

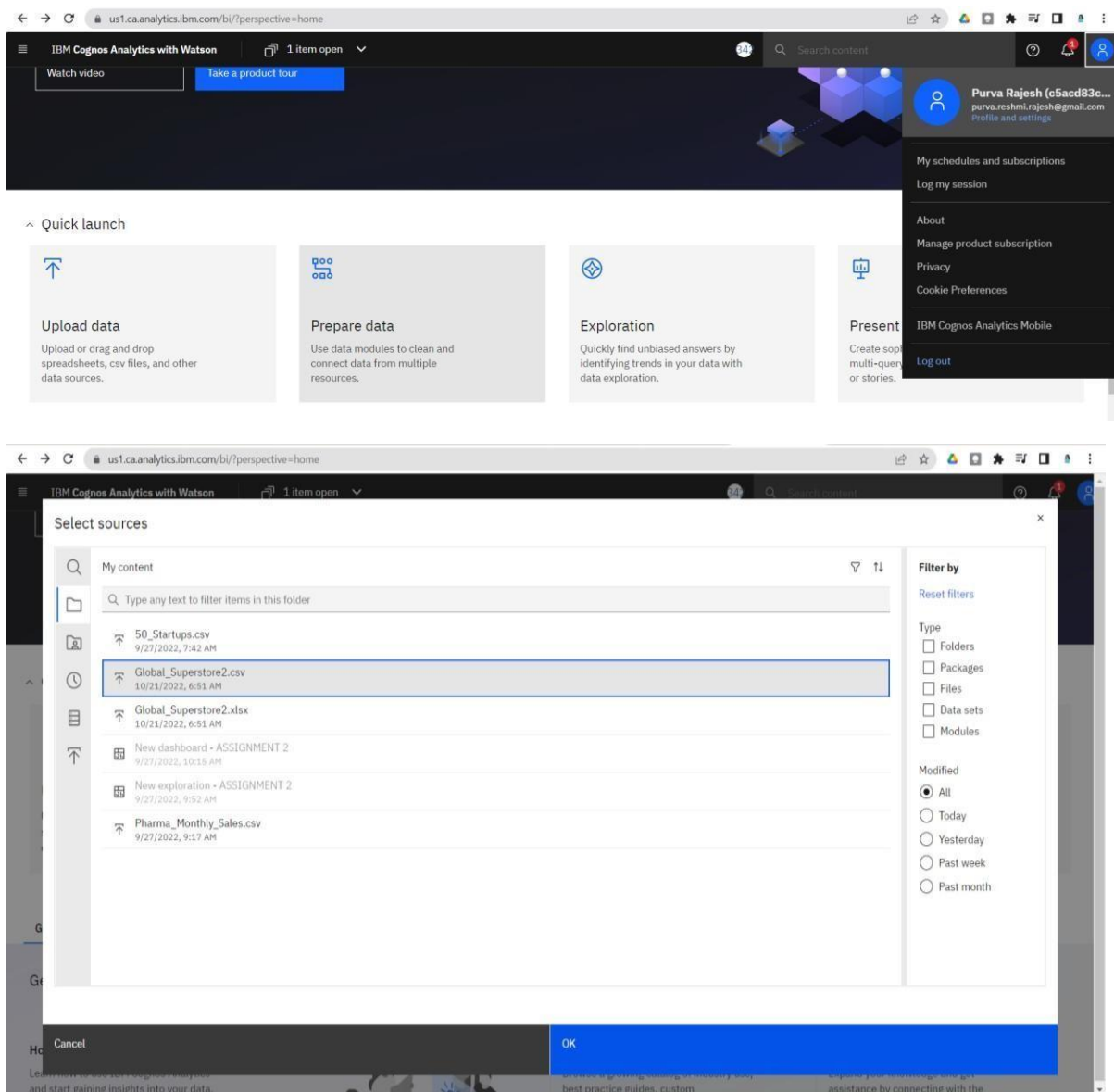
PREPARE THE DATASET

Project: Global Sales Data Analytics

Project: PNT2022TMID46719

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.

