

PREPARE THE DATASETS

Team ID	PNT2022TMID28268
Project Name	Global Sales Data Analytics

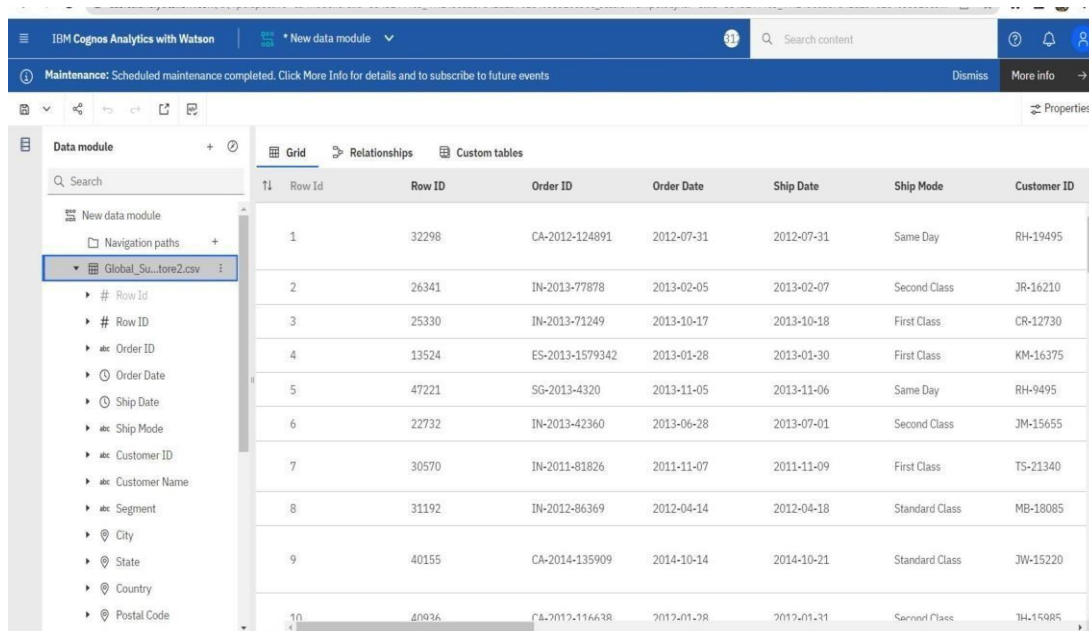
DATA PREPARATION

1. First understand and load the data.

The screenshot displays the IBM Cognos Analytics Content Manager interface. At the top, there is a navigation bar with the text "IBM Cognos Analytics with Watson" and a "Content" dropdown menu. A search bar is also present. Below the navigation bar, a maintenance message states: "Maintenance: Scheduled maintenance completed. Click More Info for details and to subscribe to future events". The main section is titled "Content" and includes a "New +" button. Underneath, there are tabs for "My content", "Team content", and "Samples". A table lists the content items:

Name	Type	Last Accessed
Pharma Dashboard	Folder	9/27/2022, 1:05 AM
50_Startups.csv	Uploaded file	9/13/2022, 12:08 AM
bank.csv	Uploaded file	9/15/2022, 8:27 AM
bikebuyer.csv	Uploaded file	9/13/2022, 12:20 AM
Global_Superstore2.csv	Uploaded file	10/11/2022, 4:07 AM
Global_Superstore2.xlsx	Unloaded file	10/11/2022, 4:04 AM

