

Project Development Phase

Sprint 2

Date	03 November 2022
Team ID	PNT2022TMID00545
Project Name	Global Sales Data Analytics

Sprint 2 tasks:

- Connecting data from IBM cloud to IBM cognos
- Connecting schema and table
- Data visualization
- Prepare the dataset
 - Data Joins
 - Data calculations
 - Data navigation
 - Data formatting
- Creating Dashboard

Connecting data from IBM cloud to IBM cognos:

The screenshot displays the IBM Cognos Analytics with Watson web application. The browser's address bar shows the URL `us1.ca.analytics.ibm.com/bi/?perspective=home`. The page header includes the title "IBM Cognos Analytics with Watson", a search bar, and user profile icons. A blue banner at the top of the main content area states: "Maintenance: Scheduled maintenance completed. Click More Info for details and to subscribe to future events".

On the left side, a sidebar menu is open, showing "Data server connections". Below this, a table lists the connected data sources:

Name	Modified
Global sales	11/14/2022 5:54 AM
Weather Company	3/31/2022 8:44 PM

The main content area features a large header image with the text "Analytics with" and "roduction video, product tour". Below this, there are three prominent tiles for data management:

- data**: Modules to clean and transform data from various sources.
- Exploration**: Quickly find unbiased answers by identifying trends.
- Present data**: Create sophisticated, multi-page, multi-query dashboards.

Connecting schema and table:

The screenshot shows the IBM Cognos Analytics with Watson interface. The browser address bar displays `us1.ca.analytics.ibm.com/bi/?perspective=home`. A maintenance banner at the top states: "Maintenance: Scheduled maintenance completed. Click More Info for details and to subscribe to future events". On the left, a sidebar titled "Data server connections" contains a table with two entries:

Name	Modified
Global sales	11/14/2022 5:54 AM
Weather Company	3/31/2022 8:44 PM

The main content area features a large header image with the text "Analytics with" and "roduction video, product tour". Below this, there are three cards: "data" (modules to clean it data from), "Exploration" (Quickly find unbiased answers by identifying trends), and "Present data" (Create sophisticated, multi-page, multi-query dashboards, reports, or stories).

The screenshot shows the IBM Cognos Analytics with Watson interface, specifically the "Global sales" connection details. The browser address bar displays `us1.ca.analytics.ibm.com/bi/?perspective=home`. The interface is divided into two main sections: "Global sales" (left) and "Global sales" (right).

The left section shows the "Global sales" connection details, including the owner (DHAR ... 92b706), creation date (11/14/2022, 5:54 AM), modification date (11/14/2022, 5:54 AM), and type (Data Server). It also has tabs for "General", "Connections", and "Permissions".

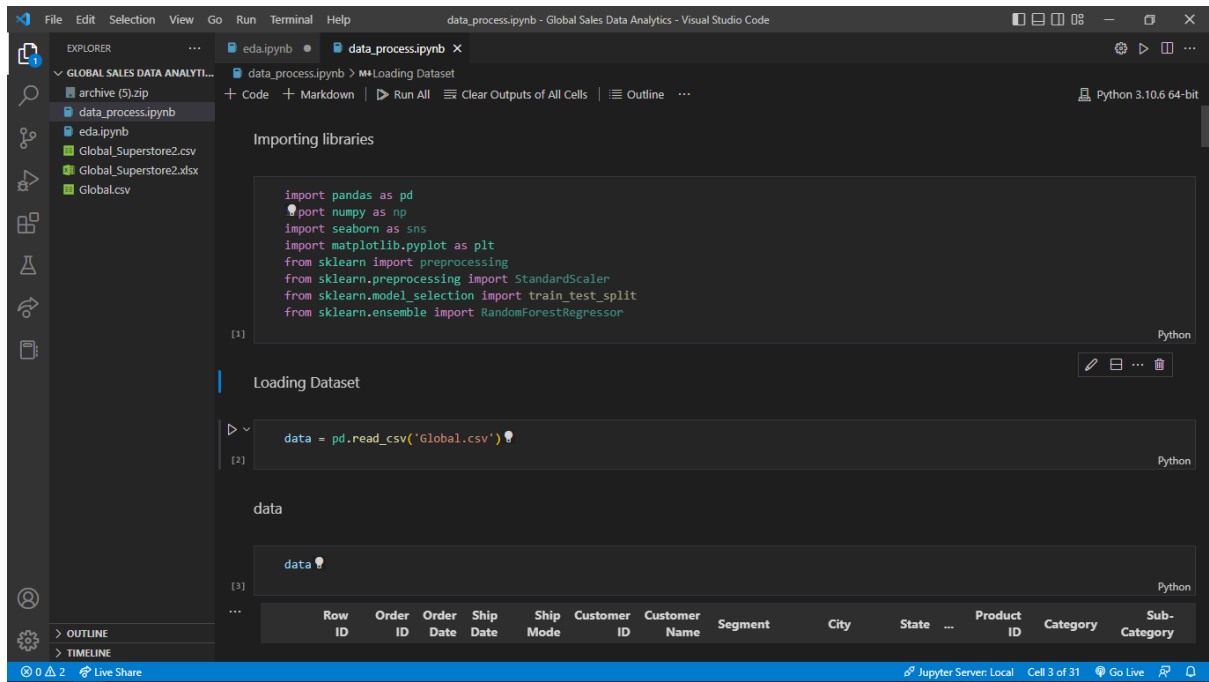
The right section shows the "Global sales" connection details, including the owner (DHAR ... 92b706), creation date (11/14/2022, 5:54 AM), modification date (11/14/2022, 7:25 AM), and type (Connection). It also has tabs for "General", "Settings", "Schemas", and "Permissions".

