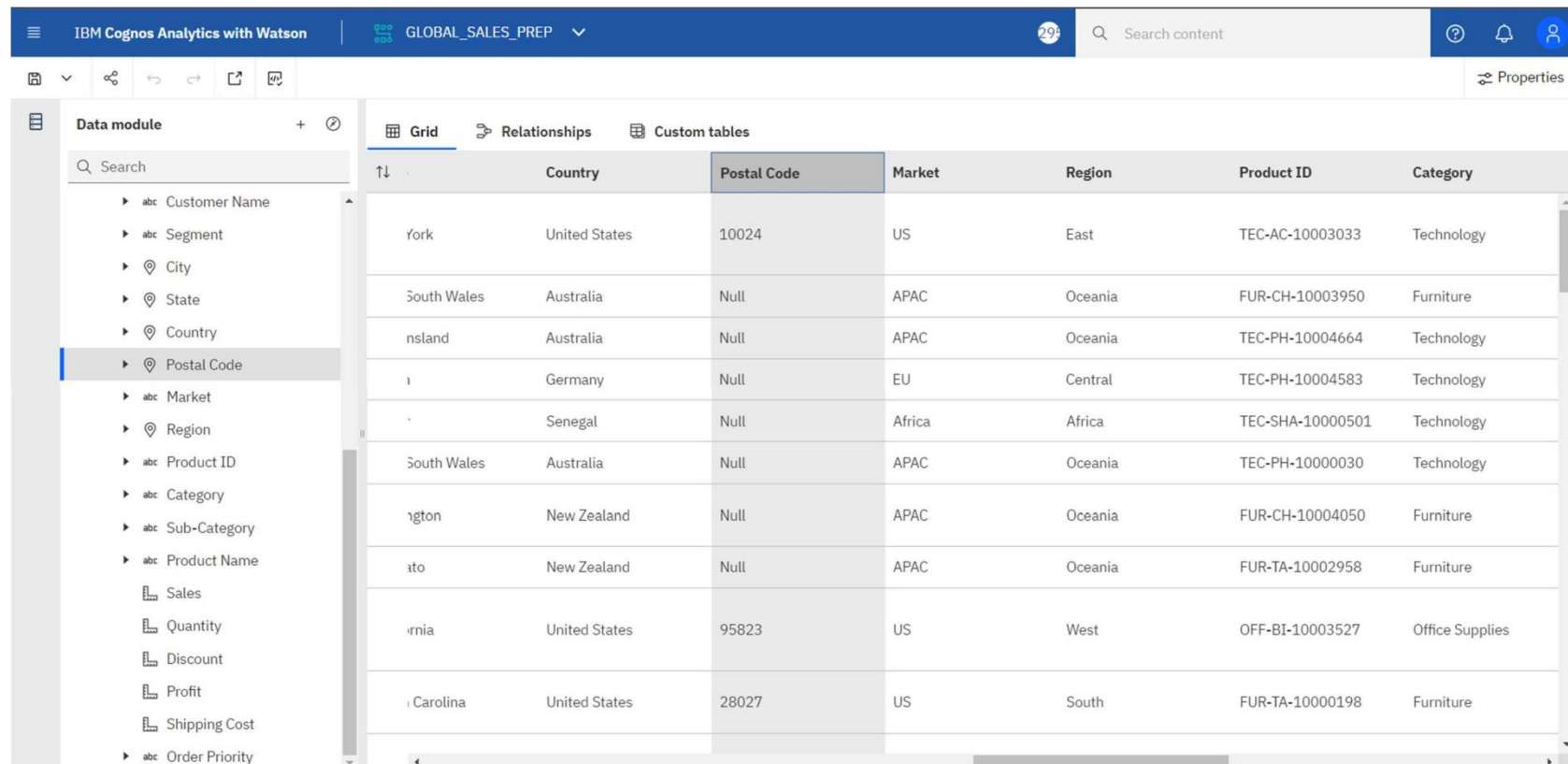
To preview data, select a table, a column in a table, or a folder that contains columns.

