

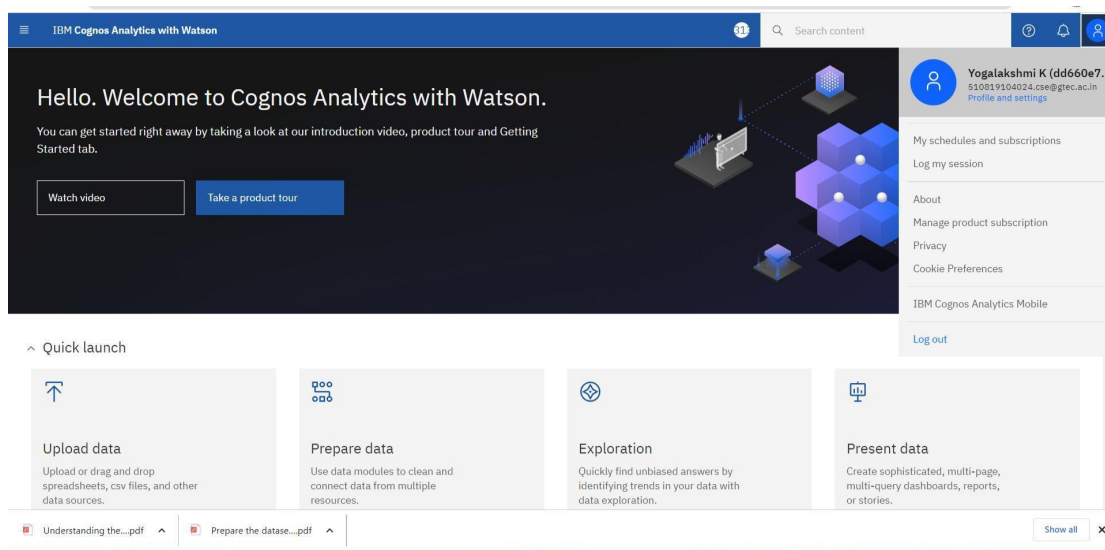
PROJECT DEVELOPMENT PHASE-I

SPRINT-II

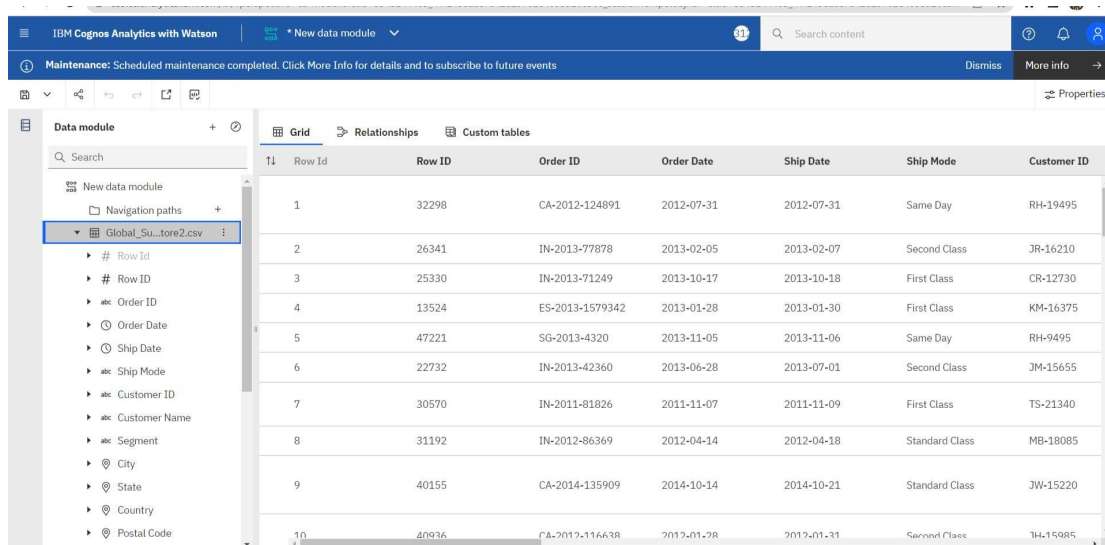
Team ID	PNT2022TMID39710
Project Name	Global Sales Data Analytics