The "Settings" tab is active, showing the "Authentication method" section with the following options:

- ☒ Connect anonymously
- ☐ Prompt for the user ID and password
- ☐ Use an external namespace
- ☐ Use the following signon:

Below the authentication method, there is a "Test" button and a "Success" status indicator. A "Save" button is also present.

Data visualization:

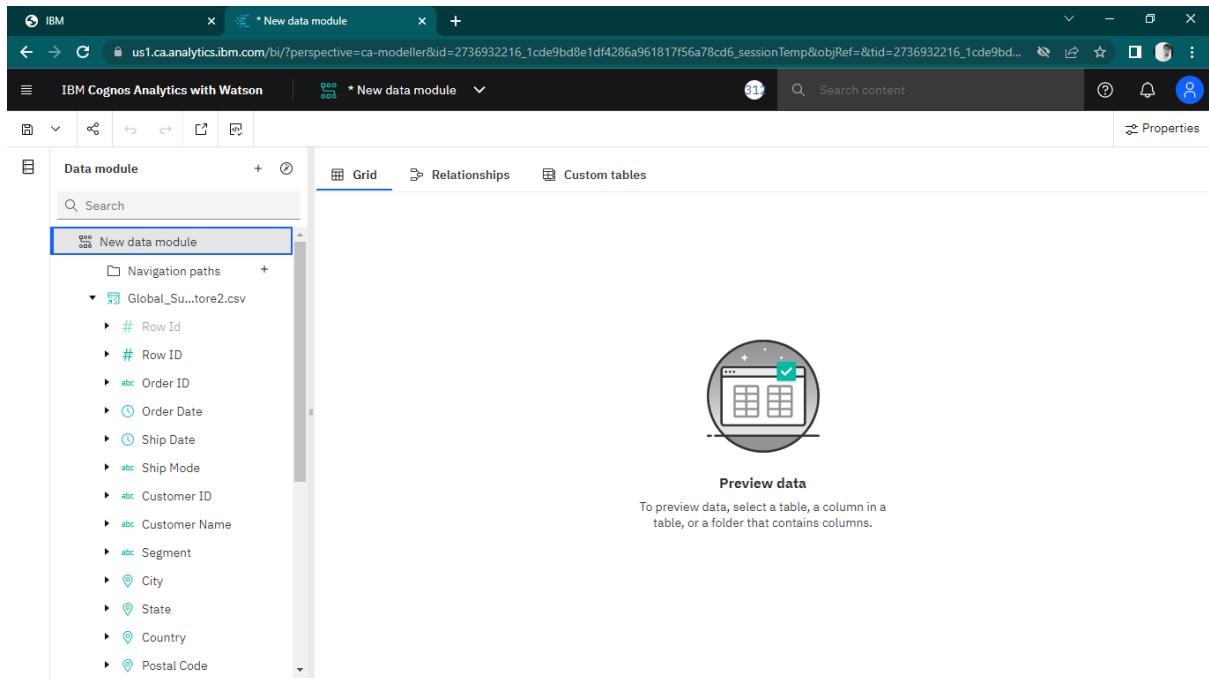


Prepare the dataset:

Understanding rows and columns of the data.

a. Data Joins:

Analysing that the dataset module requires joins.

