

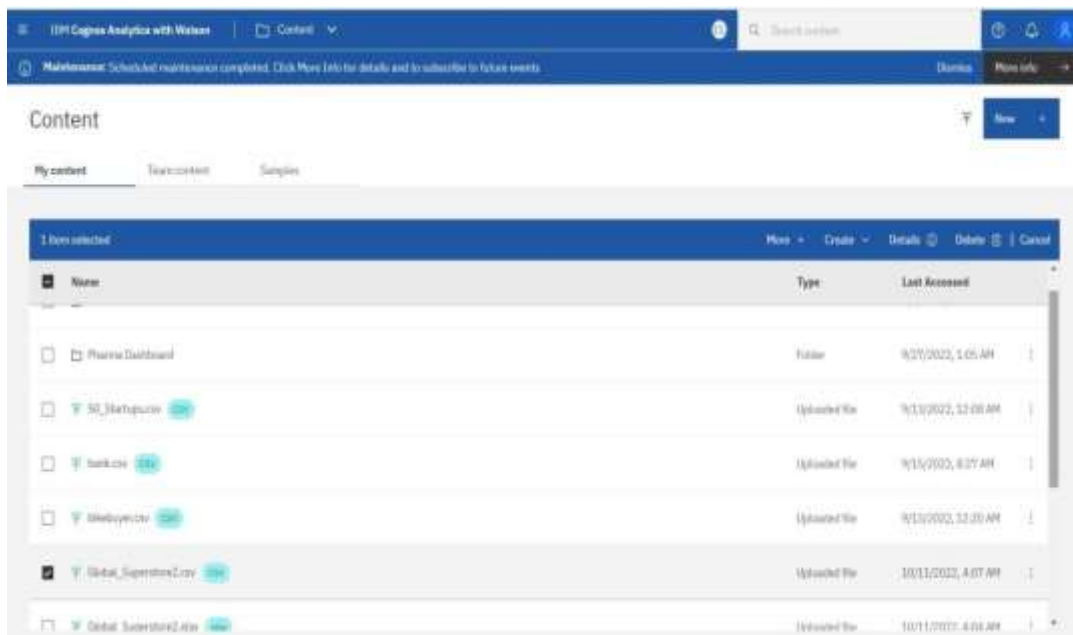
# PROJECT DEVELOPMENT PHASE

## SPRINT-III

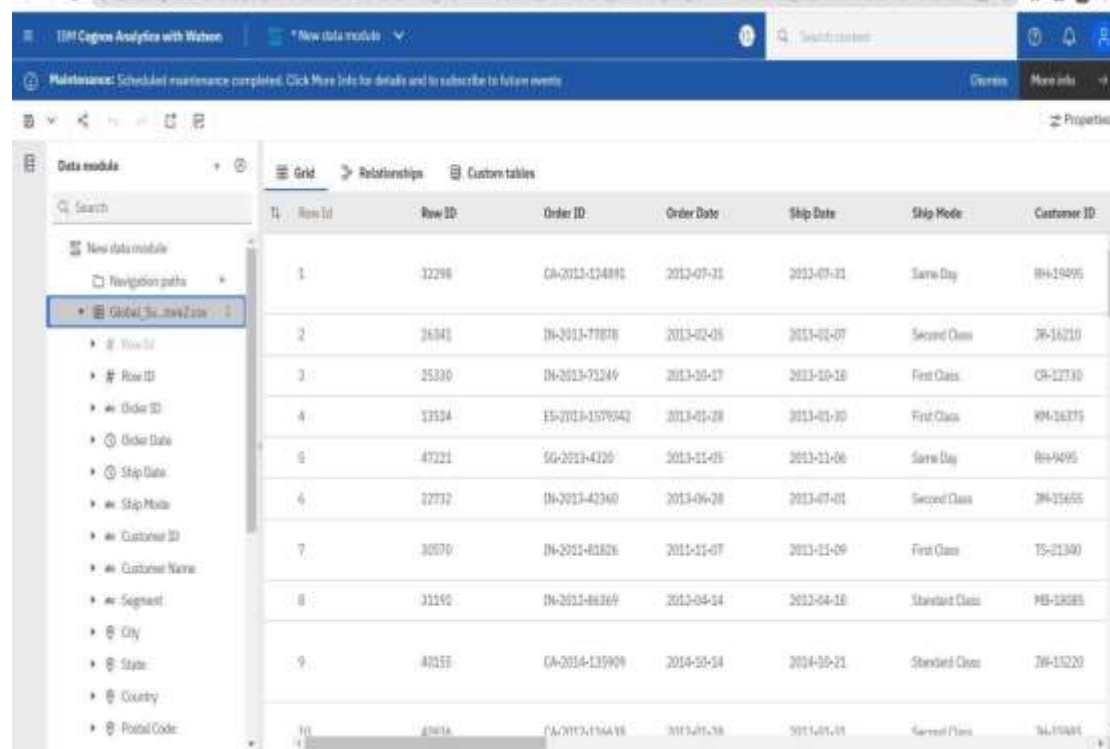
<b>Date</b>	<b>11 November 2022</b>
<b>Team ID</b>	<b>PNT2022TMID05278</b>
<b>Project Name</b>	<b>Global Sales Data Analytics</b>
<b>Mark</b>	<b>4 Mark</b>

