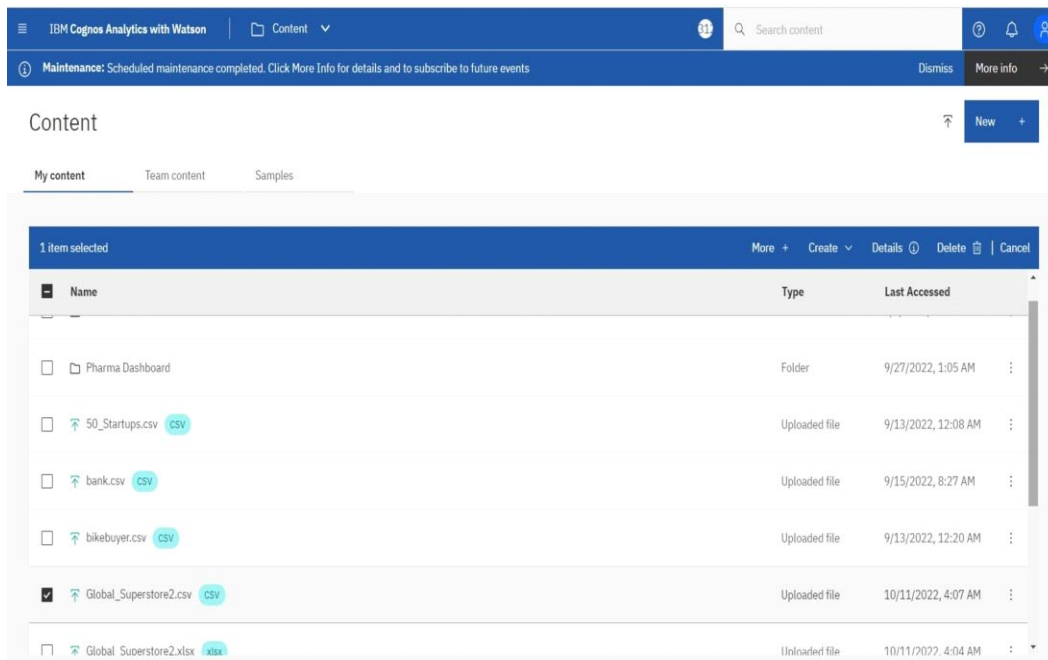
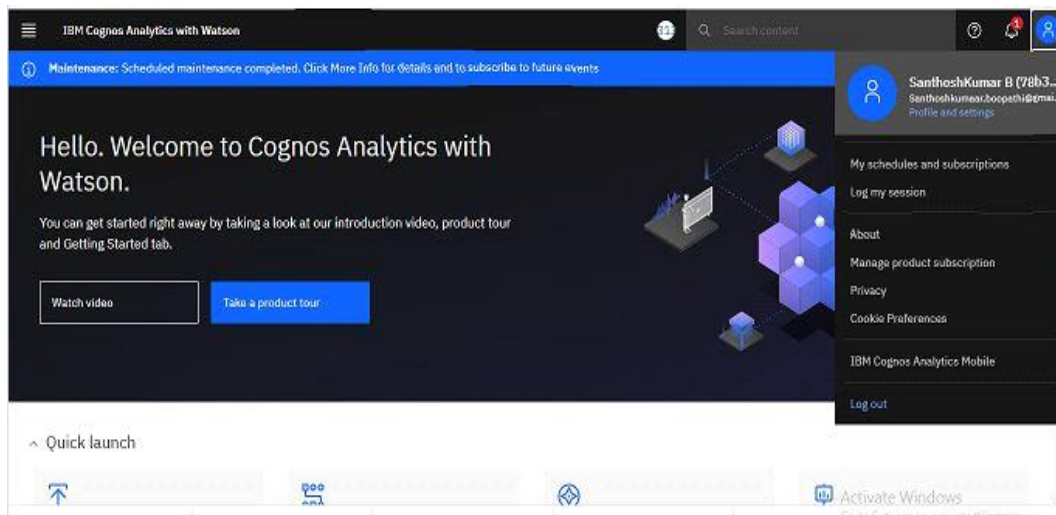


## PREPARE THE DATASETS

Team ID	PNT2022TMID16522
Project Name	Global Sales Data Analytics

## DATA PREPARATION

- First understand and load the data.