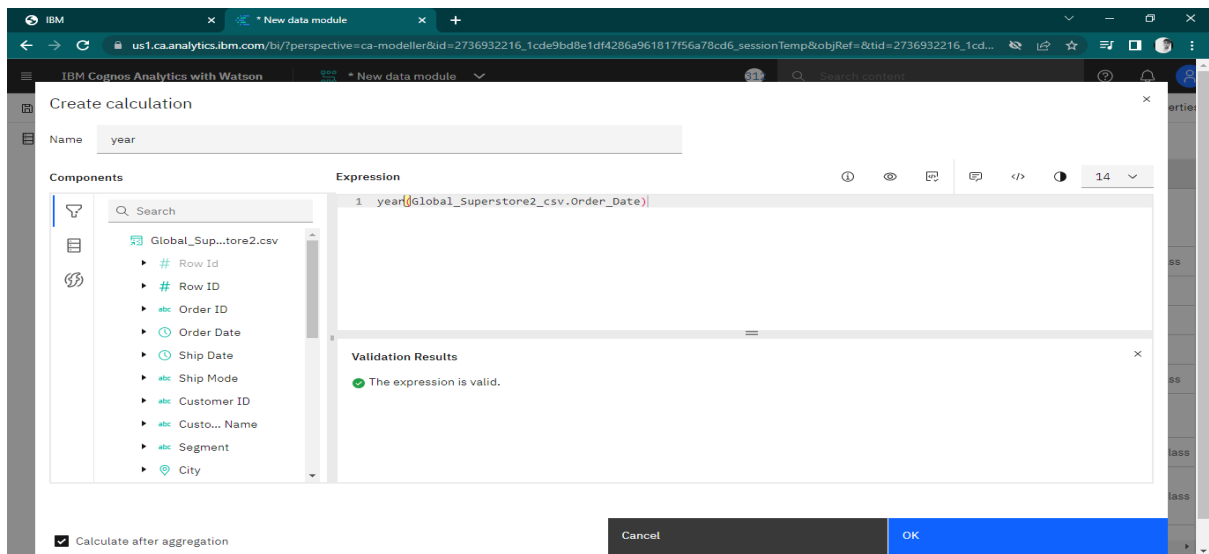


b. Data Calculations:

Creating calculations for extracting year, month and day from order date column.

