

PREPARE THE DATASETS

Team ID	PNT2022TMID18438
Project Name	Global Sales Data Analytics

DATA PREPARATION

1. First understand and load the data.

The screenshot shows the IBM Cognos Analytics with Watson dashboard. At the top, there is a blue header bar with the text "IBM Cognos Analytics with Watson" and a search bar. Below the header, the main content area has a dark background with a welcome message: "Hello. Welcome to Cognos Analytics with Watson." and a sub-message: "You can get started right away by taking a look at our introduction video, product tour and Getting Started tab." There are two buttons: "Watch video" and "Take a product tour". To the right, there is a user profile section for "Neathra V S (1d197fc00f...)" with a "Profile and settings" link. Below the profile, there is a list of links: "My schedules and subscriptions", "Log my session", "About", "Manage product subscription", "Privacy", "Cookie Preferences", "IBM Cognos Analytics Mobile", and "Log out". At the bottom, there is a "Quick launch" section with four cards: "Upload data" (Upload or drag and drop), "Prepare data" (Use data modules to clean), "Exploration" (Quickly find unbiased), and "Present data" (Create sophisticated,).

Content

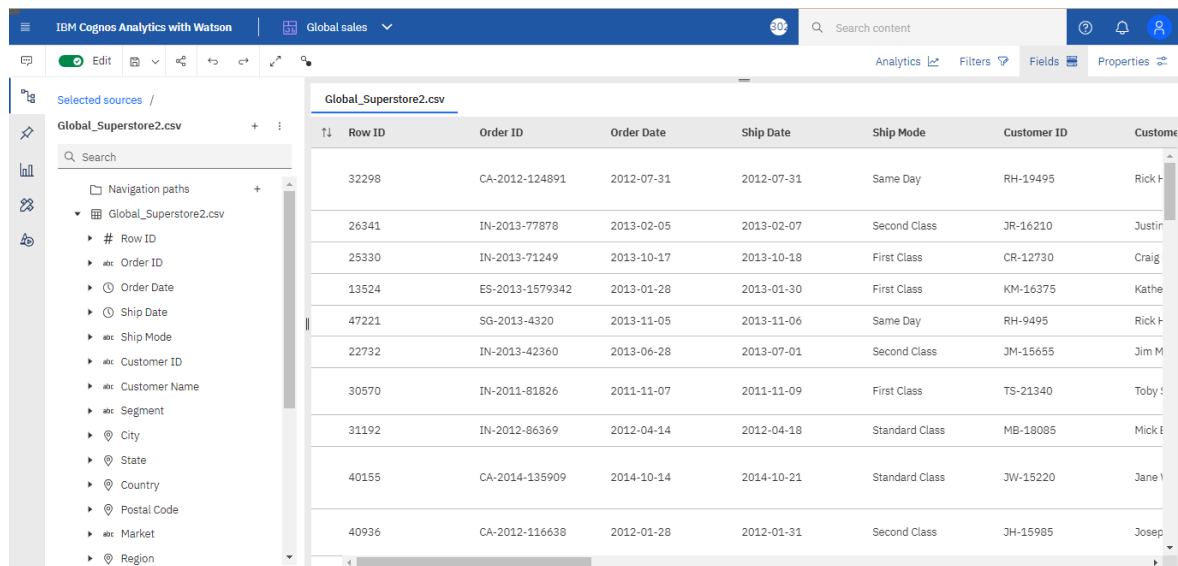
↑ New +

My content Team content Samples

🔍 ↺ 📄 🔗 ↻ ⚙️ ☰

50_Startups.csv Last Accessed 9/14/2022, 5:54 AM CSV ↑	bank.csv Last Accessed 9/15/2022, 8:49 AM CSV ↑	Global_Superstore2.csv Last Accessed 11/8/2022, 5:12 AM CSV ↑	New exploration Last Accessed 9/14/2022, 7:24 AM 🔗
Olympic Events.xlsx	Olympic Medals.xlsx	sales.csv	