### DATA PREPARATION

1. First understand and load the data.



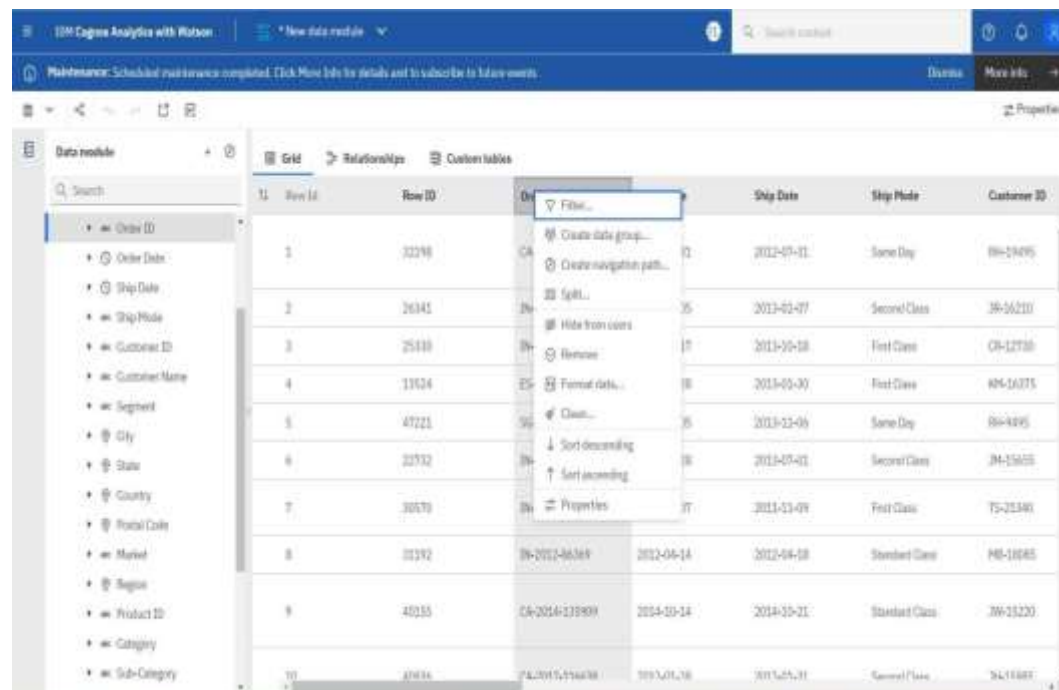
2. Since there is only single file, there need not be relationships or custom tables for the data.



The screenshot shows the IBM Cognos Analytics with Watson interface. The top navigation bar includes the title "IBM Cognos Analytics with Watson", a dropdown for "New data module", a search bar, and user profile icons. A maintenance message is displayed below the navigation bar. The left sidebar shows the "Data module" section with a search bar and a list of fields: Row ID, Row ID, Order ID, Order Date, Ship Date, Ship Mode, Customer ID, Customer Name, Segment, City, State, Country, and Postal Code. The main area displays a grid view of the data with columns: Row ID, Row ID, Order ID, Order Date, Ship Date, Ship Mode, and Customer ID. The data is organized into 10 rows.

