

PROJECT DEVELOPMENT PHASE

DELIVERY OF SPRINT-2

Date	4 NOVEMBER 2022
TEAM ID	PNT2022TMID51031
PROJECT NAME	GLOBAL SALES DATA ANALYTICS

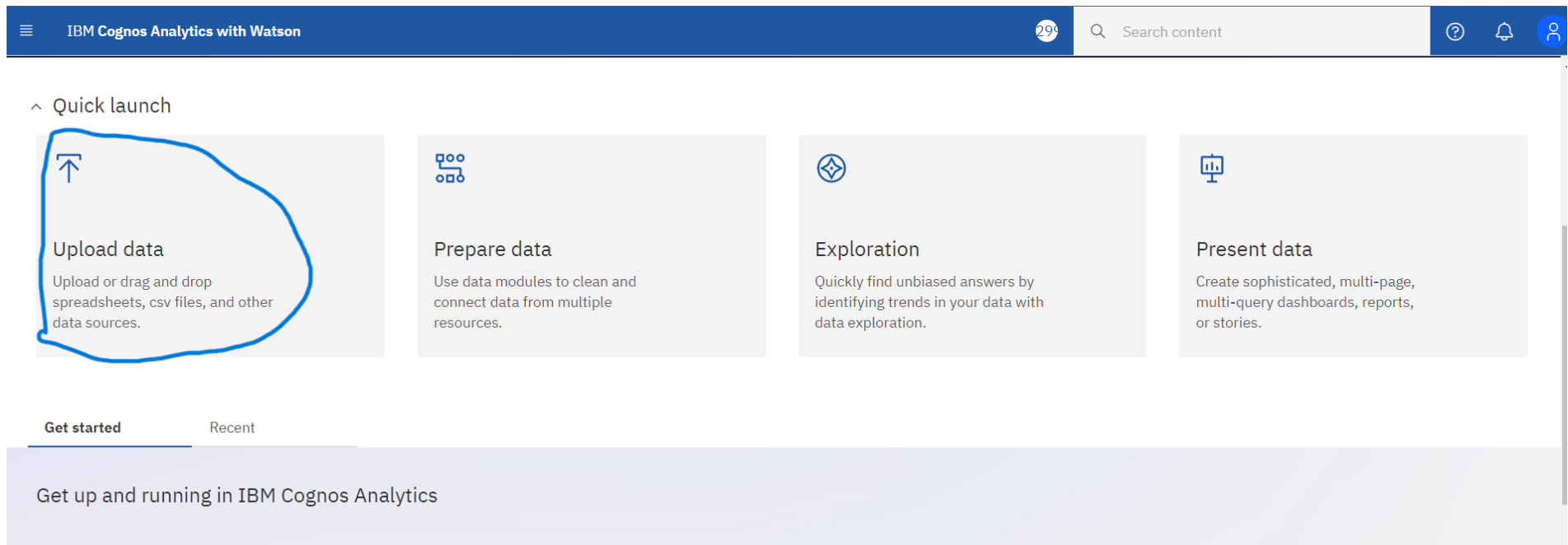
SPRINT 2 FUNCTIONAL REQUIREMENT:

- **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




DATA PREPARATION:

STEP 1: CLICK THE PREPARE DATA


 IBM Cognos Analytics with Watson 29%  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.

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[Launch the learn pane](#)

STEP 2: SELECT THE UPLOAD DATASET FROM THE CONTENT MENU

The screenshot shows the 'Select sources' dialog in IBM Cognos Analytics. The dialog has a search bar at the top with the text 'My content'. Below the search bar is a list of files and folders. The file 'Global_Superstore2.xlsx' is highlighted with a blue border. To the right of the list is a 'Filter by' panel with options for 'Type' (Folders, Packages, Files, Data sets, Modules) and 'Modified' (All, Today, Yesterday, Past week, Past month). The 'All' option under 'Modified' is selected.