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=2878668387_537658f452f44912b59dfc3665c195b2_sessionTemp&objRef=&tid=2878668387_537658f452f44912b5...

IBM Cognos Analytics with Watson

New data module

Search content

Properties

Data module

Grid Relationships Custom tables

Search

New data module

Navigation paths

Global_Su...tore2.csv

- # Row Id
- # Row ID
- abc Order ID
- Order Date
- Ship Date
- abc Ship Mode
- abc Customer ID
- abc Customer Name
- abc Segment
- City
- State
- Country
- Postal Code
- abc Market
- Region
- abc Product ID

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	40936	CA-2012-116638	2012-01-28	2012-01-31	Second Class	JH-15985
11	34577	CA-2011-102988	2011-04-05	2011-04-09	Second Class	GM-14695

3. To Prepare the data, we need to verify that the data does not have any null values. If there are null values, there will be empty data.

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=2878668387_537658f452f44912b59dfc3665c195b2_sessionTemp&objRef=8&tid=2878668387_537658f452f44912b5...

IBM Cognos Analytics with WatsonNew data module

Search

GridRelationshipsCustom tables

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

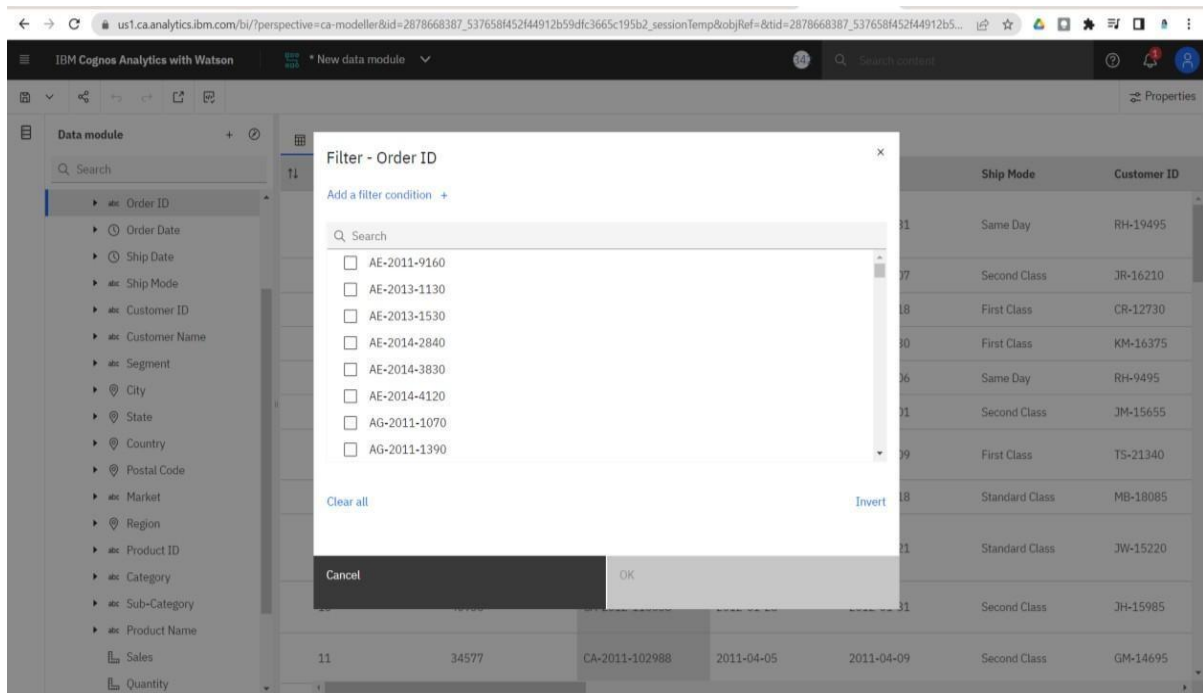
Product Name

Sales

Quantity

Row Id	Row ID	Order ID	Ship Date	Ship Mode	Customer ID	
1	32298	CA-2012-116638	2012-07-31	Same Day	RH-19495	
2	26341	IN-2013-102988	2013-02-07	Second Class	JR-16210	
3	25330	IN-2013-102988	2013-10-18	First Class	CR-12730	
4	13524	ES-2013-102988	2013-01-30	First Class	KM-16375	
5	47221	SG-2013-102988	2013-11-06	Same Day	RH-9495	
6	22732	IN-2013-102988	2013-07-01	Second Class	JM-15655	
7	30570	IN-2011-102988	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	40936	CA-2012-116638	2012-01-28	2012-01-31	Second Class	JH-15985
11	34577	CA-2011-102988	2011-04-05	2011-04-09	Second Class	GM-14695

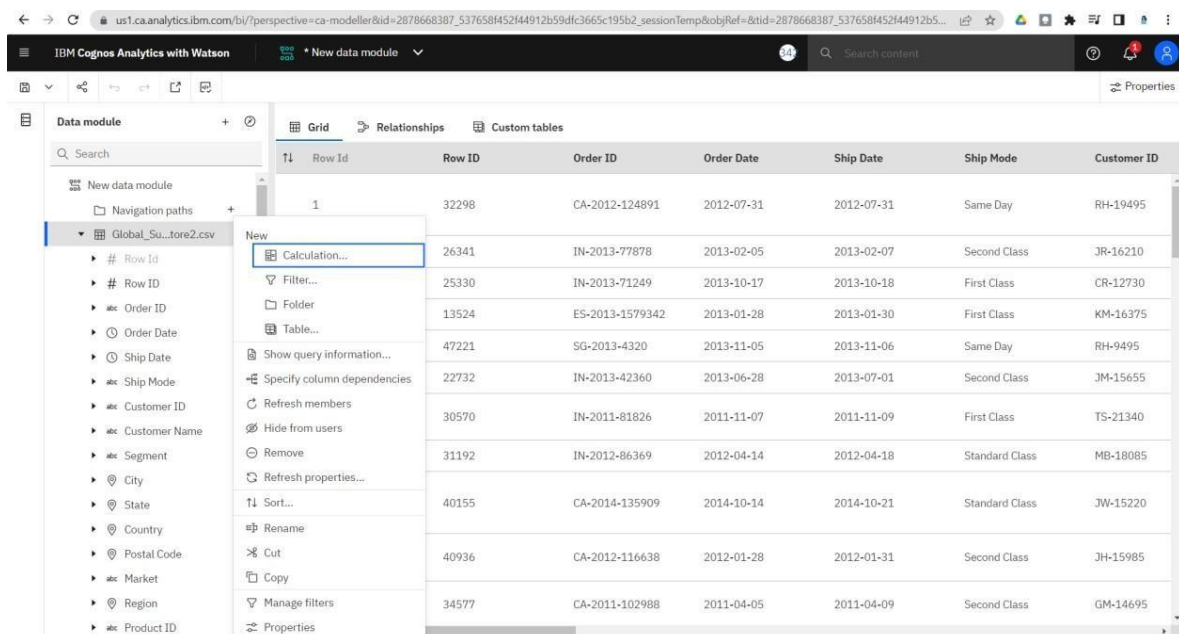
4. Once cleaned, the data is saved:



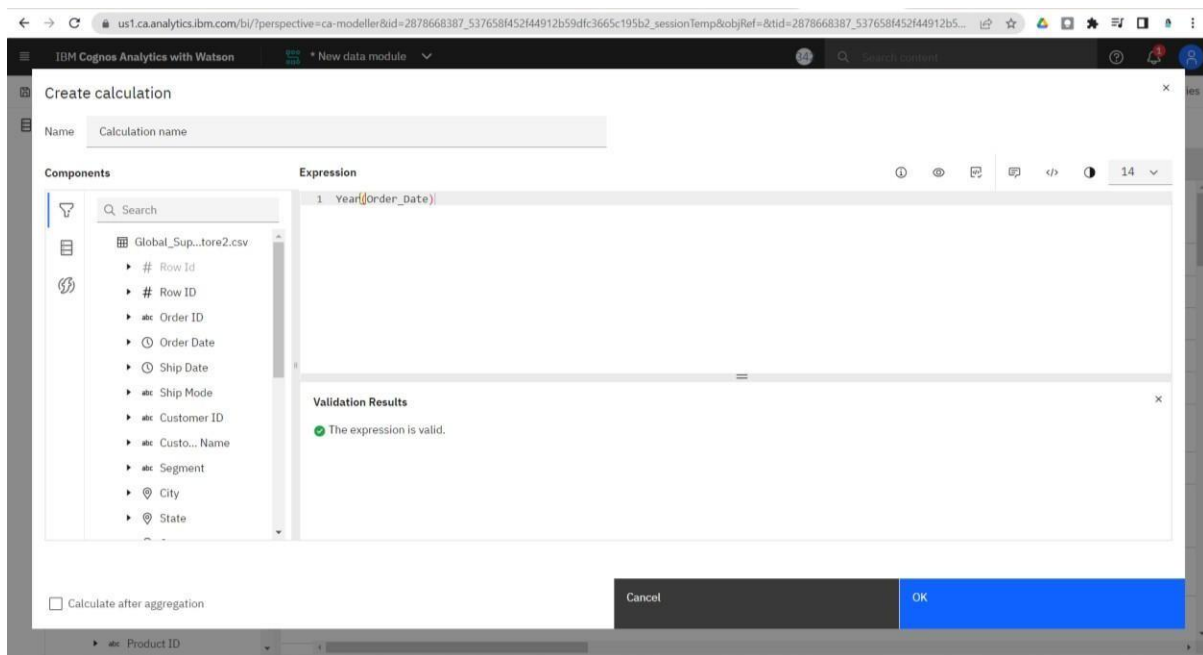
DATE CALCULATIONS AND NAVIGATION PATHS

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

- Prepare Calculations of Year, Month, Day fields and also the related Navigationpath
- 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'



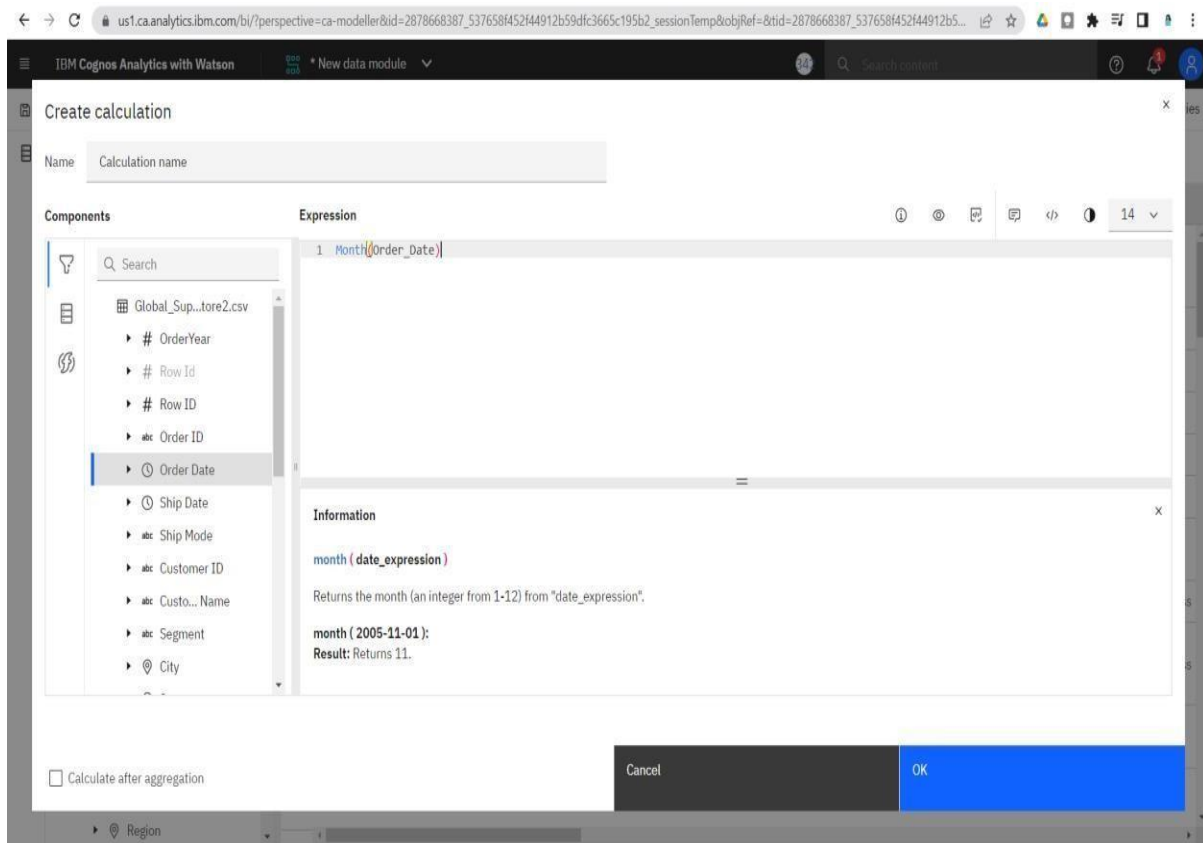
2. Similarly, 'OrderMonth', 'OrderDay' and 'All'