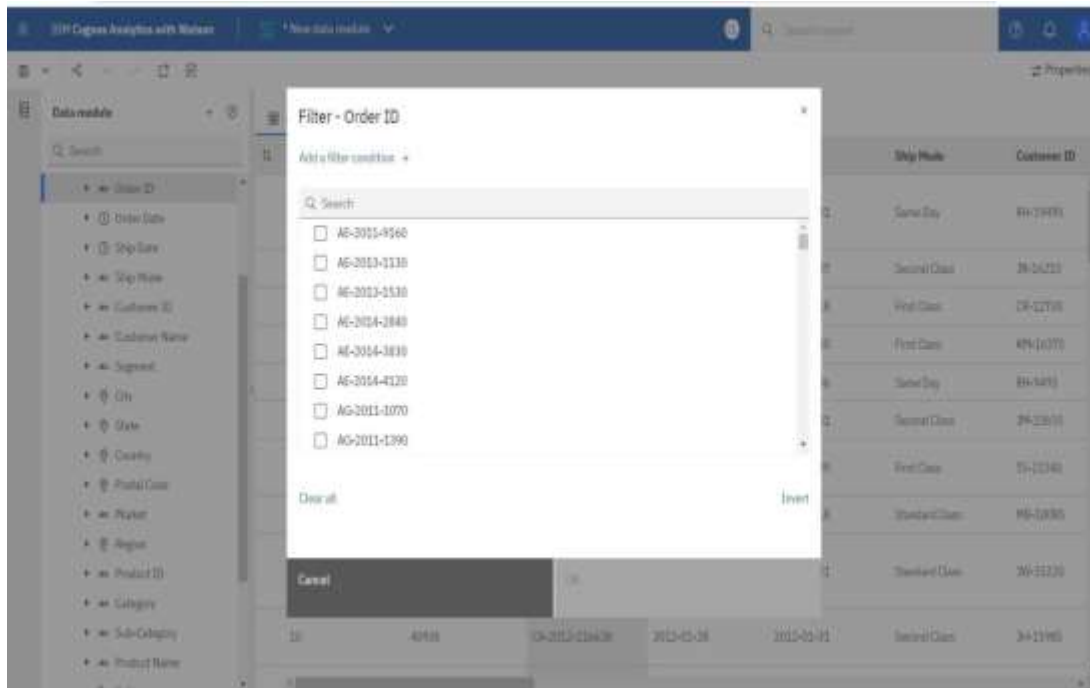
Row ID	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID
1	32298	CA-2013-124891	2013-07-31	2013-07-31	Same Day	RM-19495
2	26341	IN-2013-77878	2013-02-05	2013-02-07	Second Class	JP-16210
3	25330	IN-2013-73249	2013-05-17	2013-05-18	First Class	CR-12730
4	13534	ES-2013-1576542	2013-01-28	2013-01-30	First Class	RP-16375
5	47221	SG-2013-4320	2013-11-05	2013-11-06	Same Day	RM-9495
6	22732	IN-2013-42360	2013-06-28	2013-07-01	Second Class	JM-15655
7	30570	IN-2013-81826	2013-11-07	2013-11-09	First Class	TS-21340
8	31192	IN-2013-86369	2013-04-14	2013-04-18	Standard Class	MB-18585
9	40155	CA-2014-135909	2014-05-14	2014-05-21	Standard Class	JW-15220
10	27636	CA-2013-516638	2013-01-18	2013-01-31	Standard Class	SL-11685

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.