STEP 4: ONCE YOU LOAD THE DATA, WE NEED TO PREPARE THE DATA.

A. REMOVE THE NULL VALUES

B. PREPARE CALCULATIONS OF YEAR, MONTH, DAY FIELDS AND ALSO THE RELATED NAVIGATION PATH

C. CREATE A FEW MORE CALCULATIONS – TARGET SALES, MIN SALES, MAX SALES, MIDDLE RANGE SALES



IBM Cognos Analytics with Watson | GLOBAL\_SALES\_PREP | 29 | Search content | ? | 🔔 | 👤

Grid Relationships Custom tables

	Country	Postal Code	Market	Region	Product ID	Category
York	United States	10024	US	East	TEC-AC-10003033	Technology
South Wales	Australia	Null	APAC	Oceania	FUR-CH-10003950	Furniture
nsland	Australia	Null	APAC	Oceania	TEC-PH-10004664	Technology
i	Germany	Null	EU	Central	TEC-PH-10004583	Technology
.	Senegal	Null	Africa	Africa	TEC-SHA-10000501	Technology
South Wales	Australia	Null	APAC	Oceania	TEC-PH-10000030	Technology
ngton	New Zealand	Null	APAC	Oceania	FUR-CH-10004050	Furniture
ito	New Zealand	Null	APAC	Oceania	FUR-TA-10002958	Furniture
rnia	United States	95823	US	West	OFF-BI-10003527	Office Supplies
i Carolina	United States	28027	US	South	FUR-TA-10000198	Furniture

Data module | Search | Data module | + | 🔔

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

Properties

> CREATE CALCULATION TO MAKE THE DATE PREPARED

The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the title 'IBM Cognos Analytics with Watson', a breadcrumb trail '\* global sales data cleaned', a search bar, and user profile icons. The main workspace is divided into three tabs: 'Grid', 'Relationships', and 'Custom tables'. The 'Relationships' tab is active, showing a diagram with a single node labeled 'Global\_Superstore2.csv'. A context menu is open over this node, listing various actions. The 'New' section of the menu is expanded, highlighting the 'Calculation...' option. On the left, a 'Data module' panel lists the fields of the 'Global\_Superstore2.csv' dataset, including Row ID, Order ID, Order Date, Ship Date, Ship Mode, Customer ID, Customer Name, Segment, City, State, Country, Postal Code, Market, Region, and Product ID. On the right, a 'Diagram settings' panel shows options for 'Cardinality' and 'Focus mode', along with a 'Degrees of separation' slider set to 1. A vertical toolbar on the far right contains icons for search, refresh, and zoom.

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
- abc 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

IBM Cognos Analytics with Watson

GLOBAL\_SALES\_PREP

29

Search content

?

Edit calculation

Name

day

Components

Expression

Search

Global\_Sup...tore2.csv

# day

# month

# year

# Calcul... name

# Row Id

# Row ID

abc Order ID

Order Date

Ship Date

abc Ship Mode

1

day(Order\_Date)

=

Validation Results

The expression is valid.

Cancel

OK



## STEP 5 : SAVE THE DATASET AFTER PREPARING THE DATA

IBM Cognos Analytics with Watson | \*GLOBAL\_SALES\_PREP

Search content

Properties

**Data module**

Search

GLOBAL\_SALES\_PREP

Navigation paths

Global\_Su...tore2.csv

- # day
- # month
- # year
- # Calculation name
- # Row Id
- # Row ID
- abc Order ID
- Order Date
- Ship Date
- abc Ship Mode
- abc Customer ID
- abc Customer Name
- abc Segment
- City

