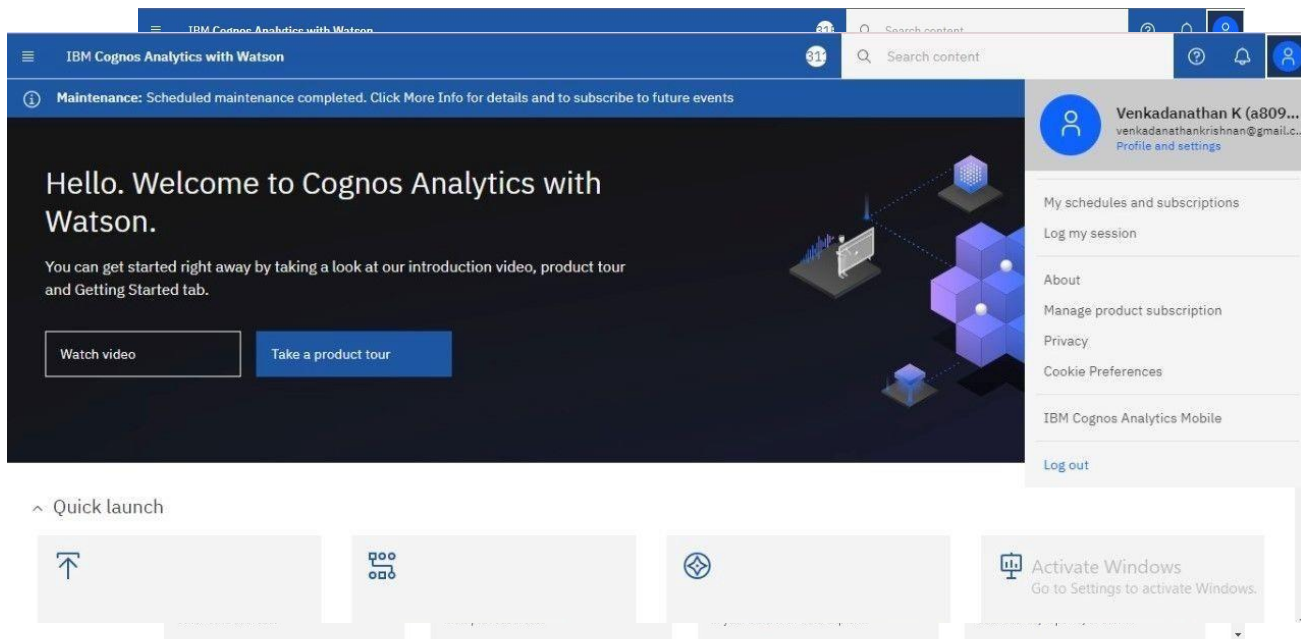


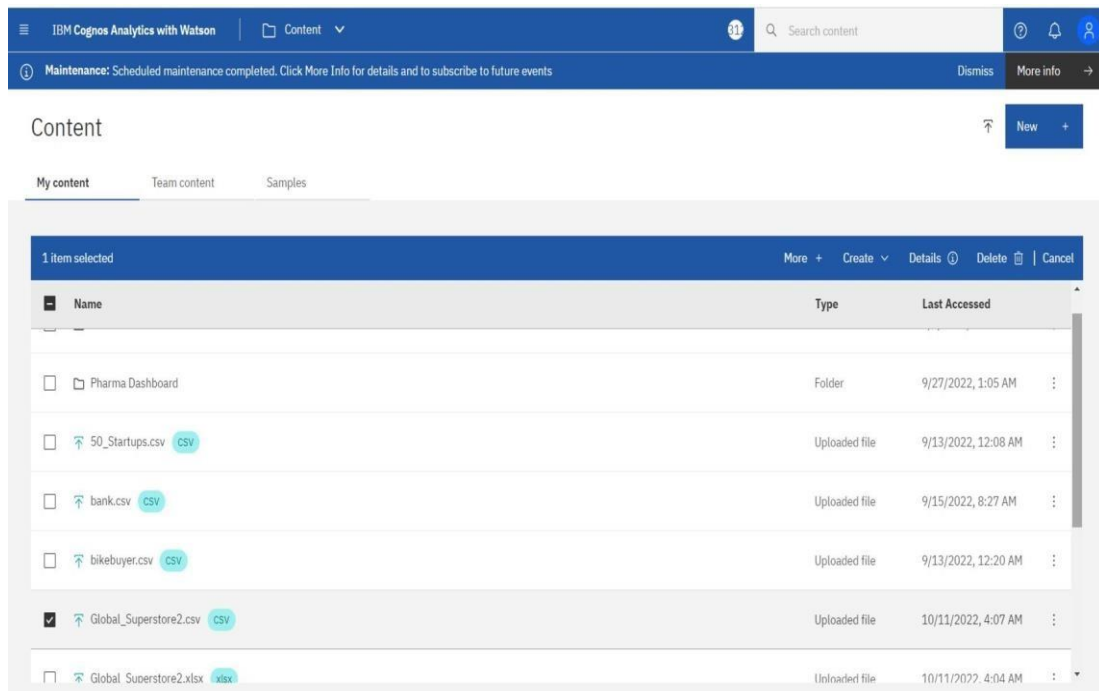
## PREPARE THE DATASETS

Team ID	PNT2022TMID14480
Project Name	Global Sales Data Analytics

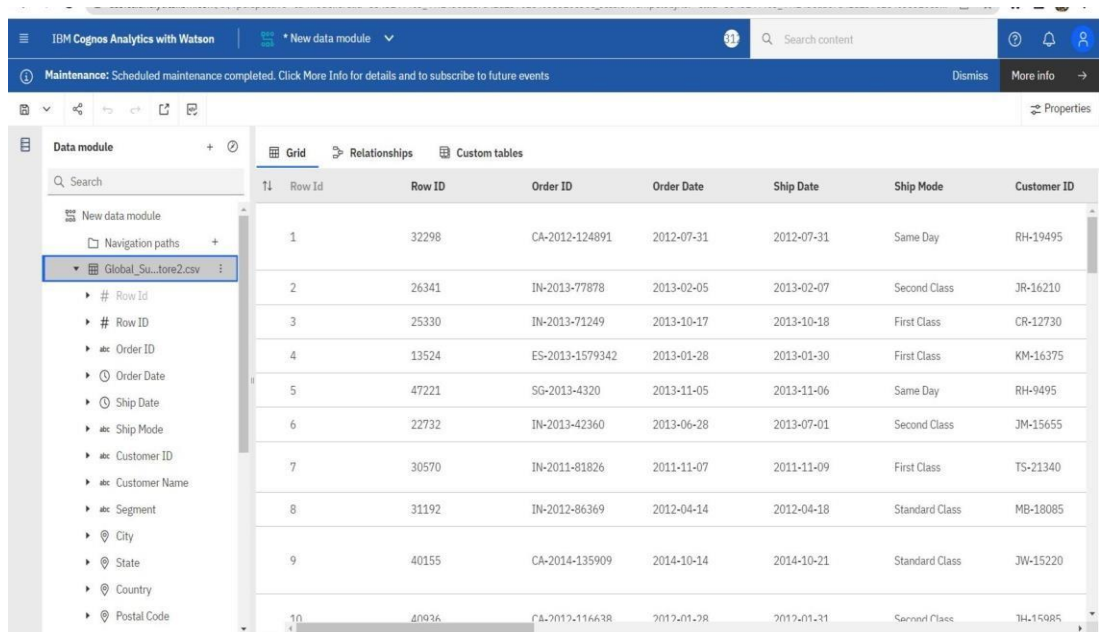
## DATA PREPARATION

1. First understand and load the data.





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



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 table. A context menu is open over the 'Order ID' column, showing options: Filter..., Create data group..., Create navigation path..., Split..., Hide from users, Remove, Format data..., Clean..., Sort descending, Sort ascending, and Properties.

The bottom screenshot shows the 'Filter - Order ID' dialog box. It contains a search bar and a list of order IDs with checkboxes:

- ☐ AE-2011-9160
- ☐ AE-2013-1130
- ☐ AE-2013-1530
- ☐ AE-2014-2840
- ☐ AE-2014-3830
- ☐ AE-2014-4120
- ☐ AG-2011-1070
- ☐ AG-2011-1390

Buttons at the bottom include 'Clear all', 'Invert', 'Cancel', and 'OK'.

