

# PROJECT DEVELOPMENT PHASE

## DELIVERY OF SPRINT-2

|              |                             |
|--------------|-----------------------------|
| Team ID      | PNT2022TMID48232            |
| Project Name | Global Sales Data Analytics |

### Preparing the dataset:

- Once the data is loaded, it needs to be cleaned and processed.
- Prepare calculations of year, month and day fields and create related navigation paths.
- Create a few more calculations – target sales, min sales range, max sales range and mid sales range.

Global Super Store Dataset | Kaggle | My IBM | Home

us3.ca.analytics.ibm.com/bi/?perspective=home

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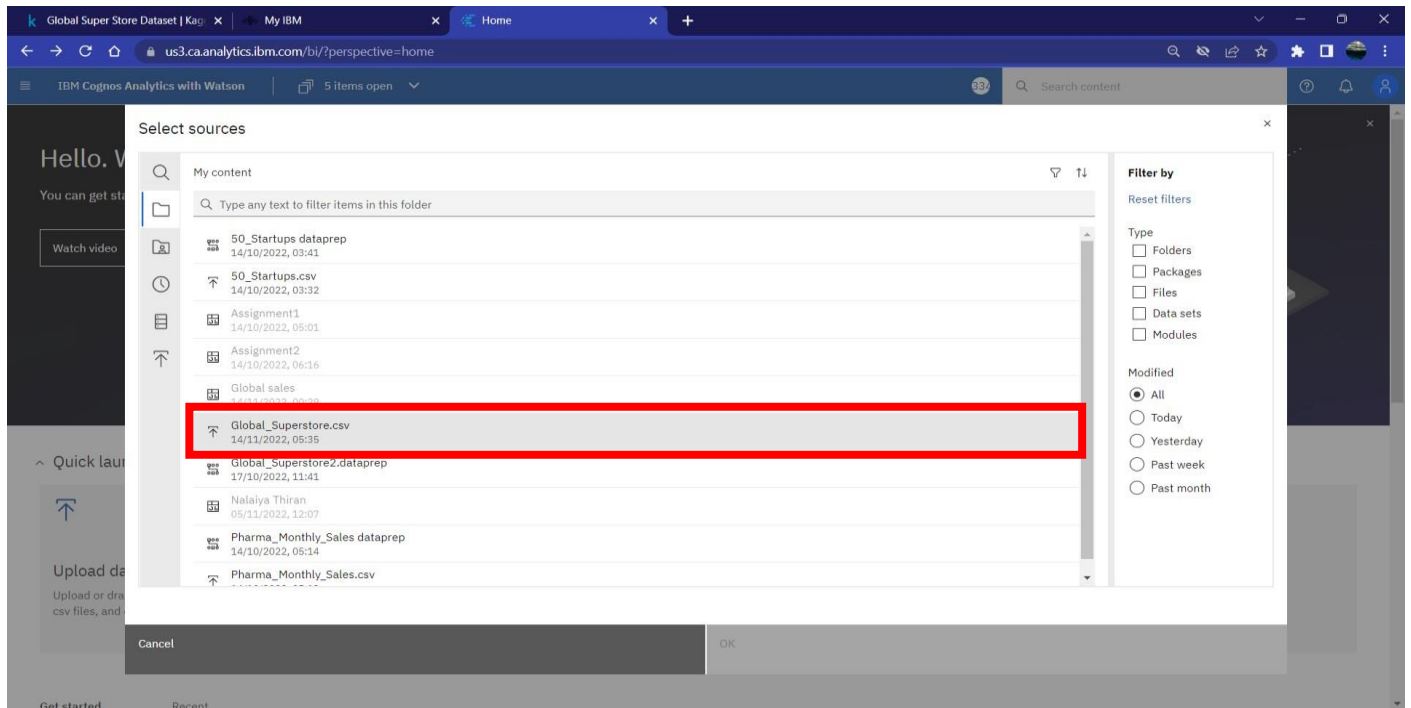
Quick launch