**Save as**

Name

GLOBAL\_SALES\_PREP

Selected destination: My content

**My content** Team content

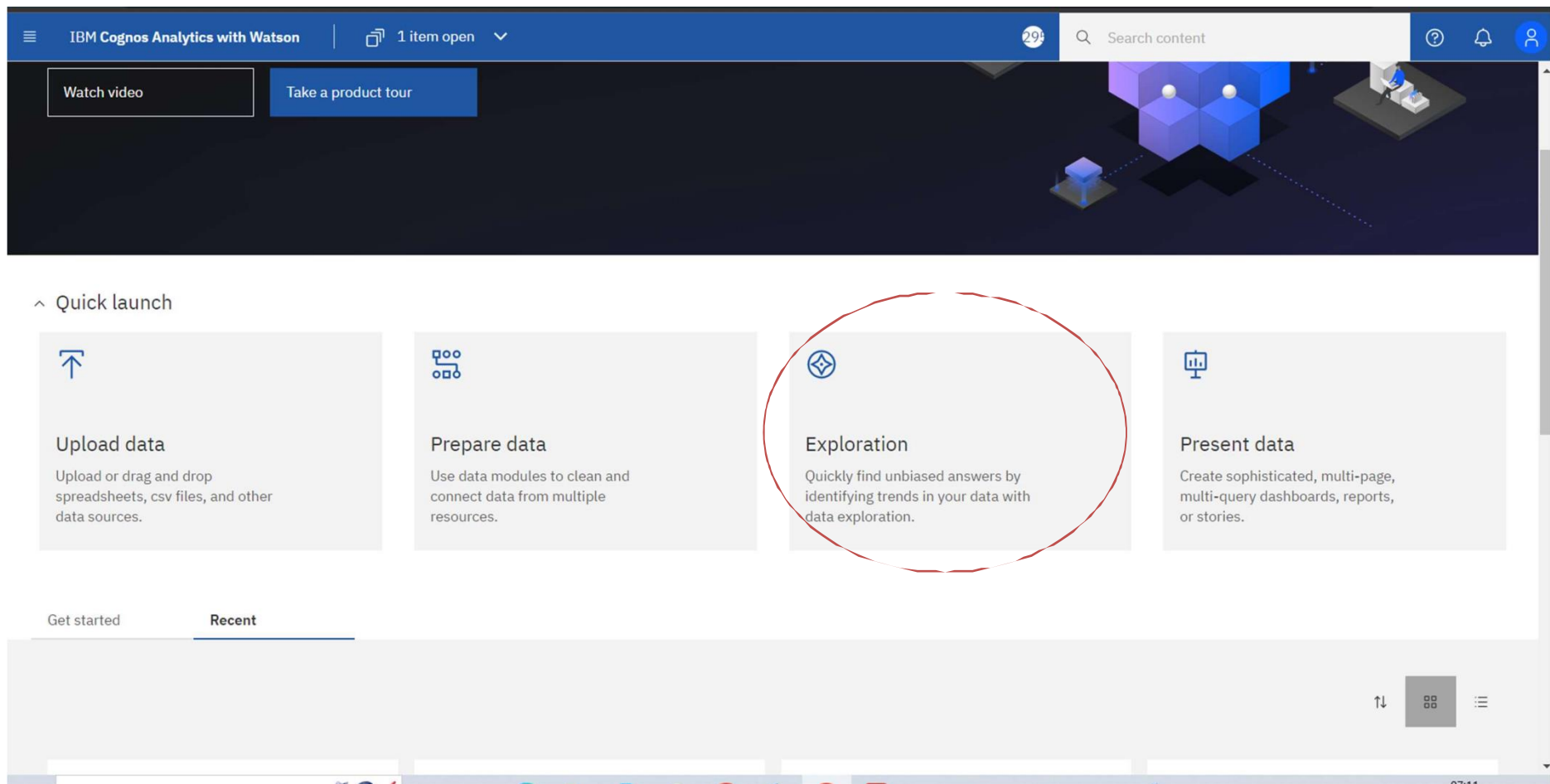
Name	Type	Last Accessed
50_Startups-DATADASHBOARD	Dashboard	9/22/2022, 12:05 PM
50_Startups-DATAEXPLORE	Exploration	9/22/2022, 12:01 PM
50_Startups-DATAPREP	Data module	9/22/2022, 11:44 AM
50_Startups.csv CSV	Uploaded file	9/22/2022, 11:25 AM
DATA_VISUALIZATION_GLOBAL_SALES	Dashboard	10/20/2022, 1:04 PM
GLOBAL_SALES_PREP	Data module	10/17/2022, 9:28 AM

