

PROJECT DEVELOPMENT PHASE

SPRINT-III

Date	09 November 2022
Team ID	PNT2022TMID05132
Project Name	GLOBAL SALES DATA ANALYTICS
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➤ Uploading the data set

The screenshot displays the IBM Cognos Analytics web interface. The browser window shows the URL: <https://us3.ca.analytics.ibm.com/bi/?perspective=content&tab=myContent&folder=i1E39A803E5034E52BA01F5D38A>. The page title is 'PROJECT FILES'. Below the title, there are tabs for 'My content', 'Team content', and 'Samples'. The 'My content' tab is selected, showing a list of files in a table. The table has columns for 'Name', 'Type', and 'Last Accessed'. The files listed are 'Global_Superstore2.csv' (Uploaded file) and 'salesprep2' (Data module). The 'Last Accessed' dates are '11/6/2022, 12:08 AM' and '11/6/2022, 1:10 AM' respectively. The interface also includes a search bar, a 'New' button, and a 'Maintenance' notification banner.

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists various fields from a CSV file named 'Global_Su...tore2.csv'. The main area displays a 'Grid' view of the data. The table has columns for Row ID, Order ID, Order Date, Ship Date, Ship Mode, Customer ID, and Customer Name. The data is sorted by Row ID in ascending order.

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name
1	CA-2012-124891	2012-07-31	2012-07-31	Same Day	RH-19495	Rick Hansen
2	IN-2013-77878	2013-02-05	2013-02-07	Second Class	JR-16210	Justin Ritter
3	IN-2013-71249	2013-10-17	2013-10-18	First Class	CR-12730	Craig Reiter
4	ES-2013-1579342	2013-01-28	2013-01-30	First Class	KM-16375	Katherine Murray
5	SG-2013-4320	2013-11-05	2013-11-06	Same Day	RH-9495	Rick Hansen
6	IN-2013-42360	2013-06-28	2013-07-01	Second Class	JM-15655	Jim Mitchum
7	IN-2011-81826	2011-11-07	2011-11-09	First Class	TS-21340	Toby Swindell
8	IN-2012-86369	2012-04-14	2012-04-18	Standard Class	MB-18085	Mick Brown
9	CA-2014-135909	2014-10-14	2014-10-21	Standard Class	JW-15220	Jane Waco
10	CA-2012-116638	2012-01-28	2012-01-31	Second Class	JH-15985	Joseph Holt
11	CA-2011-102988	2011-04-05	2011-04-09	Second Class	GM-14695	Greg Maxwell

➤ Creating calculation -Order year.

The screenshot shows the IBM Cognos Analytics interface with a calculated field 'Order_year' added to the data module. The 'Grid' view now includes this field, which is set to the year of the 'Order Date'. The table shows data for the year 2011, sorted by the calculated 'Order_year' field.

Order_year	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID
2011	531	ES-2011-5752766	2011-09-28	2011-10-03	Standard Class	AF-10870
2011	1066	MX-2011-168319	2011-12-03	2011-12-05	Second Class	GM-14500
2011	535	ID-2011-66475	2011-08-29	2011-09-05	Standard Class	BM-11575
2011	525	IR-2011-7220	2011-03-11	2011-03-13	Second Class	PM-9135
2011	537	IN-2011-76758	2011-12-06	2011-12-13	Standard Class	AG-10495
2011	11	CA-2011-102988	2011-04-05	2011-04-09	Second Class	GM-14695
2011	540	AU-2011-0	2011-09-02	2011-09-02	Same Day	AG-675
2011	22	CA-2011-154627	2011-10-29	2011-10-31	First Class	SA-20830
2011	550	SA-2011-1830	2011-12-27	2011-12-29	Second Class	MM-7260
2011	27	IN-2011-10286	2011-12-17	2011-12-20	First Class	PB-19210
2011	553	CA-2011-108609	2011-10-31	2011-11-02	Second Class	AJ-10780
2011	35	CA-2011-168494	2011-12-12	2011-12-14	Second Class	NP-18700
2011	555	CA-2011-164973	2011-11-04	2011-11-09	Standard Class	NM-18445

➤ Creating new calculation- Order month.

Create calculation

Name: C_Order Date

Expression: 1 month (Order_Date |)

Components

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

Information

month (date_expression)

Returns the month (an integer from 1-12) from "date_expression".

month (2005-11-01);
Result: Returns 11.

