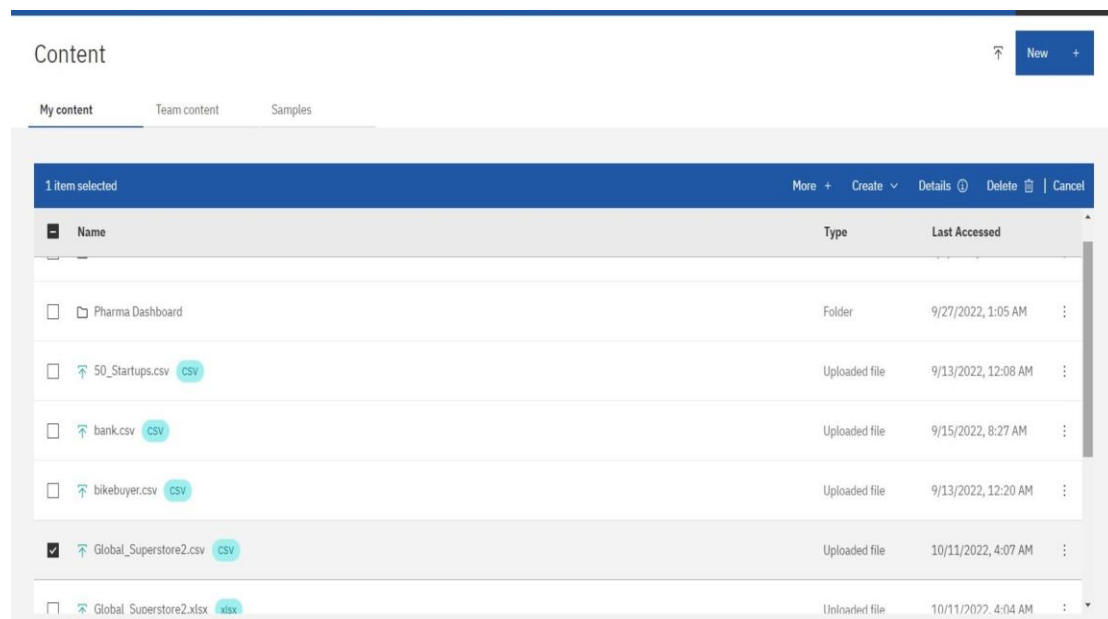


PREPARE THE DATASETS

Team ID	PNT2022TMID12427
Project Name	Data Analytics -Global Sales Data Analysis

DATA PREPARATION

1. First understand and load the data.



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

The screenshot shows the 'Data module' interface with a grid view of the 'Global_Superstore2.csv' data. The grid displays columns: Row ID, Order ID, Order Date, Ship Date, Ship Mode, and Customer ID. The data is organized into rows, with the first row showing Order ID 32298, Order Date 2012-07-31, Ship Date 2012-07-31, Ship Mode Same Day, and Customer ID RH-19495.

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID
1	32298	2012-07-31	2012-07-31	Same Day	RH-19495
2	26341	2013-02-05	2013-02-07	Second Class	JR-16210
3	25330	2013-10-17	2013-10-18	First Class	CR-12730
4	13524	2013-01-28	2013-01-30	First Class	KM-16375
5	47221	2013-11-05	2013-11-06	Same Day	RH-9495
6	22732	2013-06-28	2013-07-01	Second Class	JM-15655
7	30570	2011-11-07	2011-11-09	First Class	TS-21340
8	31192	2012-04-14	2012-04-18	Standard Class	MB-18085
9	40155	2014-10-14	2014-10-21	Standard Class	JW-15220
10	40936	2012-01-28	2012-01-31	Second Class	TH-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 top screenshot shows the IBM Cognos Analytics interface with a data grid. A context menu is open over the 'Order ID' column, showing options like 'Filter...', 'Create data group...', 'Create navigation path...', 'Split...', 'Hide from users', 'Remove', 'Format data...', 'Clean...', 'Sort descending', 'Sort ascending', and 'Properties'. The 'Clean...' option is highlighted.