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Row ID	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID
1	32298	CA	2013-07-31	2013-07-31	Same Day	RM-19495
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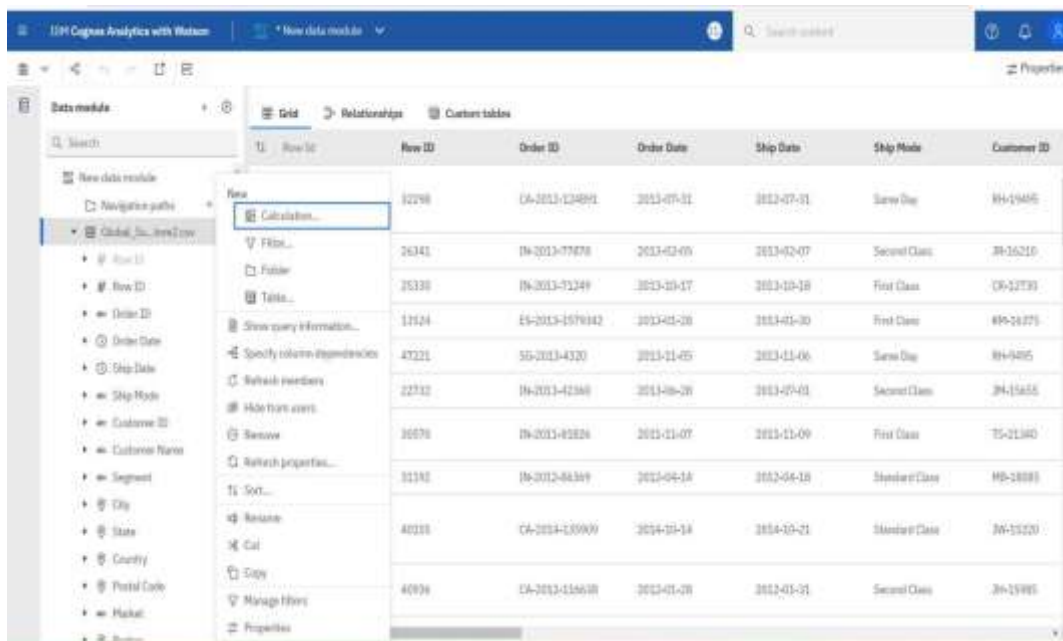


2. Once cleaned, the data is saved.

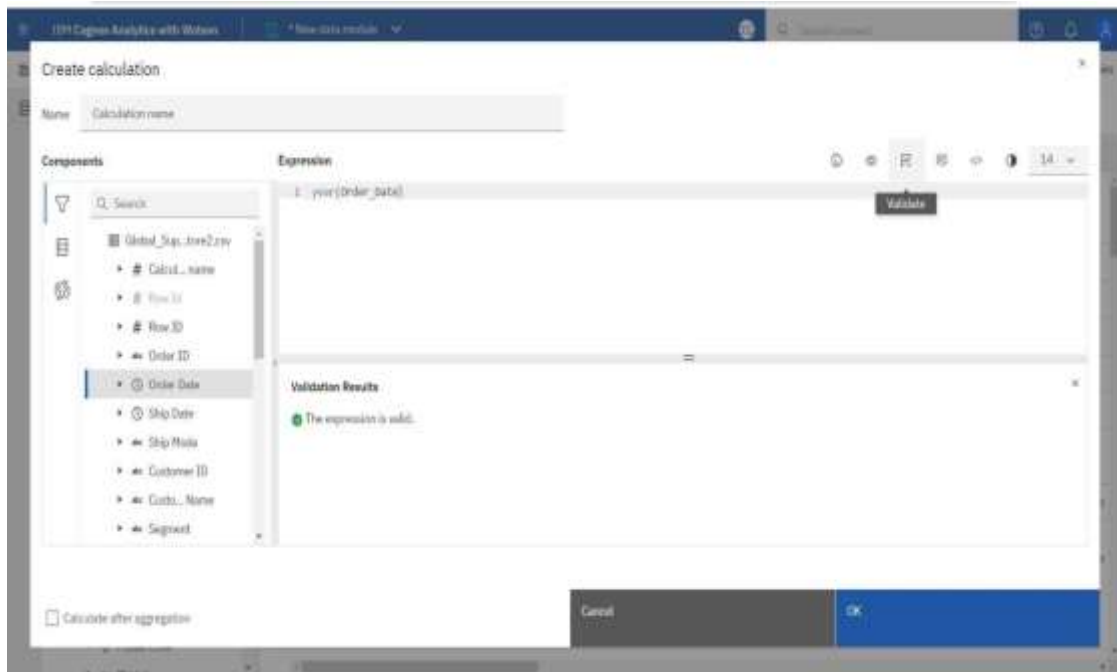
## DATE CALCULATIONS AND NAVIGATION PATHS