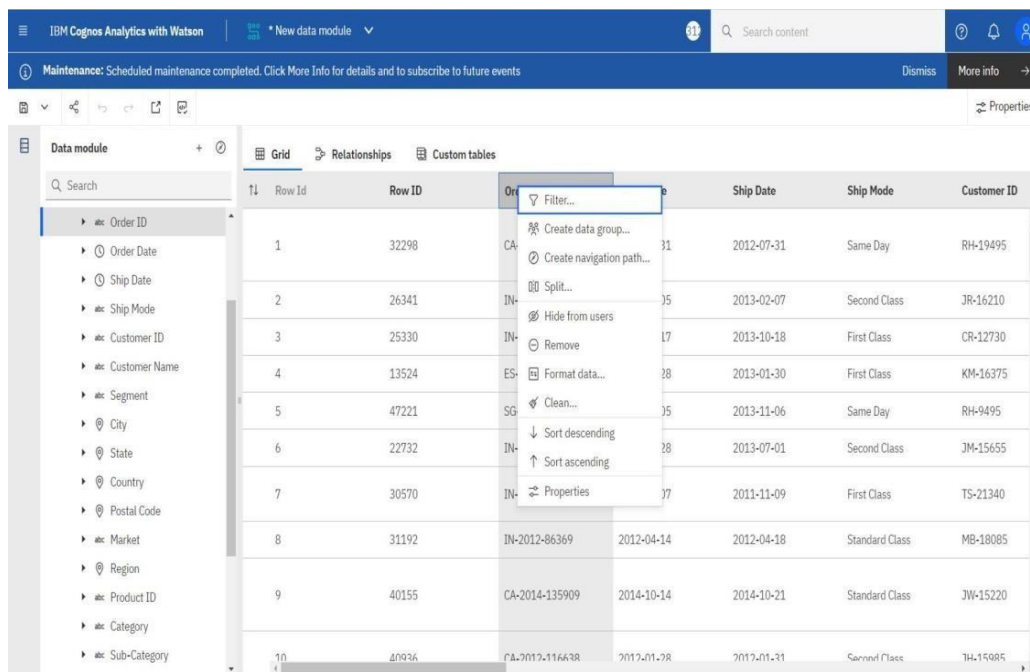
2. Since there is only single file, there need not be relationships or custom tables for the data.



The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists the loaded file 'Global_Su...ore2.csv' and its columns: Row ID, Order ID, Order Date, Ship Date, Ship Mode, Customer ID, Customer Name, Segment, City, State, Country, and Postal Code. The main grid view displays the data with the following columns: Row ID, Order ID, Order Date, Ship Date, Ship Mode, and Customer ID. The data is as follows:

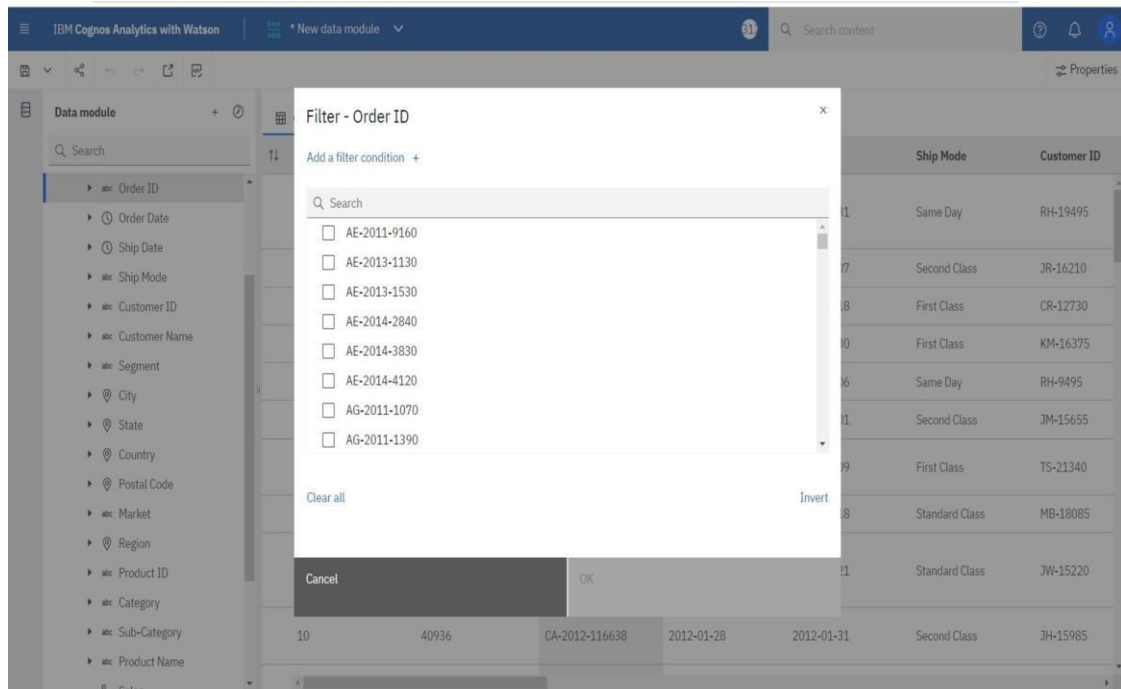
Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID
1	32298	CA-2012-124891	2012-07-31	Same Day	RH-19495
2	26341	IN-2013-77878	2013-02-05	Second Class	JR-16210
3	25330	IN-2013-71249	2013-10-17	First Class	CR-12730
4	13524	ES-2013-1579342	2013-01-28	First Class	KM-16375
5	47221	SG-2013-4320	2013-11-05	Same Day	RH-9495
6	22732	IN-2013-42360	2013-06-28	Second Class	JM-15655
7	30570	IN-2011-81826	2011-11-07	First Class	TS-21340
8	31192	IN-2012-86369	2012-04-14	Standard Class	MB-18085
9	40155	CA-2014-135909	2014-10-14	Standard Class	JW-15220
10	40936	CA-2012-116638	2012-01-28	Standard Class	JH-15085

