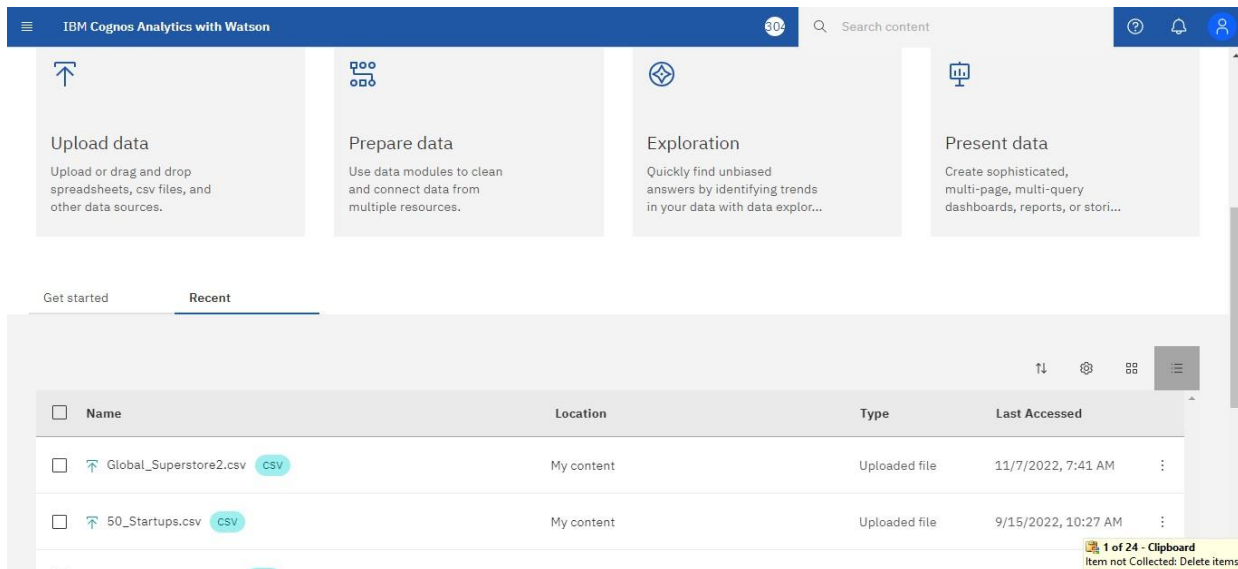


PREPARING THE DATASETS

Team ID	PNT2022TMID34242
Project Name	Global Sales Data Analytics

Data Preparation

(Uploaded DataSet)



DataSet

The screenshot shows the 'Data module' view in IBM Cognos Analytics. The left sidebar contains a search bar and a list of data fields: Row ID, Order ID, Order Date, Ship Date, Ship Mode, Customer ID, Segment, City, State, Country, and Postal Code. The main area displays a grid of data with columns: Row ID, Order ID, Order Date, Ship Date, Ship Mode, and Customer ID. The data is sorted by Row ID in ascending order. The first row shows an order with ID 1, dated 2012-07-11, shipped via 'Same Day' to customer ID 89619495. The grid shows 10 rows of data.

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID
1	CA-2012-124891	2012-07-11	2012-07-11	Same Day	89619495
2	IN-2013-77878	2013-02-05	2013-02-07	Second Class	3816210
3	IN-2013-71244	2013-10-17	2013-10-18	First Class	CR-12930
4	IS-2013-2179342	2013-01-28	2013-01-30	First Class	89616371
5	SO-2013-4030	2013-11-05	2013-11-06	Same Day	89619495
6	IN-2013-42360	2013-06-28	2013-07-01	Second Class	3815655
7	IN-2011-01838	2011-12-07	2011-12-09	First Class	TS-21340
8	IN-2012-86369	2012-04-14	2012-04-18	Standard Class	MB-18385
9	CA-2014-105909	2014-10-14	2014-10-21	Standard Class	3815020
10	CA-2013-116678	2013-05-18	2013-05-19	Standard Class	3815089

We check to see whether there are any null values before we prepare the data.

Properties

Data module

Grid Relationships Custom tables

Search

Order ID

Order Date

Ship Date

Ship Mode

Customer ID

Customer Name

Segment

City

State

Country

Postal Code

Market

Region

Product ID

Category

Sub-Category

Row ID

Row ID

Order ID

Ship Date

Ship Mode

Customer ID

Filter...