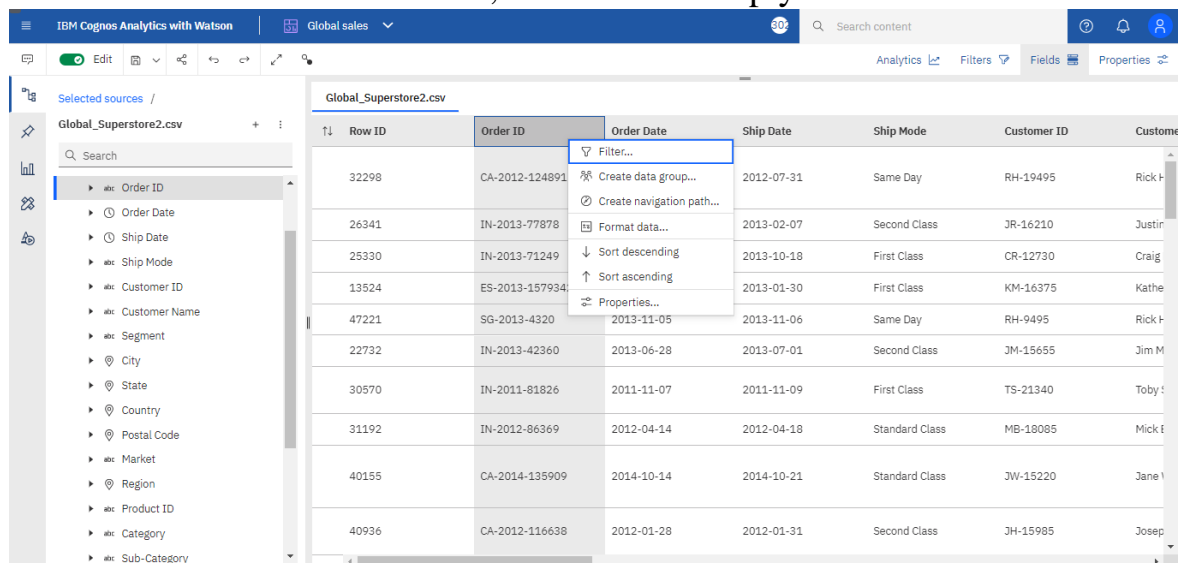
2. Since there is only single file, there need not be relationships or custom tables for the data.



Global_Superstore2.csv

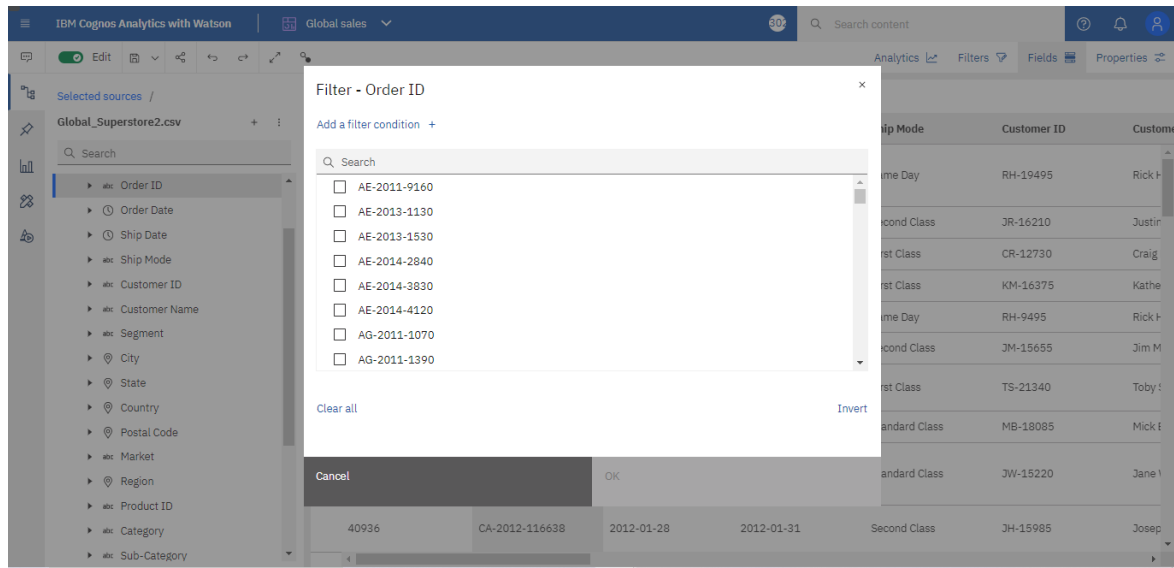
Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name
32298	CA-2012-124891	2012-07-31	2012-07-31	Same Day	RH-19495	Rick H
26341	IN-2013-77878	2013-02-05	2013-02-07	Second Class	JR-16210	Justin
25330	IN-2013-71249	2013-10-17	2013-10-18	First Class	CR-12730	Craig
13524	ES-2013-1579342	2013-01-28	2013-01-30	First Class	KM-16375	Kathe
47221	SG-2013-4320	2013-11-05	2013-11-06	Same Day	RH-9495	Rick H
22732	IN-2013-42360	2013-06-28	2013-07-01	Second Class	JM-15655	Jim M
30570	IN-2011-81826	2011-11-07	2011-11-09	First Class	TS-21340	Toby
31192	IN-2012-86369	2012-04-14	2012-04-18	Standard Class	MB-18085	Mick
40155	CA-2014-135909	2014-10-14	2014-10-21	Standard Class	JW-15220	Jane
40936	CA-2012-116638	2012-01-28	2012-01-31	Second Class	JH-15985	Josep