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.



The screenshot shows the same IBM Cognos Analytics interface, but with a context menu open over the 'Order ID' column header. The menu options are: Filter..., Create data group..., Create navigation path..., Split..., Hide from users, Remove, Format data..., Clean..., Sort descending, Sort ascending, and Properties. The data table is partially visible behind the menu.

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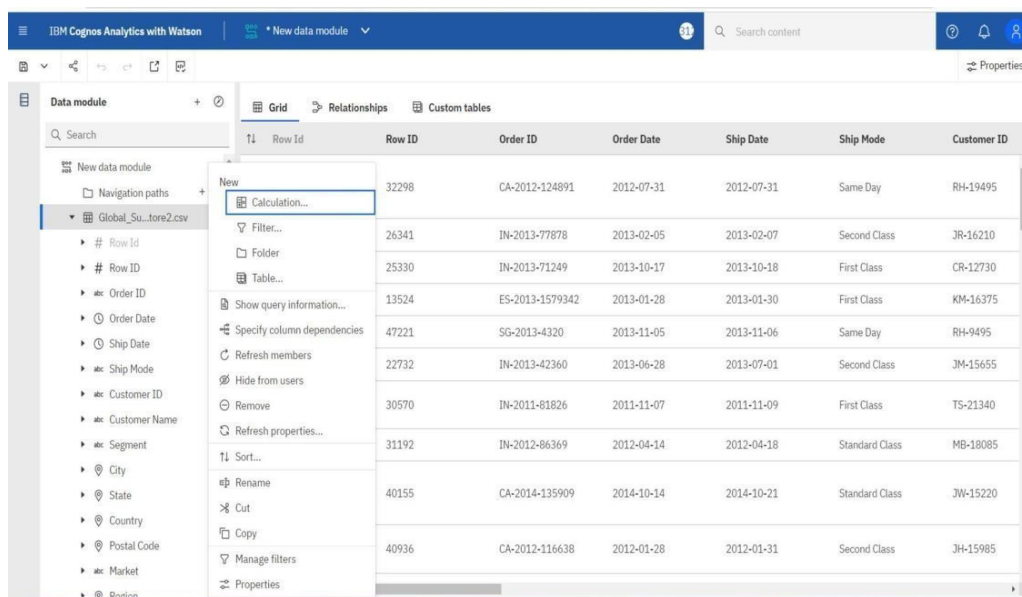