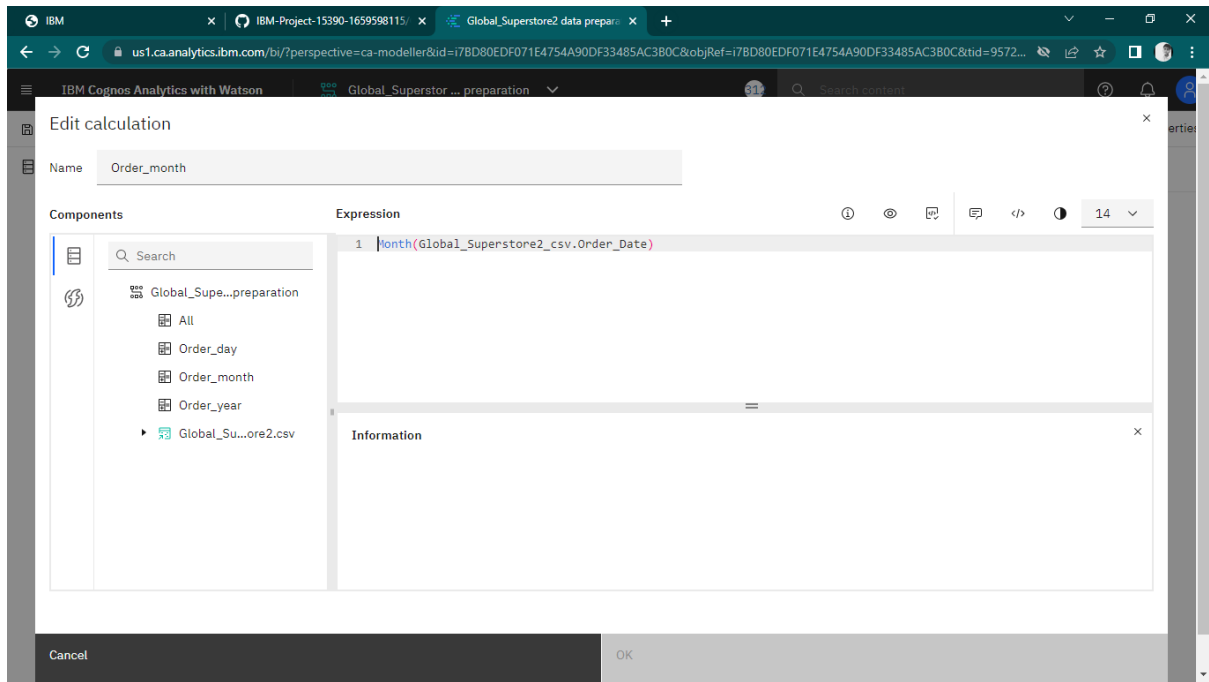
1. Year calculation

Creating calculations for extracting year from order date column.



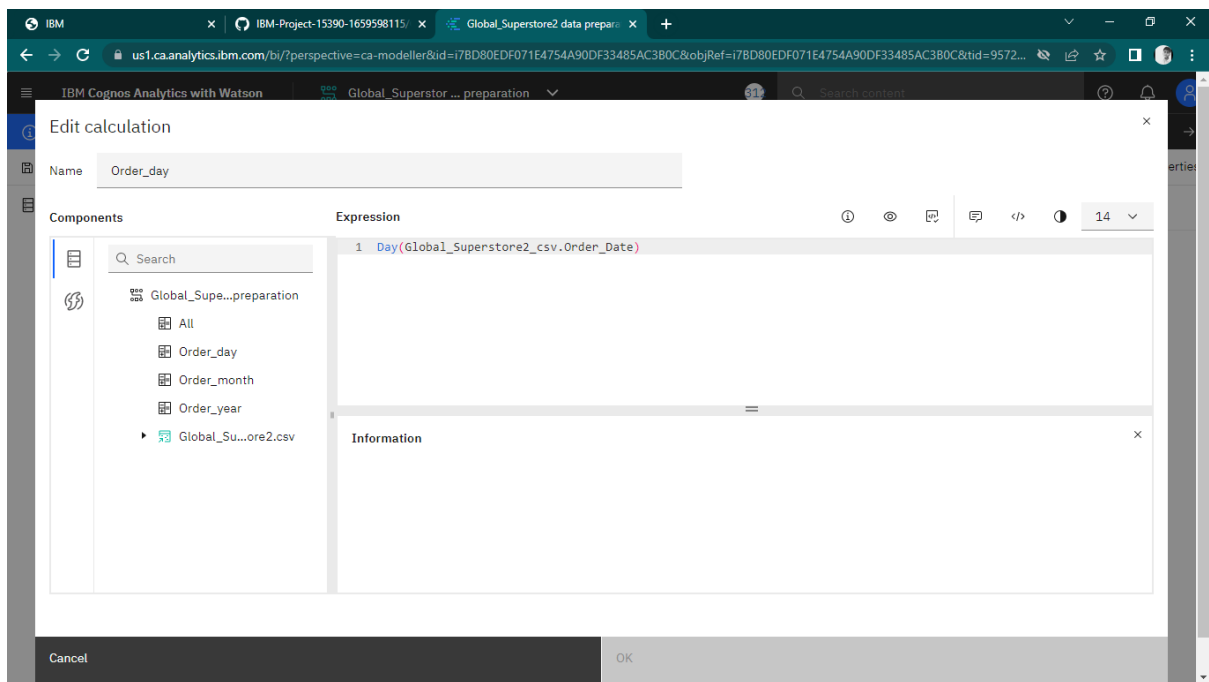
2. Month calculation

Creating calculations for extracting month from order date column.



