

PREPARE THE DATASETS

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Project Name	Global Sales Data Analytics

DATA PREPARATION

1. First understand and load the data.

IBM Cognos Analytics with Watson

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

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Quick launch

Activate Windows Go to Settings to activate Windows.

IBM Cognos Analytics with Watson Content

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

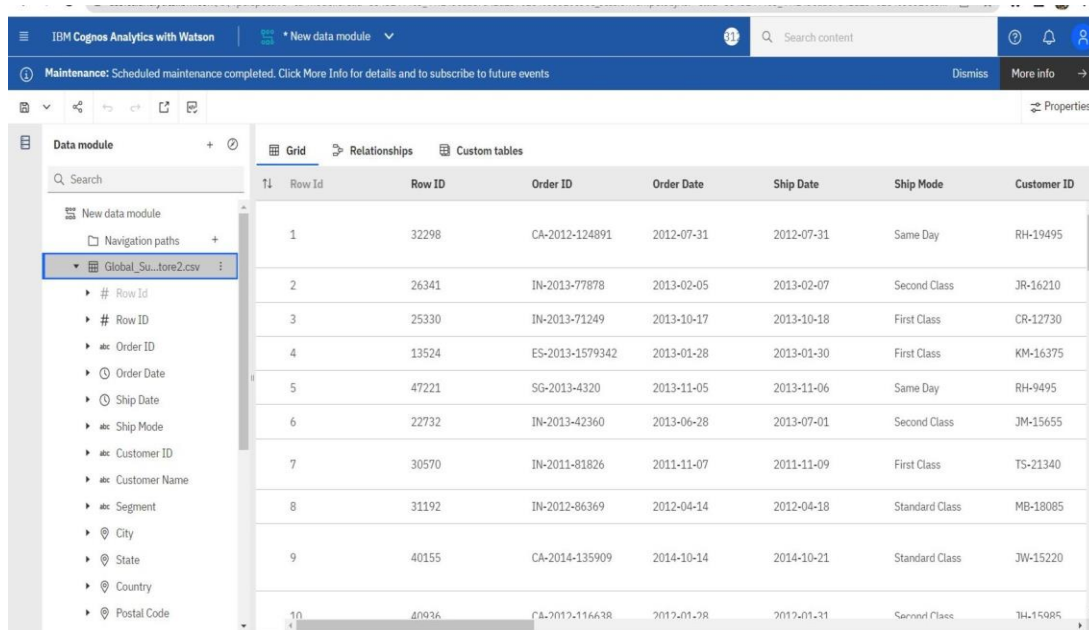
Content

My content Team content Samples

1 item selected

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

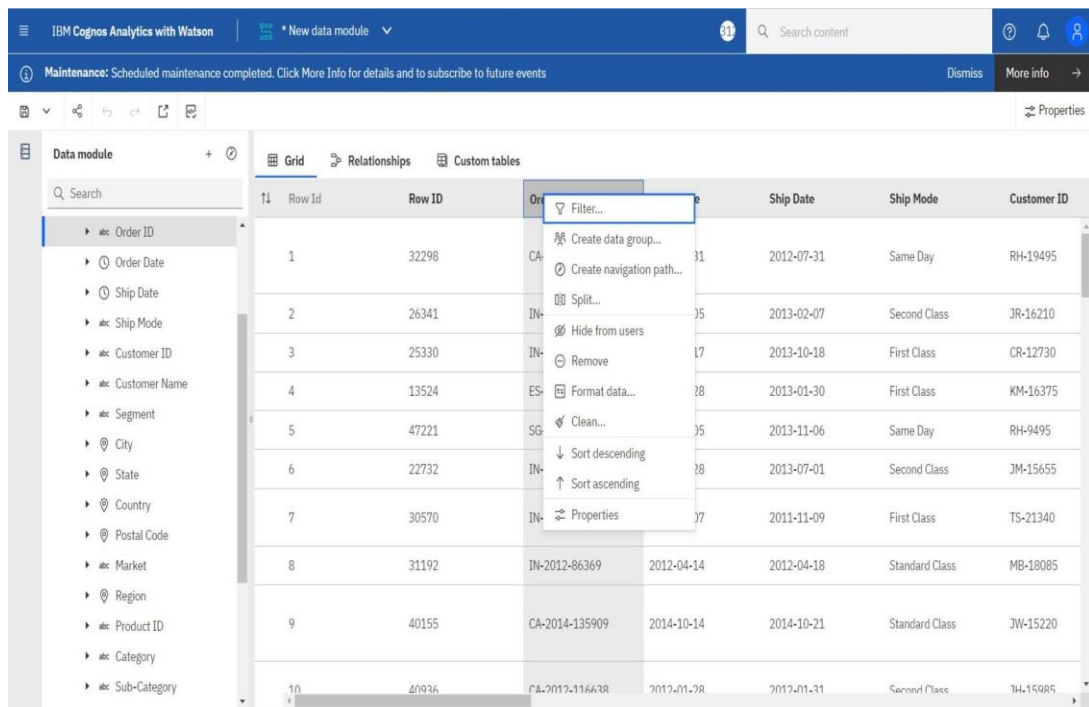
2. Since there is only single file, there need not be relationships or custom tables for the data.