IBM Cognos Analytics with Watson | \* New data module

Maintenance: Scheduled maintenance completed. Click More Info for details and to subscribe to future events

Search content

Dismiss More info

Properties

Data module

Search

New data module

Navigation paths

Global\_Su...tore2.csv

Row ID

Order ID

Order Date

Ship Date

Ship Mode

Customer ID

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	TH-15085

- To Prepare the data, we need to verify it is clean. There must be no null values. If there are null values, there will be empty data.

IBM Cognos Analytics with Watson | \* New data module

Maintenance: Scheduled maintenance completed. Click More Info for details and to subscribe to future events

Search content

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Filter...

Create data group...

Create navigation path...

Split...

Hide from users

Remove

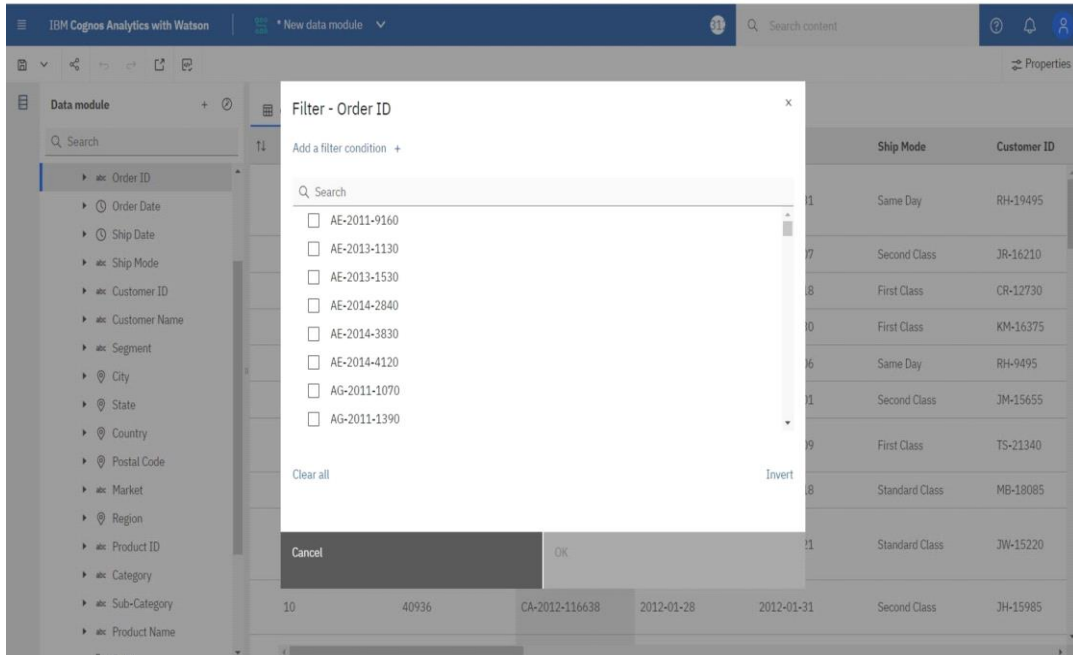
Format data...

Clean...