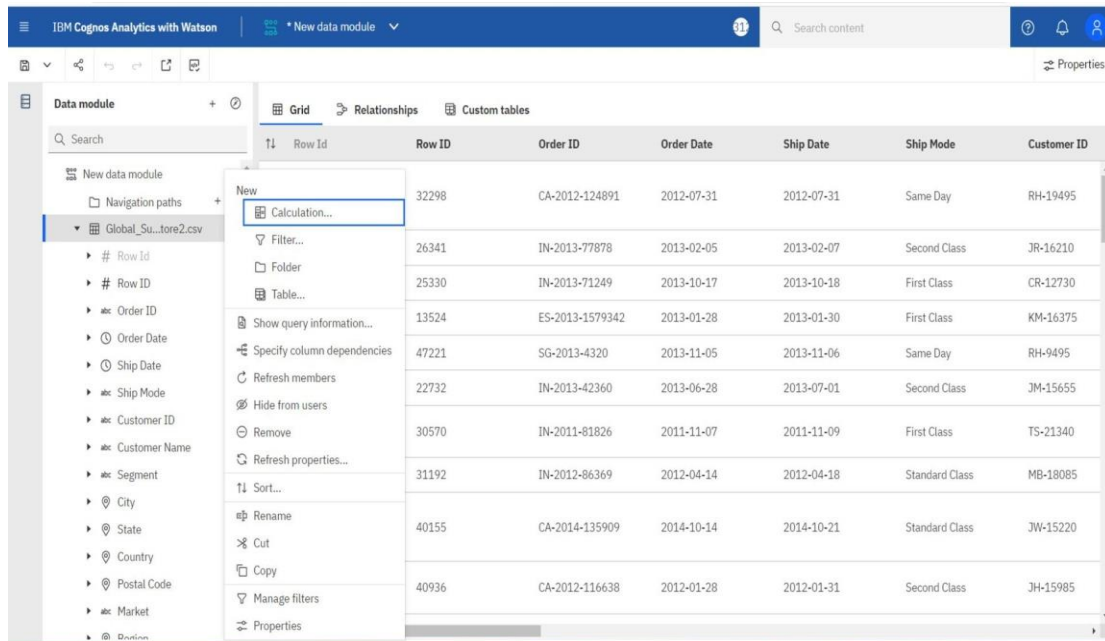
The bottom screenshot shows the 'Filter - Order ID' dialog box. It has a search bar and a list of order IDs with checkboxes next to them. The list includes: AE-2011-9160, AE-2013-1130, AE-2013-1530, AE-2014-2840, AE-2014-3830, AE-2014-4120, AG-2011-1070, and AG-2011-1390. There are 'Clear all', 'Invert', 'Cancel', and 'OK' buttons at the bottom.

