

PROJECT DEVELOPMENT PHASE

SPRINT -2

Date	05 November 2022
Team ID	PNT2022TMID48417
Project Name	Project - Global Sales Data Analytics

Dataset:

AutoSaveGlobal_Support2

Search (Alt+Q)

Swapna Swapna

FileHomeInsertPage LayoutFormulasDataReviewViewHelp

Calibri11

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Uploading the dataset:

The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the title "IBM Cognos Analytics with Watson", a search bar, and user profile icons. The main content area features a welcome message "Hello. Welcome to Watson." and a "Watch video" button. Below this, there are four main sections: "Upload data", "Prepare data", "Exploration", and "Present data".

An "Open" file dialog box is overlaid on the "Upload data" section, showing the file "Global_Superstore2.csv" selected in the "Global_Superstore2" folder. The dialog box includes fields for "File name" and "File type" (set to "Custom Files").

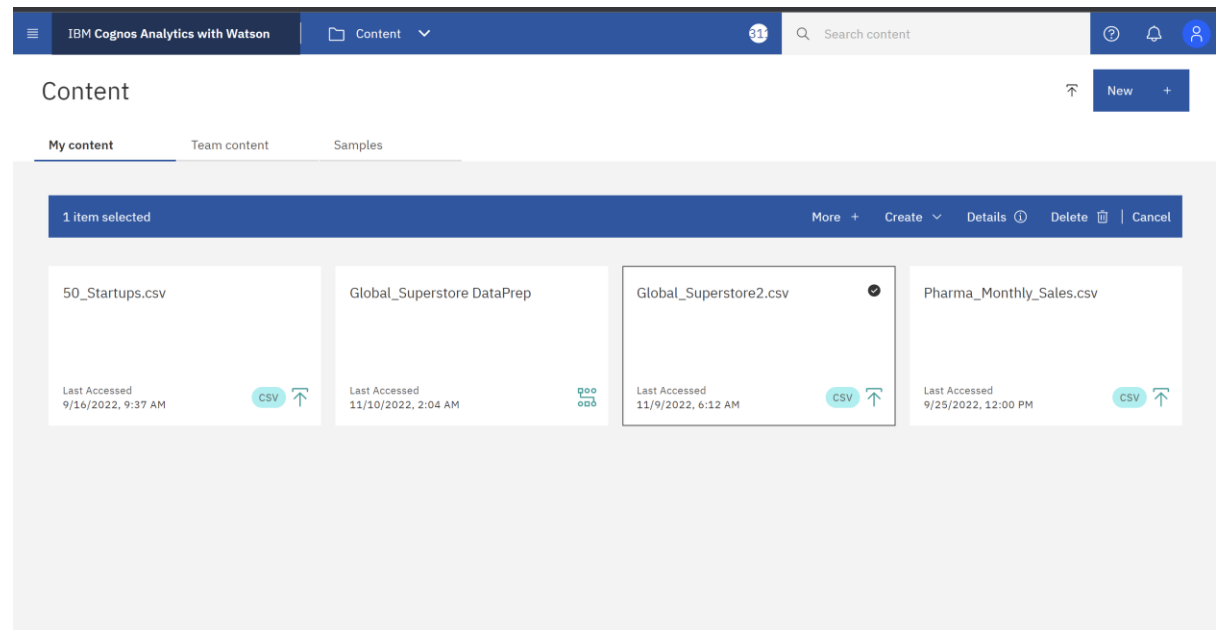
Below the main content area, a "Maintenance" banner indicates "Scheduled maintenance completed. Click More Info for details and to subscribe to future events".

The "Recent" tab is active, displaying a grid of recent items:

Item Name	Last Accessed	File Type
Global_Superstore DataPrep	11/10/2022, 12:37 AM	Google Sheet
Global_Superstore2.csv	11/9/2022, 6:12 AM	CSV
Pharma_sales_dashboard	10/6/2022, 11:15 PM	Dashboard
Template: "Pharma_sales_dashboard"	9/26/2022, 9:03 AM	Template
Pharma_Monthly_Sales.csv	9/25/2022, 12:00 PM	CSV
Area	9/16/2022, 12:02 PM	Chart
scatter	9/16/2022, 11:59 AM	Chart
Radial	9/16/2022, 11:54 AM	Chart

Data Preparation:

- First understand and load the dataset.