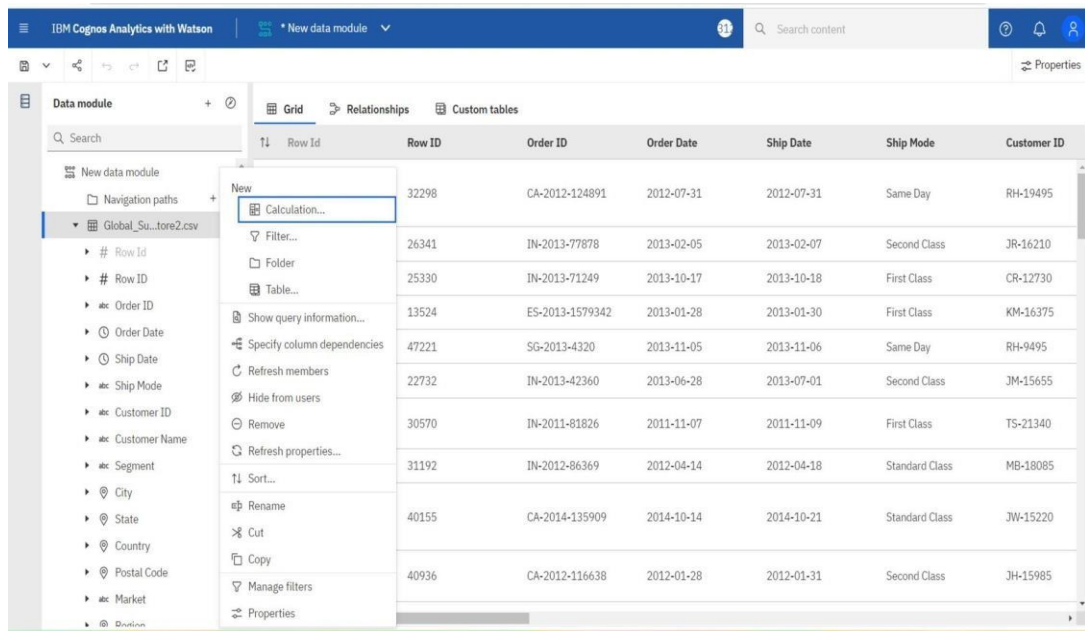
3. Once cleaned, the data is saved.

## DATE CALCULATIONS AND NAVIGATION PATHS

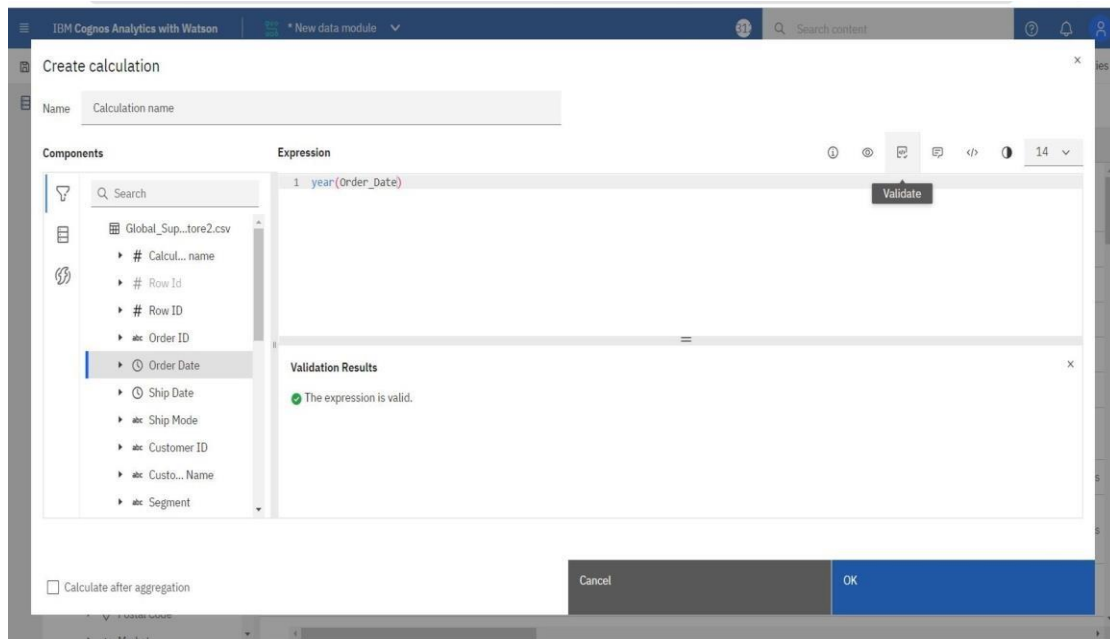
Once you load the data, we need to Prepare the data.