☐ Calculate after aggregation

Cancel OK

Data module

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

Order_month	Order_year	Row Id	Row ID	Order ID	Order Date	Ship Date	Ship Mode
1	2011	9353	42433	AG-2011-2040	2011-01-01	2011-01-06	Standard Class
1	2011	21280	48959	TU-2011-5460	2011-01-26	2011-01-31	Standard Class
1	2011	9464	21849	ID-2011-20814	2011-01-09	2011-01-13	Standard Class
1	2011	40	28046	IN-2011-61302	2011-01-10	2011-01-11	First Class
1	2011	9732	16227	IT-2011-4233239	2011-01-26	2011-01-30	Standard Class
1	2011	329	50724	AO-2011-1670	2011-01-08	2011-01-13	Standard Class
1	2011	9788	26362	IN-2011-65159	2011-01-03	2011-01-07	Second Class
1	2011	624	38771	CA-2011-167199	2011-01-07	2011-01-11	Standard Class
1	2011	9808	8565	MX-2011-121202	2011-01-08	2011-01-13	Second Class
1	2011	1111	6006	MX-2011-109267	2011-01-05	2011-01-09	Standard Class
1	2011	9840	20005	ES-2011-3104322	2011-01-25	2011-01-29	Standard Class
1	2011	1245	18074	ES-2011-5158390	2011-01-11	2011-01-11	Same Day
1	2011	10100	16864	ES-2011-5433855	2011-01-07	2011-01-08	First Class
1	2011	1751	32064	CA-2011-162775	2011-01-14	2011-01-16	Second Class

- 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. At the top, there's a header bar with 'IBM Cognos Analytics with Watson', a search bar, and user profile icons. Below the header, a maintenance message states: 'Maintenance: Scheduled maintenance completed. Click More Info for details and to subscribe to future events'. The main area is divided into a left sidebar for 'Data module' and a central grid view. The sidebar lists various data 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 central grid view displays a table with columns: Row ID, Order ID, 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	Ship Date	Ship Mode	Customer ID
1	32298	2012-07-31	Same Day	RH-19495
2	26341	2013-02-07	Second Class	JR-16210
3	25330	2013-10-18	First Class	CR-12730
4	13524	2013-01-30	First Class	KM-16375
5	47221	2013-11-06	Same Day	RH-9495
6	22732	2013-07-01	Second Class	JM-15655
7	30570	2011-11-09	First Class	TS-21340
8	31192	2012-04-18	Standard Class	MB-18085
9	40155	2014-10-21	Standard Class	JW-15220
10	40936	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 list includes: AE-2011-9160, AE-2013-1130, AE-2013-1530, AE-2014-2840, AE-2014-3830, AE-2014-4120, AG-2011-1070, and AG-2011-1390. There are 'Clear all' and 'Invert' buttons at the bottom of the list, and 'Cancel' and 'OK' buttons at the bottom of the dialog box. The background grid view is dimmed.

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

➤ DATE CALCULATION AND NAVIGATION PATHS

Create navigation path

Name: All-Order Day

Select and order the columns to use in the navigation path.

- Order Year (Global_Superstore2.csv)
- Order Month (Global_Superstore2.csv)
- Order Day (Global_Superstore2.csv)

Buttons: Cancel, OK

➤ Minimum(sales)

Edit calculation

Name: minimum Sales

Expression: 1 minimum (Sales)

Components:

- Global_Superstore2.csv
 - average_Sales
 - maximum_Sales
 - minimum Sales
 - Order_month
 - Order_year
 - Row Id
 - Row ID
 - Order ID
 - Order Date
 - Ship Date
 - Ship Mode
 - Customer ID

Calculate after aggregation: ☐

Buttons: Cancel, OK

➤ Maximum(sales)

The screenshot shows the 'Edit calculation' dialog in IBM Cognos Analytics. The 'Name' field is set to 'maximum_Sales'. The 'Expression' field contains the formula `1 maximum (Sales)`. The 'Components' panel on the left lists available fields from the 'Global_Sup...tore2.csv' dataset, including 'average_Sales', 'maximum_Sales', 'minimum_Sales', and various order-related fields. The 'Calculate after aggregation' checkbox is unchecked. The dialog has 'Cancel' and 'OK' buttons at the bottom right. The background shows a Windows taskbar with the time 10:22 PM on 09-11-2022.

➤ Middle Range(sales)

The screenshot shows the 'Edit calculation' dialog in IBM Cognos Analytics. The 'Name' field is set to 'average_Sales'. The 'Expression' field contains the formula `1 average (Sales)`. The 'Components' panel on the left lists available fields from the 'Global_Sup...tore2.csv' dataset, including 'average_Sales', 'maximum_Sales', 'minimum_Sales', and various order-related fields. The 'Calculate after aggregation' checkbox is unchecked. The dialog has 'Cancel' and 'OK' buttons at the bottom right. The background shows a Windows taskbar with the time 10:22 PM on 09-11-2022.