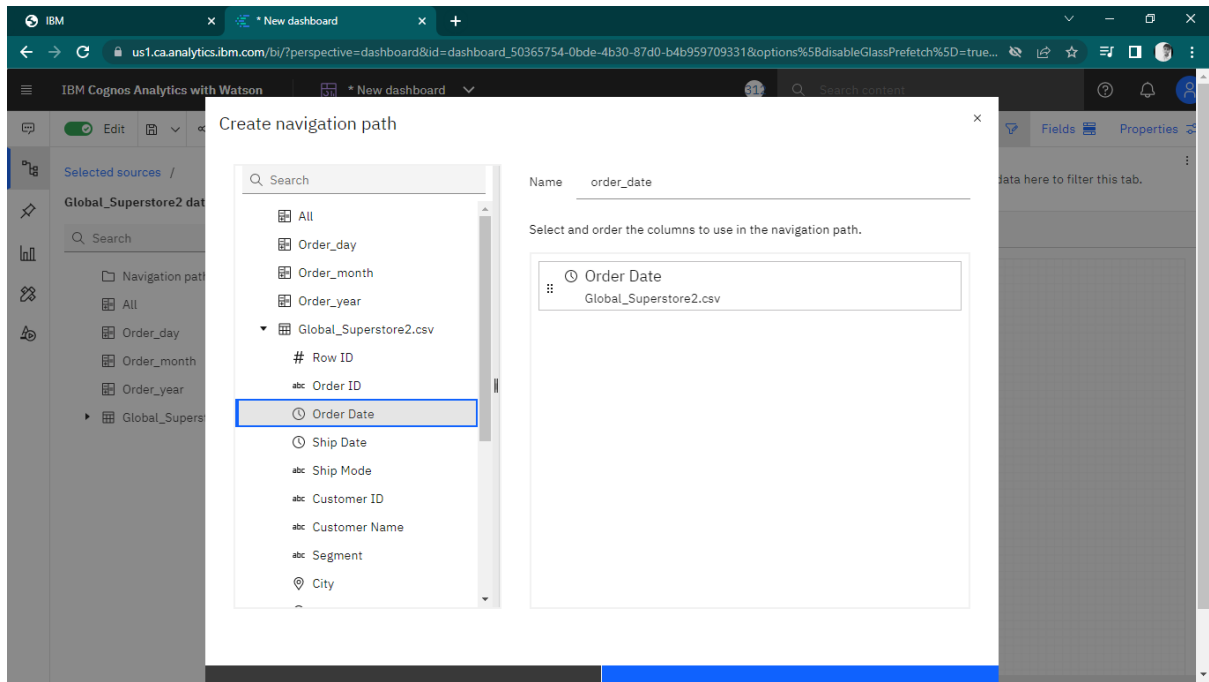
3. Day calculation

Creating calculations for extracting day from order date column.



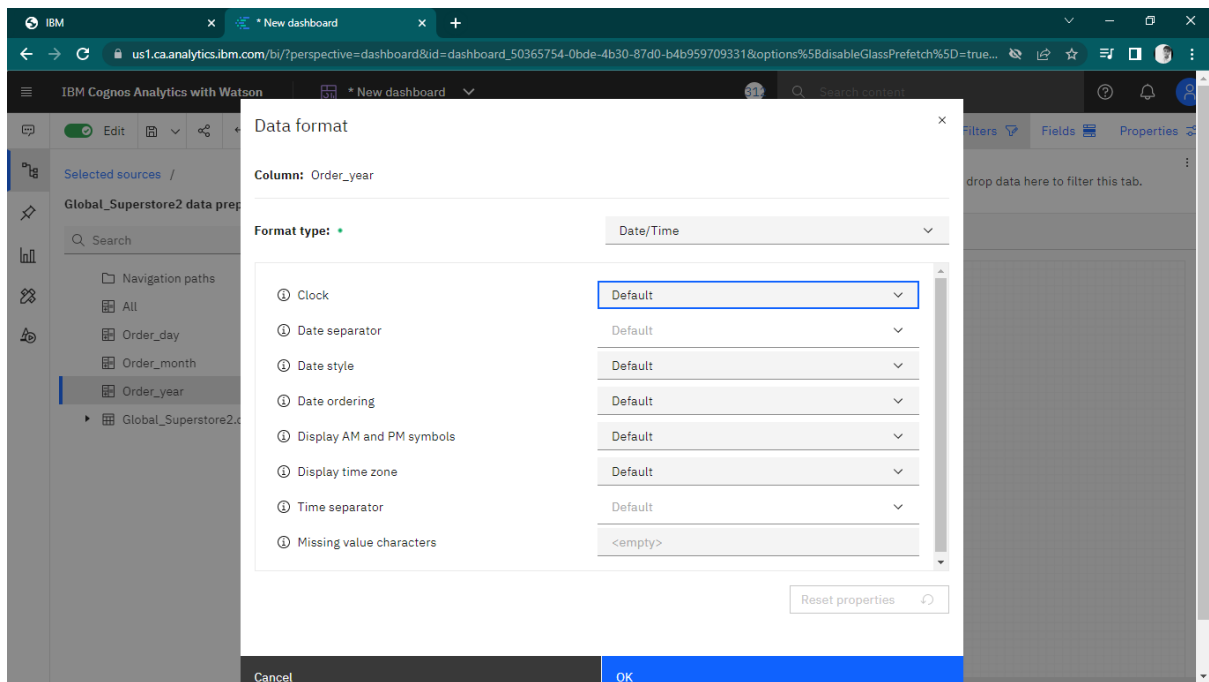
c. Navigation path:

Creating navigation path for order date, order year, order month and order day



d. Data formatting:

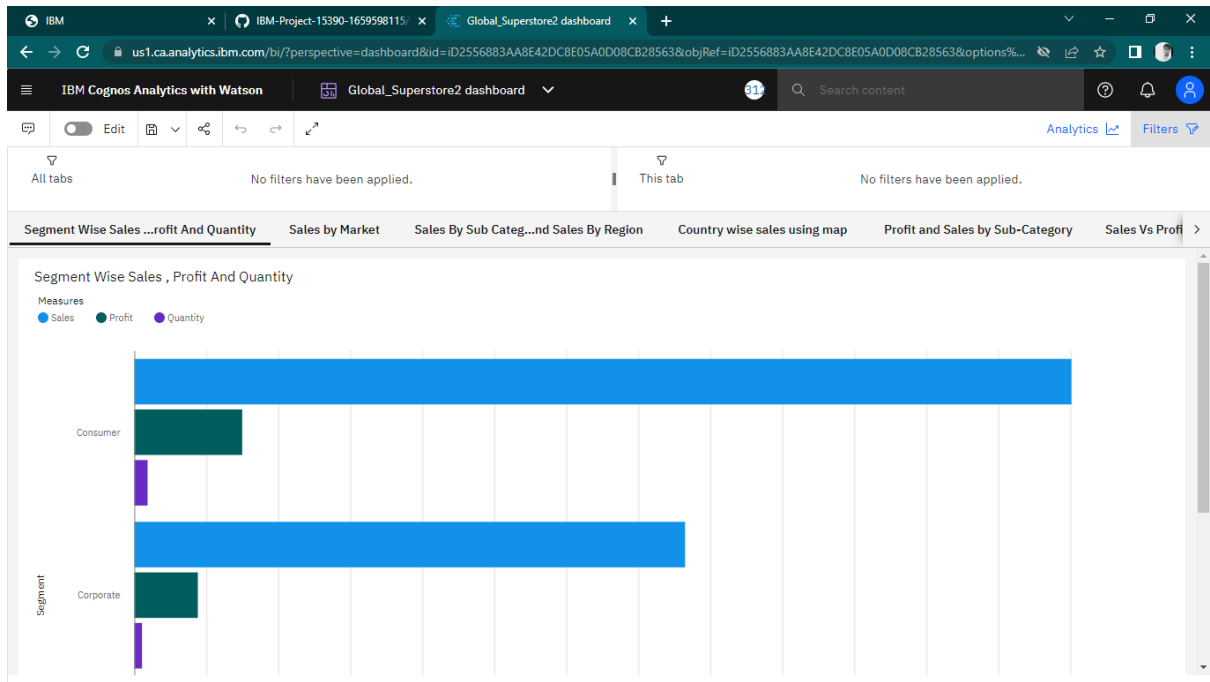
Creating navigation path for order date, order year, order month and order day.



Creating Dashboard:

Segment wise sales, Profit and Quantity:

The following bar chart shows the distribution of Sales, Profit and Quantity by segments.



Sales by Market:

The below Pie visualization represents the Sales distribution by market.

