

# Project Development Phase

## Delivery of Sprint-2

Date	7 November 2022
Team ID	PNT2022TMID54250
Project Name	Global Sales Data Analytics

## Project Development Phase:

### Sprint-1:

Registration and Data upload

### Sprint-2:

Data preprocessing

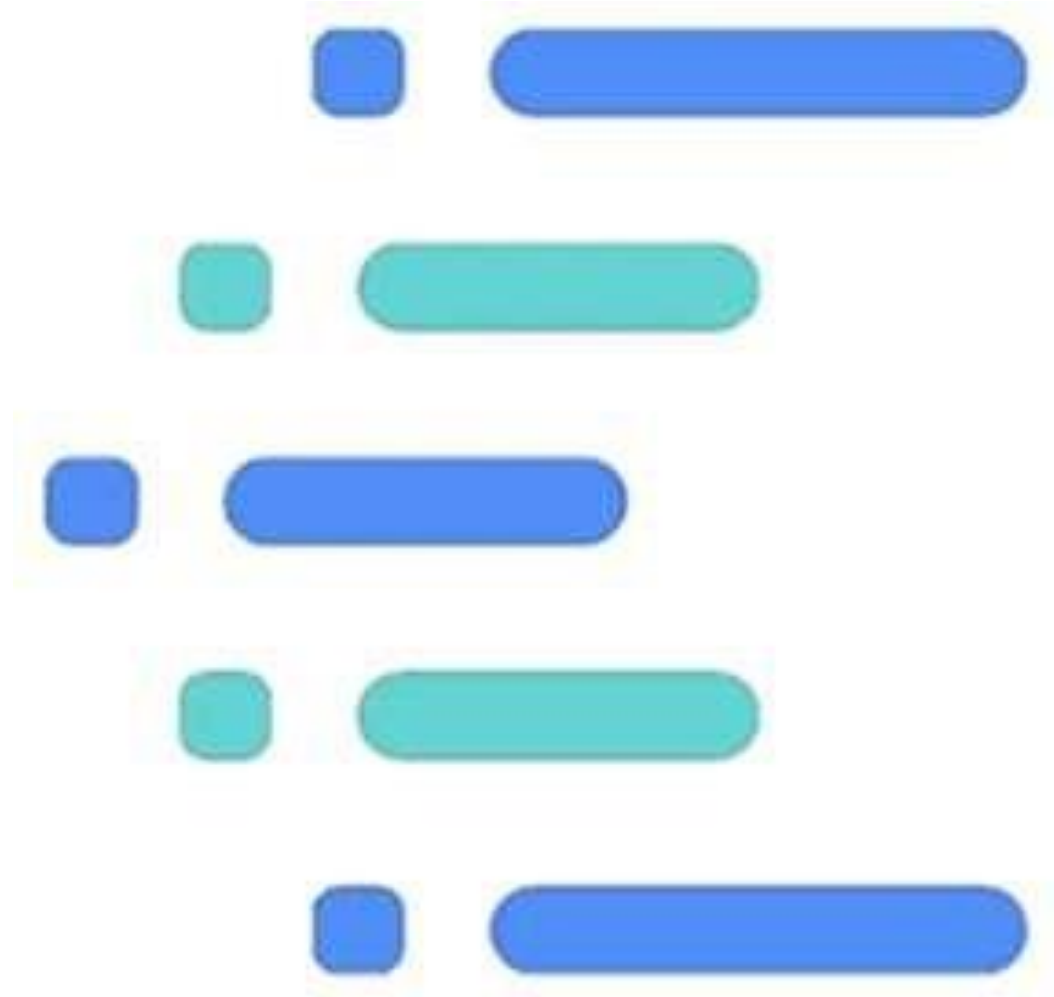
### Sprint-3:

Dashboard Exploration and Creation

### Sprint-4:

Report Story Creation

**TOOL USED: COGNOS ANALYTICS**



IBM

Cognos

Analytics

# DATA PREPROCESSING:

## Sprint -2:

Registration and Data upload

Download the Dataset: <https://www.kaggle.com/datasets/apoorvaappz/global-super-store-dataset>

The screenshot displays the IBM Cognos Analytics with Watson user interface. At the top, a dark navigation bar includes the product name, a tab indicator showing '7 items open', a search bar with the text 'Search content', and user profile controls. Below the navigation bar, a 'Quick launch' section is visible, featuring four large, light-gray tiles with blue icons and text:

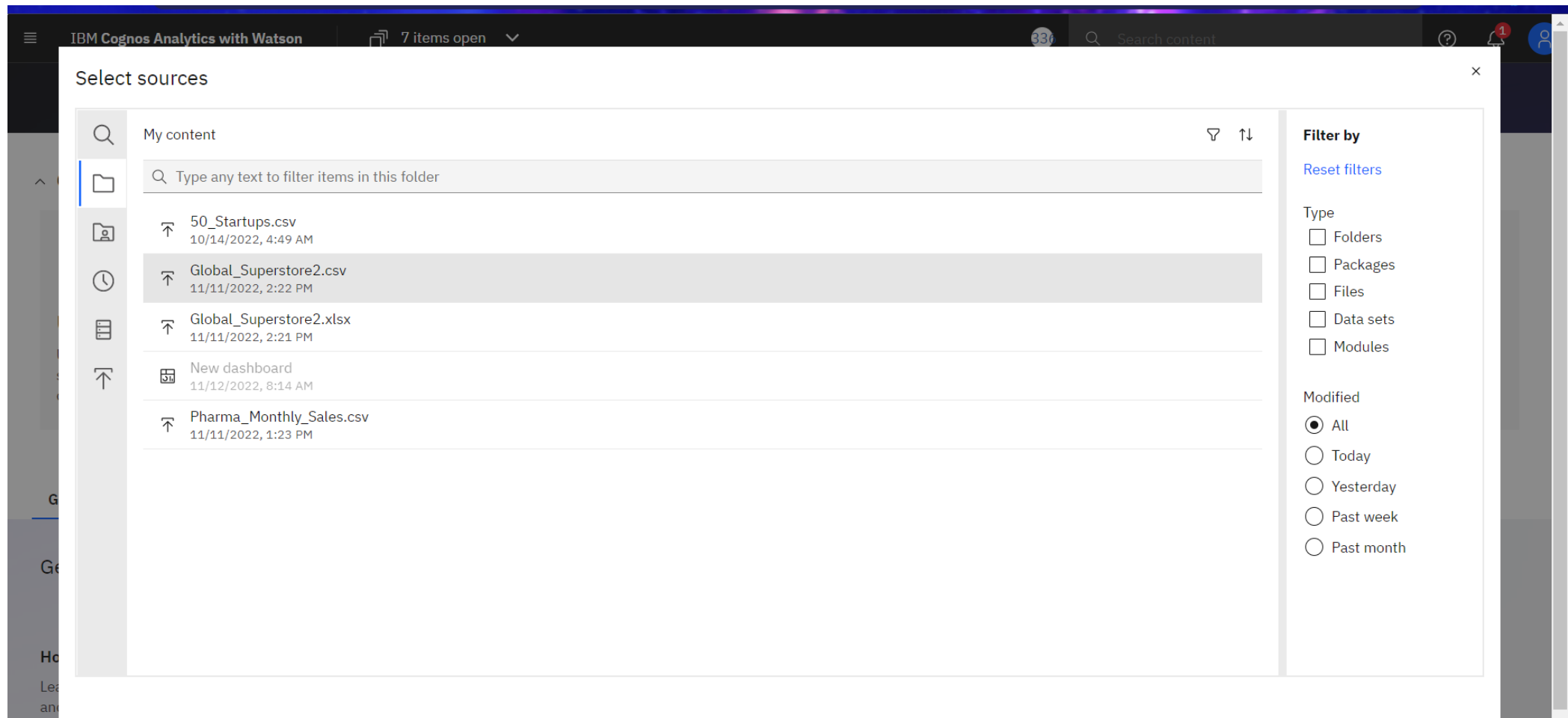
- Upload data**: Upload or drag and drop spreadsheets, csv files, and other data sources.
- Prepare data**: Use data modules to clean and connect data from multiple resources.
- Exploration**: Quickly find unbiased answers by identifying trends in your data with data exploration.
- Present data**: Create sophisticated, multi-page, multi-query dashboards, reports, or stories.

Below the Quick launch section, there are two tabs: 'Get started' (which is selected) and 'Recent'. The 'Get started' tab contains a section titled 'Get up and running in IBM Cognos Analytics' with three sub-sections:

- How-to videos**: Learn how to use IBM Cognos Analytics and start gaining insights into your data. A link 'Watch videos' is provided.
- Accelerator Catalog**: Browse a growing catalog of industry use, best practice guides, custom visualizations, and more. A link 'Browse catalog' with an external icon is provided.
- Learning resources**: Expand your knowledge and get assistance by connecting with the community, reading documentation, and watching videos.