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

The screenshot shows the 'Data module' page in IBM Cognos Analytics with Watson. The 'Grid' view is selected, displaying a table of data from the 'Global_Superstore2.csv' file. The table has columns for Row ID, Order ID, Order Date, Ship Date, Ship Mode, and Customer ID. The left sidebar shows the 'Data module' structure with 'Global_Superstore2.csv' selected. The top navigation bar includes the IBM Cognos Analytics with Watson logo, a 'New data module' dropdown, a search bar, and user profile icons. A maintenance message is displayed at the top of the content area.

Maintenance: Scheduled maintenance completed. Click More Info for details and to subscribe to future events

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-2012-116628	2012-01-28	2012-01-31	Second Class	JH-15085

- 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.

IBM Cognos Analytics with Watson | * New data module

Maintenance: Scheduled maintenance completed. Click More Info for details and to subscribe to future events

Search content

Dismiss More info

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	Order Date	Ship Date	Ship Mode	Customer ID
1	32298	CA-2012-116638	2012-01-28	2012-01-31	Same Day	RH-19495
2	26341	IN-2012-116638	2012-01-28	2012-01-31	Second Class	JR-16210
3	25330	IN-2012-116638	2012-01-28	2012-01-31	First Class	CR-12730
4	13524	ES-2012-116638	2012-01-28	2012-01-31	First Class	KM-16375
5	47221	SG-2012-116638	2012-01-28	2012-01-31	Same Day	RH-9495
6	22732	IN-2012-116638	2012-01-28	2012-01-31	Second Class	JM-15655
7	30570	IN-2012-116638	2012-01-28	2012-01-31	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

Filter...

Create data group...

Create navigation path...

Split...

Hide from users

Remove

Format data...

Clean...