3. Once cleaned, the data is saved.

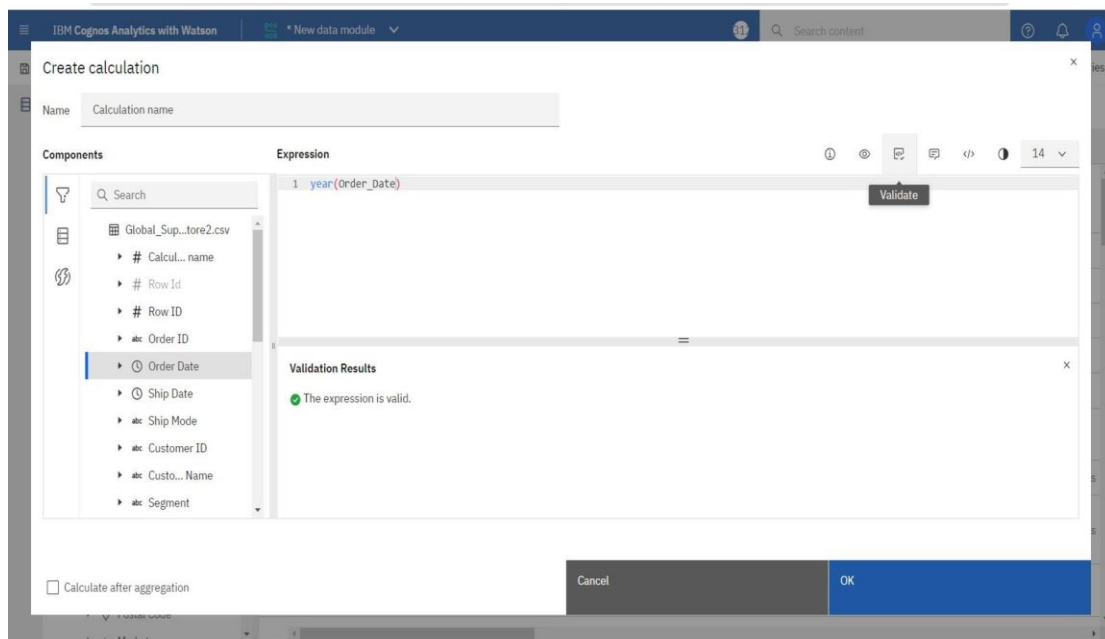
DATE CALCULATIONS AND NAVIGATION PATHS

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

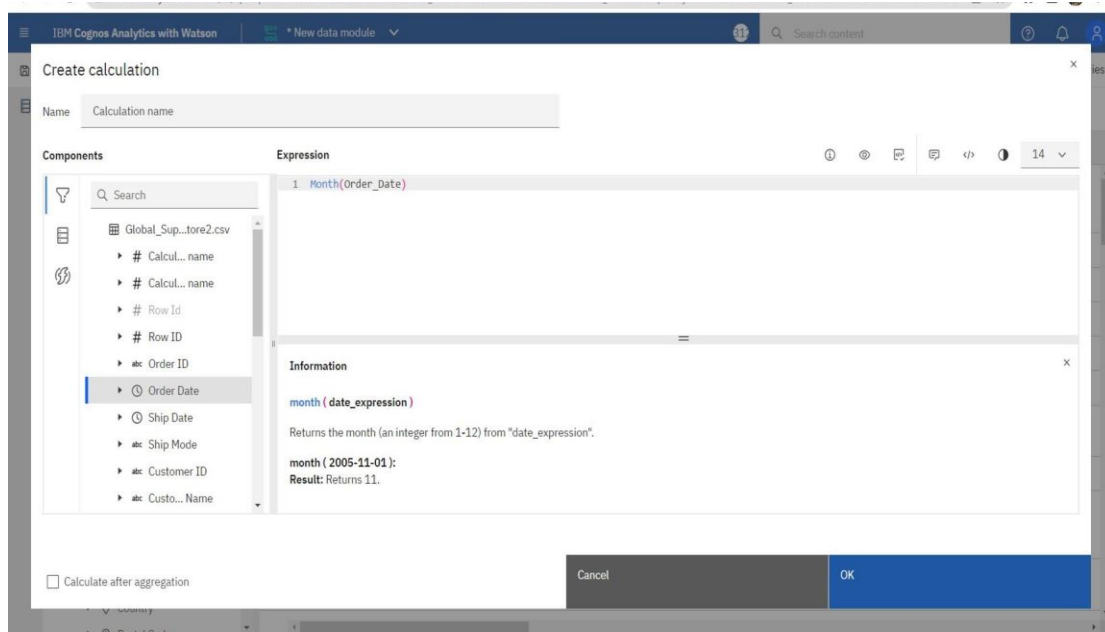
- Prepare Calculations of Year, Month, Day fields and also the related Navigation path**
- Create a Few more Calculations – Target Sales, Min Sales, Max Sales, Middle Range Sales.**