The screenshot shows the IBM Cognos Analytics interface. The top navigation bar includes the logo, a search bar, and a user profile icon. A maintenance notification is displayed below the navigation bar. The main area is divided into a left sidebar and a central grid. The sidebar, titled 'Data module', contains a search bar and a list of navigation paths. The central grid, titled 'Grid', displays a table with 10 rows and 8 columns. The columns are: Row ID, Row ID, Order ID, Order Date, Ship Date, Ship Mode, and Customer ID. The data is as follows:

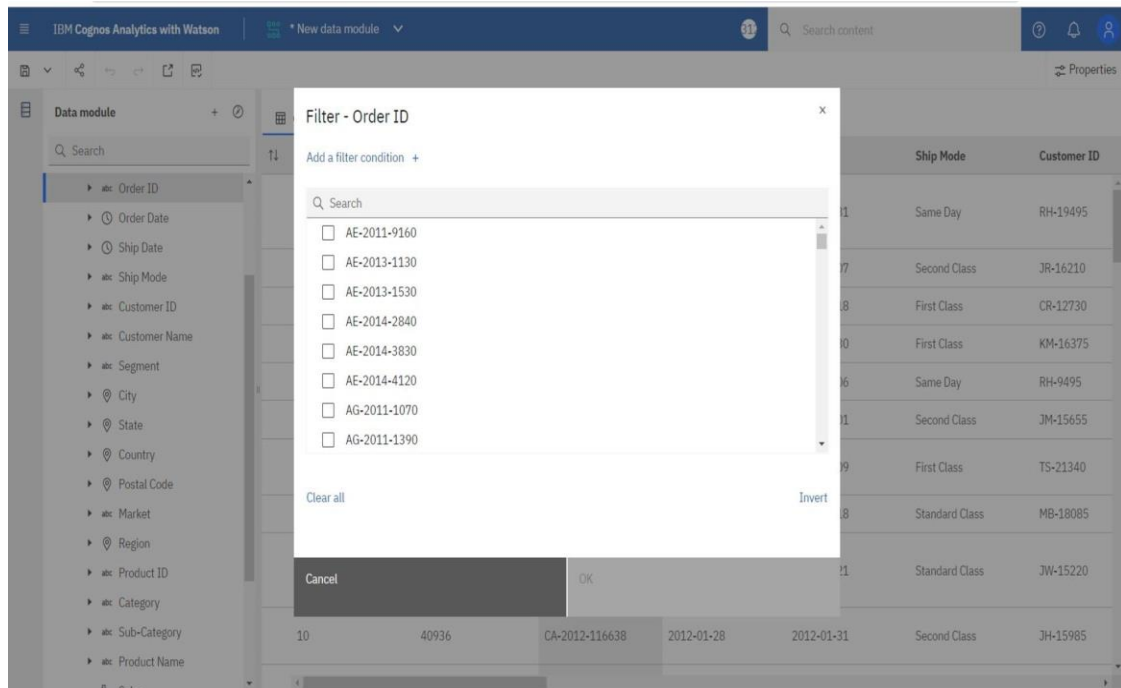
Row ID	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID
1	32298	CA-2012-124891	2012-07-31	2012-07-31	Same Day	RH-19495
2	26341	IN-2013-77878	2013-02-05	2013-02-07	Second Class	JR-16210
3	25330	IN-2013-71249	2013-10-17	2013-10-18	First Class	CR-12730
4	13524	ES-2013-1579342	2013-01-28	2013-01-30	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	20926	CA-2012-116638	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 screenshot shows the IBM Cognos Analytics interface with a context menu open over the 'Order ID' column. 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 the same as in the previous screenshot.