Sort descending

Sort ascending

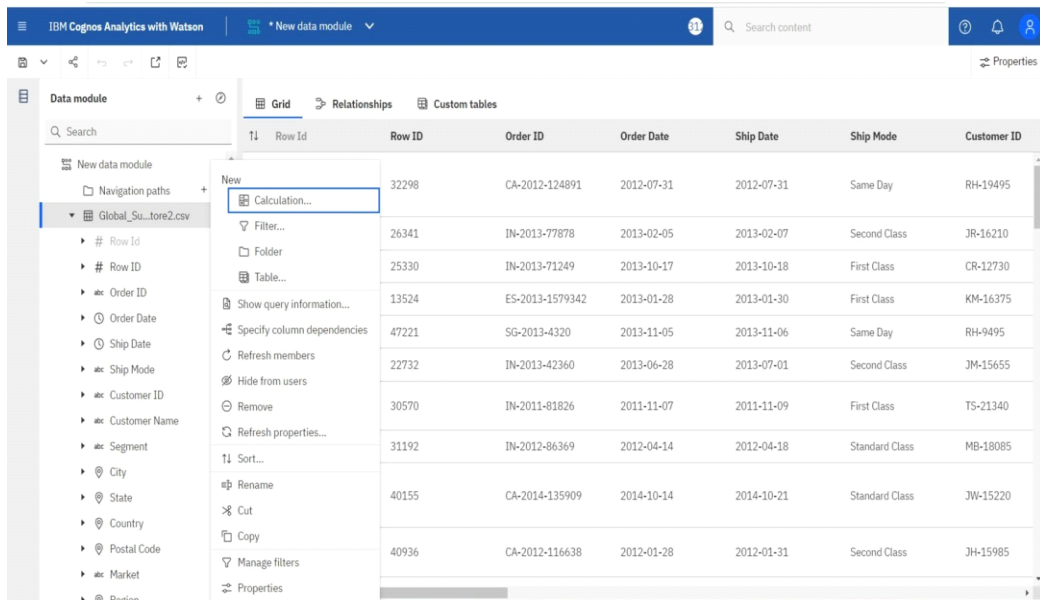
Properties



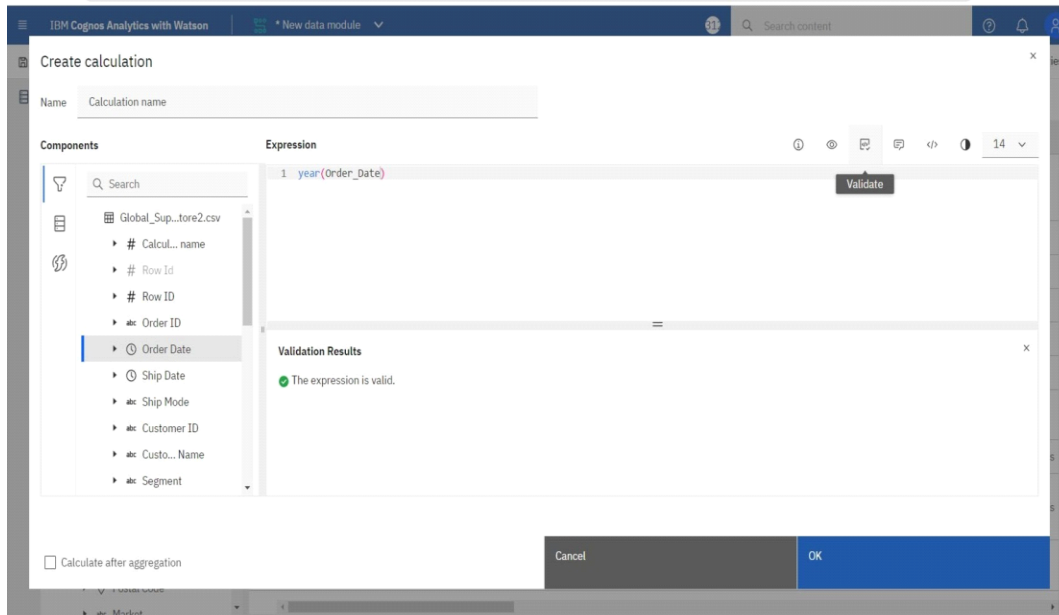
- Once cleaned, the data is saved.