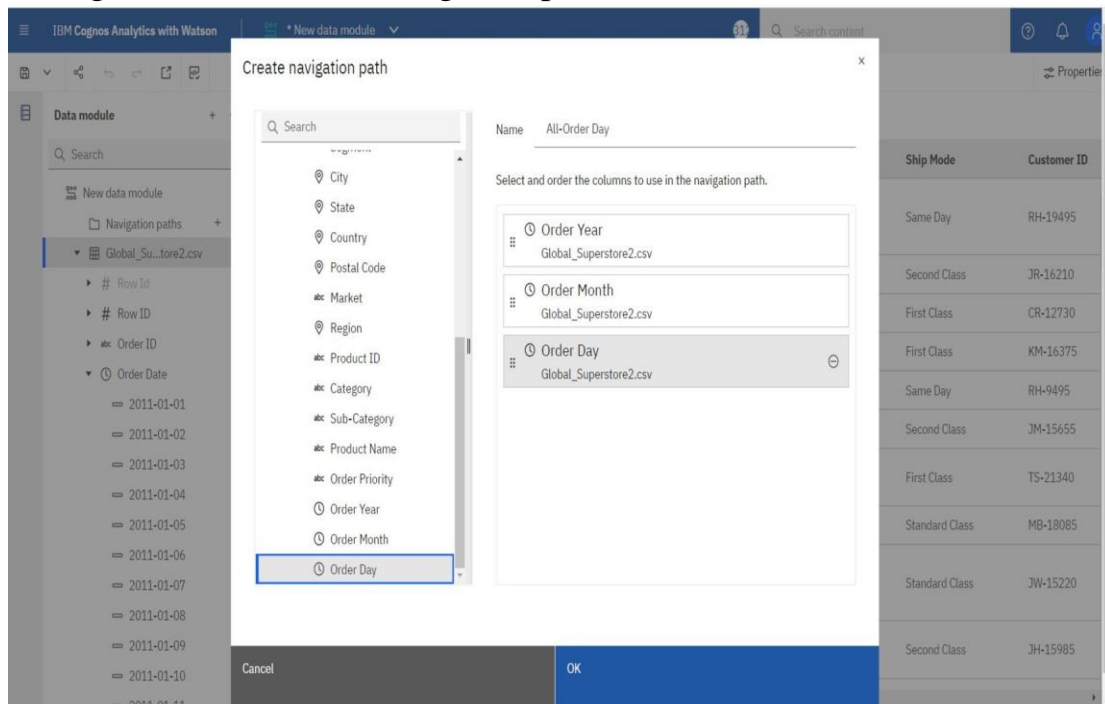
1. Right click> calculation> type expression> validate> Set Name as 'Order Year'



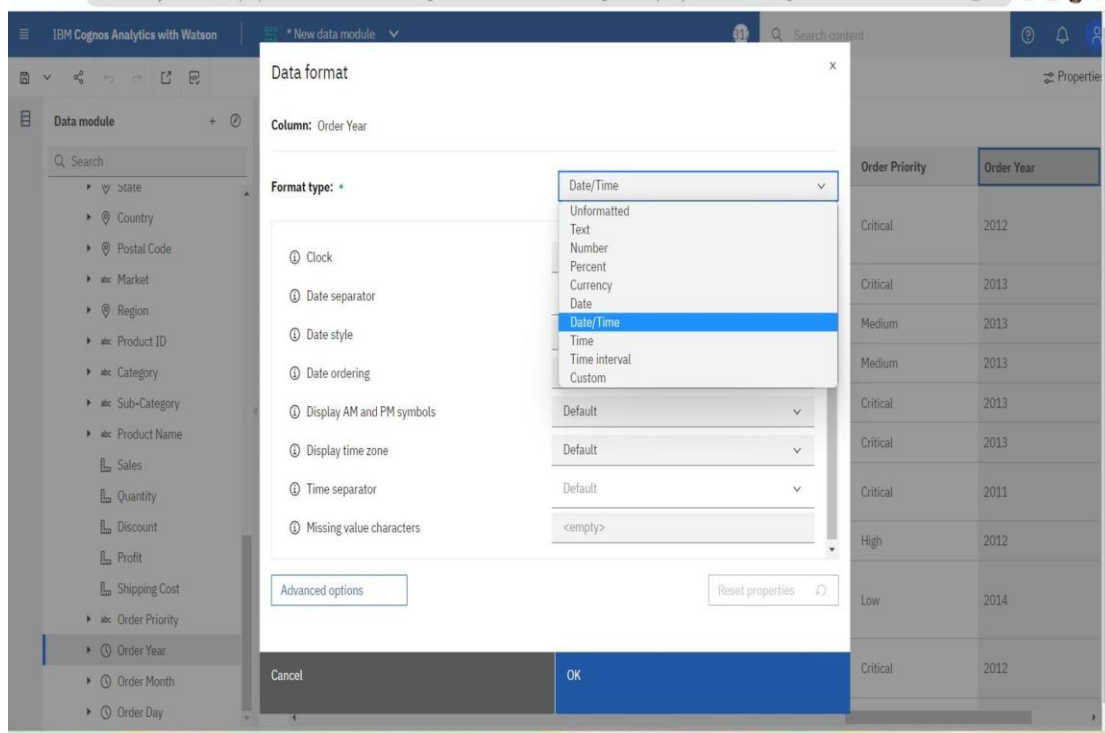
2. Similarly, 'OrderMonth', 'OrderDay' and 'All'
 OrderYear -> Year (Order_Date)
 OrderMonth -> Month (Order_Date)
 OrderDay -> Day (Order_Date)
 All -> All