IBM Cognos Analytics with Watson

299 Search content

Select sources

My content

Type any text to filter items in this folder

9/10/2022, 5:40 AM

bank (1).csv	9/18/2022, 11:49 PM
Bank Analytics Dashboard	9/19/2022, 1:39 AM
Data Virtualization charts	11/3/2022, 11:15 AM
Data Visualization	11/13/2022, 7:37 AM
Data Visualization 1	11/13/2022, 7:09 AM
Global Superstore.xls	10/29/2022, 4:09 AM
Global_Superstore2.xlsx	10/29/2022, 10:07 AM
Pharma Sales Dashboard	9/26/2022, 1:39 AM
Pharma_Monthly_Sales.csv	9/24/2022, 4:36 AM
Product Sales data module	

Filter by

Reset filters

Type

- ☐ Folders
- ☐ Packages
- ☐ Files
- ☐ Data sets
- ☐ Modules

Modified

- ☒ All
- ☐ Today
- ☐ Yesterday
- ☐ Past week
- ☐ Past month

STEP 3 : PREPARATION OF THE DATA

IBM Cognos Analytics with Watson

New data module

29

Search content

?

🔔

👤

📁

⌵

🔗

↶

↷

📄

📄

🔍

Properties

☰

Data module

+

🕒

🔍

Search

📁

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

☰

Grid

🔗

Relationships

📄

Custom tables

📄

Preview data

📄

Preview data

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

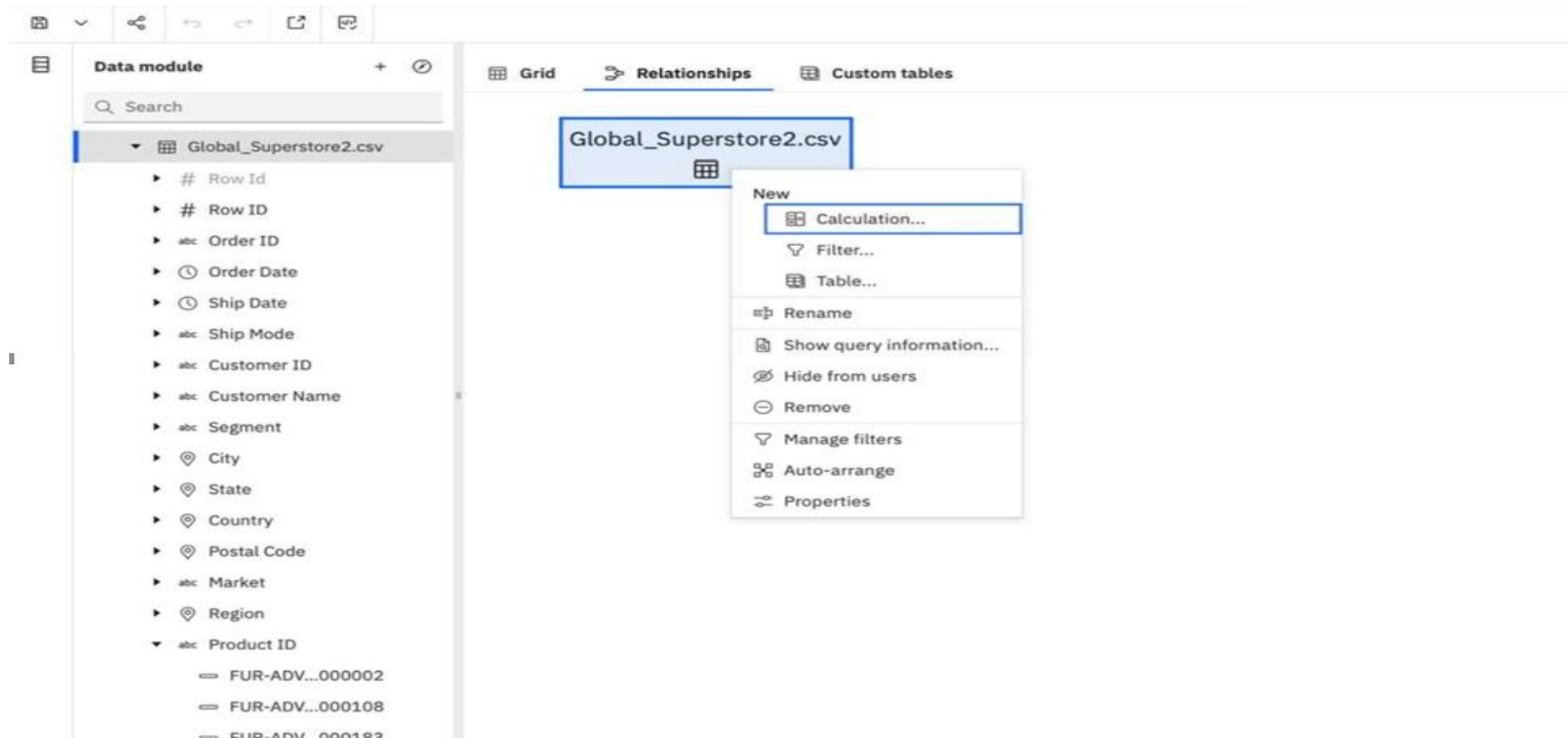
STEP 4: ONCE YOU LOAD THE DATA, WE NEED TO PREPARE THE DATA.