**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'



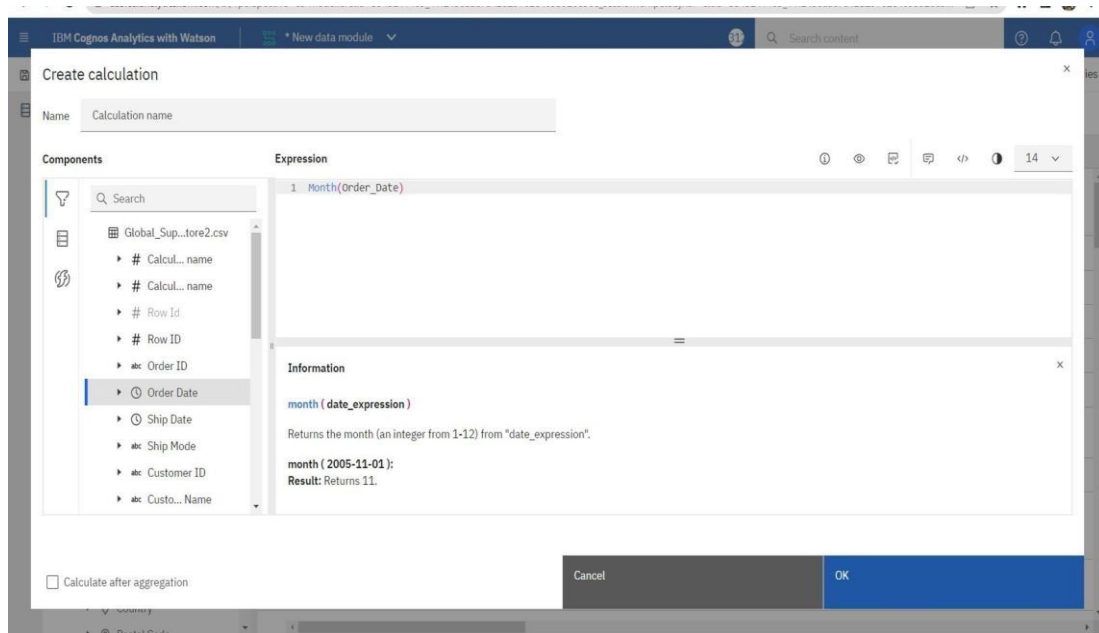
2. Similarly, 'OrderMonth', 'OrderDay' and 'All'

OrderYear -> Year (Order\_Date)