Create data group...

Create navigation path...

Split...

Hide from users

Remove

Format data...

Clear...

Sort descending

Sort ascending

Properties

Row ID	Row ID	Order ID	Ship Date	Ship Mode	Customer ID
1	32298	CA	2012-07-31	Same Day	RM-19495
2	26341	RM	2013-02-07	Second Class	RM-16210
3	25130	RM	2013-10-18	First Class	CR-12730
4	13524	ES	2013-01-30	First Class	RM-16375
5	47221	SO	2013-11-06	Same Day	RM-9495
6	22732	RM	2013-07-01	Second Class	RM-15655
7	30570	RM	2011-11-29	First Class	TS-21340
8	31192	RM-2012-06369	2012-04-14	Standard Class	MB-18085
9	40155	CA-2014-139909	2014-10-14	Standard Class	JW-15220
10	25916	CA-2013-116630	2013-05-18	Second Class	RM-15985

IBM Cognos Analytics with Watson

New data module

Search

Data module

Order ID

Order Date

Ship Date

Ship Mode

Customer ID

Customer Name

Segment

City

State

Country

Postal Code

Market

Region

Product ID

Category

Sub-Category

Product Name

Filter - Order ID

Add a filter condition +

Search

AE-2011-9160

AE-2013-1130

AE-2013-1530

AE-2014-2940

AE-2014-3830

AE-2014-4120

AG-2011-1070

AG-2011-1390

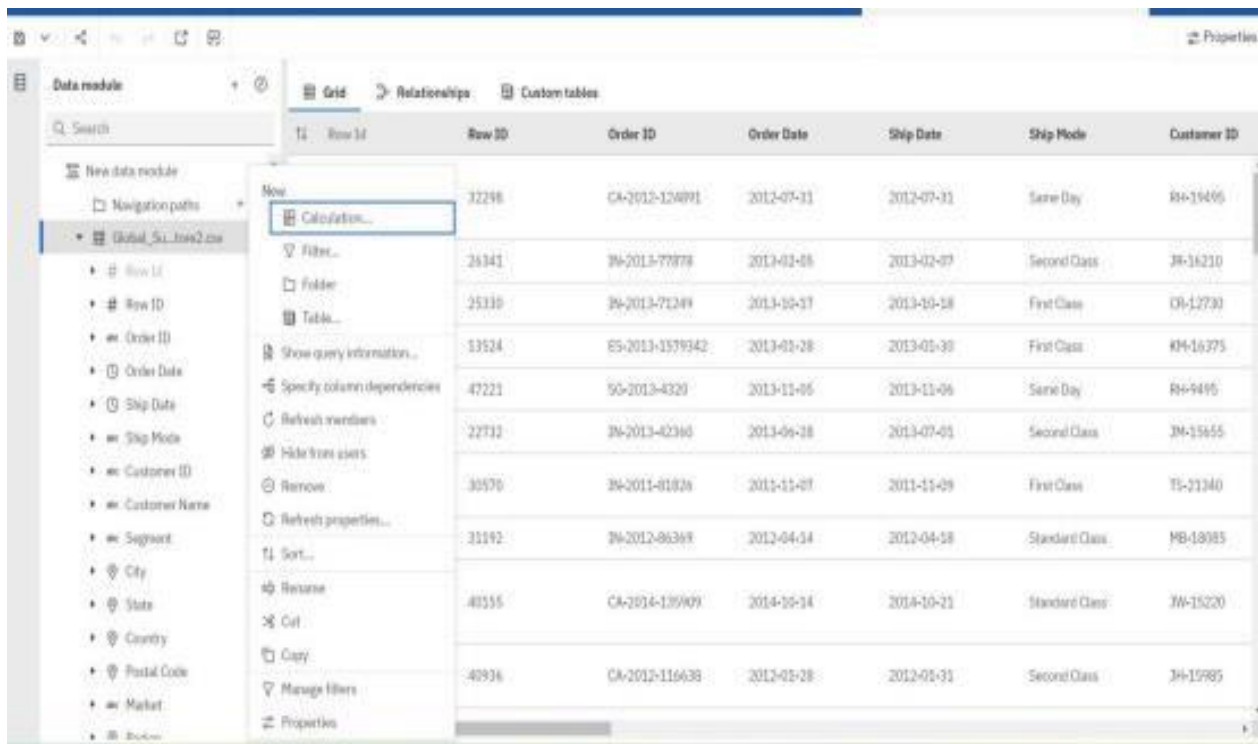
Clear all

Insert

Cancel

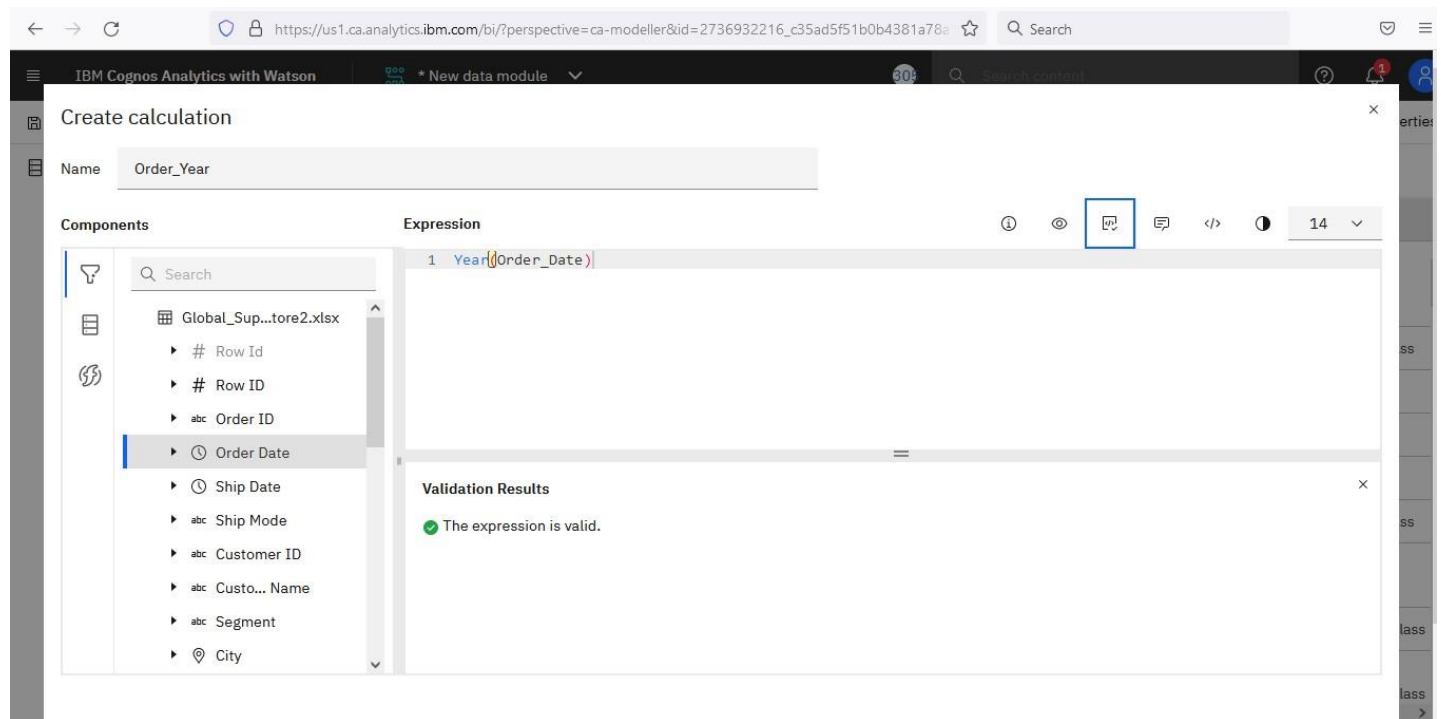
OK

Ship Mode	Customer ID
Same Day	RM-19495
Second Class	RM-16210
First Class	CR-12730
First Class	RM-16375
Same Day	RM-9495
Second Class	RM-15655
First Class	TS-21340
Standard Class	MB-18085
Standard Class	JW-15220
Second Class	RM-15985