Cancel Save

Row ID	Order ID
32298	CA-2012-12489
26341	IN-2013-77878
25330	IN-2013-71245
13524	ES-2013-15793
47221	SG-2013-4320
22732	IN-2013-42360
30570	IN-2011-81826
31192	IN-2012-86365
40155	CA-2014-13590
40936	CA-2012-11663

## DATA EXPLORATION:

### STEP 1: CLICK THE EXPLORATION



## STEP 2 : ADD A DATA SOURCE TO EXPLORE

The screenshot shows the IBM Cognos Analytics with Watson interface. A modal dialog titled "Add a data source to explore" is open, displaying a list of data sources under the "My content" tab. The list includes data modules and uploaded files. The background interface shows a sidebar with "Quick launch" and "Upload data" options, and a top navigation bar with a search bar and user profile.

**Add a data source to explore**

My content | Team content

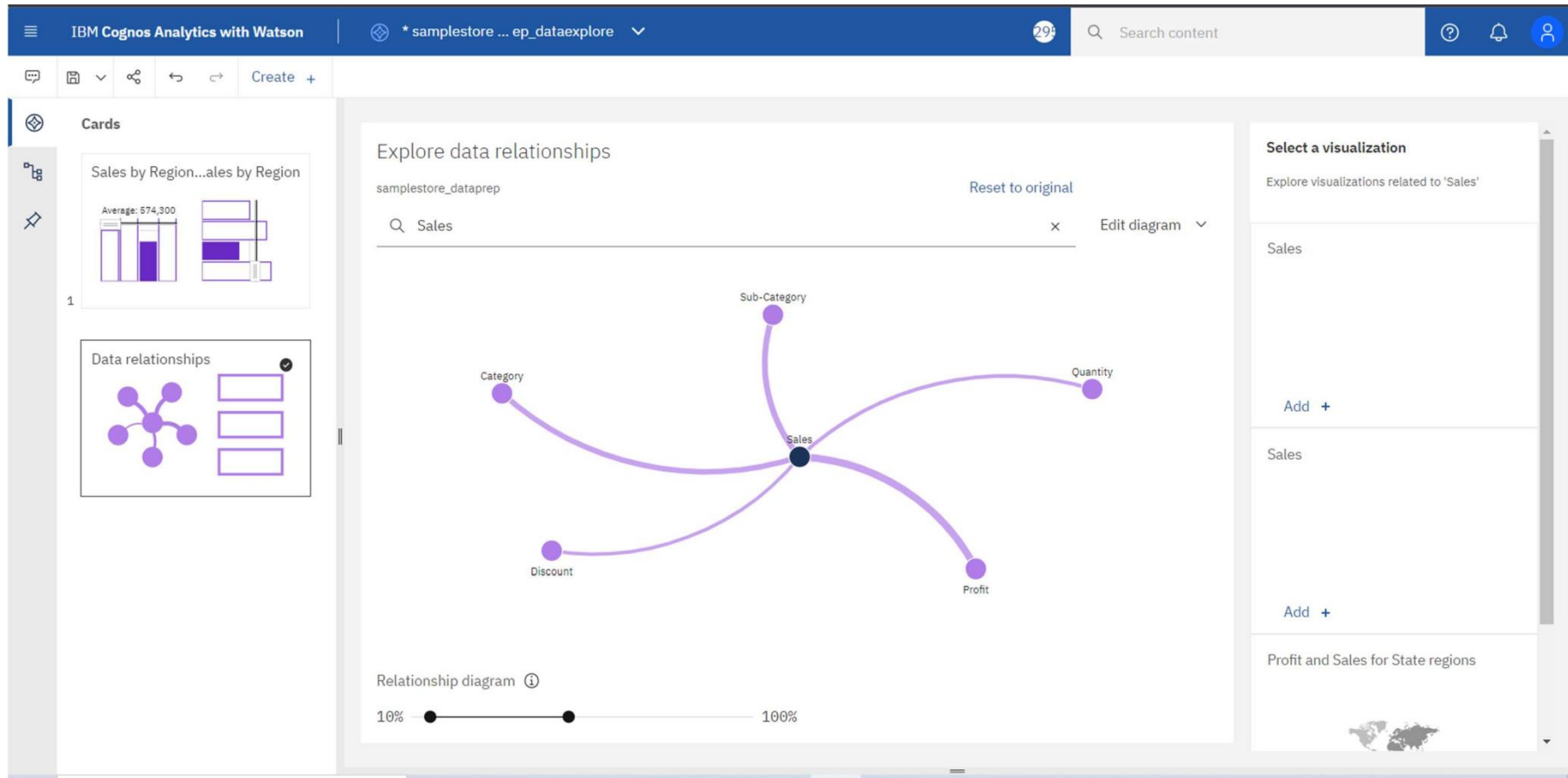
Name	Type	Last Accessed
50_Startups-DATAPREP	Data module	9/22/2022, 11:44 AM
50_Startups.csv CSV	Uploaded file	9/22/2022, 11:25 AM
GLOBAL_SALES_PREP	Data module	11/12/2022, 7:38 PM
Global_Superstore2.csv CSV	Uploaded file	10/15/2022, 1:47 PM
Pharma_Monthly_Sales_dataprep	Data module	9/27/2022, 9:16 AM
Pharma_Monthly_Sales.xlsx xlsx	Uploaded file	9/27/2022, 9:15 AM
Sample - Superstore.xls xls	Uploaded file	9/19/2022, 11:37 AM
samplestore_dataprep	Data module	9/19/2022, 11:50 AM