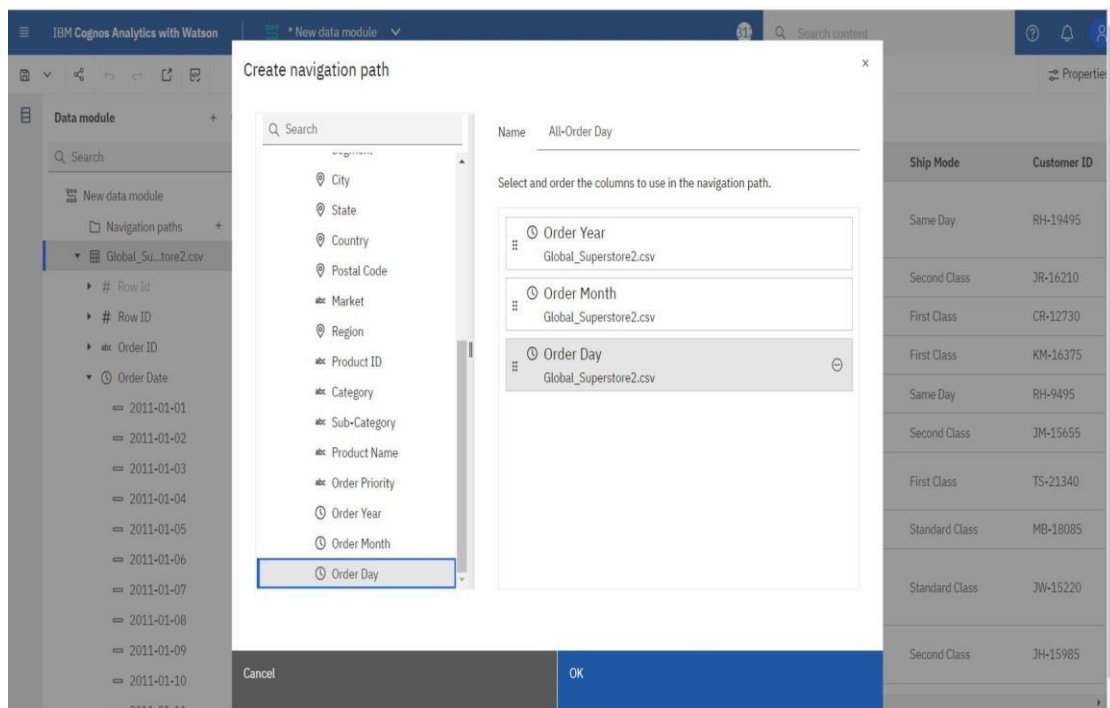
OrderMonth -> Month (Order\_Date)

OrderDay -> Day (Order\_Date)

