

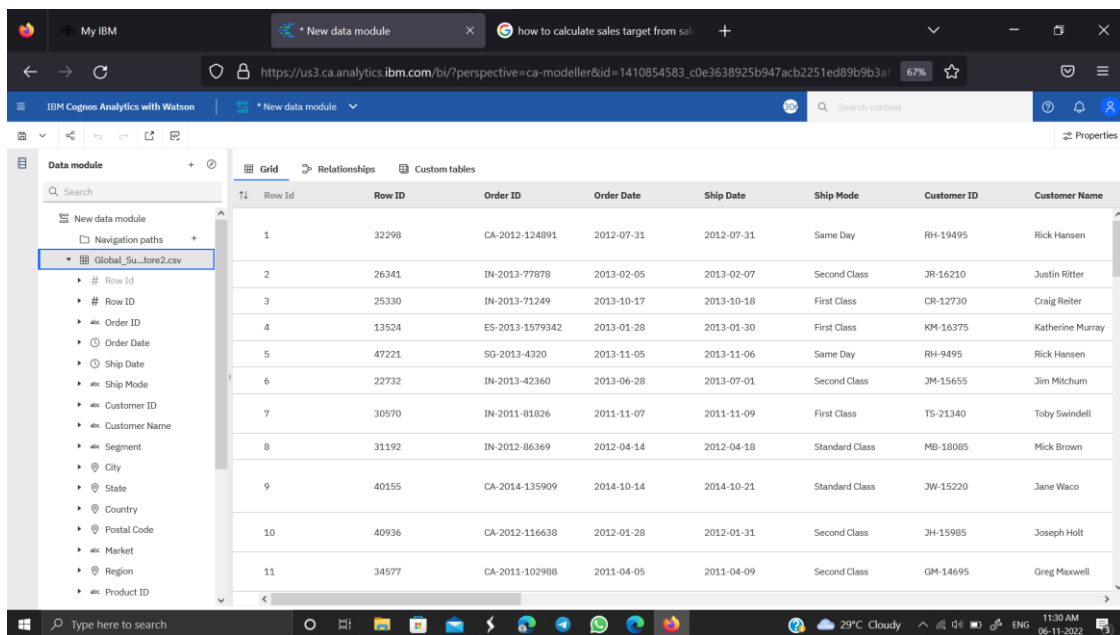
PREPARING THE DATASET

Team ID	PNT2022TMID05132
Project Name	GLOBAL SALES DATA ANALYTICS

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

- Prepare Calculations of Year, Month, Day fields and the related Navigation path
- Create a Few more Calculations – Target Sales, Min Sales, Max Sales, Middle Range Sales.

➤ Creating Data Modulation



The screenshot shows the IBM Cognos Analytics interface. The 'Data module' is selected, and the 'Grid' view is active. The data is loaded from 'Global_Sales2.csv'. The table has columns: Row ID, Order ID, Order Date, Ship Date, Ship Mode, Customer ID, and Customer Name. The data is sorted by Row ID.

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 for order year

IBM

New data module

how to calculate sales target from sales

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https://us3.ca.analytics.ibm.com/bi/?perspective=ca-model&id=1410854583_c0e3638925b947acb2251ed89b9b3a167%

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IBM Cognos Analytics with Watson

New data module

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Properties

Data module

🔍 Search

Order_year

Row ID

Row ID

Order ID

Order Date

Ship Date

Customer ID

Customer Name

Segment

City

State

Country

Postal Code

Market

Region

Product ID

Category

Sub-Category

Grid

Relationships

Custom tables

Order_year	Row ID	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID
2011	531	20228	ES-2011-5752766	2011-09-28	2011-10-03	Standard Class	AF-10870
2011	1066	9383	MX-2011-168319	2011-12-03	2011-12-05	Second Class	GM-14500
2011	535	26986	ID-2011-66475	2011-08-29	2011-09-05	Standard Class	BM-11575
2011	525	42617	IR-2011-7220	2011-03-11	2011-03-13	Second Class	PM-9135
2011	537	28750	IN-2011-76758	2011-12-06	2011-12-13	Standard Class	AG-10495
2011	11	34577	CA-2011-102988	2011-04-05	2011-04-09	Second Class	GM-14695
2011	540	42837	AU-2011-0	2011-09-02	2011-09-02	Same Day	AG-675
2011	22	31784	CA-2011-154627	2011-10-29	2011-10-31	First Class	SA-20830
2011	550	45798	SA-2011-1830	2011-12-27	2011-12-29	Second Class	MM-7260
2011	27	30191	IN-2011-10286	2011-12-17	2011-12-20	First Class	PB-19210
2011	553	37936	CA-2011-108609	2011-10-31	2011-11-02	Second Class	AJ-10780
2011	35	32543	CA-2011-168494	2011-12-12	2011-12-14	Second Class	NP-18700
2011	555	31615	CA-2011-164973	2011-11-04	2011-11-09	Standard Class	NM-18445

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➤ Creating order month.

Create calculation

Name: C_Order Date

Expression: 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

Region

Data module

Grid Relationships Custom tables

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