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
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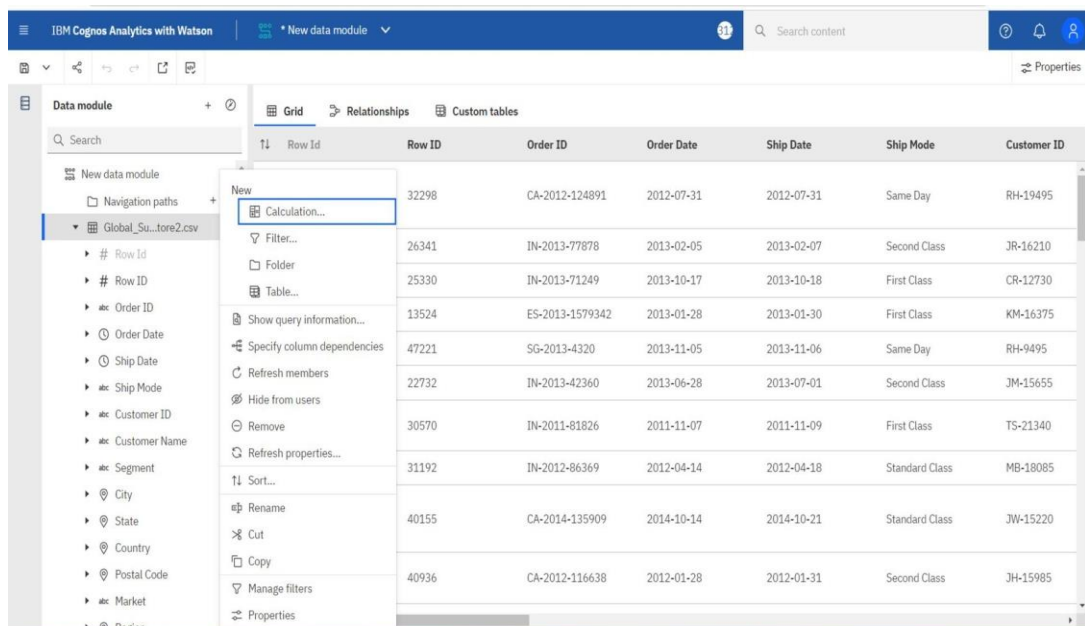
3. Once cleaned, the data is saved.