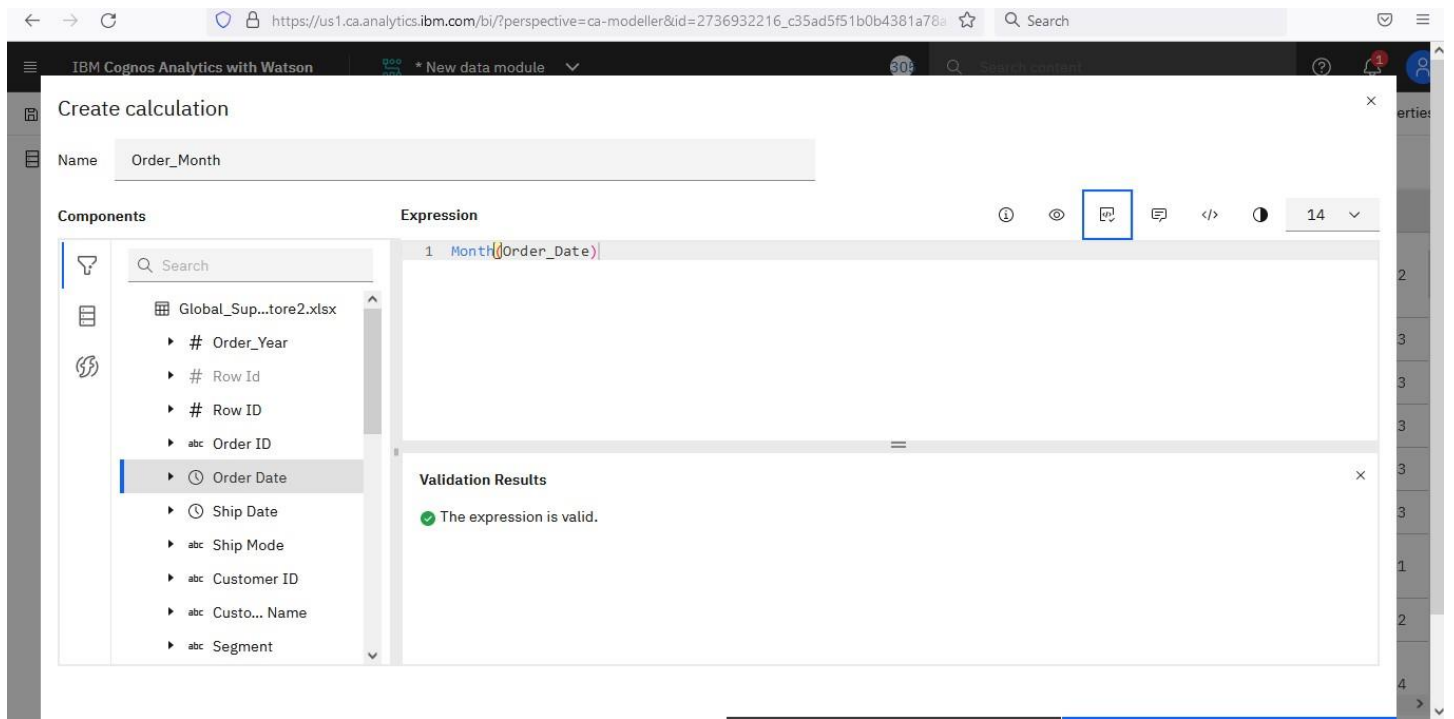


Calculations of Year, Month, Day fields and also the related Navigation path :