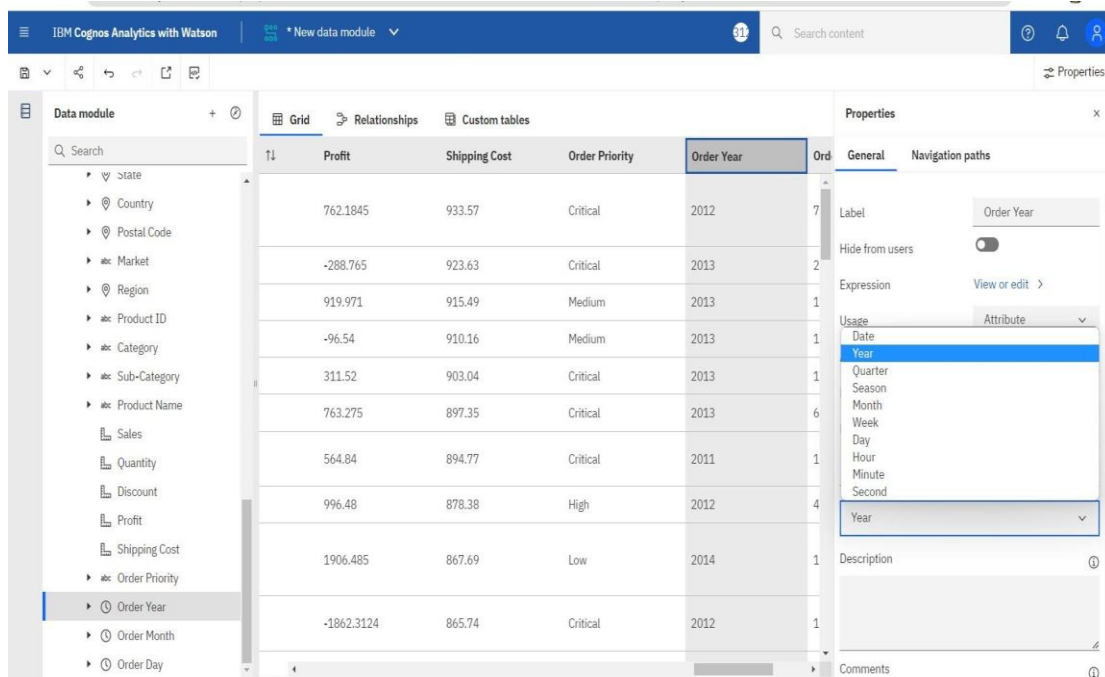
3. Right click on create navigation path



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.

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.**

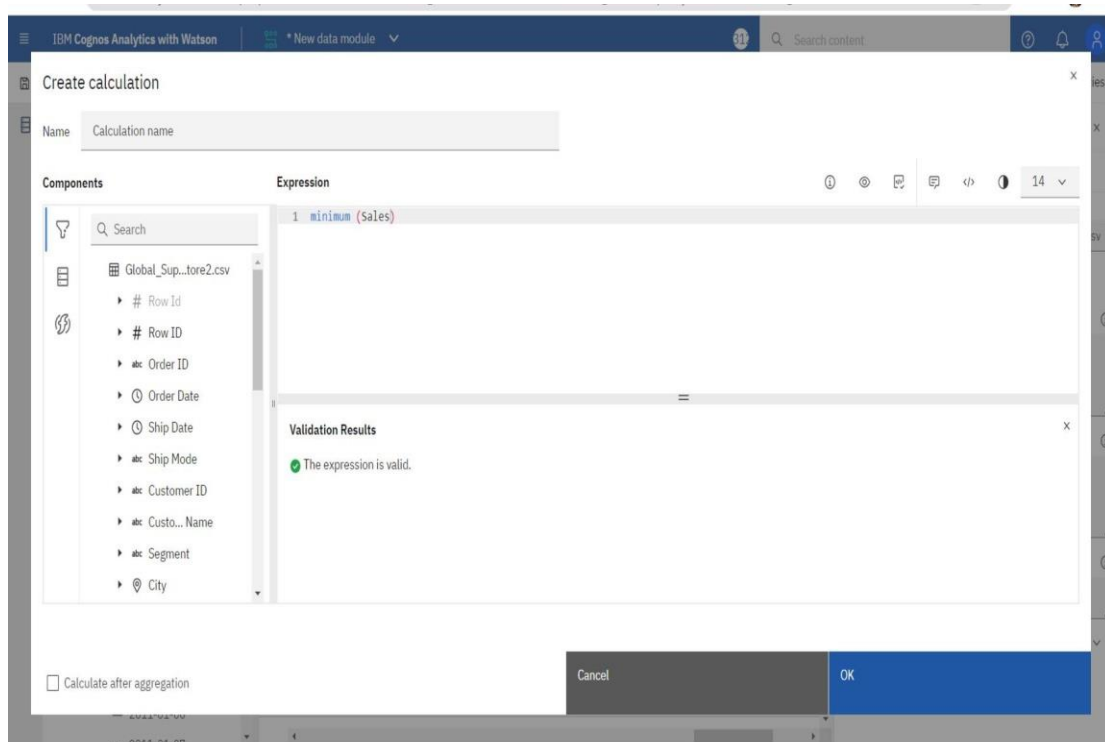
7. Similarly, calculations for Target sales, Min sales, Max Sales and Middle range sales are done