3. Once cleaned, the data is saved.

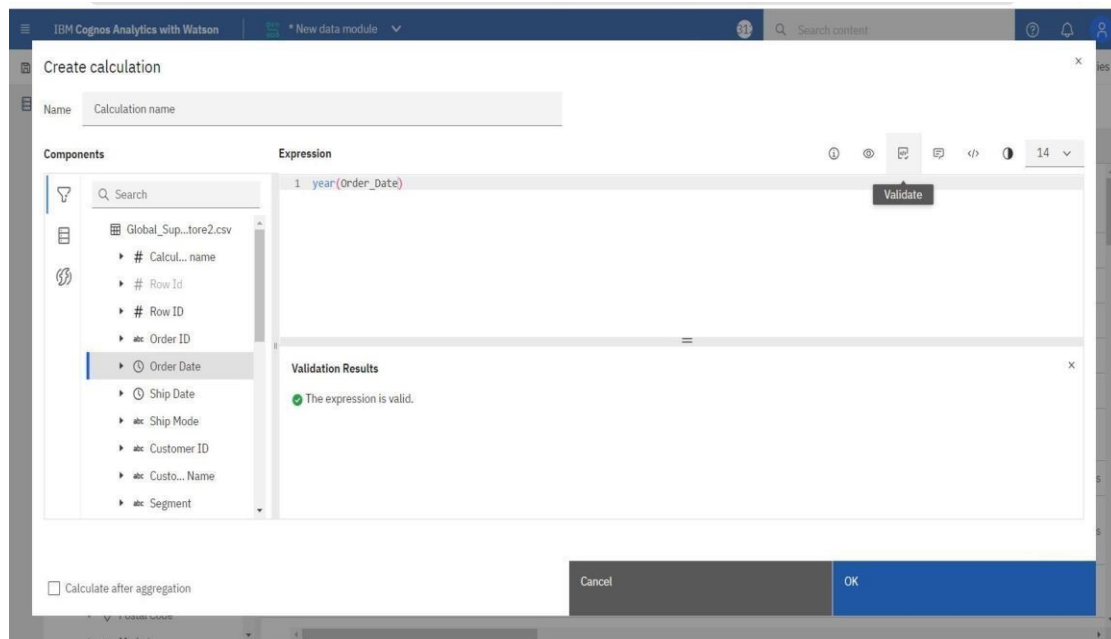
DATE CALCULATIONS AND NAVIGATION PATHS

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

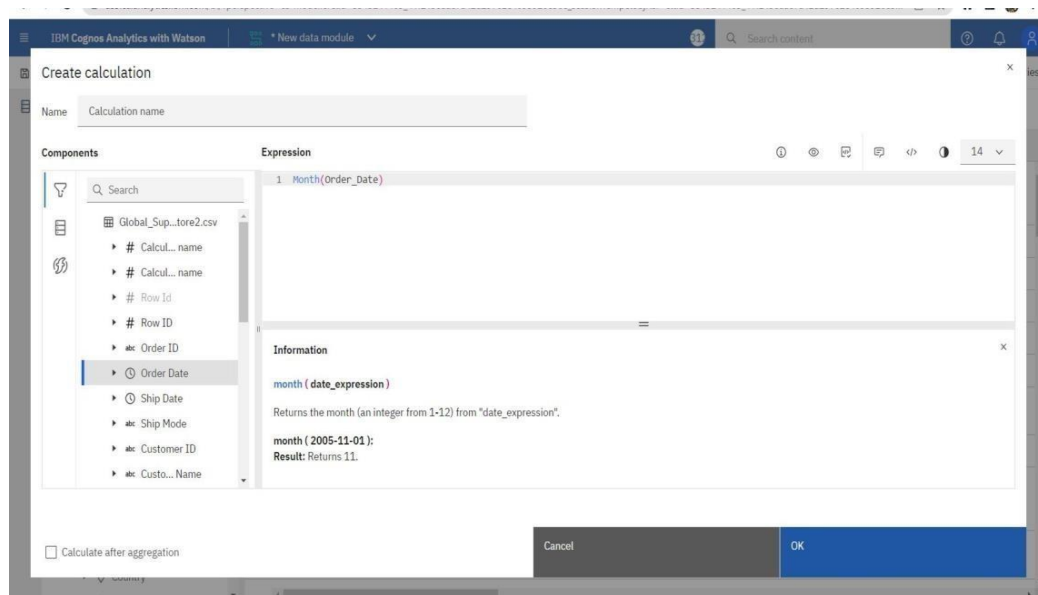
- Prepare Calculations of Year, Month, Day fields and also the related Navigation path**
- Create a Few more Calculations – Target Sales, Min Sales, Max Sales, Middle Range Sales.**