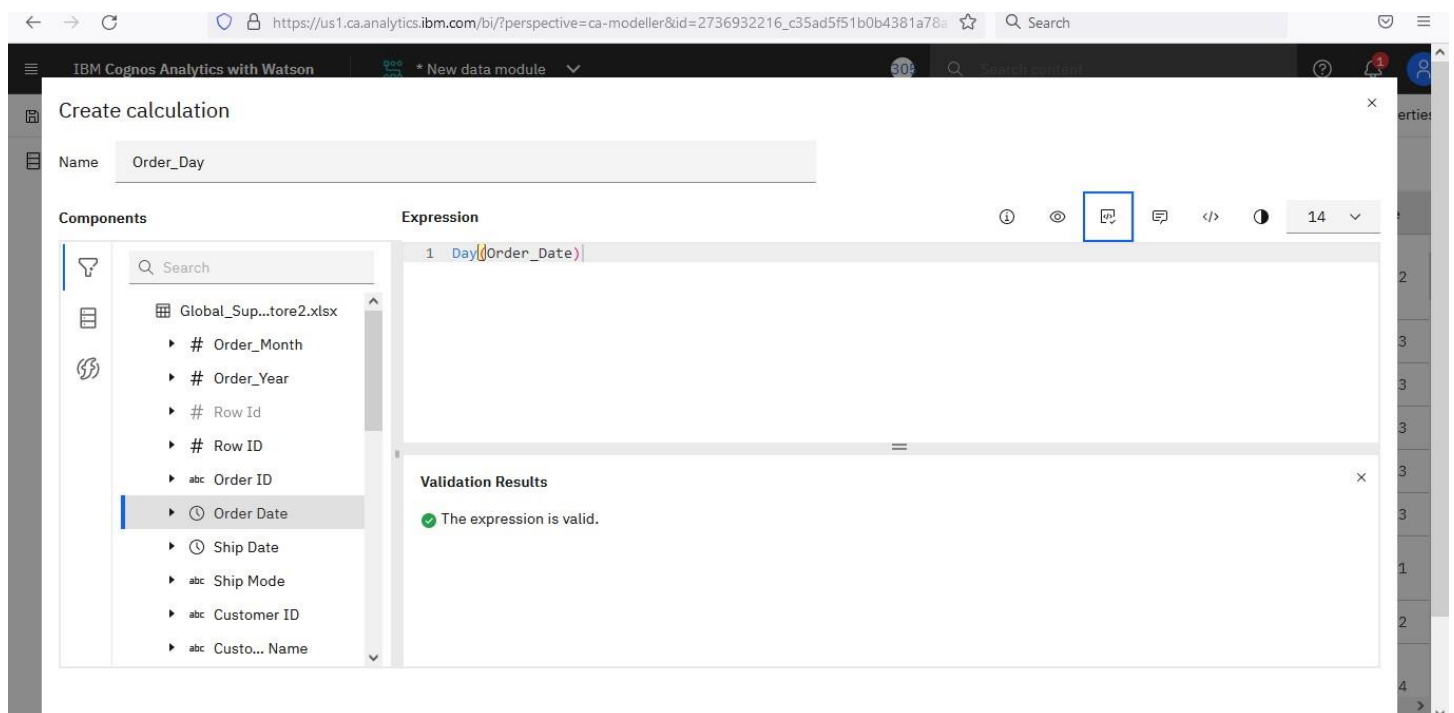
Right click -> calculation -> type expression -> validate -> Set Name as
 ‘Order_Year’



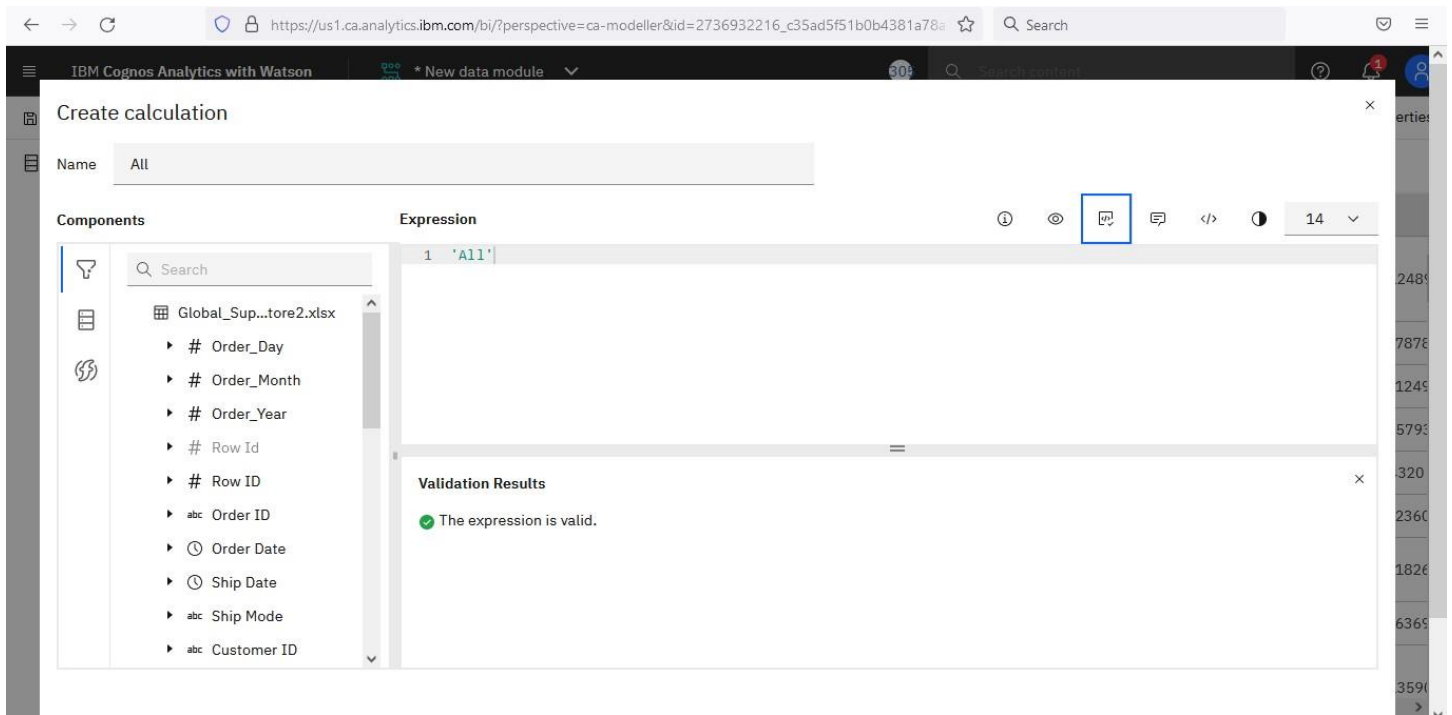
Right click -> calculation -> type expression -> validate -> Set Name as
 ‘Order_Month’