DATE CALCULATIONS AND NAVIGATION PATHS

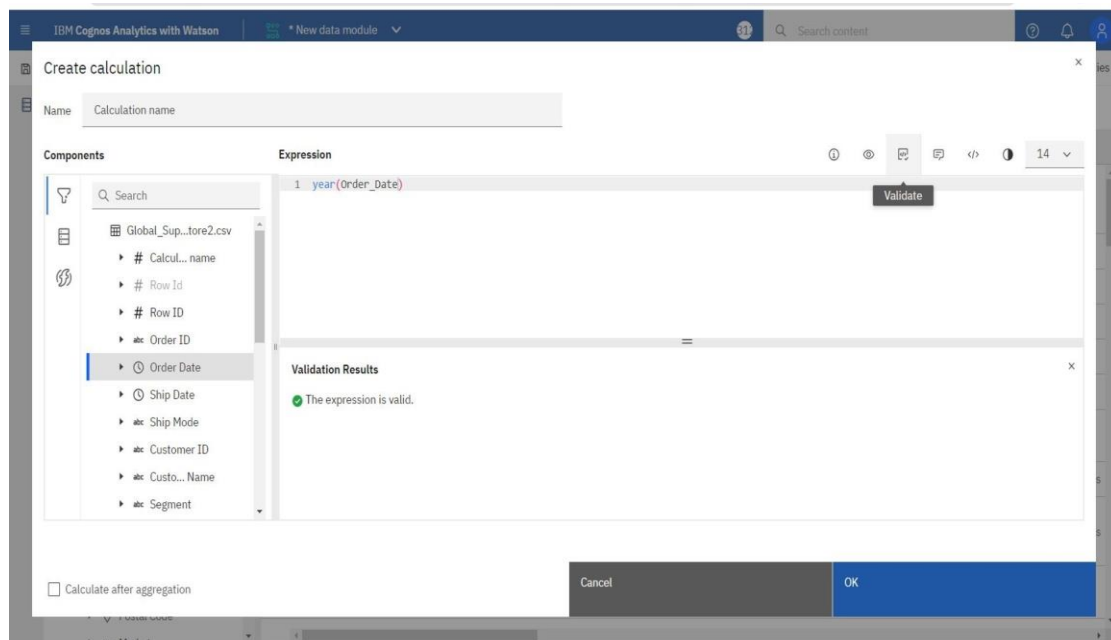
Once you load the data, we need to Prepare the data.

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

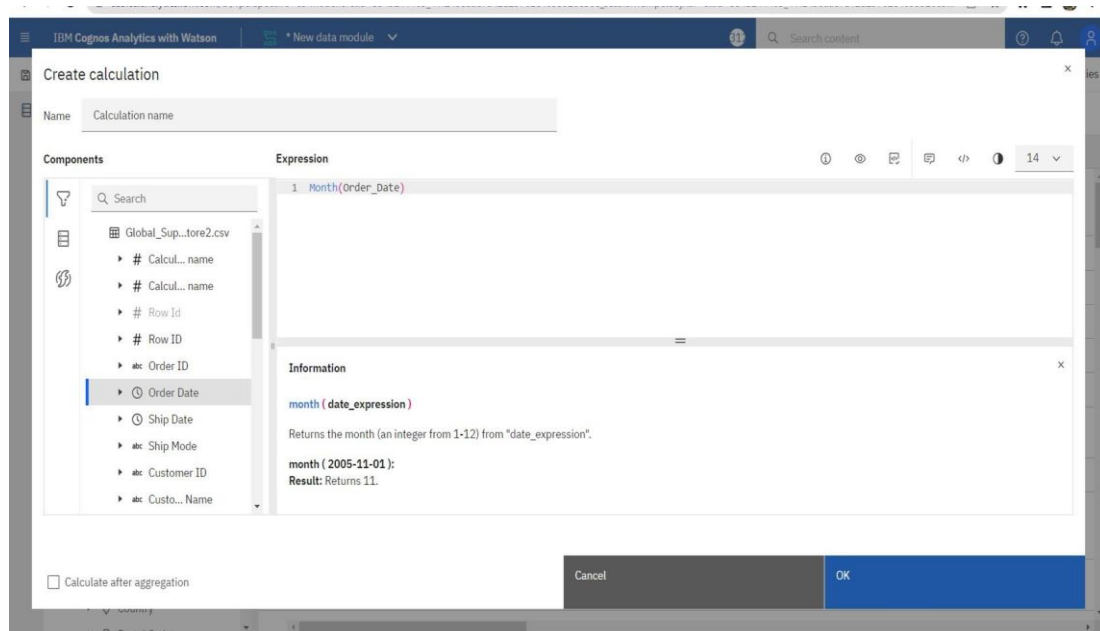
b. Create a Few more Calculations – Target Sales, Min Sales, Max Sales, Middle Range Sales.