**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.



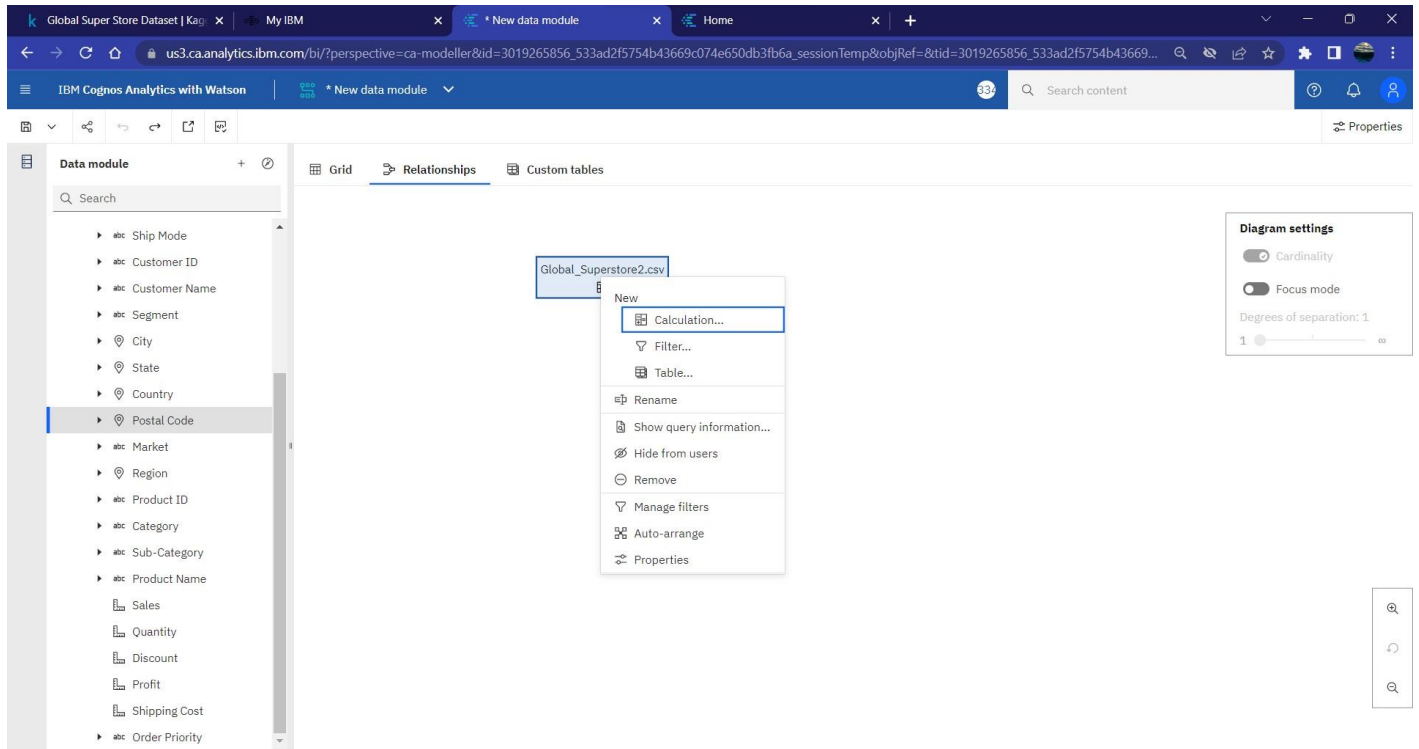
## Data cleaning and Data Pre-Processing:

### Removing the null values

| City          | State          | Country       | Postal Code | Market | Region       | Product ID       | Category |
|---------------|----------------|---------------|-------------|--------|--------------|------------------|----------|
| New York City | New York       | United States | 10024       | US     | East         | TEC-AC-10003033  | Tech     |
| Wollongong    |                |               |             | APAC   | Oceania      | FUR-CH-10003950  | Furn     |
| Brisbane      |                |               |             | APAC   | Oceania      | TEC-PH-10004664  | Tech     |
| Berlin        |                |               |             | EU     | Central      | TEC-PH-10004583  | Tech     |
| Dakar         |                |               |             | Africa | Africa       | TEC-SHA-10000501 | Tech     |
| Sydney        |                |               |             | APAC   | Oceania      | TEC-PH-10000030  | Tech     |
| Porirua       |                |               |             | APAC   | Oceania      | FUR-CH-10004050  | Furn     |
| Hamilton      |                |               |             | APAC   | Oceania      | FUR-TA-10002958  | Furn     |
| Sacramento    | California     | United States | 95823       | US     | West         | OFF-BI-10003527  | Offic    |
| Concord       | North Carolina | United States | 28027       | US     | South        | FUR-TA-10000198  | Furn     |
| Alexandria    | Virginia       | United States | 22304       | US     | South        | OFF-SU-10002881  | Offic    |
| Kabul         | Kabul          | Afghanistan   | Null        | APAC   | Central Asia | FUR-TA-10001889  | Furn     |

## Data Calculations:

Create calculation to make the data prepared.



## 1. Extracting year from order date column.

Edit calculation

Name Order\_Year



## 2. Extracting month from order date column.

### Edit calculation

Name

#### Components

Search

- Global\_Sup...tore2.csv
  - Max Sales Range
  - Middle S...s Range
  - Min Sales Range
  - Target sales
- Order\_Year
- All
- Order\_Day
- order\_month
- # Row ID
- abc Order ID

#### Expression

```
1 month (Order_Date)
```

#### Validation Results

✓ The expression is valid.

Cancel

OK

## 3. Extracting day from order date column.

### Edit calculation

Name

#### Components

Search

- Global\_Sup...tore2.csv
  - Max Sales Range
  - Middle S...s Range
  - Min Sales Range
  - Target sales
- Order\_Year
- All
- Order\_Day
- order\_month
- # Row ID
- abc Order ID

#### Expression

```
1 day(Order_Date)
```

#### Information

Cancel

OK

## 4. Creating calculation for target sales.

## Edit calculation

Name

Components

Expression

Q Search

Global\_Sup...tore2.csv

Max Sales Range

Middle S...s Range

Min Sales Range

Target sales

Order\_Year

All

Order\_Day

order\_month

# Row ID

abc Order ID

1 Sales \* 1.10

Validation Results

The expression is valid.

☐ Calculate after aggregation

Cancel

OK

## Create Navigation path:

### Edit navigation path

Q Search

Global\_Superstore2.csv

Name

Select and order the columns to use in the navigation path.

abc All

Global\_Superstore2.csv

Order\_Year

Global\_Superstore2.csv

order\_month

Global\_Superstore2.csv

Order\_Day

Global\_Superstore2.csv

Cancel

OK

## Data Exploration:

Global Super Store Dataset | Kaggle x My IBM x Home x +

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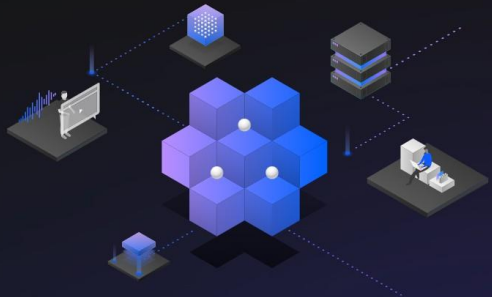
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## Explore the data:

Explore the data and create relationships among the data.