Min sales-> minimum (Sales)

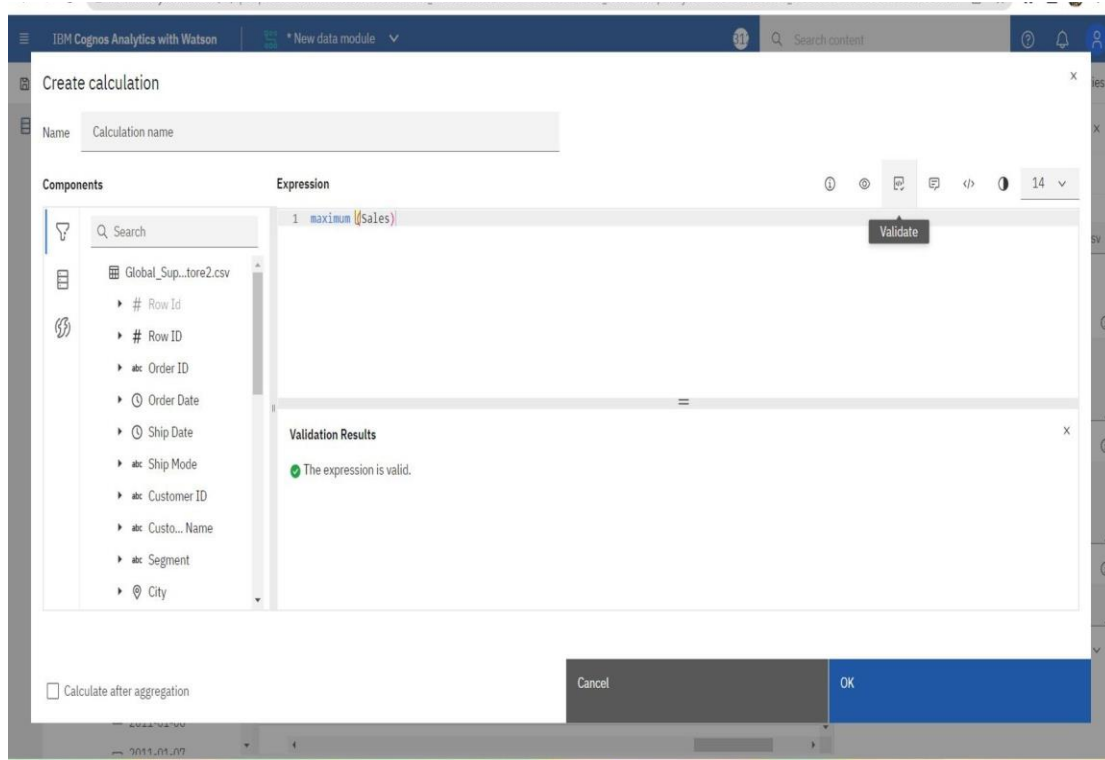
Max sales, Target sales-> maximum (Sales)

Middle range sales-> average (Sales)

Minimum(Sales)



Maximum(Sales)



Middle Range (Sales)