DATA PREPARATION

1. First understand and load the data.

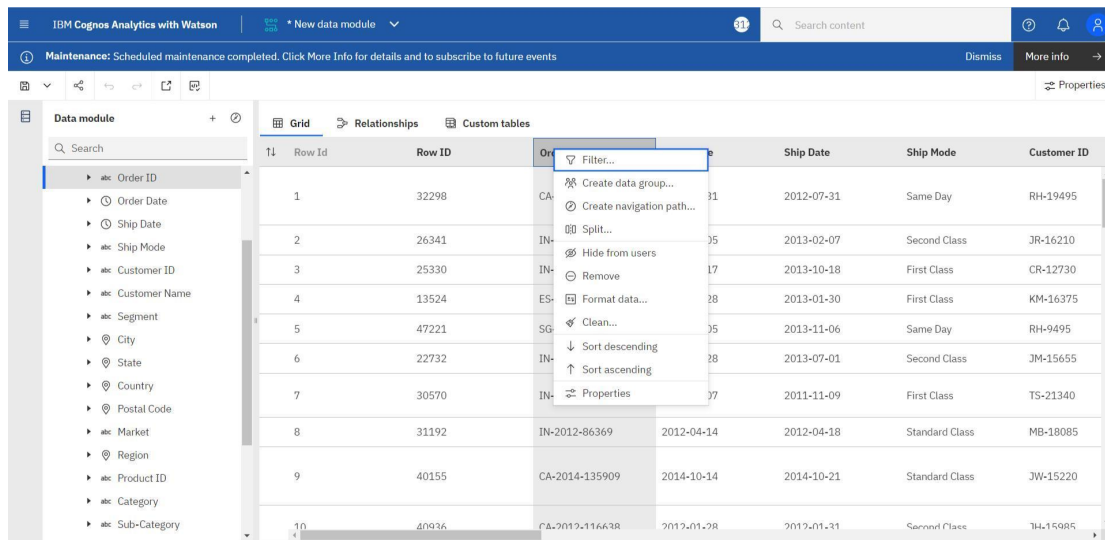


2. Since there is only single file, there need not be relationships or custom tables for the data.



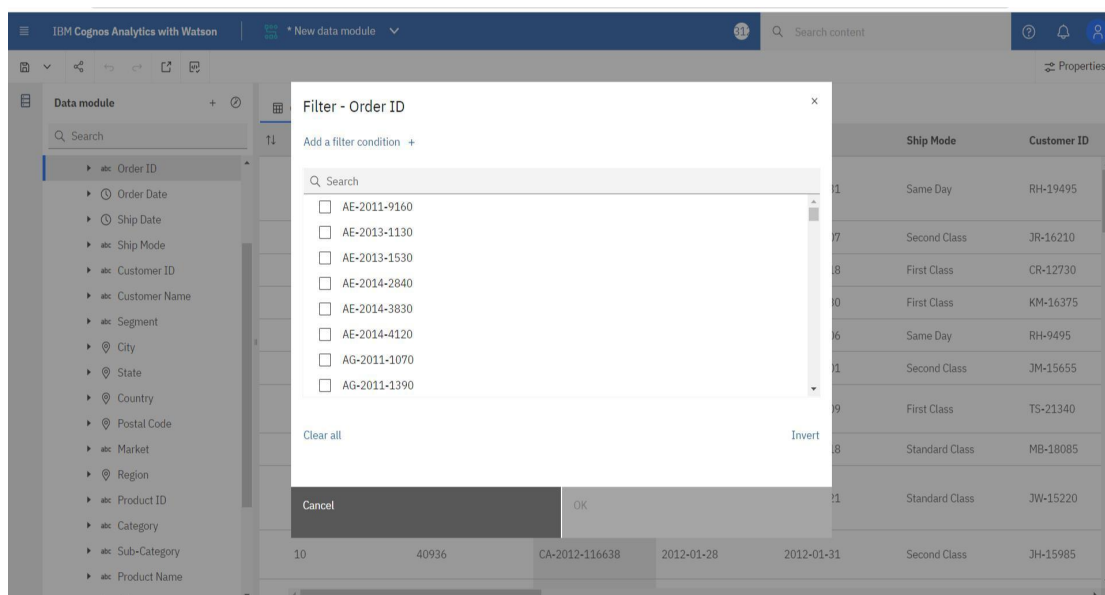
Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID
1	CA-2012-124891	2012-07-31	2012-07-31	Same Day	RH-19495
2	IN-2013-77878	2013-02-05	2013-02-07	Second Class	JR-16210
3	IN-2013-71249	2013-10-17	2013-10-18	First Class	CR-12730
4	ES-2013-1579342	2013-01-28	2013-01-30	First Class	KM-16375
5	SG-2013-4320	2013-11-05	2013-11-06	Same Day	RH-9495
6	IN-2013-42360	2013-06-28	2013-07-01	Second Class	JM-15655
7	IN-2011-81826	2011-11-07	2011-11-09	First Class	TS-21340
8	IN-2012-86369	2012-04-14	2012-04-18	Standard Class	MB-18085
9	CA-2014-135909	2014-10-14	2014-10-21	Standard Class	JW-15220
10	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. On the left, the 'Data module' pane lists various fields: Order ID, Order Date, Ship Date, Ship Mode, Customer ID, Customer Name, Segment, City, State, Country, Postal Code, Market, Region, Product ID, Category, and Sub-Category. The main area displays a data grid with columns: Row ID, Order ID, Order Date, Ship Date, Ship Mode, and Customer ID. 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.