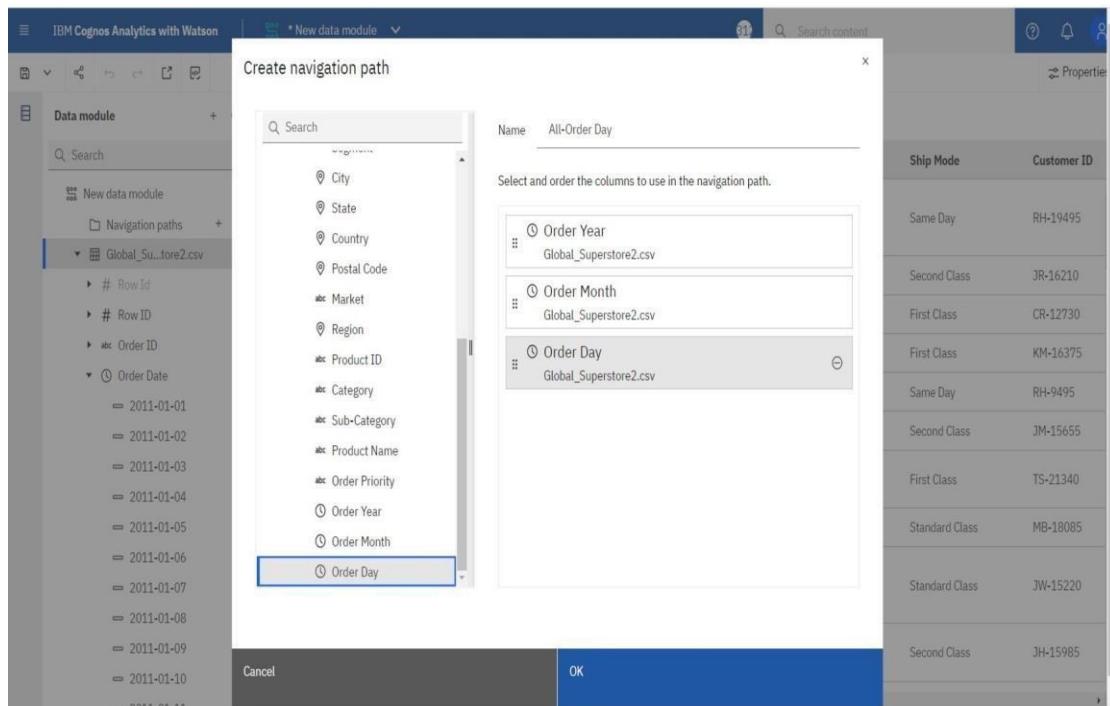
1. Right click> calculation> type expression> validate> Set Name as 'Order Year'



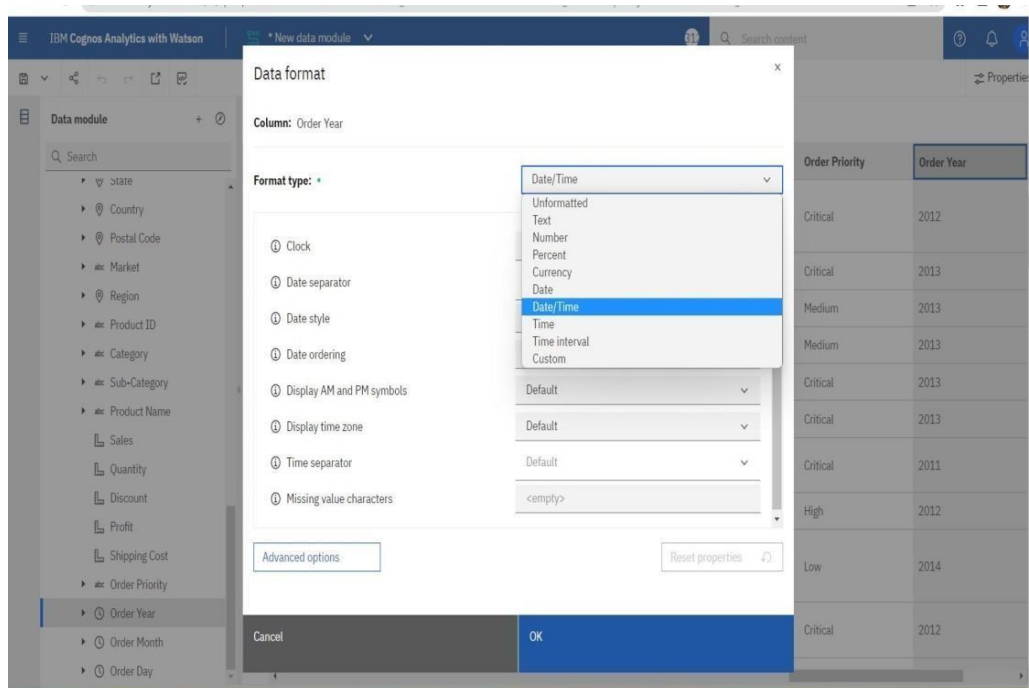
2. Similarly, 'OrderMonth', 'OrderDay' and 'All'
OrderYear -> Year (Order_Date)
OrderMonth -> Month (Order_Date)
OrderDay -> Day (Order_Date)
All -> All