3. 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.



Global_Superstore2.csv

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name
32298	CA-2012-124891	2012-07-31	2012-07-31	Same Day	RH-19495	Rick H
26341	IN-2013-77878	2013-02-05	2013-02-07	Second Class	JR-16210	Justin
25330	IN-2013-71249	2013-10-17	2013-10-18	First Class	CR-12730	Craig
13524	ES-2013-1579342	2013-01-28	2013-01-30	First Class	KM-16375	Kathe
47221	SG-2013-4320	2013-11-05	2013-11-06	Same Day	RH-9495	Rick H
22732	IN-2013-42360	2013-06-28	2013-07-01	Second Class	JM-15655	Jim M
30570	IN-2011-81826	2011-11-07	2011-11-09	First Class	TS-21340	Toby
31192	IN-2012-86369	2012-04-14	2012-04-18	Standard Class	MB-18085	Mick
40155	CA-2014-135909	2014-10-14	2014-10-21	Standard Class	JW-15220	Jane
40936	CA-2012-116638	2012-01-28	2012-01-31	Second Class	JH-15985	Josep



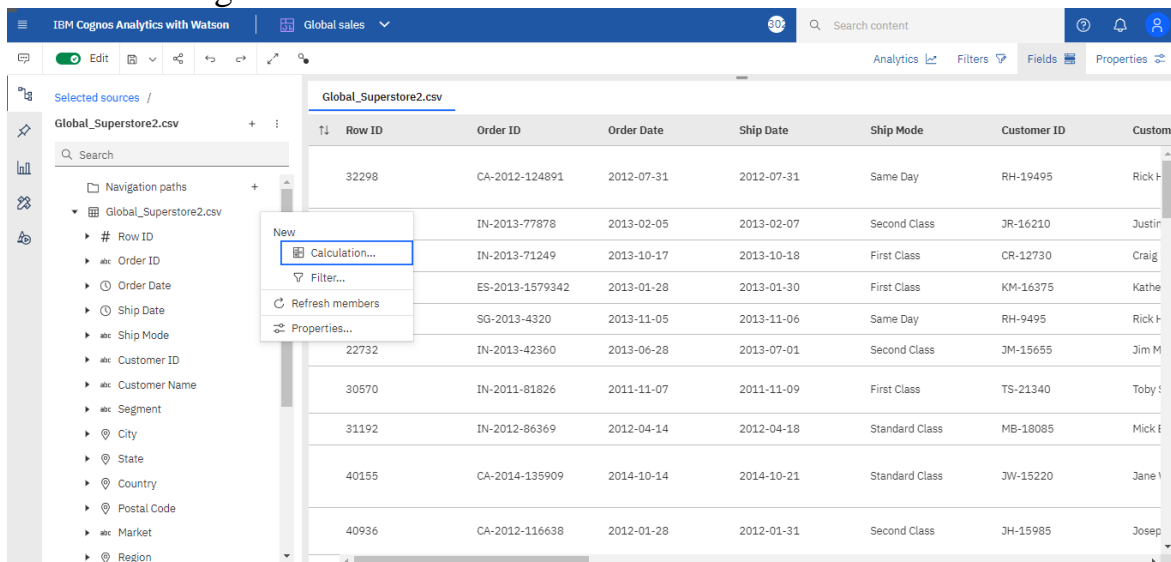
3. Once cleaned, the data is saved.