1. REMOVE THE NULL VALUES
2. PREPARE CALCULATIONS OF YEAR, MONTH, DAY FIELDS AND ALSO THE RELATED NAVIGATION PATH
3. CREATE A FEW MORE CALCULATIONS – TARGET SALES, MIN SALES, MAX SALES, MIDDLE RANGE SALES

The screenshot displays a data management application. On the left, a 'Data module' sidebar contains a search bar and a list of fields. The 'Postal Code' field is selected. The main area shows a table with the following data:

	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
sto	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

CREATE CALCULATION TO MAKE THE DATE PREPARED



IBM Cognos Analytics with Watson

* New data module

29

Search content

?

Create calculation

Name

Calculation name

Components

🔍 Search

Global_Sup...tore2.xlsx

Row Id

Row ID

abc Order ID

🕒 Order Date

🕒 Ship Date

abc Ship Mode

abc Customer ID

abc Custo... Name

abc Segment

📍 City

Expression

1 day(

Order_Date

)

Validate

Validation Results

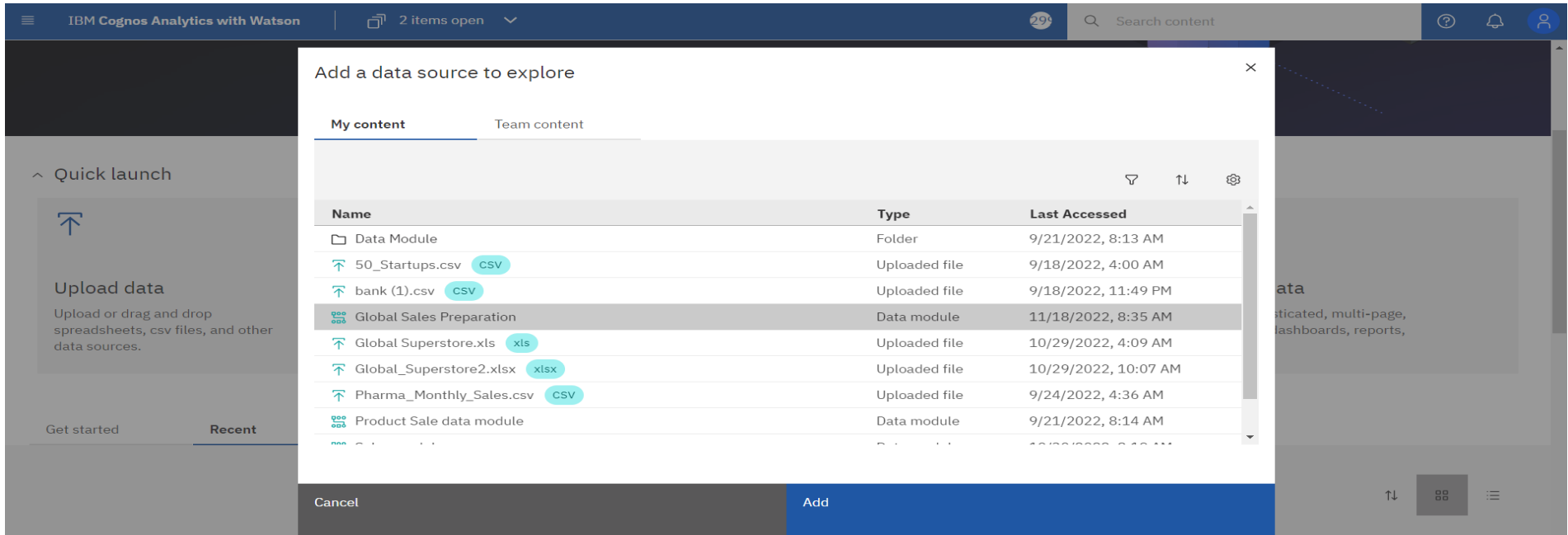
✔ The expression is valid.