Right click -> calculation -> type expression -> validate -> Set Name as
'Order_Day'



Right click -> calculation -> type expression -> validate -> Set Name as
'All'



Properties -> Usage-> Attribute

Aggregate -> Count Distinct

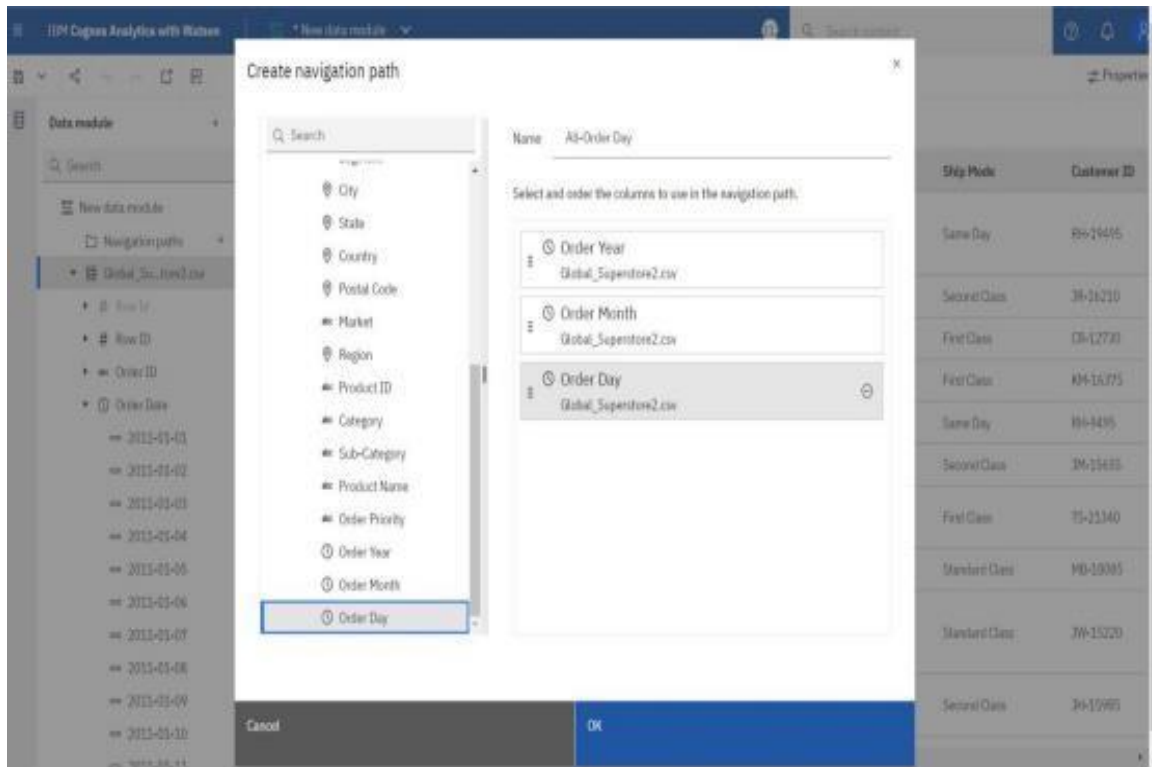
Data Type -> Integer

Represents -> Time, (Year, Month, Day Respectively)