Sort descending

Sort ascending

Properties

IBM Cognos Analytics with Watson | * New data module

Search content

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

Product Name

Filter - Order ID

Add a filter condition +

Search

AE-2011-9160

AE-2013-1130

AE-2013-1530

AE-2014-2840

AE-2014-3830

AE-2014-4120

AG-2011-1070

AG-2011-1390

Clear all

Invert

Cancel

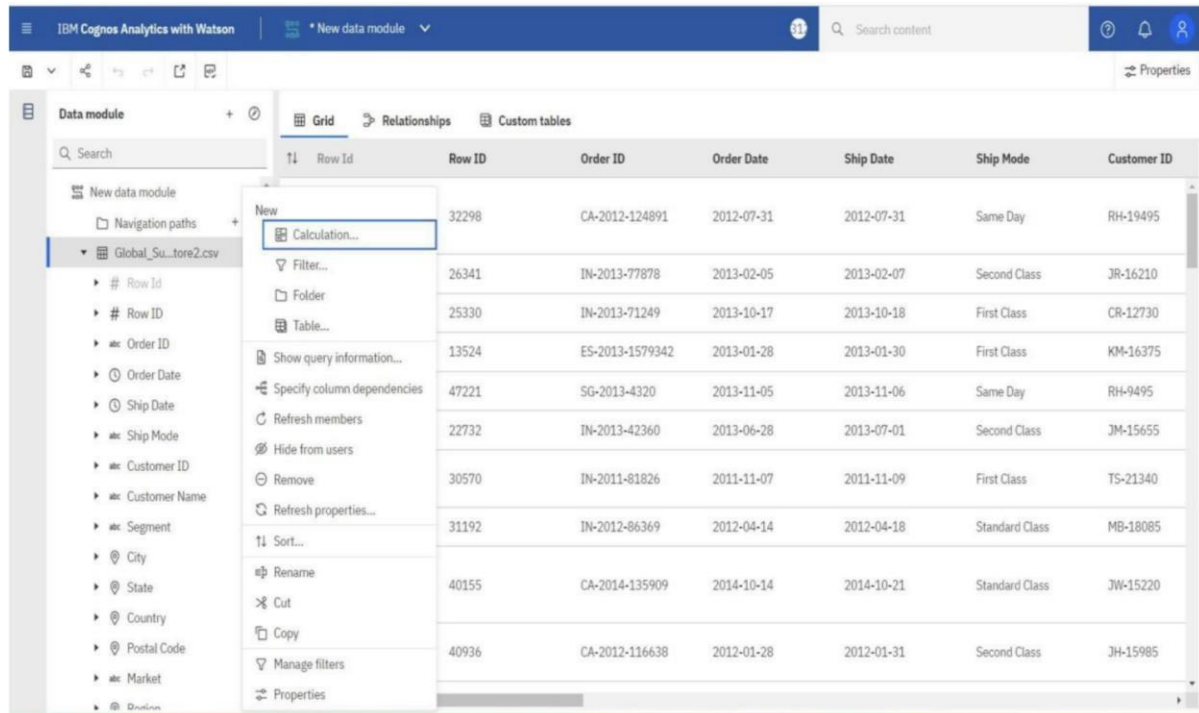
OK

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

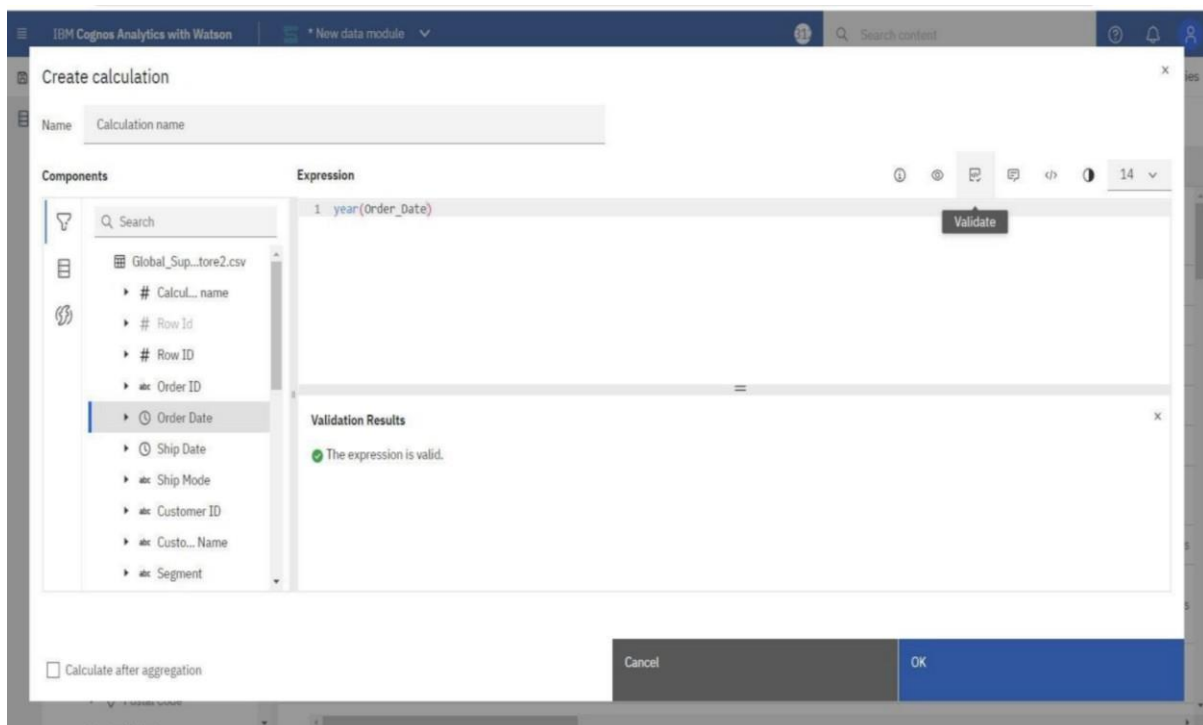
- Once cleaned save the data.