☐ Calculate after aggregation

Cancel

OK

STEP 5 : SAVE THE DATASET AFTER PREPARING THE DATA



The screenshot shows the IBM Cognos Analytics interface with a modal dialog titled "Add a data source to explore". The dialog has two tabs: "My content" and "Team content". The "My content" tab is selected, displaying a list of data sources. The list has columns for "Name", "Type", and "Last Accessed".

Name	Type	Last Accessed
Data Module	Folder	9/21/2022, 8:13 AM
50_Startups.csv CSV	Uploaded file	9/18/2022, 4:00 AM
bank (1).csv CSV	Uploaded file	9/18/2022, 11:49 PM
Global Sales Preparation	Data module	11/18/2022, 8:35 AM
Global Superstore.xls xls	Uploaded file	10/29/2022, 4:09 AM
Global_Superstore2.xlsx xlsx	Uploaded file	10/29/2022, 10:07 AM
Pharma_Monthly_Sales.csv CSV	Uploaded file	9/24/2022, 4:36 AM
Product Sale data module	Data module	9/21/2022, 8:14 AM

At the bottom of the dialog, there are "Cancel" and "Add" buttons. The background interface shows a sidebar with "Quick launch" and "Upload data" options, and a main area with a search bar and user profile icon.

LINK FOR THE DATA EXPLORATION:

https://us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i35B7CB44D2634281BBA801B0EFFC6A6E&objRef=i35B7CB44D2634281BBA801B0EFFC6A6E&tid=3343241405_ca7128430b9c46459d9b007f2a795283_sessionTemp

DATA EXPLORATION:

STEP 1: CLICK THE EXPLORATION

The screenshot displays the IBM Cognos Analytics with Watson user interface. At the top, a dark blue header bar contains the product name, a notification bell with '29' alerts, a search bar labeled 'Search content', and user profile icons. Below the header is a large dark blue banner with a 3D cube graphic. The main content area is titled 'Quick launch' and features four light gray cards: 'Upload data', 'Prepare data', 'Exploration', and 'Present data'. The 'Exploration' card is circled in blue. At the bottom, there are two tabs: 'Get started' and 'Recent'.

IBM Cognos Analytics with Watson | 2 items open

29 Search content

Quick launch

Upload data
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Prepare data
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Exploration
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Present data
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Get started Recent

STEP 2 : ADD A DATA SOURCE TO EXPLORE

IBM Cognos Analytics with Watson

2 items open

29

Search content

?