## DATE CALCULATIONS AND NAVIGATION PATHS

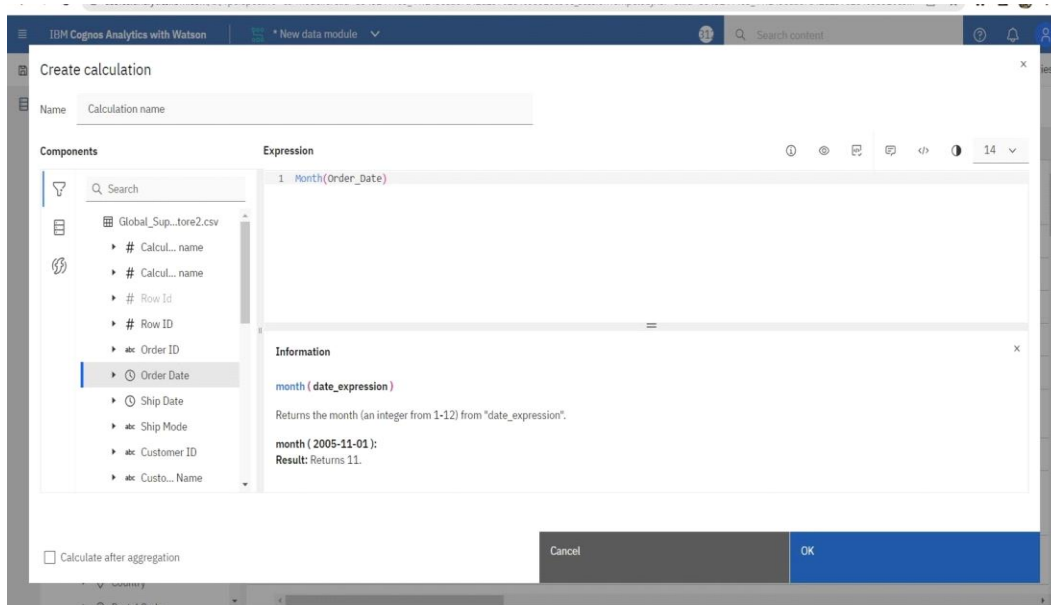
- Prepare Calculations of Year, Month, Day fields and also the related Navigation path



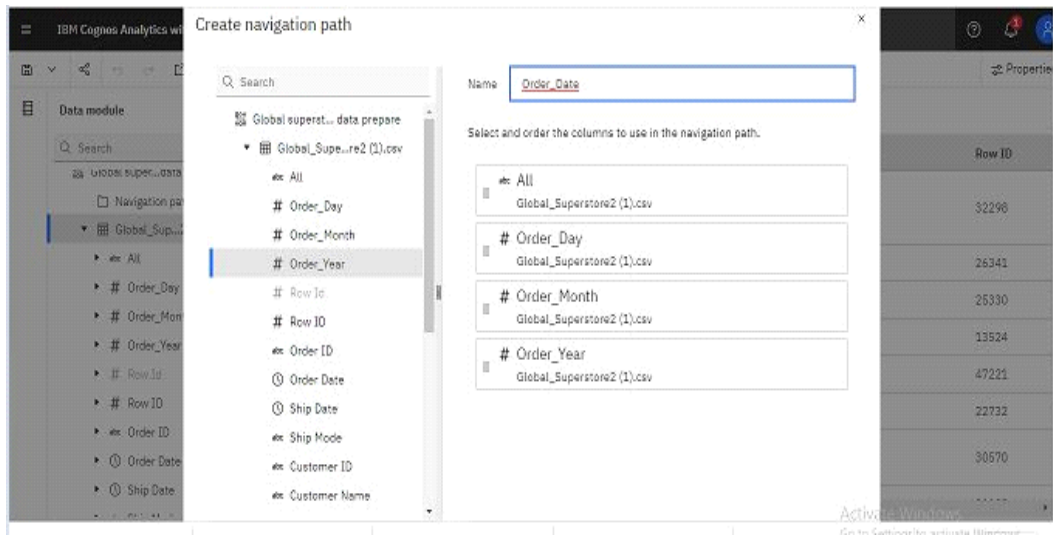
- Right click> calculation> type expression> validate> Set Name as 'Order Year'