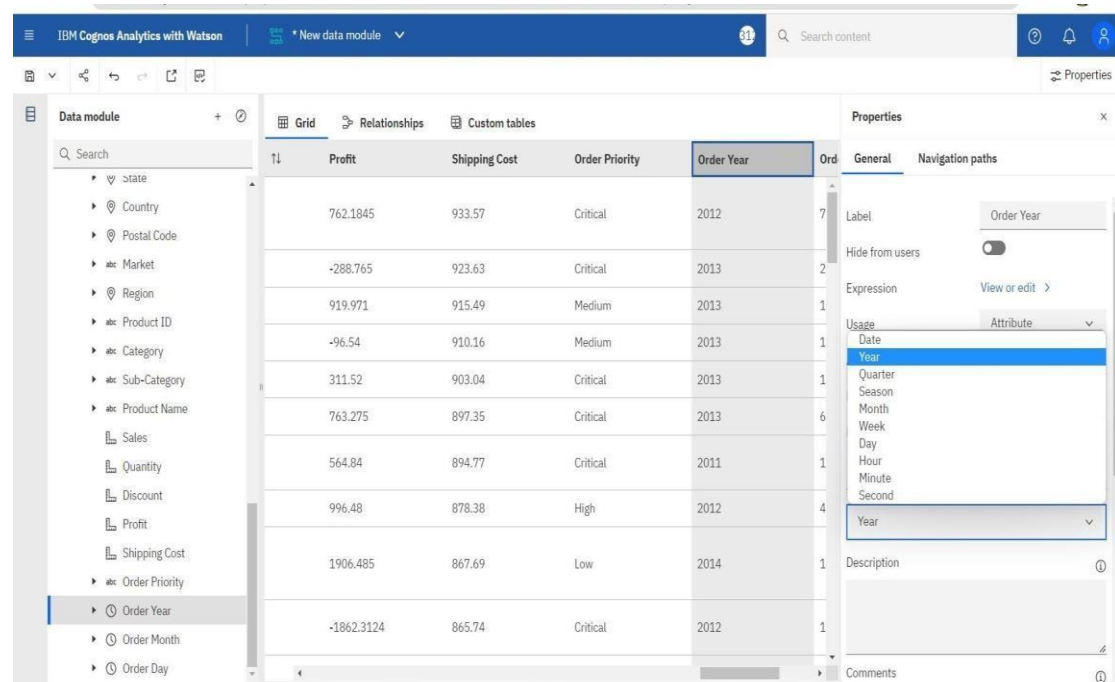
3. Right click on create navigation path



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.