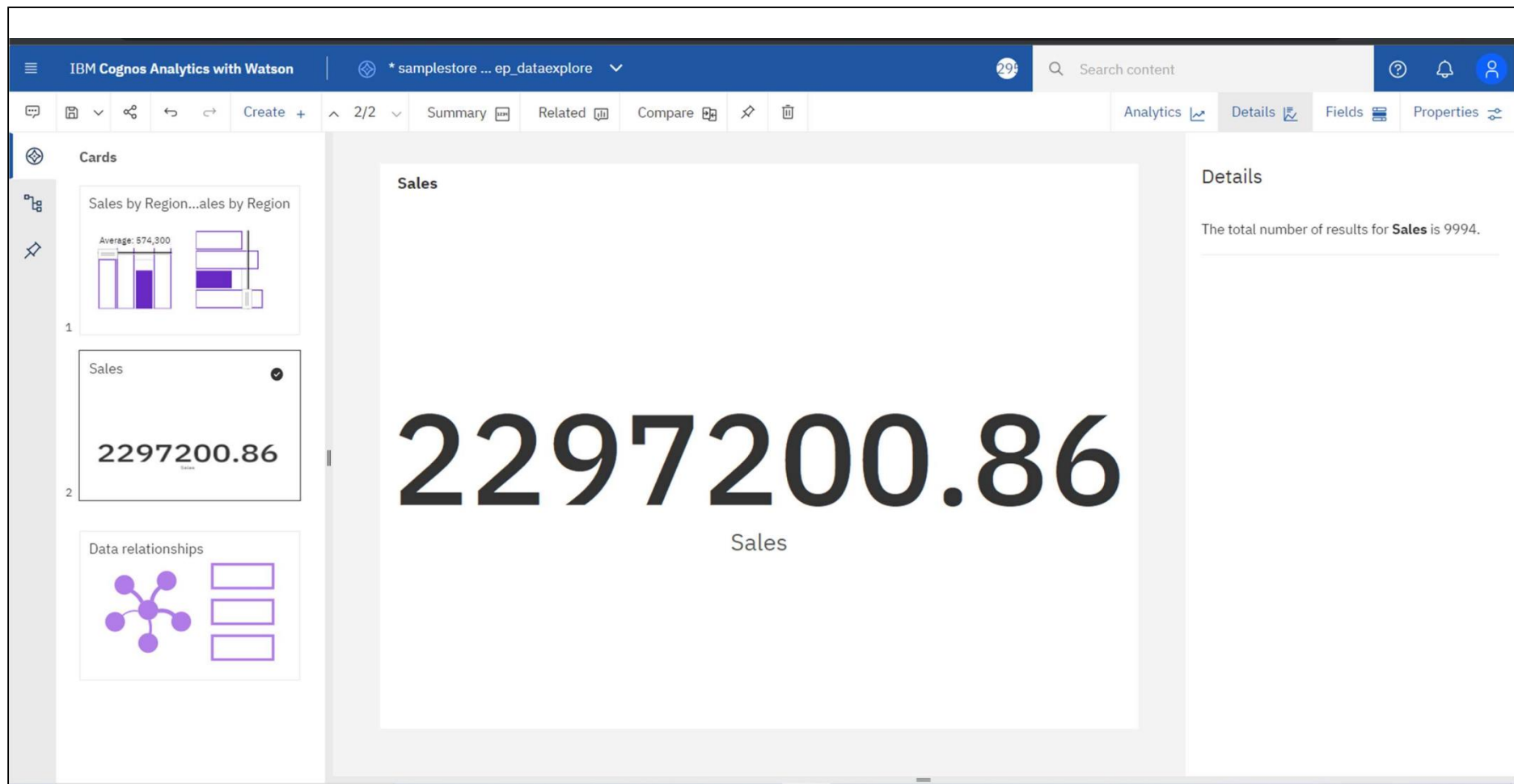
Cancel Add

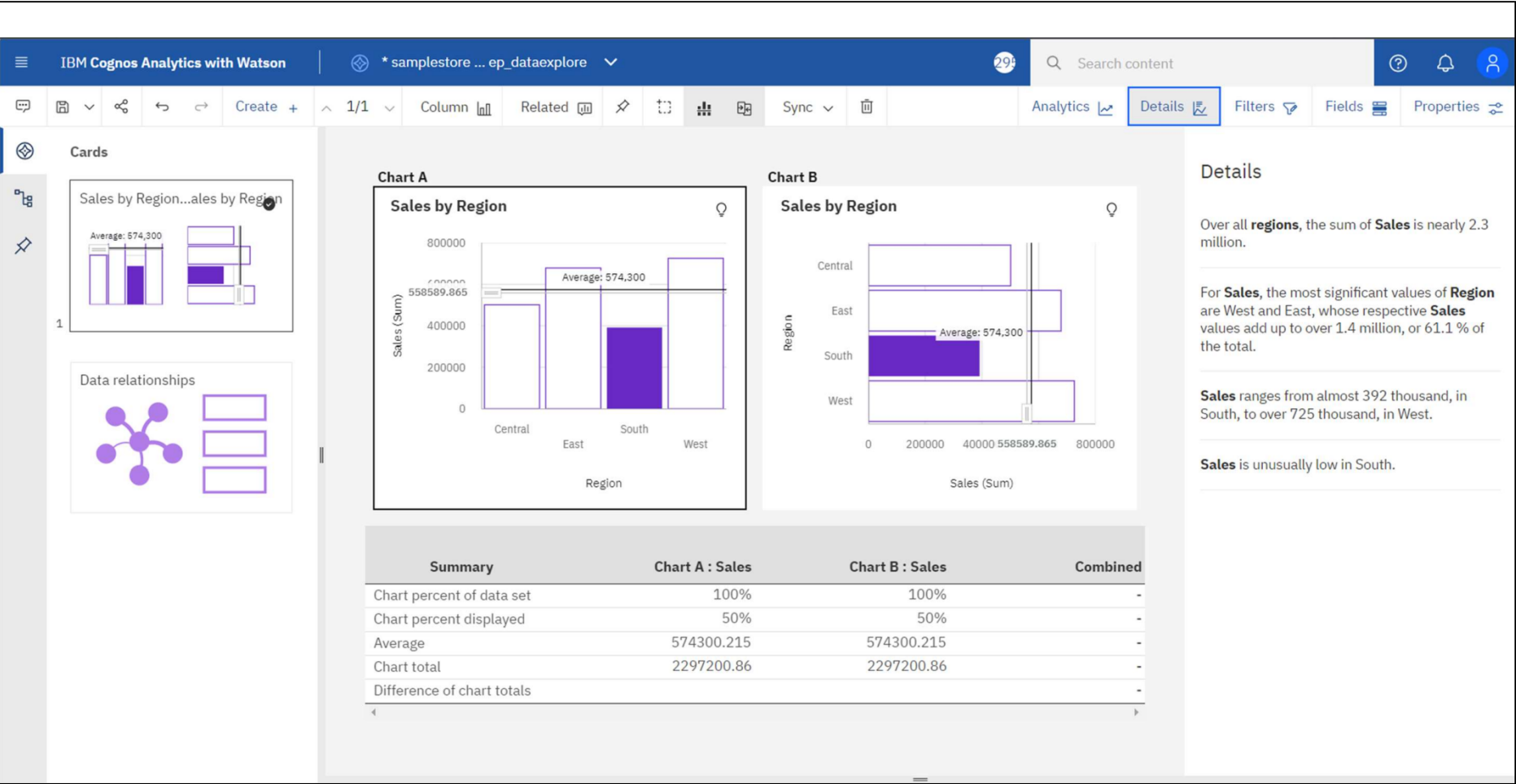
### STEP 3 : SELECT THE NEEDED METRIC TO BE EXPLORED