DATE CALCULATIONS AND NAVIGATION PATHS

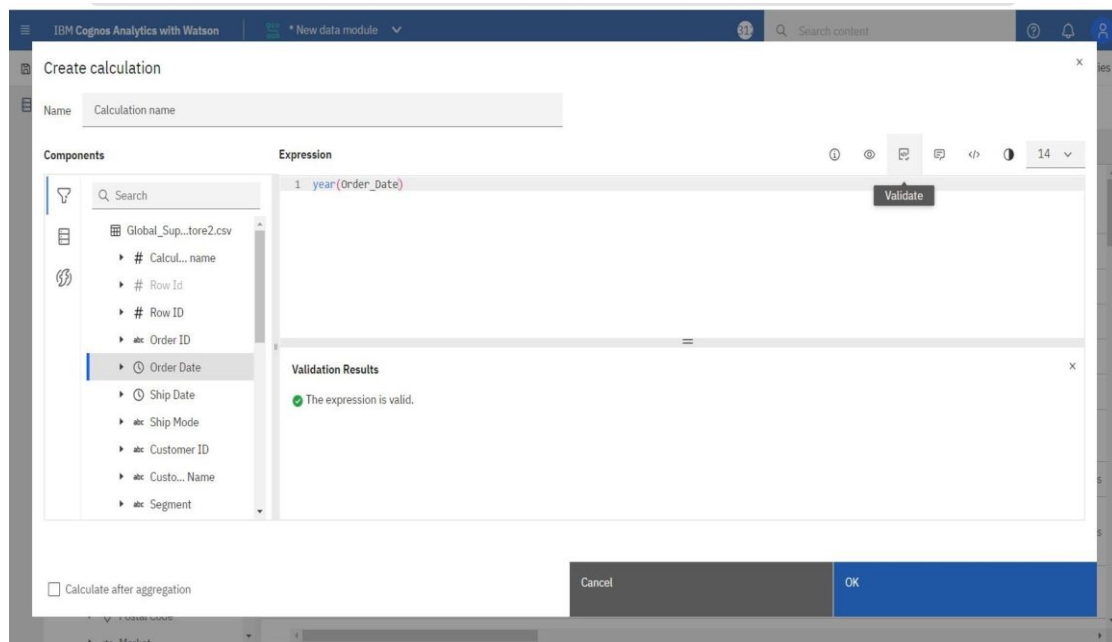
Once you load the data, we need to Prepare the data.