Data calculations and navigation paths:

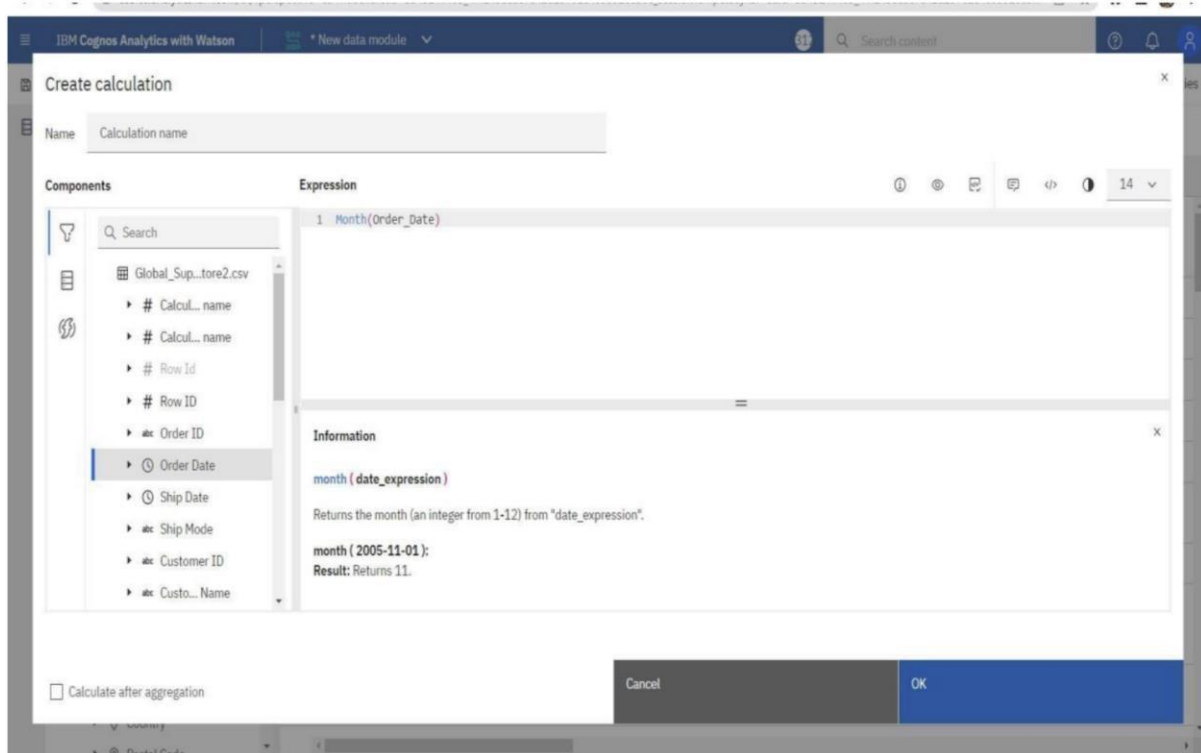
- Once you load the data, we need to prepare the data.
- Prepare calculations of year, month, day fields and also related navigation paths.
- Create a few more calculations – Target sales, Min sales, Max sales, Middle Range sales.