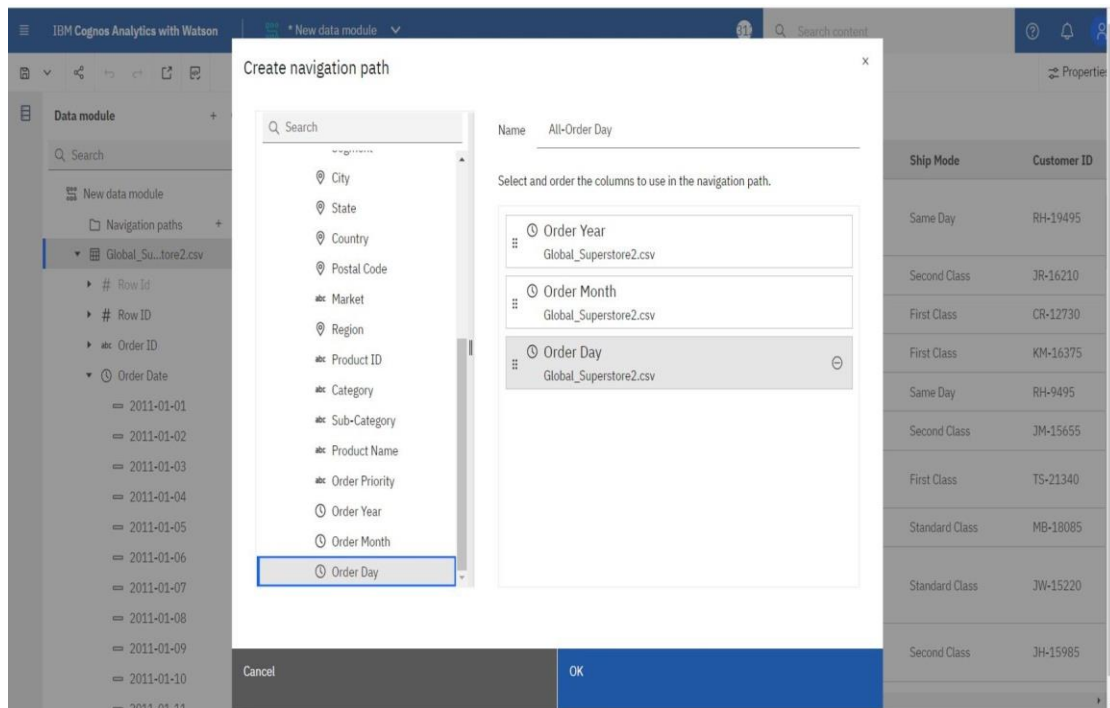
1. Right click> calculation> type expression> validate> Set Name as 'Order Year'