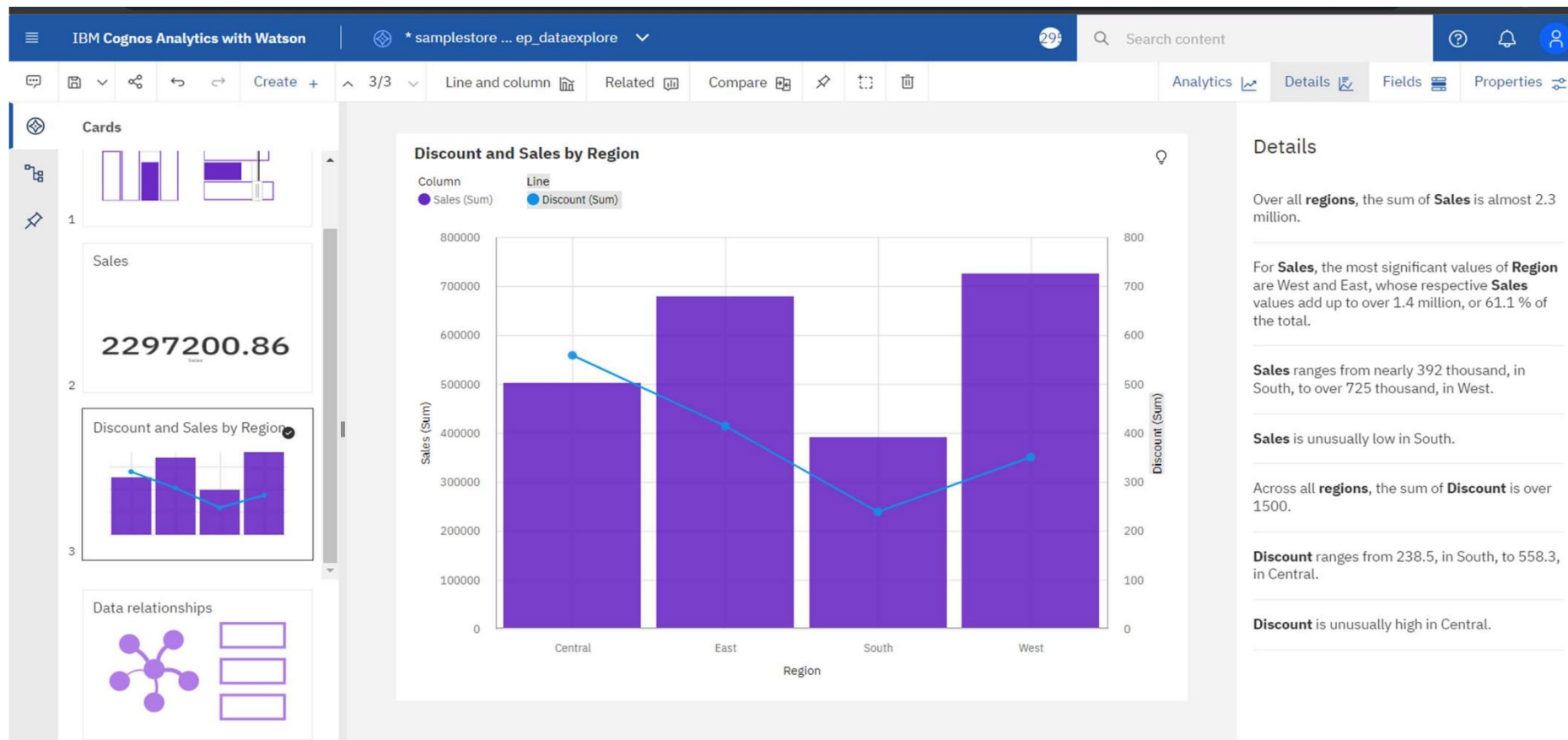
The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the IBM Cognos Analytics with Watson logo, a 'New exploration' button, a user profile icon, and a search bar. Below the navigation bar, a toolbar contains icons for chat, save, share, undo, redo, and a 'Create' button. The left sidebar, titled 'Cards', shows a 'Data relationships' card with a diagram of a central node connected to four peripheral nodes, and three empty rectangular boxes. The main content area is titled 'Select a starting point' and includes a 'Skip' button. Below the title, a text box states 'Every exploration includes a data relationships card.' and a prompt 'Start with any column. You can always change it later.' is followed by a search input field containing the text 'Enter data column. Not sure? Try Profit, Quantity'. At the bottom, a section titled 'Try starting with one of these...' lists five buttons: 'Profit', 'Quantity', 'Discount', 'Sales', and 'Shipping Cost'. The bottom status bar shows the time '07:14'.