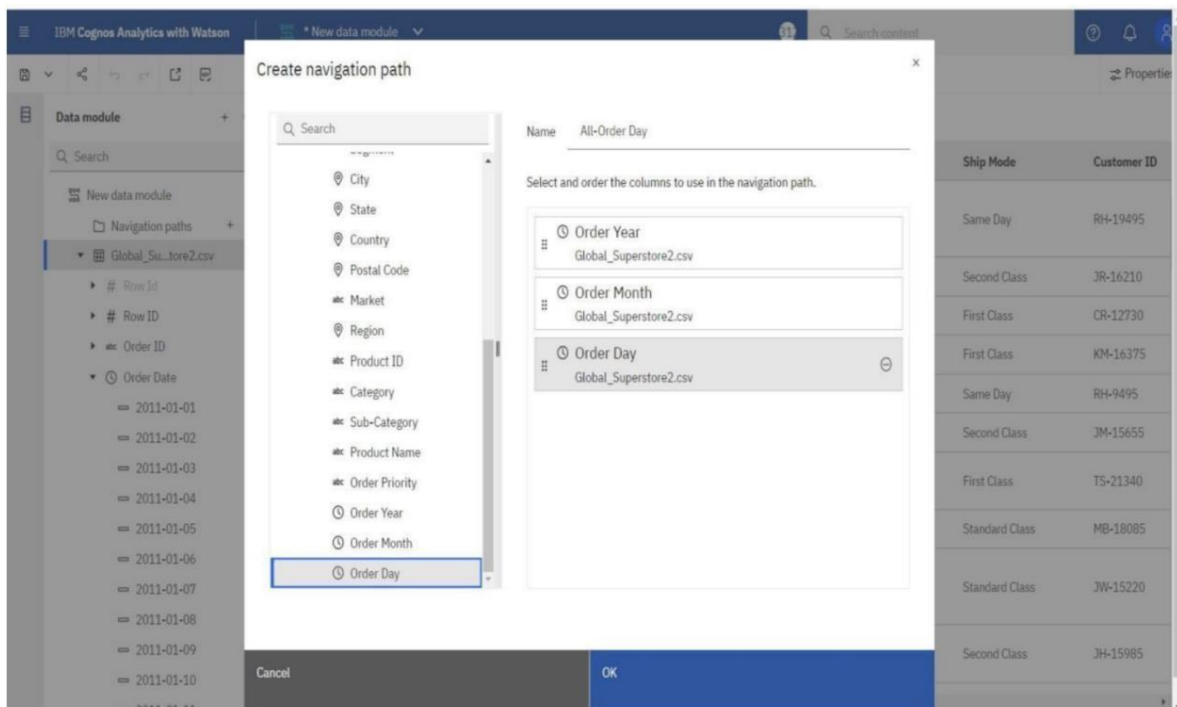
- Right click -> calculation -> type expression -> validate -> set new name as Order Year.



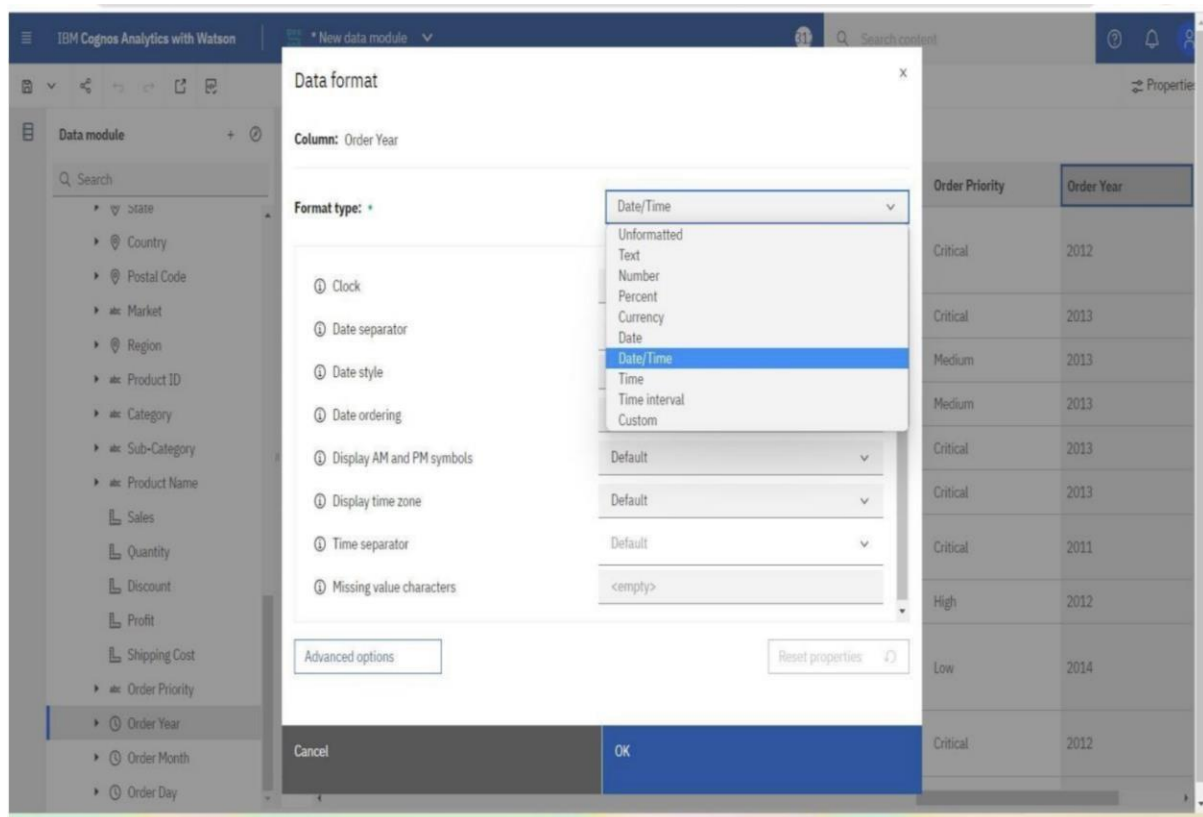
- Similarly, 'Order Month', 'Order Day' and 'All'.