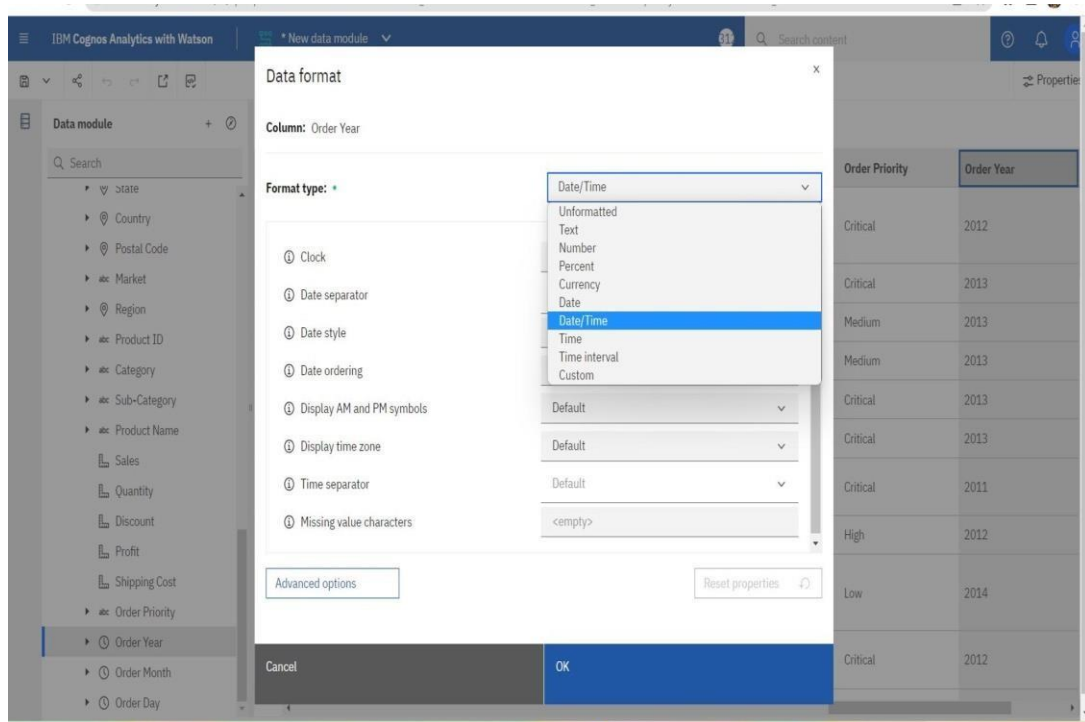
All -> All



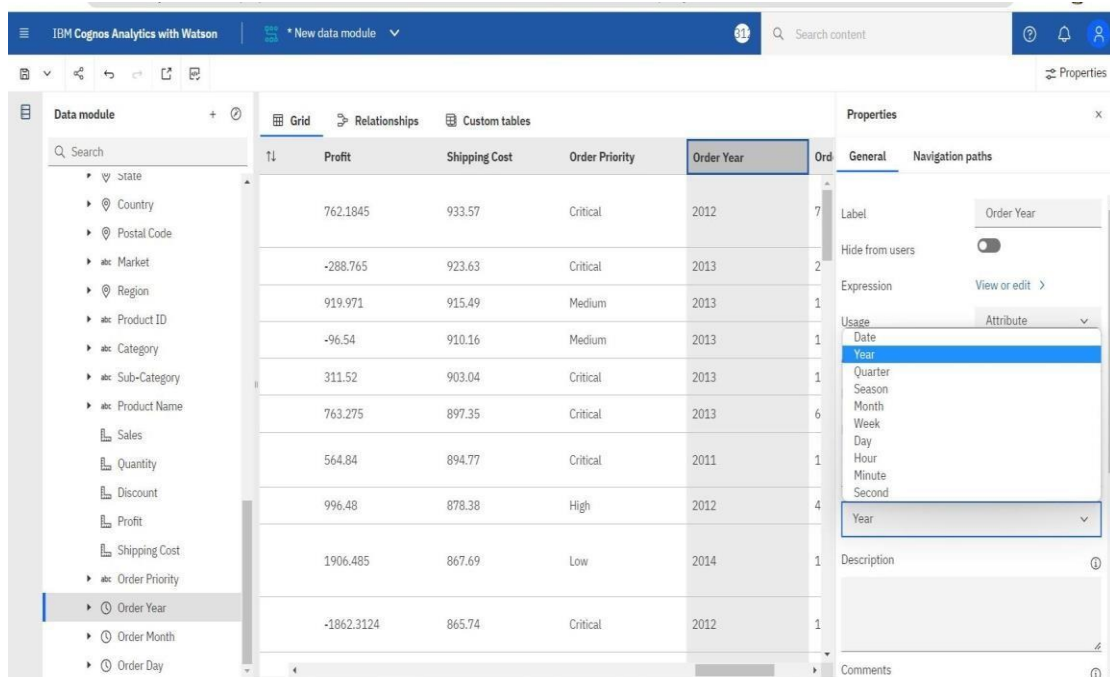
### 3. Right click on create navigation path



### 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.

- 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.**

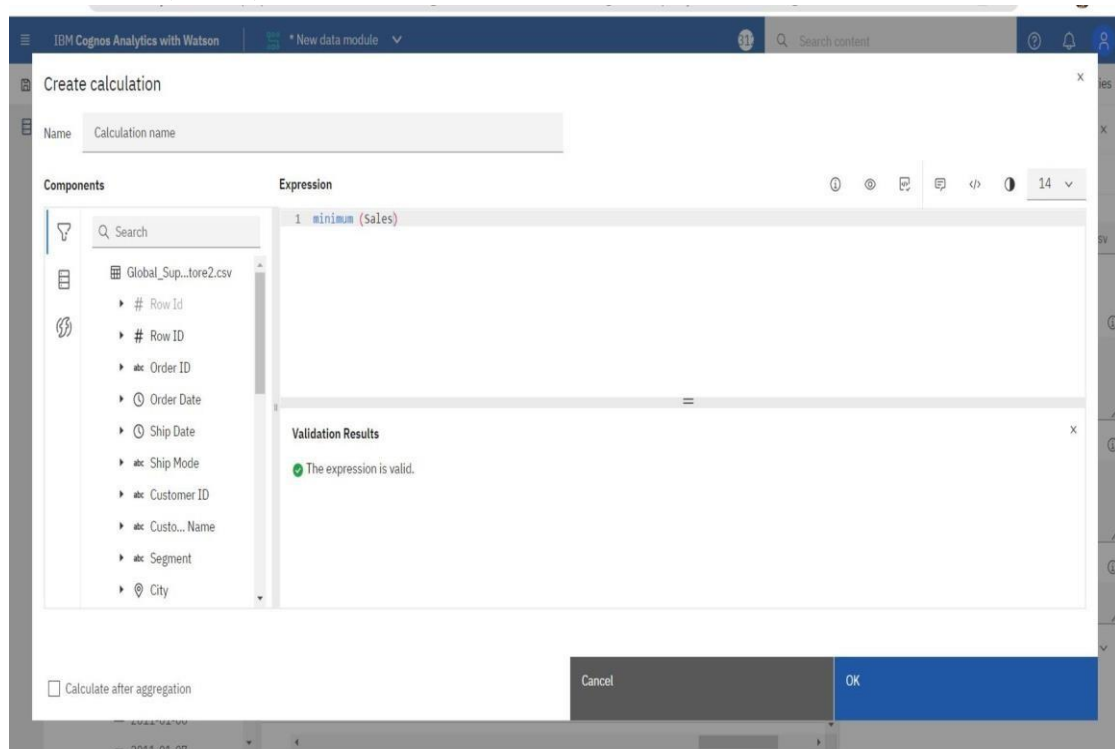
7. Similarly, calculations for Target sales, Min sales, Max Sales and Middle range sales are done