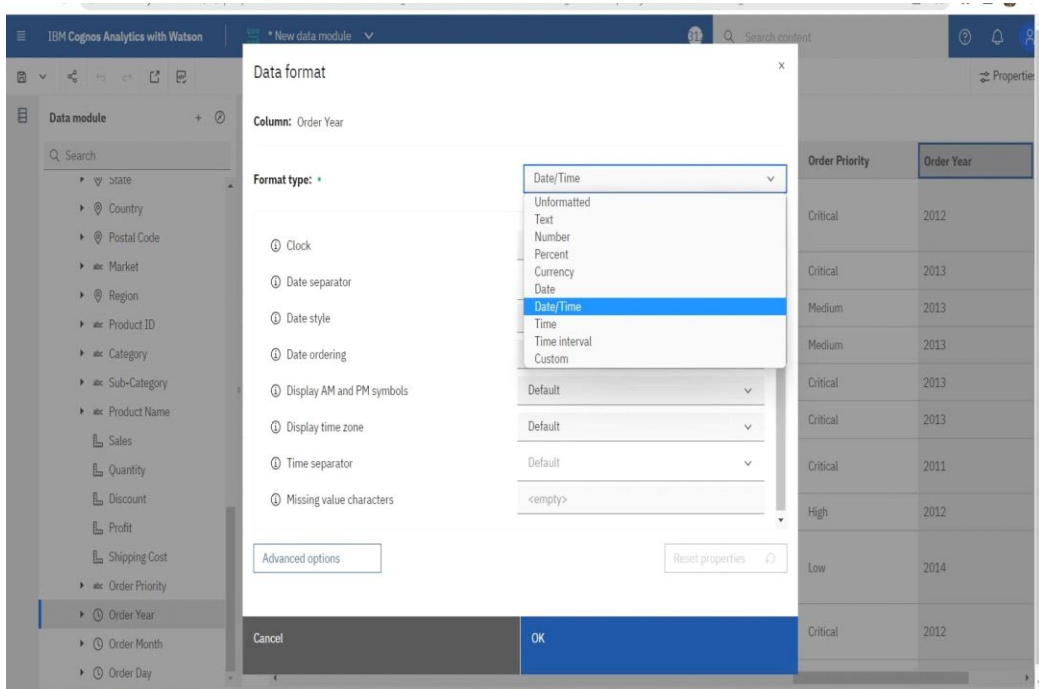
- Similarly for 'OrderMonth', 'OrderDay' and 'All'
- OrderYear -> Year (Order\_Date)  
OrderMonth -> Month (Order\_Date)  
OrderDay -> Day (Order\_Date)  
All -> All



- Right click on create navigation path



- Data format> Date/Time



- Properties> Usage-> Attribute
- Aggregate-> Count Distinct Data
- Type-> Integer
- Represents-> Time, (Year, Month, Day Respectively)Display
- Options-> Show Members
- This way it becomes a Numerical data Type

The screenshot shows the IBM Cognos Analytics with Watson interface. The top navigation bar includes the IBM logo, the text "IBM Cognos Analytics with Watson", a "New data module" button, a search bar, and user profile icons. The main workspace is divided into three sections: a "Data module" sidebar on the left, a central "Grid" view, and a "Properties" panel on the right.

The "Data module" sidebar contains a search bar and a list of attributes: State, Country, Postal Code, Market, Region, Product ID, Category, Sub-Category, Product Name, Sales, Quantity, Discount, Profit, Shipping Cost, Order Priority, Order Year, Order Month, and Order Day. The "Order Year" attribute is currently selected.

The central "Grid" view displays a table with the following columns: Profit, Shipping Cost, Order Priority, Order Year, and Ord. The table contains 11 rows of data. The "Order Year" column is highlighted in blue.

The "Properties" panel on the right shows the "General" tab for the selected "Order Year" attribute. It includes fields for "Label" (set to "Order Year"), "Hide from users" (a toggle switch), "Expression" (with a "View or edit" link), "Usage" (set to "Attribute"), and a dropdown menu for "Date" with options: Year, Quarter, Season, Month, Week, Day, Hour, Minute, and Second. The "Year" option is selected. There is also a "Description" field and a "Comments" section at the bottom.

Profit	Shipping Cost	Order Priority	Order Year	Ord
762.1845	933.57	Critical	2012	7
-288.765	923.63	Critical	2013	2
919.971	915.49	Medium	2013	1
-96.54	910.16	Medium	2013	1
311.52	903.04	Critical	2013	1
763.275	897.35	Critical	2013	6
564.84	894.77	Critical	2011	1
996.48	878.38	High	2012	4
1906.485	867.69	Low	2014	1
-1862.3124	865.74	Critical	2012	1

- Hence calculations for day, month and year are completed.