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

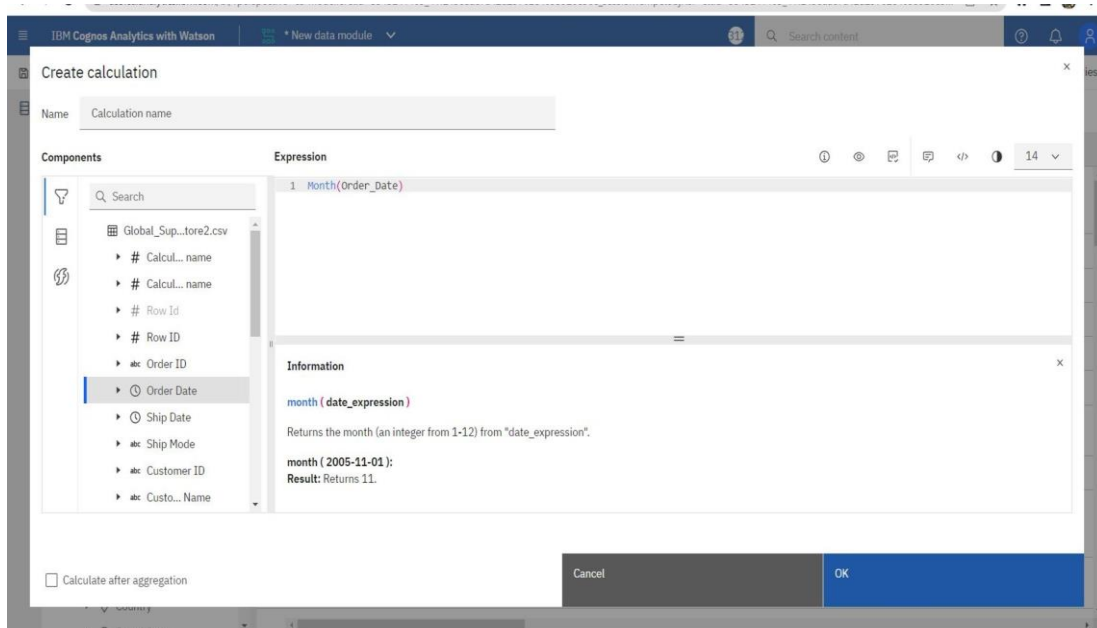
b. Create a Few more Calculations – Target Sales, Min Sales, Max Sales, Middle Range Sales.