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

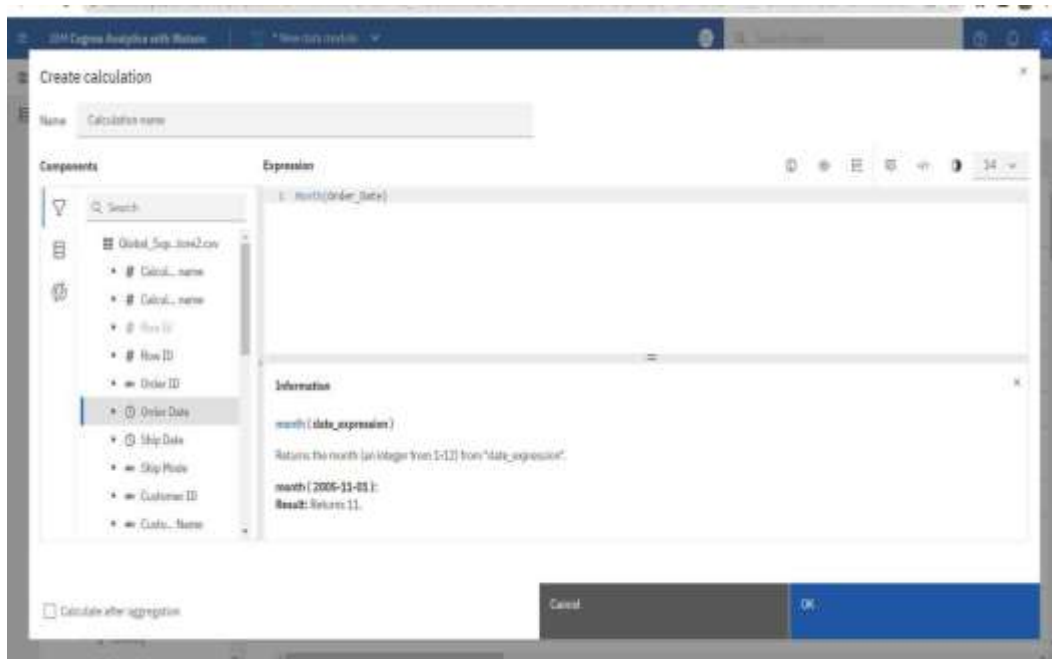
- a. Prepare Calculations of Year, Month, Day fields and also the related Navigation path
- b. Create a Few more Calculations – Target Sales, Min Sales, Max Sales, Middle Range Sales.



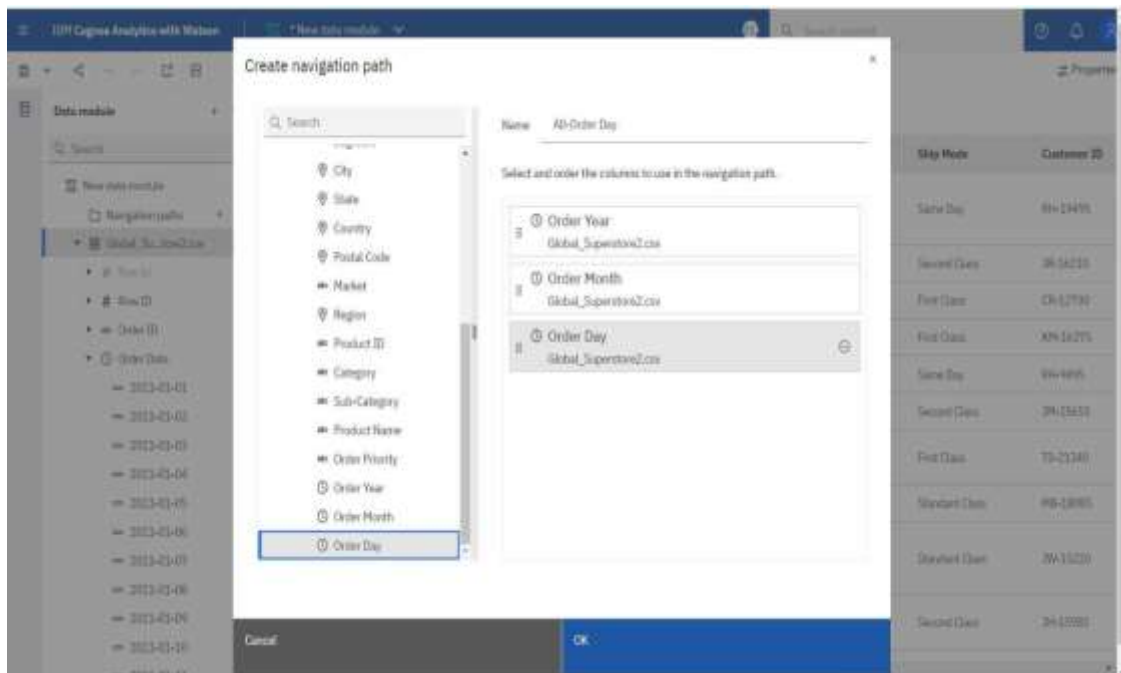
1. Right click> calculation> type expression> validate> Set Name as 'Order Year'