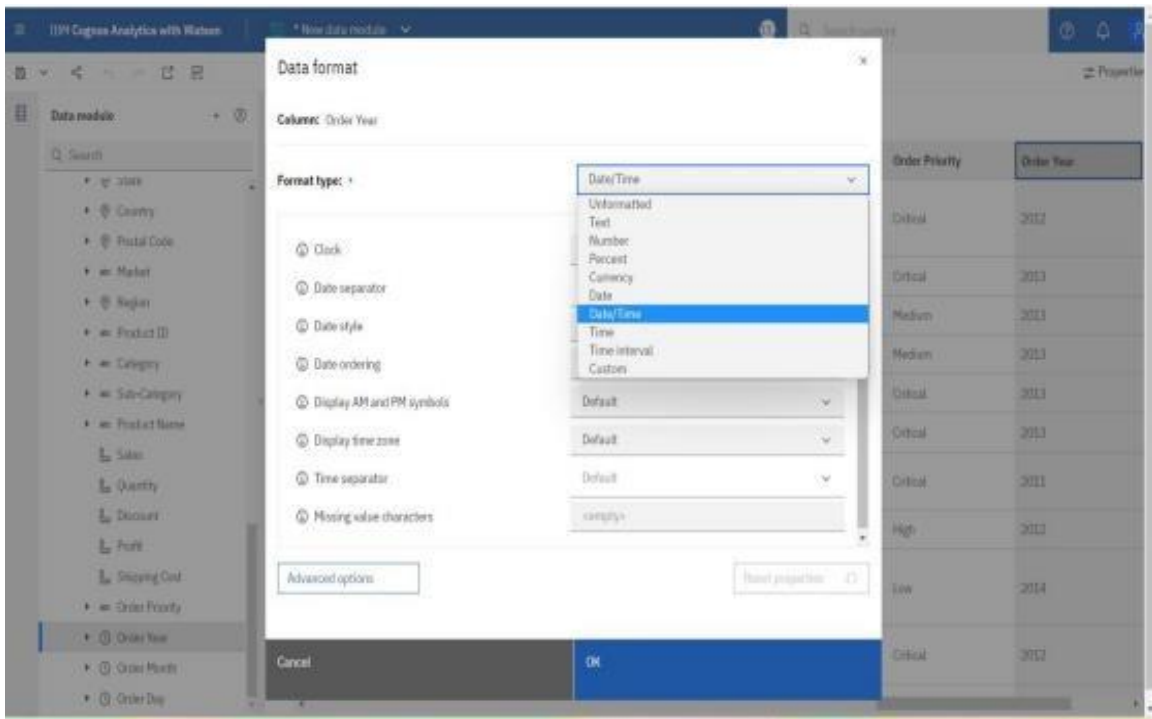
Display Options -> Show Members

This way it becomes a Numerical data Type

Right click on create navigation path



Data format> Date/Time



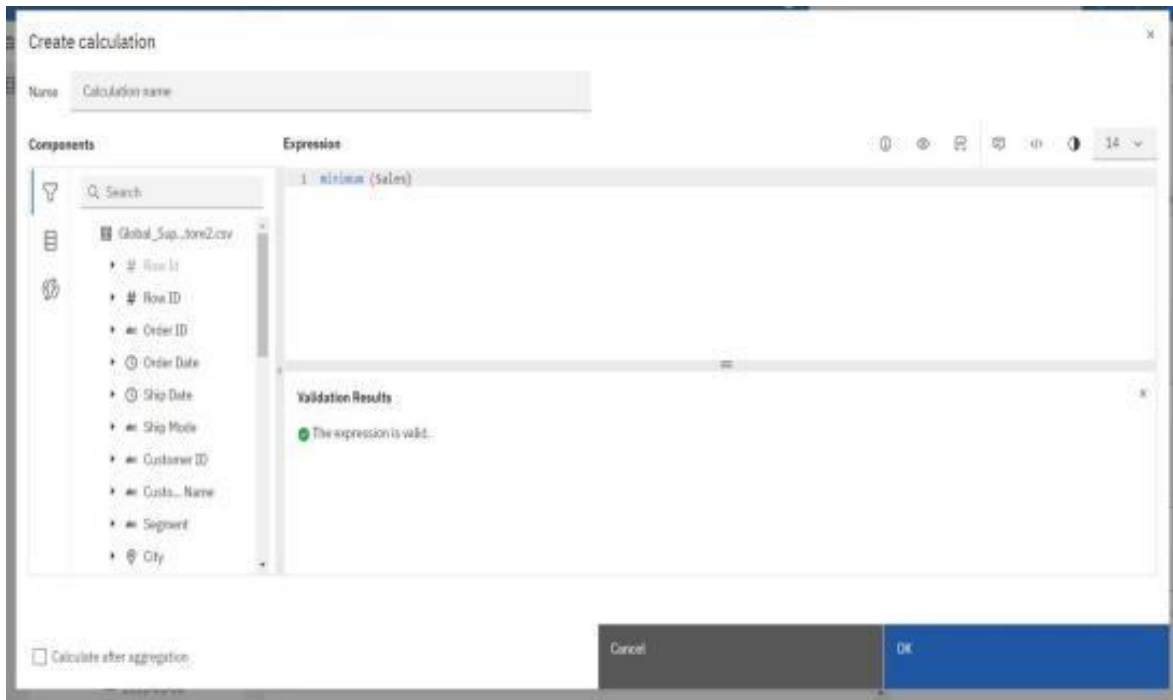
Calculations for Target sales, Min sales, Max Sales and Middle range sales