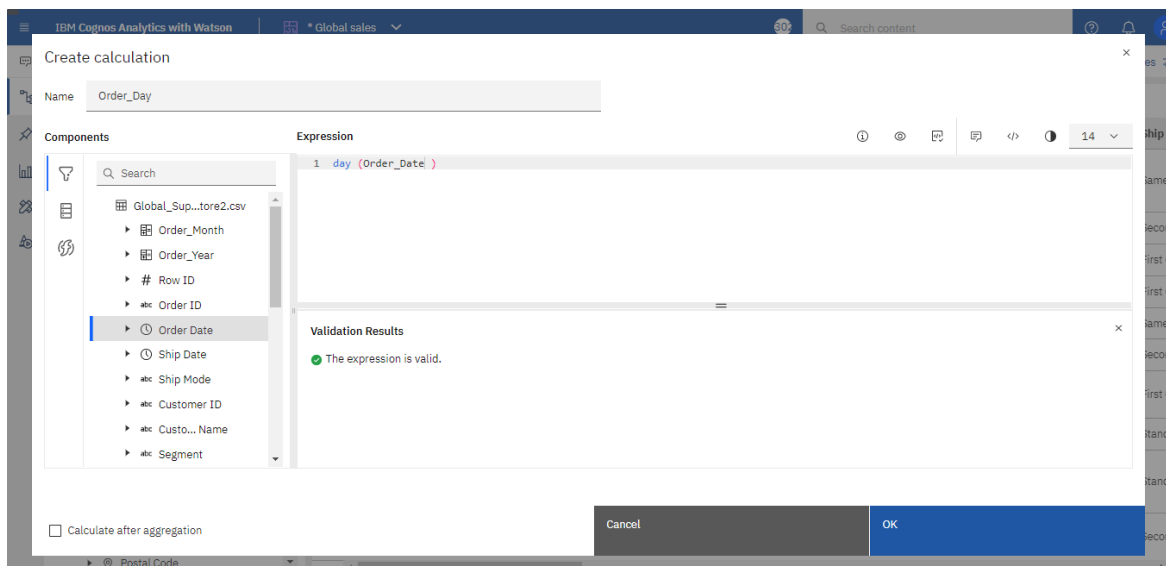


1. Right click> calculation> type expression> validate> Set Name as 'Order Year'

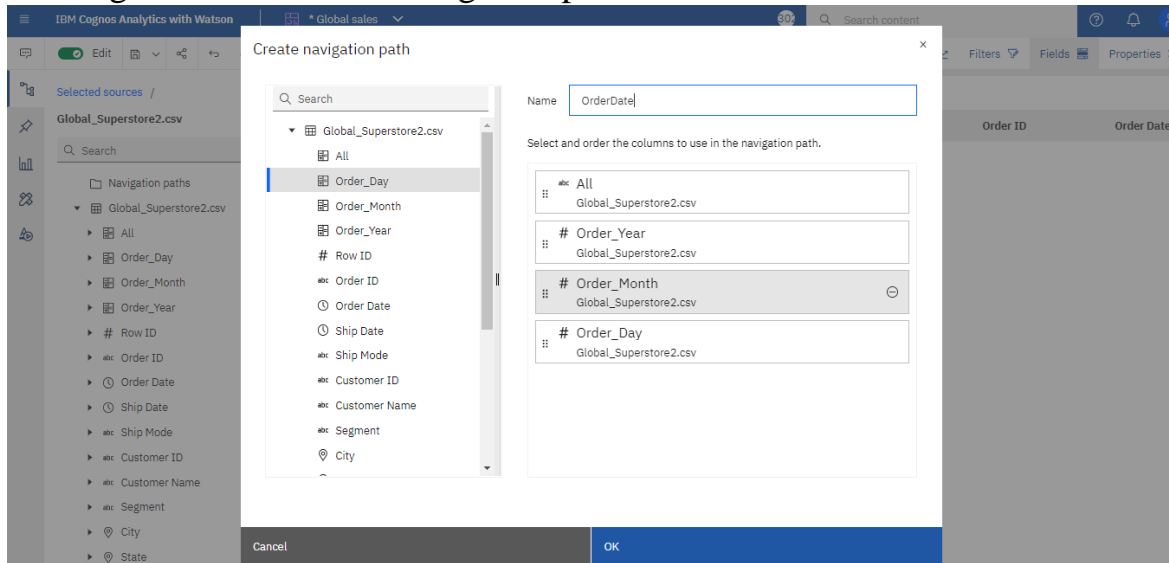


2. Similarly, 'OrderMonth', 'OrderDay' and 'All'
OrderYear -> Year (Order_Date)
OrderMonth -> Month (Order_Date)
OrderDay -> Day (Order_Date)
All -> All