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	2013-02-07	2013-02-07	Second Class	JR-16210
3	25330	2013-10-18	2013-10-18	First Class	CR-12730
4	13524	2013-01-30	2013-01-30	First Class	KM-16375
5	47221	2013-11-06	2013-11-06	Same Day	RH-9495
6	22732	2013-07-01	2013-07-01	Second Class	JM-15655
7	30570	2011-11-09	2011-11-09	First Class	TS-21340
8	31192	2012-04-14	2012-04-14	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	JH-15985



The screenshot shows the same IBM Cognos Analytics interface, but with a 'Filter - Order ID' dialog box open. The dialog box has a search bar and a list of Order IDs with checkboxes next to them. The 'Clear all' button is at the bottom left, and the 'Invert' button is at the bottom right. The 'Cancel' and 'OK' buttons are at the bottom.

Order ID
<input type="checkbox"/> AE-2011-9160
<input type="checkbox"/> AE-2013-1130
<input type="checkbox"/> AE-2013-1530
<input type="checkbox"/> AE-2014-2840
<input type="checkbox"/> AE-2014-3830
<input type="checkbox"/> AE-2014-4120
<input type="checkbox"/> AG-2011-1070
<input type="checkbox"/> AG-2011-1390

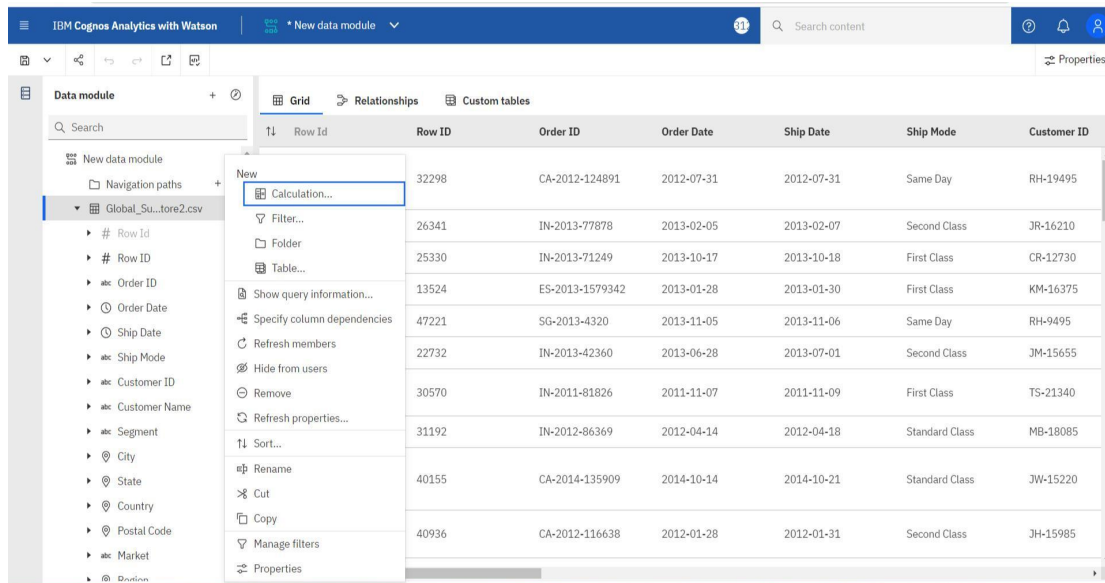
2. Once cleaned, the data is saved.