- Right click on create navigation path.



- Data format -> date/Time



- 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

The screenshot displays the IBM Cognos Analytics with Watson interface. The top navigation bar includes the IBM logo, the text "IBM Cognos Analytics with Watson", a "New data module" dropdown, a search bar, and user profile icons. The main workspace is divided into three sections: a "Data module" on the left, a central "Grid" view, and a "Properties" panel on the right.

The "Data module" section shows a search bar and a list of data fields including State, Country, Postal Code, Market, Region, Product ID, Category, Sub-Category, Product Name, Sales, Quantity, Discount, Profit, Shipping Cost, Order Priority, Order Year, Order Month, and Order Day. The "Grid" view displays a table with columns: Profit, Shipping Cost, Order Priority, Order Year, and an unlabeled column. The table contains 10 rows of data. The "Properties" panel on the right shows the "General" tab for the "Order Year" field. It includes a "Label" dropdown set to "Order Year", a "Hide from users" toggle, an "Expression" field with a "View or edit" link, a "Usage" dropdown set to "Date", and a "Description" field.

Profit	Shipping Cost	Order Priority	Order Year	
762.1845	933.57	Critical	2012	7
-288.765	923.63	Critical	2013	2
919.971	915.49	Medium	2013	1
-96.54	910.16	Medium	2013	1
311.52	903.04	Critical	2013	1
763.275	897.35	Critical	2013	6
564.84	894.77	Critical	2011	1
996.48	878.38	High	2012	4
1906.485	867.69	Low	2014	1
-1862.3124	865.74	Critical	2012	1