An illustration of three people (two women and one man) looking at a large screen with a lightbulb icon is positioned between the 'How-to videos' and 'Accelerator Catalog' sections.

# SELECTING THE SOURCE



Data module

+ ⓘ


Q Search

New data module ⋮

Navigation paths +

- Global\_Su...tore2.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

Grid Relationships Custom tables



### Preview data

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

Data module

Search

New data module

Navigation paths

Global\_Su...tore2.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

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

# REMOVING NULL VALUES

IBM Cognos Analytics with Watson

\* New data module

336

Search content

?

1

Properties

Data module

Search

Customer ID

Customer Name

Segment

City

State

Country

Postal Code

Market

Region

Product ID

Category

Sub-Category

Product Name

Sales

Quantity

Discount

Profit

Shipping Cost

Grid

Relationships

Custom tables

	Postal Code	Market	Region	Product ID	Category	Sub-Category	Product Name
	10024	US	East	TEC-AC-10003033	Technology	Accessories	Plantronics Over-the-H monaural V Headset Sy
	Null	APAC	Oceania	FUR-CH-10003950	Furniture	Chairs	Novimex Ex Leather Arn
	Null	APAC	Oceania	TEC-PH-10004664	Technology	Phones	Nokia Smar with Caller
	Null	EU	Central	TEC-PH-10004583	Technology	Phones	Motorola Sr Cordless
	Null	Africa	Africa	TEC-SHA-10000501	Technology	Copiers	Sharp Wirel High-Speec
	Null	APAC	Oceania	TEC-PH-10000030	Technology	Phones	Samsung Si with Caller
	Null	APAC	Oceania	FUR-CH-10004050	Furniture	Chairs	Novimex Ex Leather Arn Adjustable
	Null	APAC	Oceania	FUR-TA-10002958	Furniture	Tables	Chromcraft Table, Fully
	95823	US	West	OFF-BI-10003527	Office Supplies	Binders	Fellowes Pf Punch Plas/ Binding Ma Manual Bin
	28027	US	South	FUR-TA-10000198	Furniture	Tables	Chromcraft Wood Oval Tables & Be
							Martin Valn





IBM Cognos Analytics with Watson

\* New data module

336

Search content

?

1

Properties

Data module

Search

Order ID

Order Date

Ship Date

Ship Mode

Customer ID

City

Customer Name

Segment

State

Country

Postal Code

Market

Region

Product ID

Category

Sub-Category

Product Name

Sales

Grid

Relationships

Custom tables

	Country	Postal Code	Market	Region	Product ID	Category	Sub
	United States			West	TEC-AC-10003033	Technology	A
	Wales	Austr		Oceania	FUR-CH-10003950	Furniture	C
	d	Austr		Oceania	TEC-PH-10004664	Technology	P
	Germany			Central	TEC-PH-10004583	Technology	P
	Senegal			Africa	TEC-SHA-10000501	Technology	C
	Wales	Austr		Oceania	TEC-PH-10000030	Technology	P
	New Zealand			Oceania	FUR-CH-10004050	Furniture	C
	New Zealand	Null	APAC	Oceania	FUR-TA-10002958	Furniture	T
	United States	95823	US	West	OFF-BI-10003527	Office Supplies	B
	ina	United States	US	South	FUR-TA-10000198	Furniture	T

Clean - Postal Code

NULL values

☒ Replace this value with NULL

0

☒ Replace NULL values with

0

Cancel

Clean

# CREATING DAY, MONTH, YEAR COLUMNS SEPARATELY

The screenshot displays the IBM Cognos Analytics interface. A 'Data format' dialog box is open, showing the 'Order Date' column selected. The 'Format type' dropdown is set to 'Date/Time'. The dialog lists various format options, with 'Date/Time' selected. The background shows a data table with columns 'Customer Name' and 'Segment'.

**Data format**

Column: Order Date

Format type: •

- ① Clock
- ① Date separator
- ① Date style
- ① Date ordering
- ① Display AM and PM symbols
- ① Display time zone
- ① Time separator
- ① Missing value characters

Advanced options

Reset properties

Cancel OK

Customer Name	Segment
Rick Hansen	Consumer
Justin Ritter	Corporate
Craig Reiter	Consumer
Katherine Murray	Home Office
Rick Hansen	Consumer
Jim Mitchum	Corporate
Toby Swindell	Consumer
Mick Brown	Consumer
Jane Waco	Corporate
Joseph Holt	Consumer