Quick launch

Upload data

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

Get started

Recent

Add a data source to explore

My content

Team content

Name	Type	Last Accessed
Data Module	Folder	9/21/2022, 8:13 AM
50_Startups.csv CSV	Uploaded file	9/18/2022, 4:00 AM
bank (1).csv CSV	Uploaded file	9/18/2022, 11:49 PM
Global Sales Preparation	Data module	11/18/2022, 8:35 AM
Global Superstore.xls xls	Uploaded file	10/29/2022, 4:09 AM
Global_Superstore2.xlsx xlsx	Uploaded file	10/29/2022, 10:07 AM
Pharma_Monthly_Sales.csv CSV	Uploaded file	9/24/2022, 4:36 AM
Product Sale data module	Data module	9/21/2022, 8:14 AM

Cancel

Add

ata

sticated, multi-page,

dashboards, reports,

STEP 3 : SELECT THE NEEDED METRIC TO BE EXPLORED

Create +

Cards

Data relationships

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 Discount, Profit

Try starting with one of these...

Discount

Profit

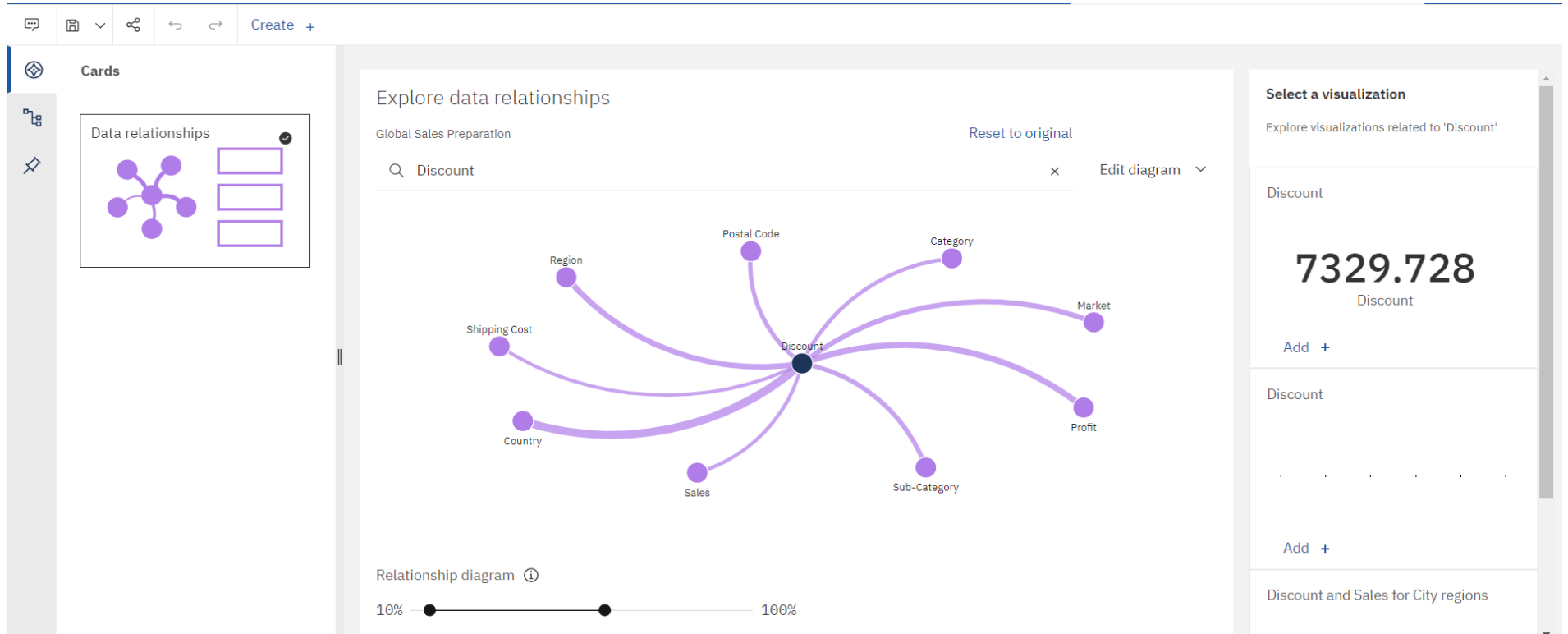
Sales

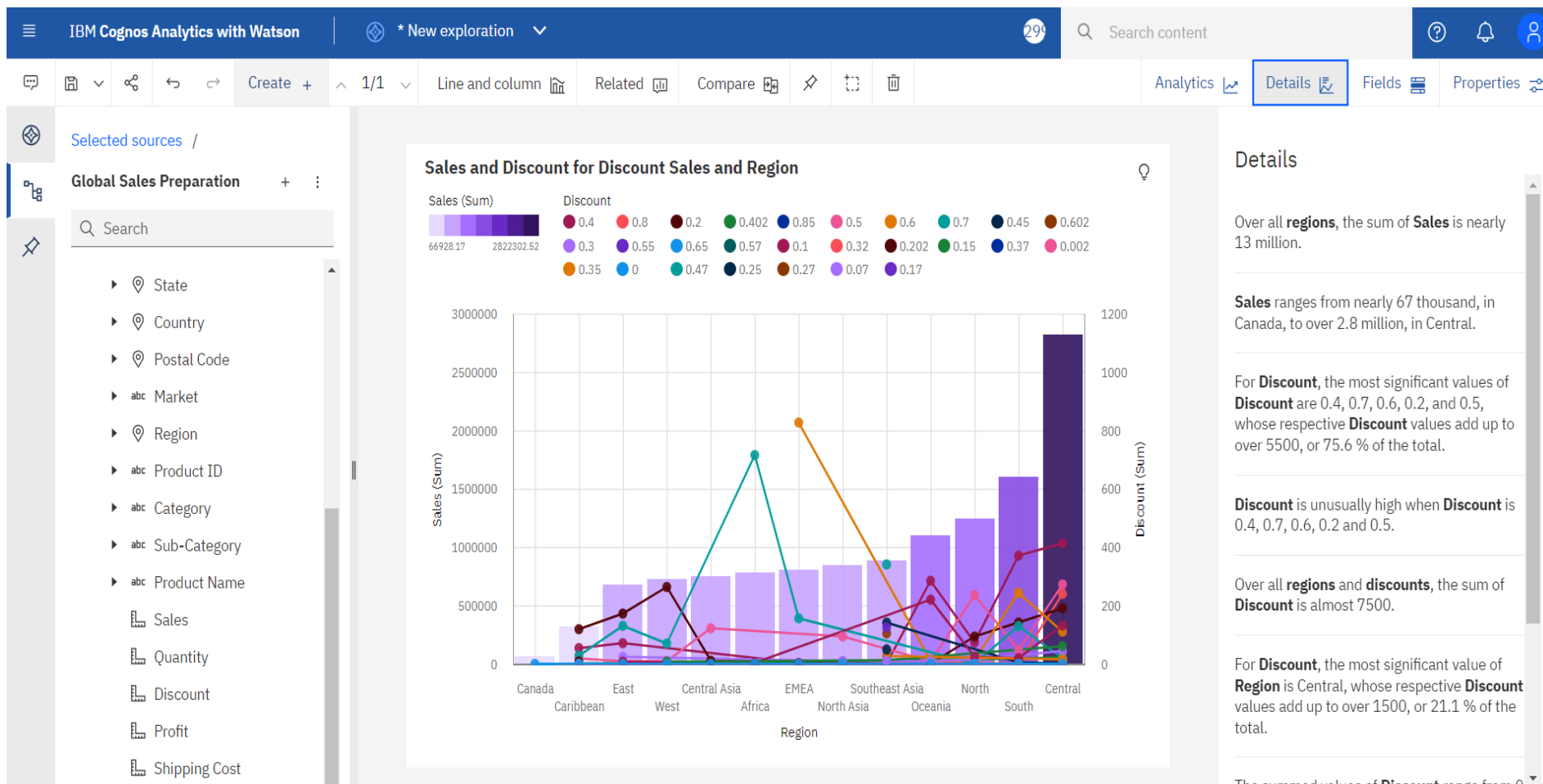
Quantity

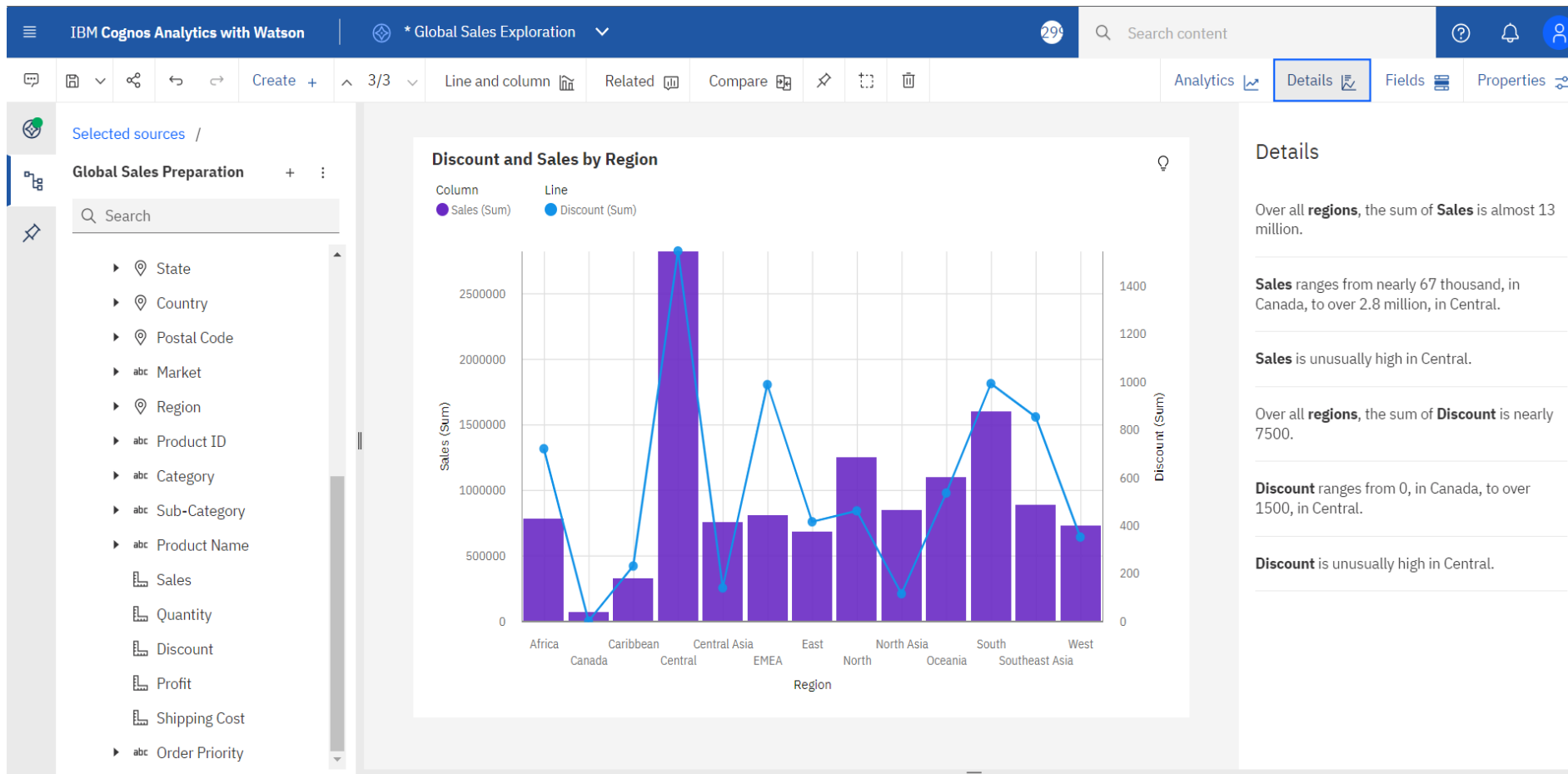
Shipping Cost

Calculation name

STEP 4 : EXPLORE THE DATA RELATIONSHIPS









Selected sources /

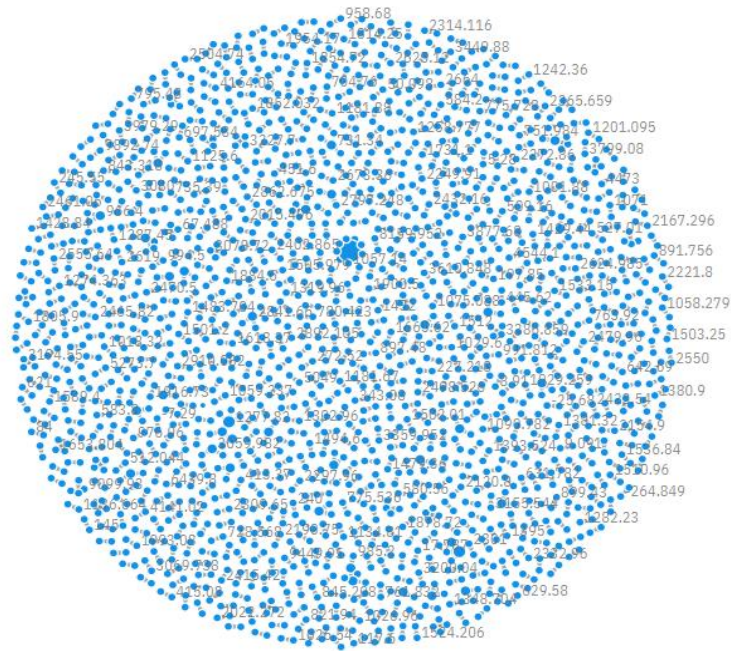


Global Sales Preparation + :

Search

- State
- Country
- Postal Code
- abc Market
- Region
- abc Product ID
- abc Category
- abc Sub-Category
- abc Product Name
- Sales
- Quantity
- Discount
- Profit
- Shipping Cost

Sales to Profit



STEP 5 :SAVE THE EXPLORATION

IBM Cognos Analytics with Watson | * New exploration | 290 | Search content

Selected sources / Global Sales Preparation

Search

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

Save as