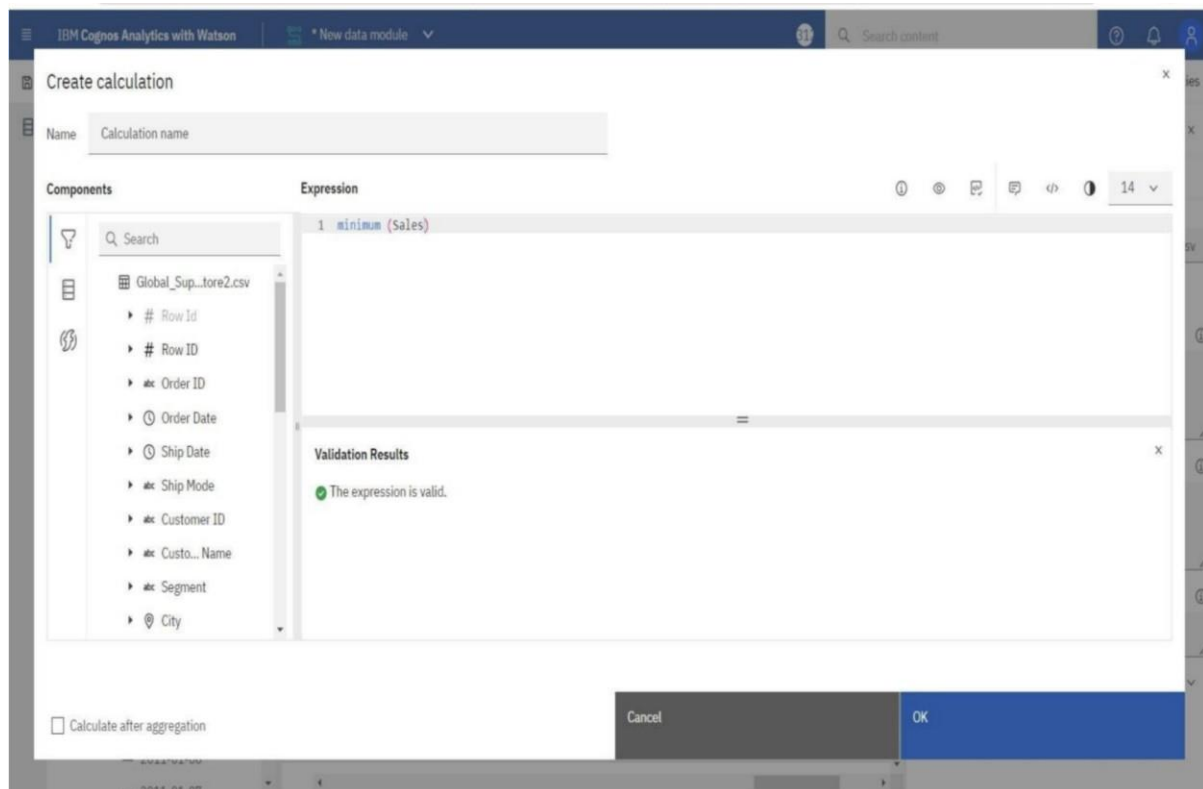
- Hence calculations for day , month and year are completed.
- Similarly calculations for Target sales, Min sales, Max sales And Middle range sales are done.

Min sales -> Minimum(sales)

Max sales, Target sales -> Maximum(sales)

Middle range sales -> Average (sales)

Minumum(sales)



Maximum(sales)

IBM Cognos Analytics with Watson

* New data module

Search content

Create calculation

Name: Calculation name

Components

- Global_Sup...tore2.csv
 - # Row Id
 - # Row ID
 - abc Order ID
 - Order Date
 - Ship Date
 - Ship Mode
 - Customer ID
 - Custo... Name
 - Segment
 - City

Expression

1 maximum(sales)

Validate

Validation Results

The expression is valid.

☐ Calculate after aggregation

Cancel OK

Middle Range(sales)

The screenshot shows the 'Create calculation' dialog box in IBM Cognos Analytics. The dialog has a title bar with 'IBM Cognos Analytics with Watson' and a search bar. Below the title bar, there's a 'Name' field with the placeholder text 'Calculation name'. The main area is divided into two panes: 'Components' on the left and 'Expression' on the right. The 'Components' pane shows a list of fields from the 'Global_Sup...tore2.csv' data source, including 'Row Id', 'Order ID', 'Order Date', 'Ship Date', 'Ship Mode', 'Customer ID', 'Custo... Name', 'Segment', and 'City'. The 'Expression' pane shows the expression '1 average ([Sales])' with a 'Validate' button. Below the expression pane, there's a 'Validation Results' section that displays a green checkmark and the message 'The expression is valid.' At the bottom of the dialog, there's a checkbox labeled 'Calculate after aggregation' which is currently unchecked. To the right of the checkbox are 'Cancel' and 'OK' buttons.

IBM Cognos Analytics with Watson

* New data module

Search content

Create calculation

Name: Calculation name

Components

Global_Sup...tore2.csv

- # Row Id
- # Row ID
- # Order ID
- # Order Date
- # Ship Date
- # Ship Mode
- # Customer ID
- # Custo... Name
- # Segment
- # City

Expression

1 average ([Sales])

Validate

Validation Results

The expression is valid.

☐ Calculate after aggregation

Cancel OK