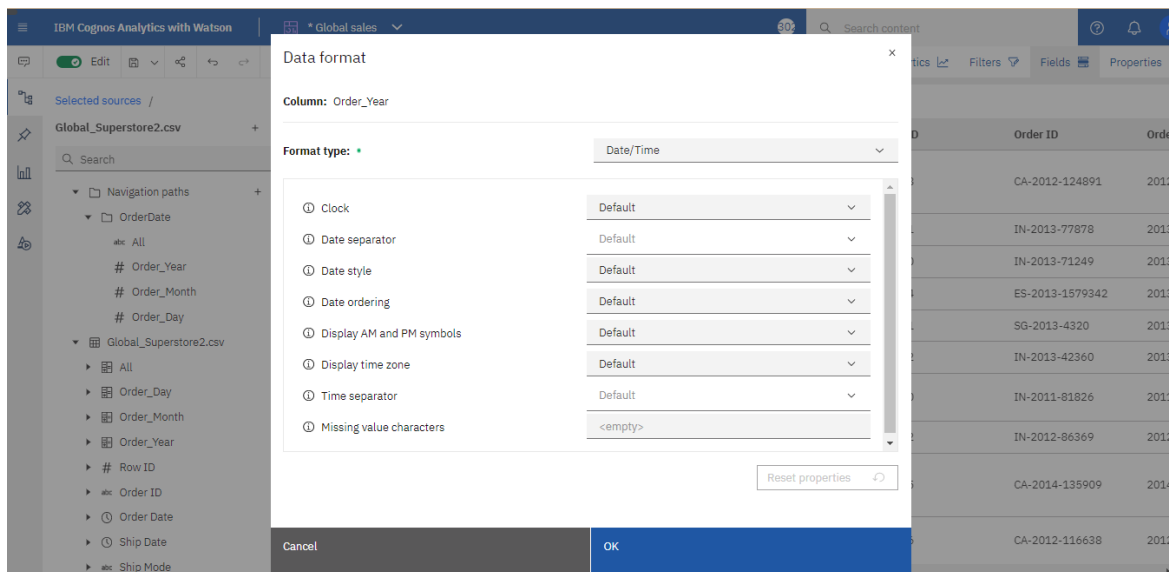




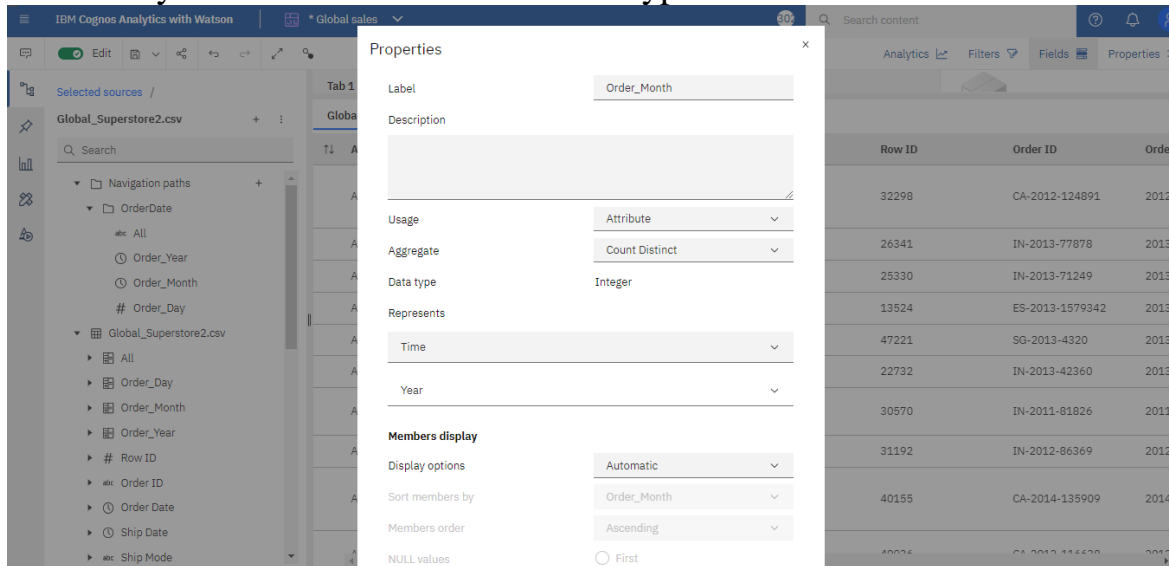
3. Right click on create navigation path



4. Data format> Date/Time



5. 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



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

Once you load the data, we need to Prepare the data.

- Prepare Calculations of Year, Month, Day fields and also the related Navigation path
- Create a Few more Calculations – Target Sales, Min Sales, Max Sales, Middle Range Sales.**

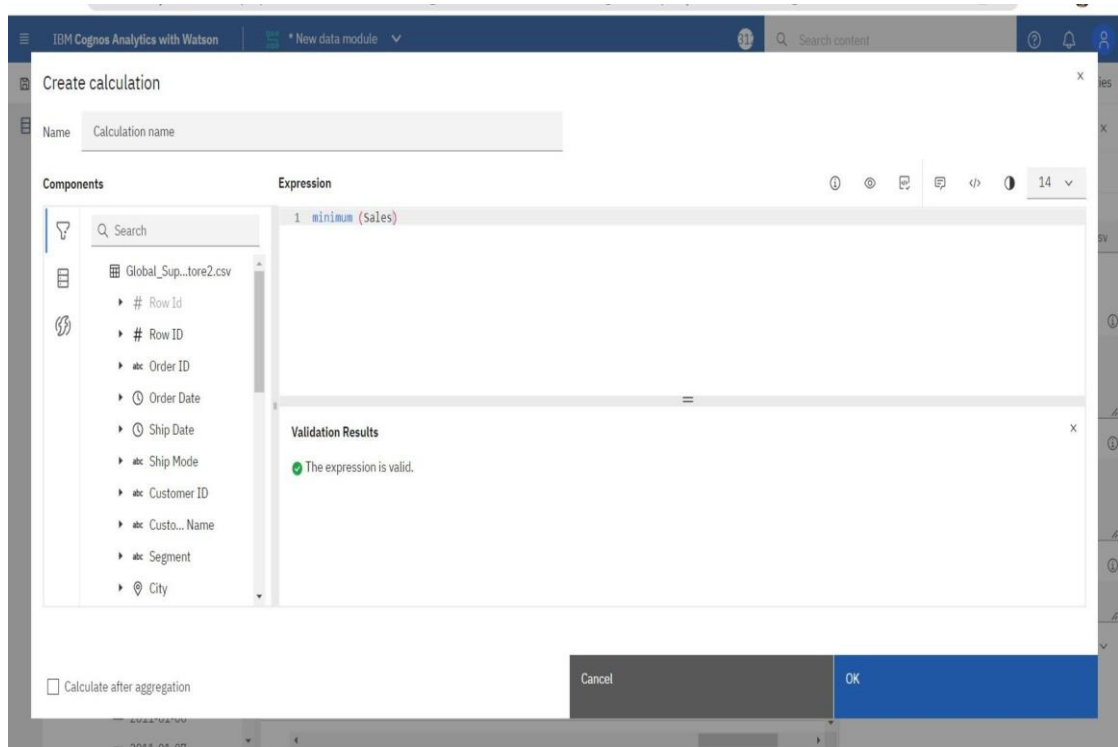
7. Similarly, calculations for Target sales, Min sales, Max Sales and Middle range sales are done