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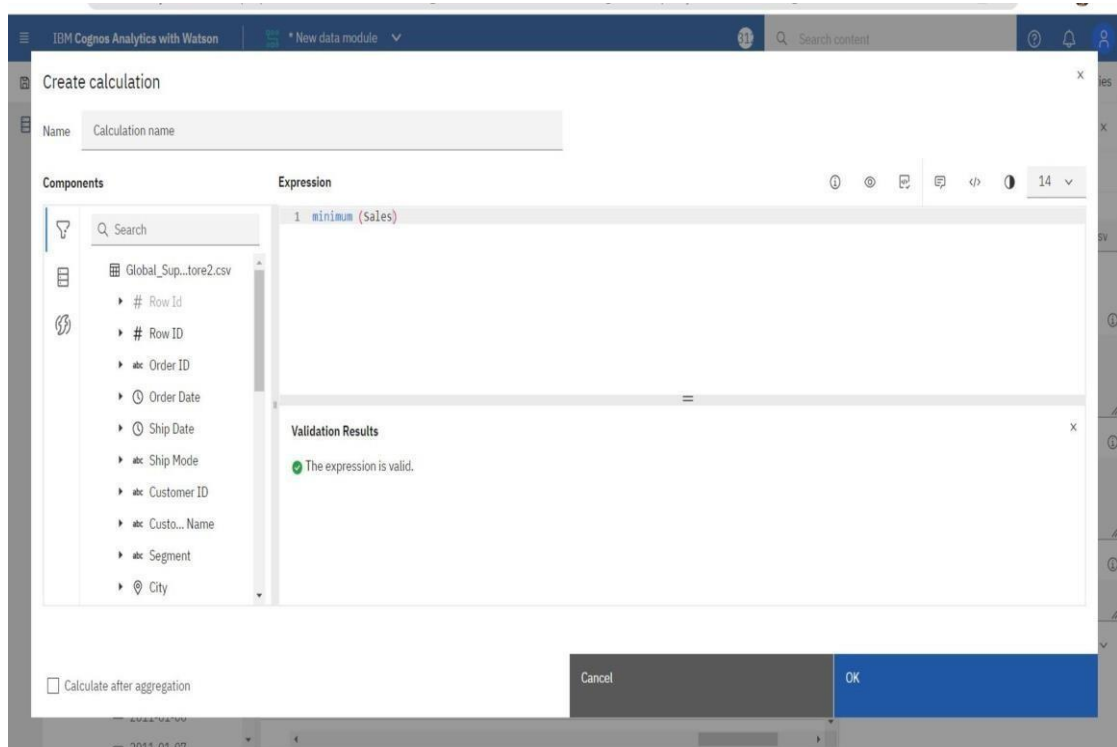
7. Similarly, calculations for Target sales, Min sales, Max Sales and Middle range sales are done

Min sales-> minimum (Sales)

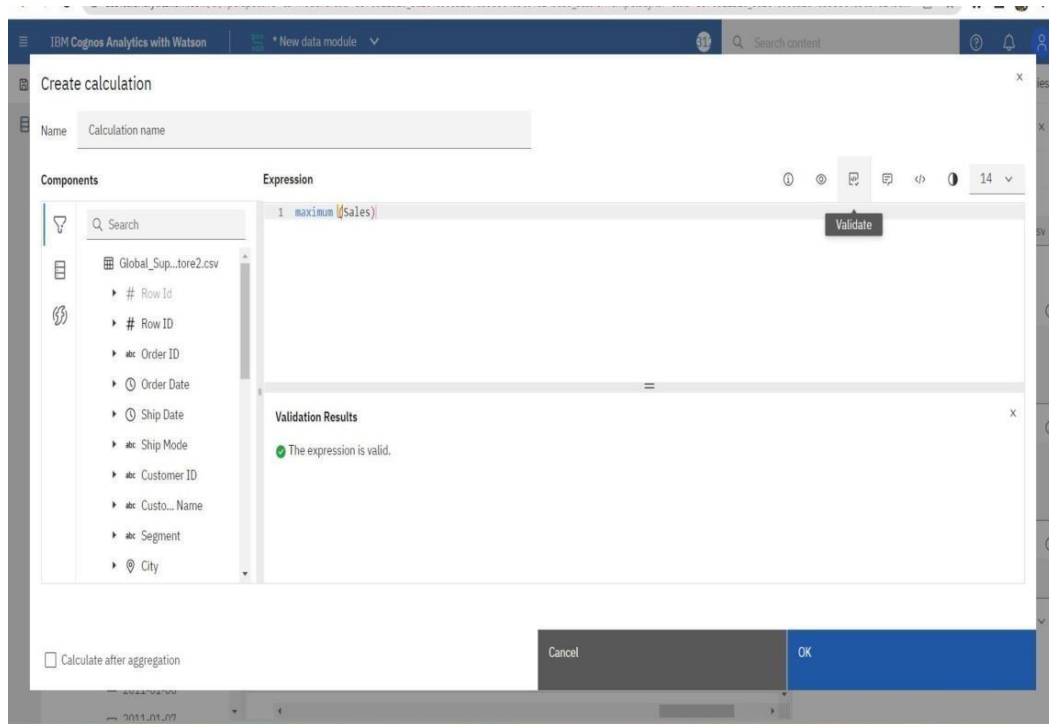
Max sales, Target sales-> maximum (Sales)

Middle range sales-> average (Sales)

Minimum(Sales)



Maximum(Sales)



Middle Range (Sales)