OrderYear -> Year (Order_Date)

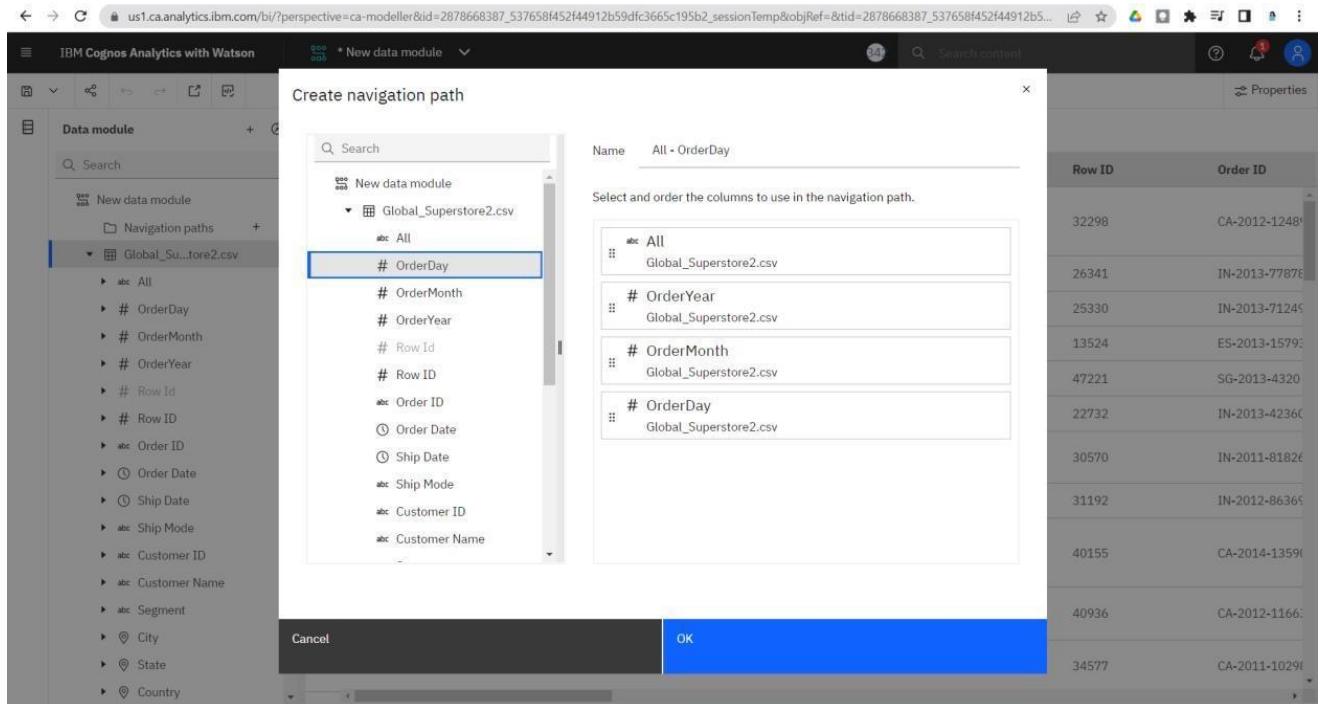
OrderMonth -> Month (Order_Date)