Name: Global Sales Exploration

Selected destination: My content

My content | Team content

Name	Type	Last Accessed
Data Module	Folder	9/21/2022, 8:13 AM
50_Startups.csv	Uploaded file	9/18/2022, 4:00 AM
ass1	Exploration	9/18/2022, 5:48 AM
bank (1).csv	Uploaded file	9/18/2022, 11:49 PM
Bank Analytics Dashboard	Dashboard	9/19/2022, 1:39 AM

Cancel | Save

The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the application name, a dropdown menu for 'global sales data cleaned', a search bar, and user profile icons. The main workspace is divided into three panes: 'Data module', 'Grid', and 'Relationships'. The 'Data module' pane on the left shows a tree view of the 'Global_Superstore2.csv' dataset, listing fields such as Row ID, Order ID, Ship Date, Ship Mode, Customer ID, Customer Name, Segment, City, State, Country, Postal Code, Market, Region, and Product ID. The 'Grid' pane in the center shows a single table node labeled 'Global_Superstore2.csv'. A context menu is open over this node, offering options like 'New', 'Calculation...', 'Filter...', 'Table...', 'Rename', 'Show query information...', 'Hide from users', 'Remove', 'Manage filters', 'Auto-arrange', and 'Properties'. The 'Relationships' pane on the right is currently empty. A 'Diagram settings' panel on the far right allows toggling 'Cardinality' and 'Focus mode', and includes a 'Degrees of separation' slider set to 1. A vertical toolbar on the right edge contains icons for search, undo, and redo.

LINK FOR THE DATA EXPLORATION:

https://us3.ca.analytics.ibm.com/bi/?perspective=explore&pathRef=.my_folders%2FGlobal%2BSales%2BExploration&subView=model000001848b55ea94_000000