Min sales -> minimum (Sales)

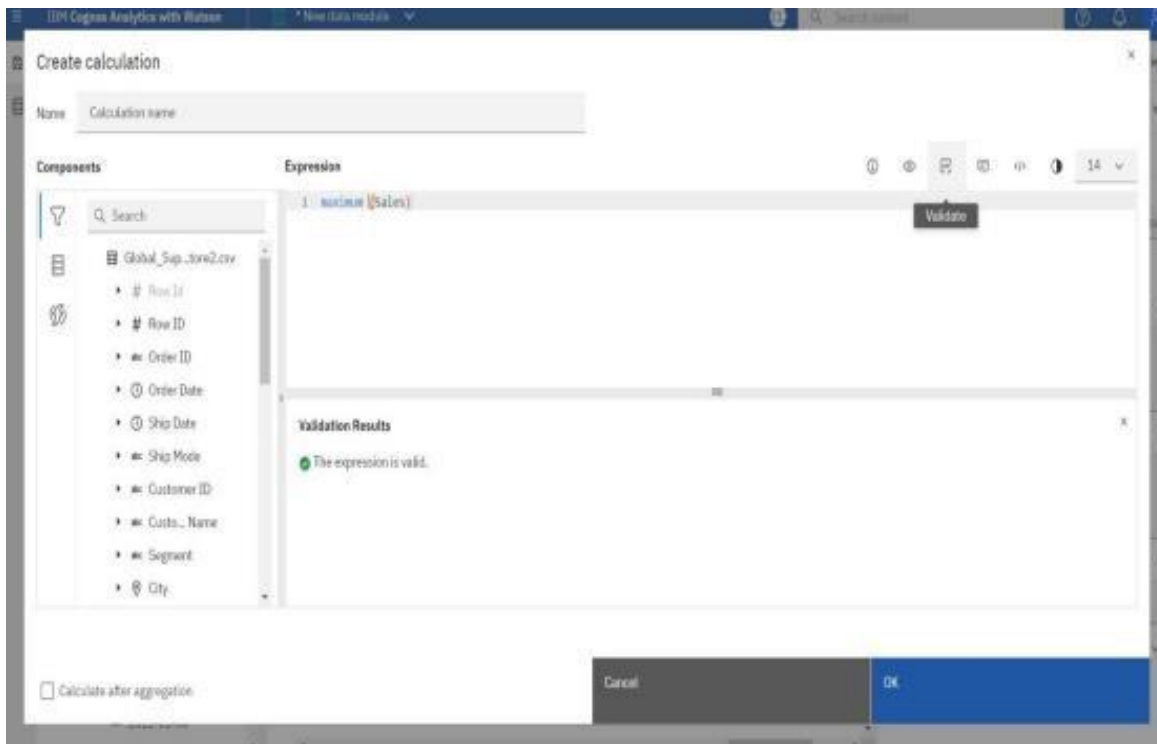
Max sales, Target sales -> maximum (Sales)

Middle range sales -> average (Sales)

Minimum sales :



Maximum Sales :



Middle Range sales :