DATE CALCULATIONS AND NAVIGATION PATHS

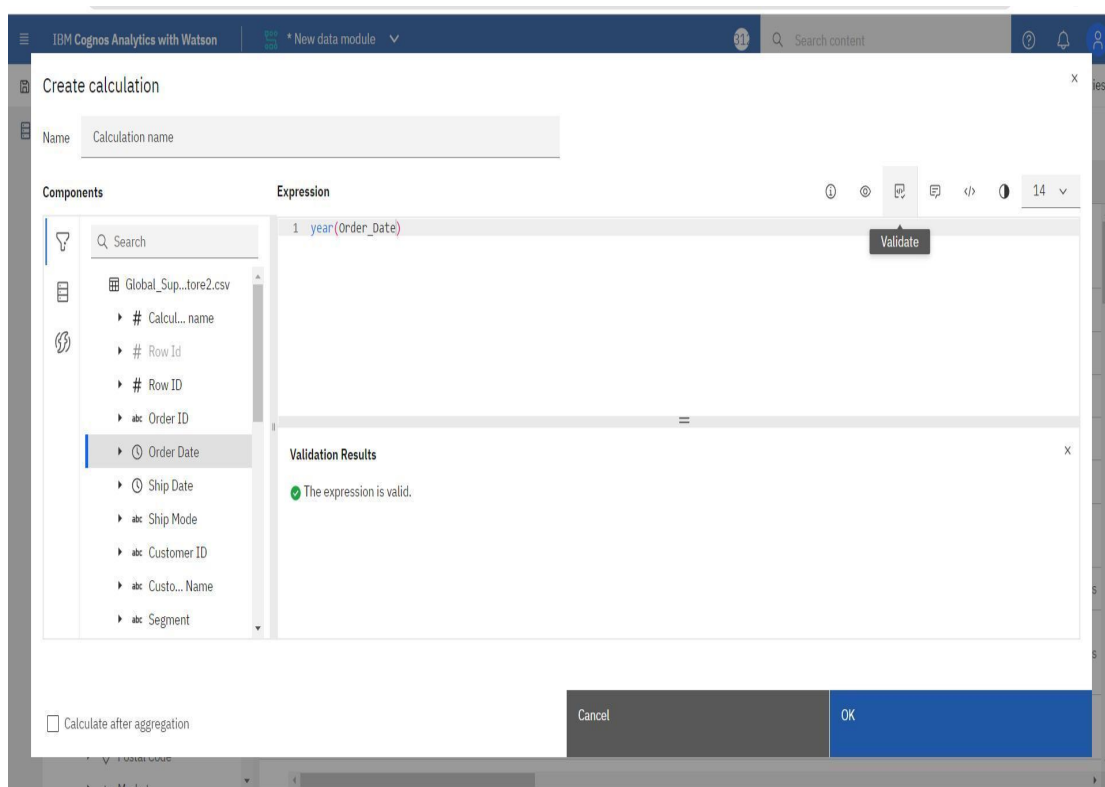
Once you load the data, we need to Prepare the data.

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’.