## STEP 4 : EXPLORE THE DATA RELATIONSHIPS













## STEP 5 :SAVE THE EXPLORATION

The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the title 'IBM Cognos Analytics with Watson', a dropdown menu for '\* global sales data cleaned', a search bar, and user profile icons. The main workspace is divided into three tabs: 'Grid', 'Relationships' (selected), and 'Custom tables'. On the left, the 'Data module' pane shows a search bar and a list of fields for 'Global\_Superstore2.csv', including 'Row ID', 'Order ID', 'Order Date', 'Ship Date', 'Ship Mode', 'Customer ID', 'Customer Name', 'Segment', 'City', 'State', 'Country', 'Postal Code', 'Market', 'Region', and 'Product ID'. The 'Product ID' field is expanded, showing three values: 'FUR-ADV...000002', 'FUR-ADV...000108', and 'FUR-ADV...000183'. In the center, the 'Global\_Superstore2.csv' data module is highlighted with a blue box. A context menu is open over this box, listing options: 'New' (with sub-options 'Calculation...', 'Filter...', and 'Table...'), 'Rename', 'Show query information...', 'Hide from users', 'Remove', 'Manage filters', 'Auto-arrange', and 'Properties'. On the right, the 'Diagram settings' panel is visible, featuring a 'Cardinality' toggle (checked), a 'Focus mode' toggle (unchecked), and a 'Degrees of separation: 1' slider. A vertical toolbar on the far right contains three icons: a magnifying glass, a circular arrow, and another magnifying glass.