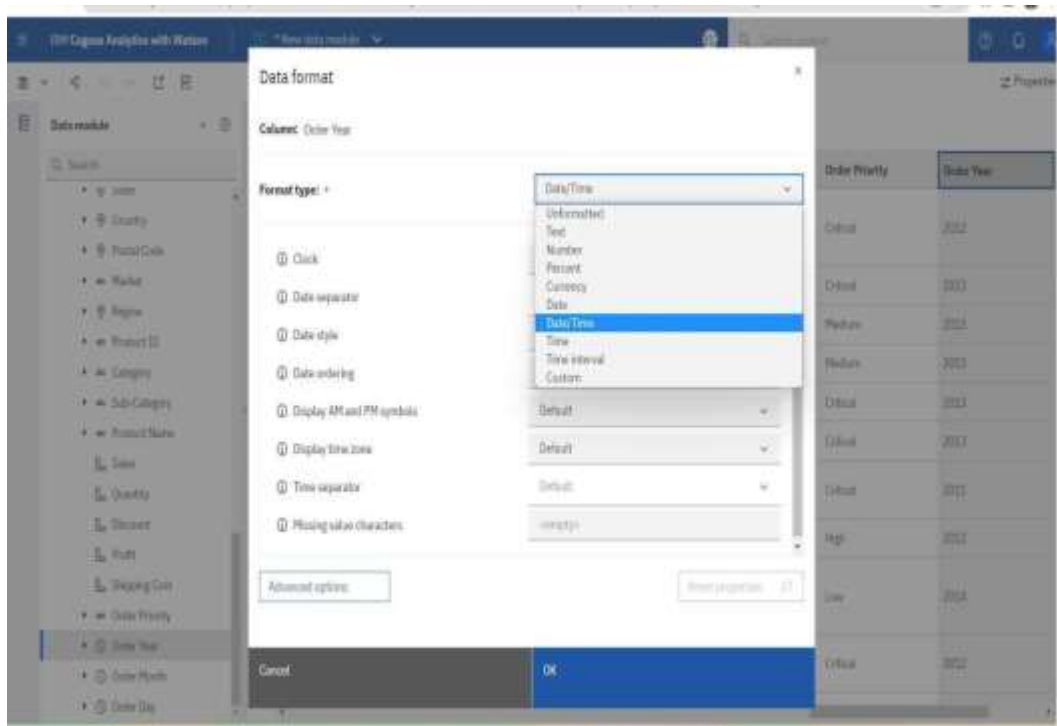
2. Similarly, 'OrderMonth', 'OrderDay' and 'All'  
OrderYear -> Year (Order\_Date)  
OrderMonth -> Month (Order\_Date)  
OrderDay -> Day (Order\_Date)  
All -> All