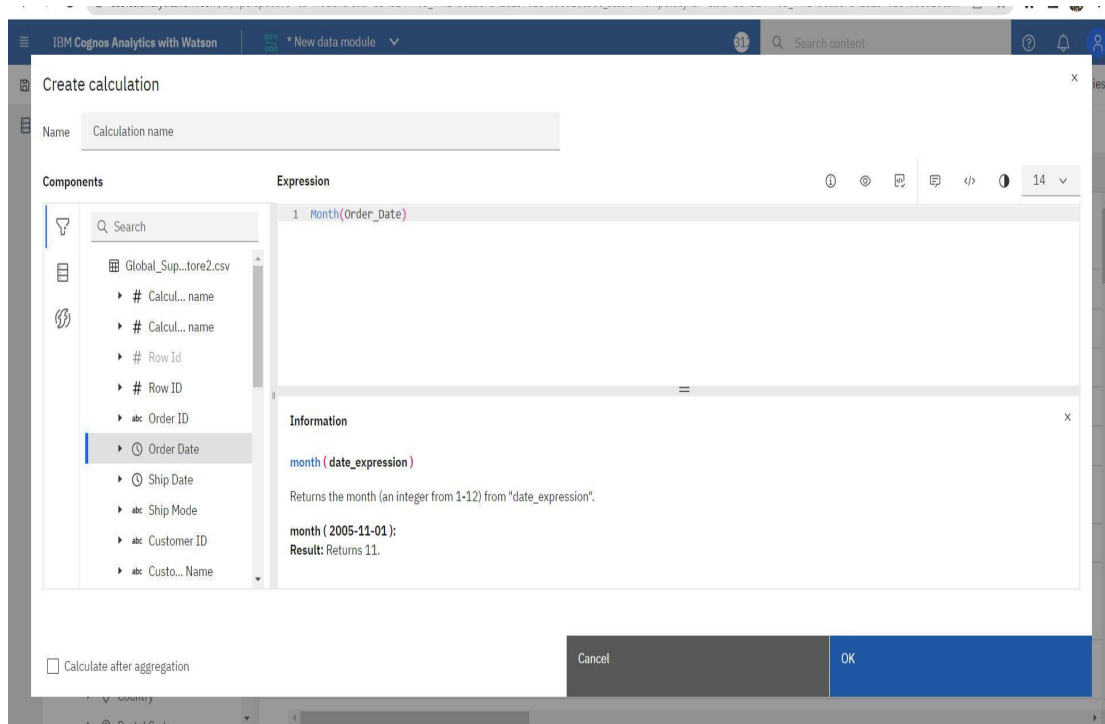
2. Similarly, ‘OrderMonth’, ‘OrderDay’ and ‘All’

OrderYear -> Year (Order_Date)

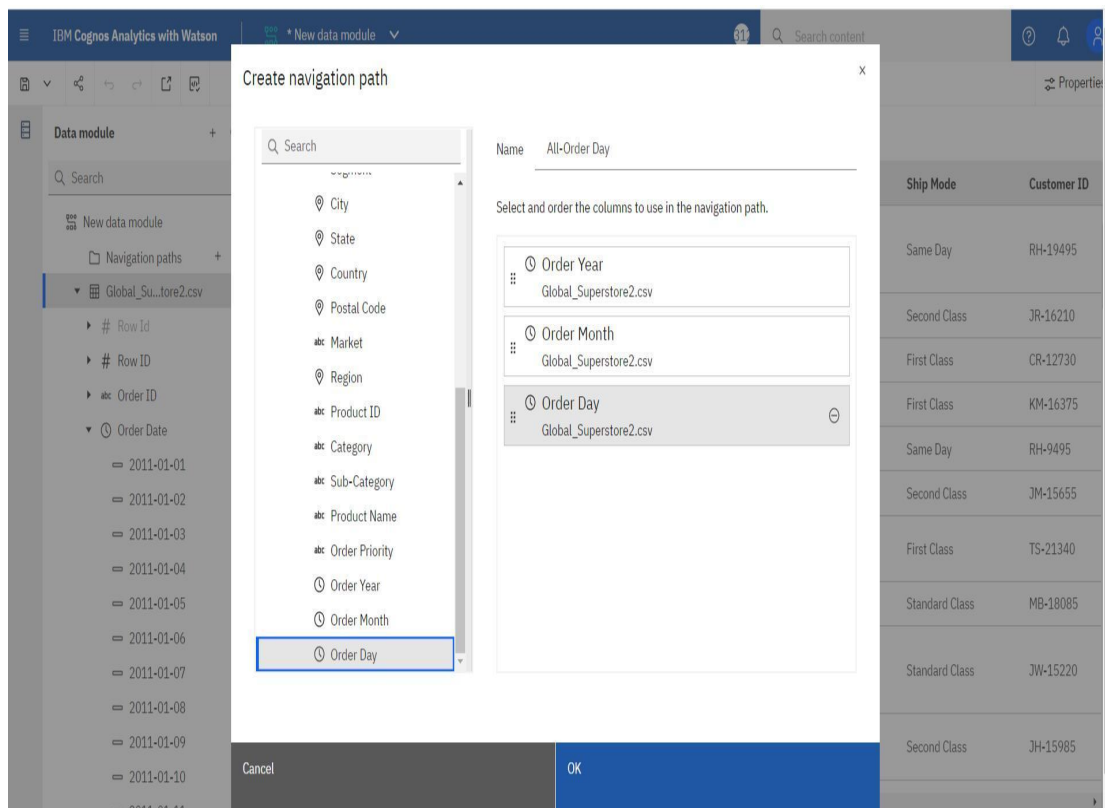
OrderMonth -> Month (Order_Date)