Min sales-> minimum (Sales)

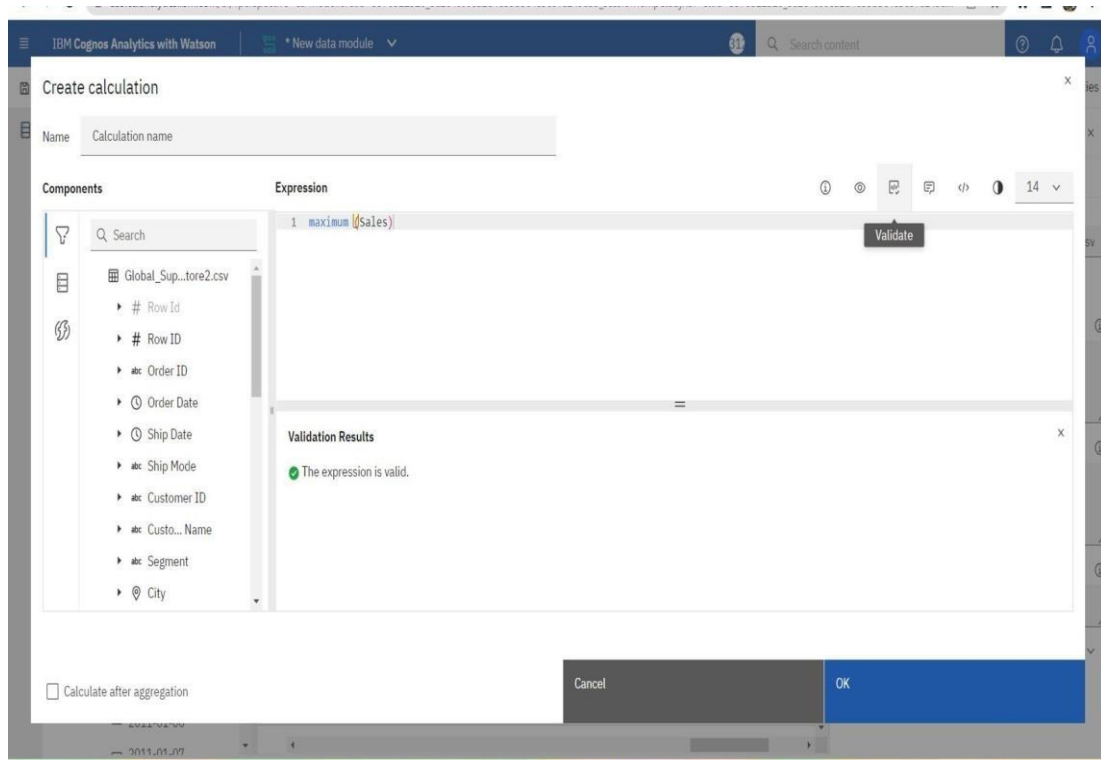
Max sales, Target sales-> maximum (Sales)

Middle range sales-> average (Sales)

### Minimum(Sales)



### Maximum(Sales)



## Middle Range (Sales)