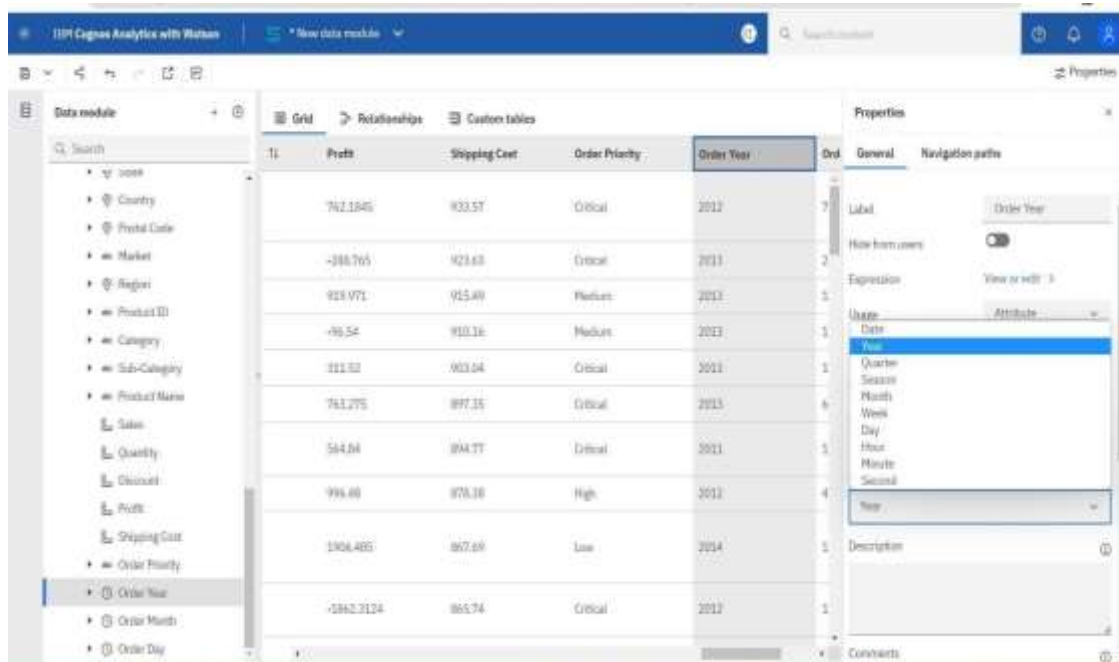
### 3. Right click on create navigation path



### 4. Data format > Date/Time



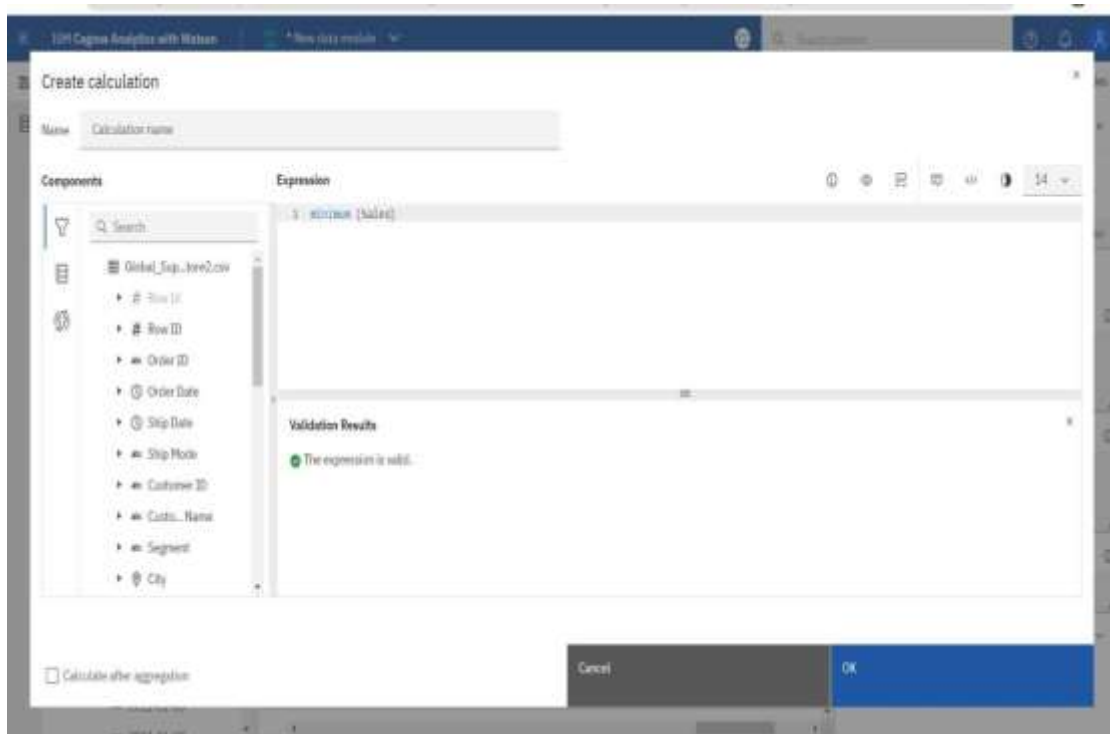
5. Properties> Usage-> Attribute  
 Aggregate-> Count Distinct  
 Data Type-> Integer  
 Represents-> Time, (Year, Month, Day Respectively)  
 Display Options-> Show Members  
 This way it becomes a Numerical data Type