OrderDay -> Day (Order_Date)

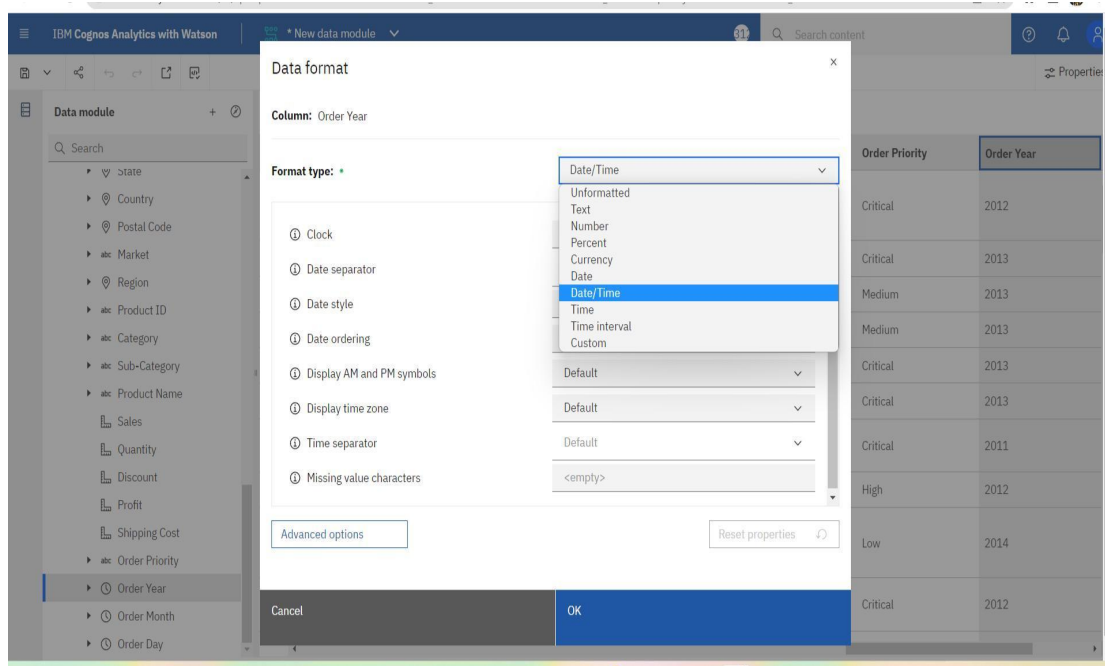
All -> All



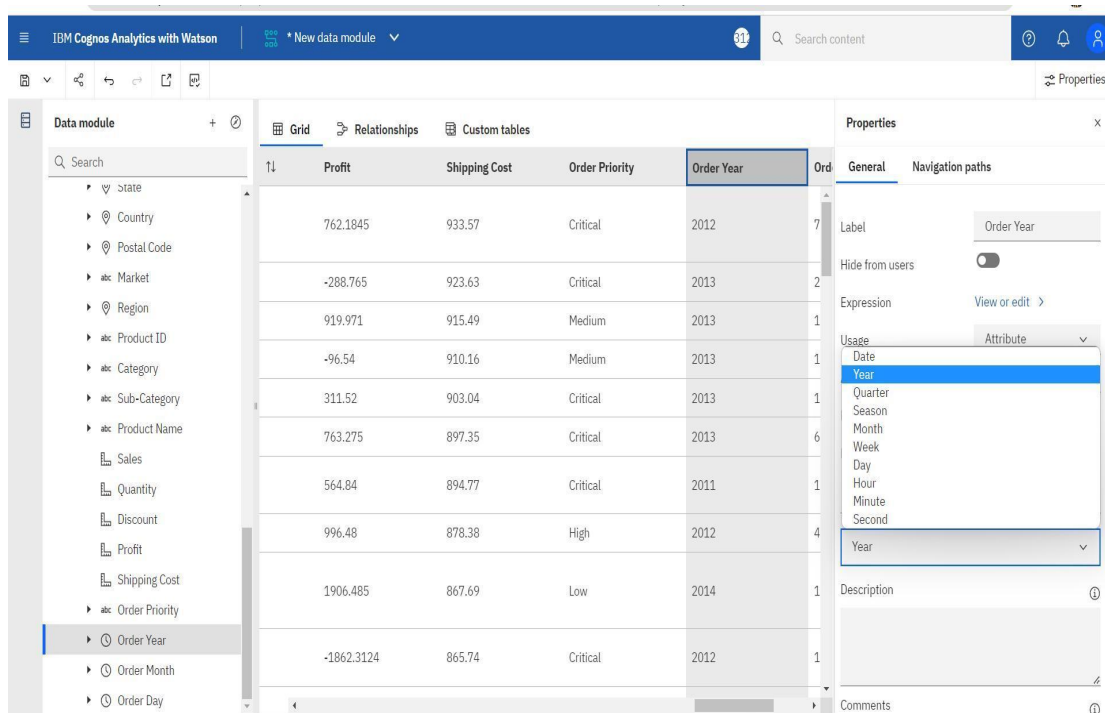
3. Right click on create navigation path