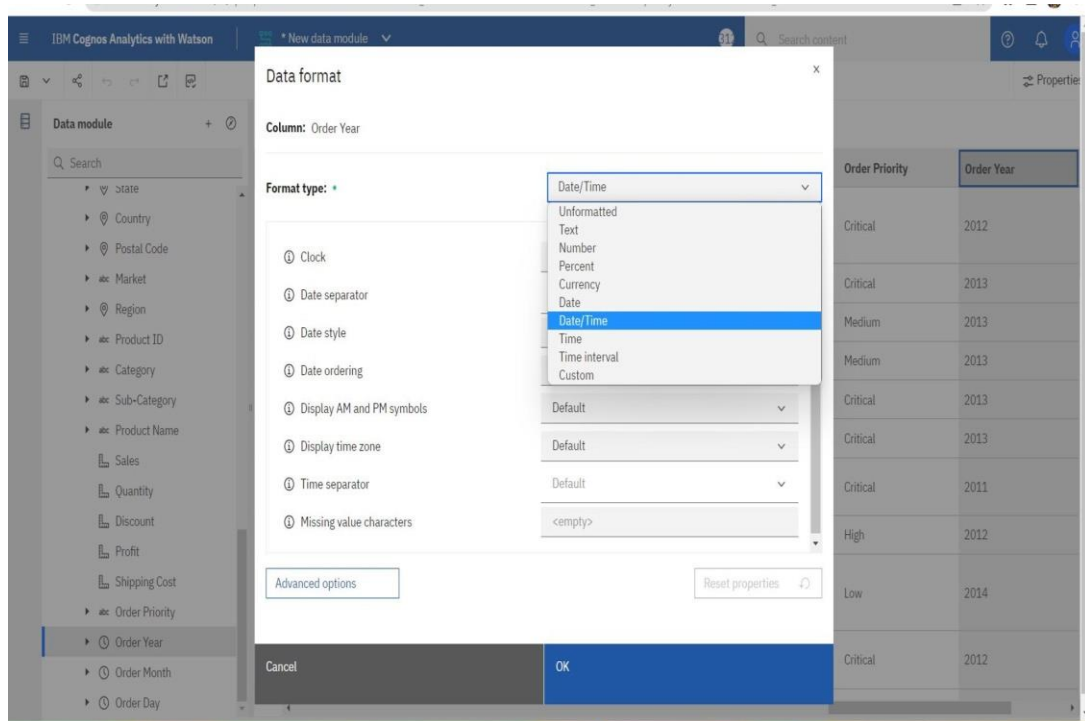
2. Similarly, 'OrderMonth', 'OrderDay' and 'All'
OrderYear -> Year (Order_Date)
OrderMonth -> Month (Order_Date)
OrderDay -> Day (Order_Date)
All -> All



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

The screenshot shows the IBM Cognos Analytics interface. On the left is the 'Data module' pane with a search bar and a list of fields including 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' field is selected. The main area displays a data grid with columns: Profit, Shipping Cost, Order Priority, Order Year, and Ord. The grid contains 10 rows of data. On the right is the 'Properties' panel for the 'Order Year' field. The 'General' tab is active, showing the field's label, 'Hide from users' toggle, and 'Expression' view/edit options. The 'Usage' dropdown is set to 'Attribute', and the 'Date' dropdown is set to 'Year'. The 'Description' field is empty.

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.**

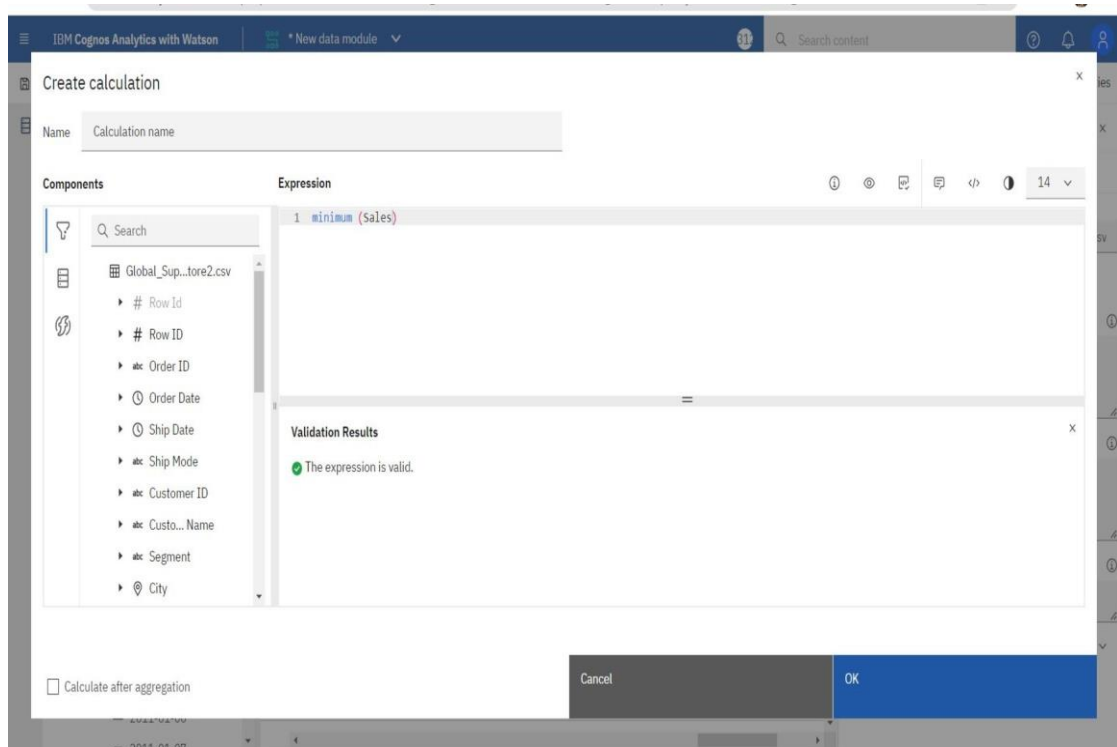
7. Similarly, calculations for Target sales, Min sales, Max Sales and Middle range sales are done