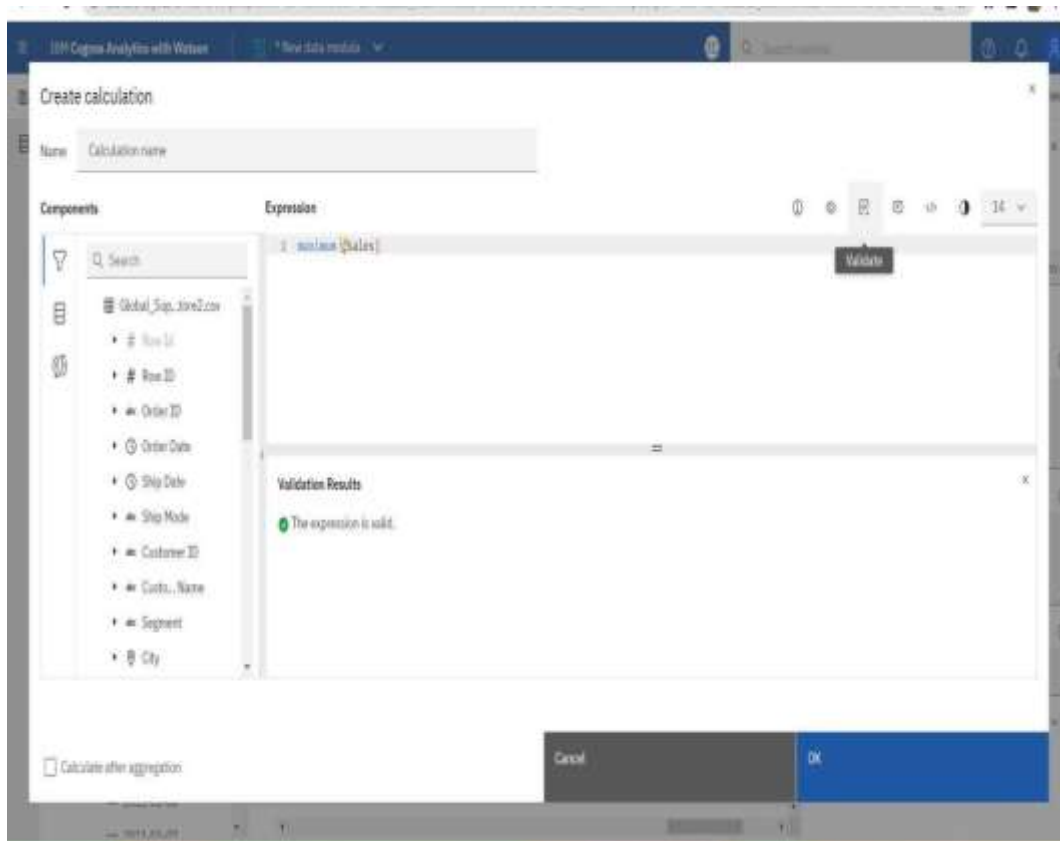
6. Hence calculations for day, month and year are completed.  
 Once you load the data, we need to Prepare the data.  
 a. Prepare Calculations of Year, Month, Day fields and also the related Navigation path  
 b. **Create a Few more Calculations – Target Sales, Min Sales, Max Sales, Middle Range Sales.**

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)