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.

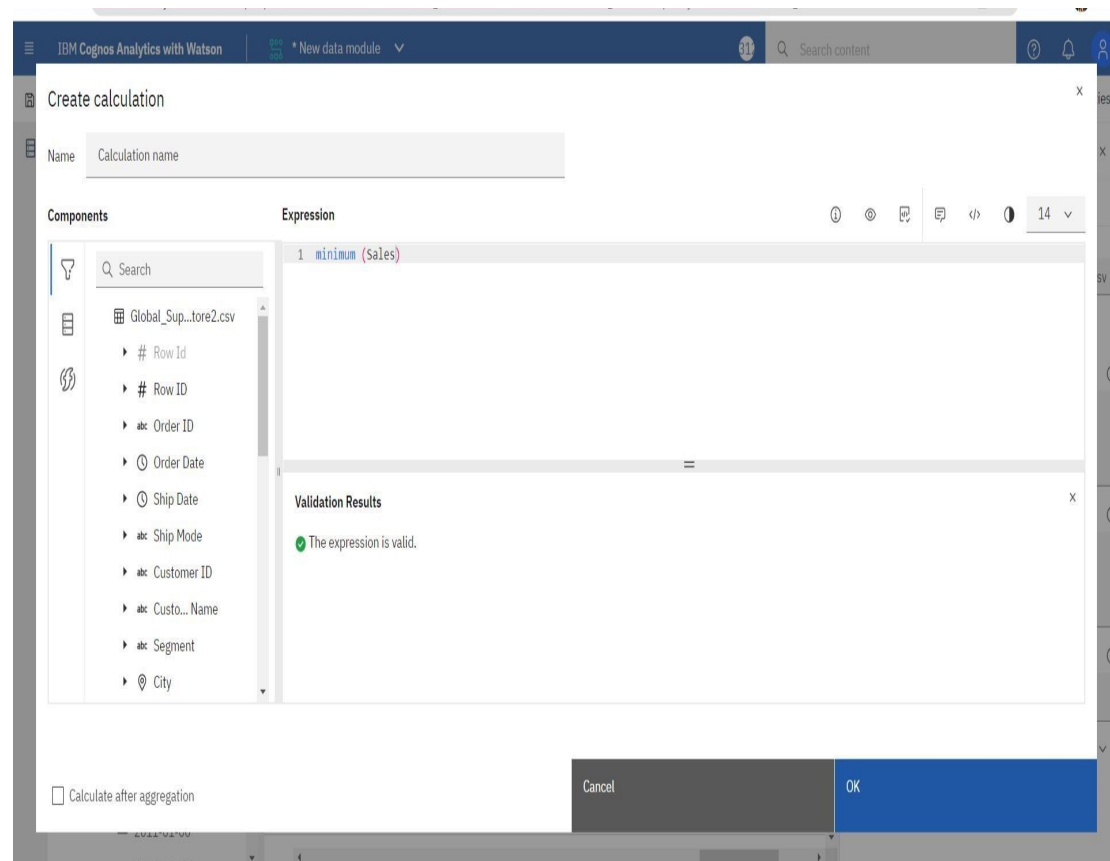
7. Similarly, calculations for Target sales, Min sales, Max Sales and Middle range sales are done