OrderDay -> Day (Order_Date)

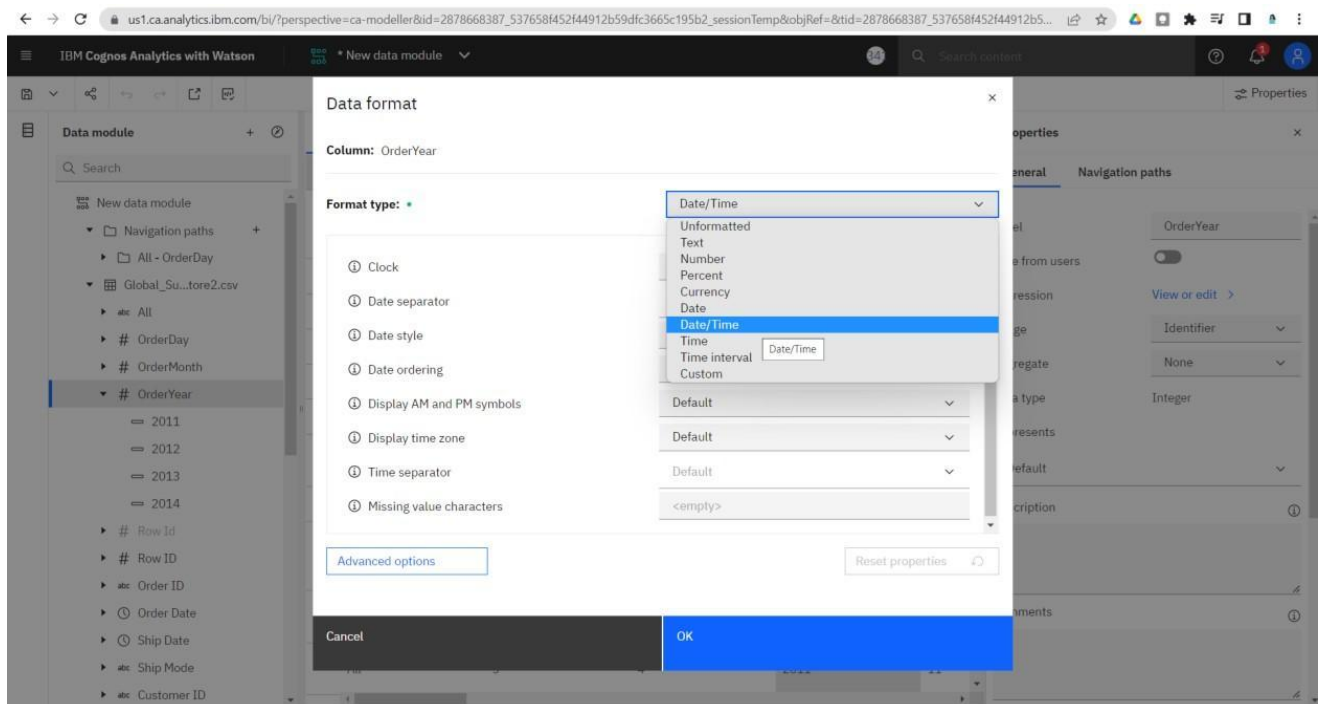
All -> All



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