Min sales-> minimum (Sales)

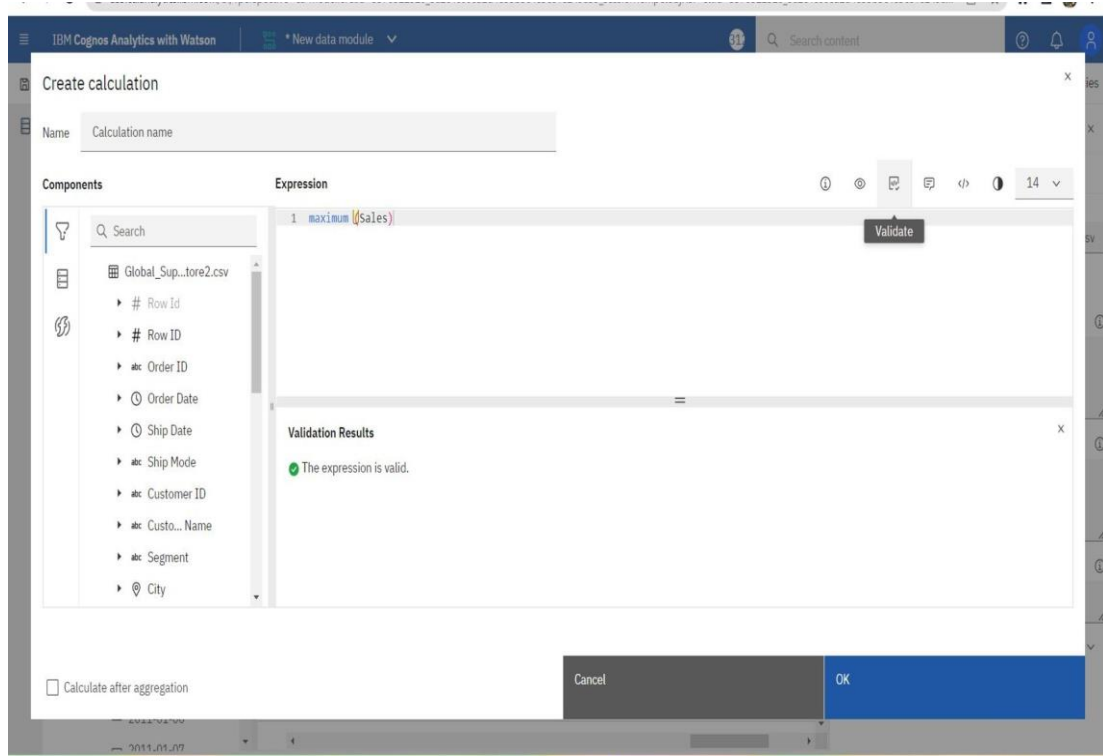
Max sales, Target sales-> maximum (Sales)

Middle range sales-> average (Sales)

Minimum(Sales)



Maximum(Sales)



Middle Range (Sales)