Min sales-> minimum (Sales)

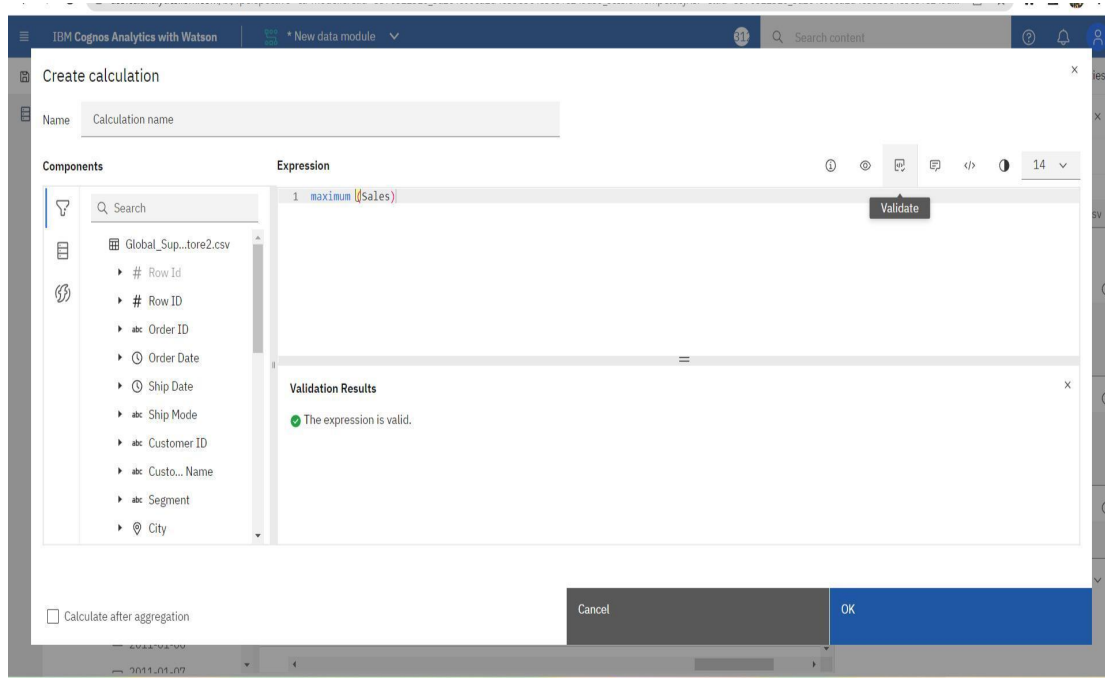
Max sales, Target sales-> maximum (Sales)

Middle range sales-> average (Sales)

Minimum(Sales)



Maximum(Sales)



Middle Range (Sales)