Min sales-> minimum (Sales)

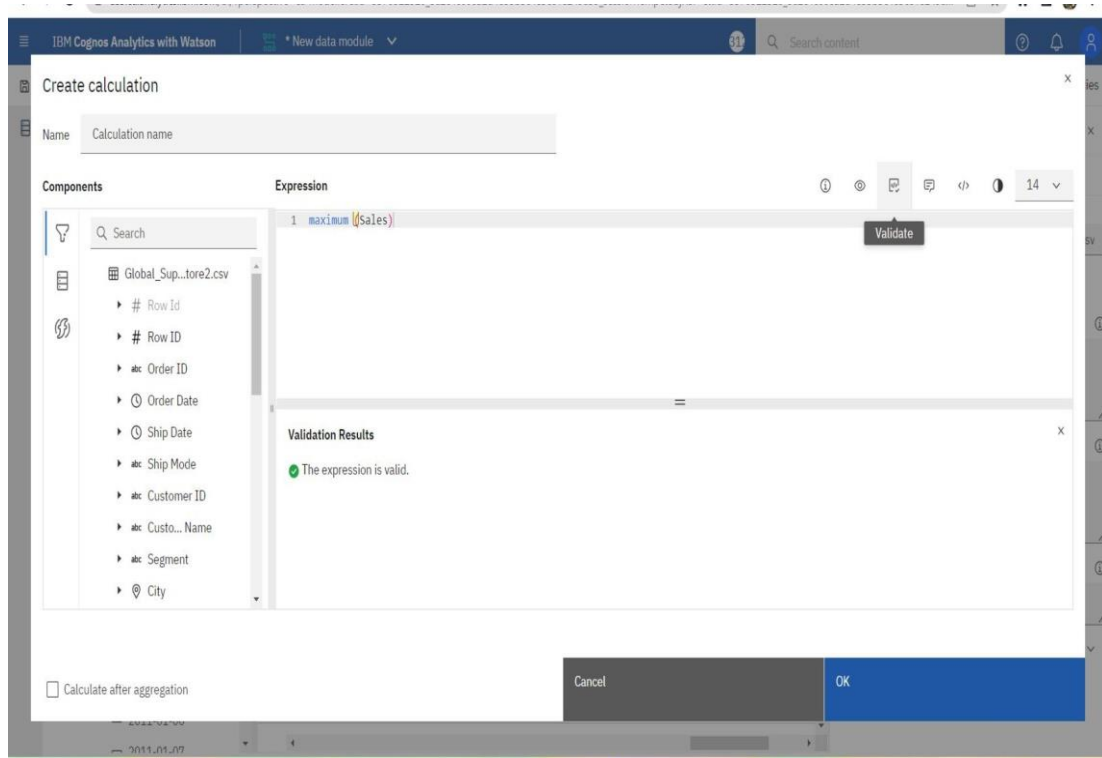
Max sales, Target sales-> maximum (Sales)

Middle range sales-> average (Sales)

Minimum(Sales)



Maximum(Sales)



Middle Range (Sales)

