

Project Development Phase Delivery of Sprint - 1

Date	29 October 2022
Team ID	PNT2022TMID32748
Project Name	Global Sales Data Analytics

Project Development Phase:

Sprint 1:

- Data Collection
- Data Filtration

Sprint 2:

- Data Visualization

Sprint 3:

- Dashboard Creation

Sprint 4:

- Report Creation
- Story Creation

Sprint -1:

1.Data Collection: When you want to provide a suitable solution to the given problem statement, you need to understand the dataset, load it to the cloud environment, and prepare it as per the technology requirement.

Downloading the Dataset:

link:<https://www.kaggle.com/apoorvaappz/global-super-store-dataset>

Understanding the Dataset: Once you download the Dataset, the rows you see are the details of the order done online by people across the globe in the time frame 1-jan-2011 to 31-dec-2014. There are no missing values in the majority of columns except postal code, you can drop it if not required.

Loading the Dataset using IBM COGNOS ANALYTICS:

Before you can build a view and analyze your data, you must first connect the data to IBM Cognos. Cognos supports connecting to a wide variety of data, stored in a variety of places.

The data might be stored on your computer in a spreadsheet or a text file, or in a big data, relational, or cube (multidimensional) database on a server in your enterprise.

IBM Cognos Analytics with Watson

1 item open

300

Search content

Upload data
Upload or drag and drop spreadsheets, csv files, and other data sources.

Prepare data
Use data modules to clean and connect data from multiple resources.

Exploration
Quickly find unbiased answers by identifying trends in your data with d...

Present data
Create sophisticated, multi-page, multi-query dashboards, reports, or st...

Get started

Recent

	Name	Location	Type	Last Accessed	
	Global_Superstore_data preparation	My content	Uploaded file	05/11/2022, 01:31	

Select sources

x

My content

Type any text to filter items in this folder

50_Startups.csv

14/09/2022, 09:17

Assignment_1

14/09/2022, 12:31

Assignment_2

29/09/2022, 07:28

global Sales dashboard

04/11/2022, 04:19

Global_Superstore_data preparation

03/11/2022, 11:32

Pharma_Monthly_Sales.csv

29/09/2022, 00:09

US Superstore data.xls

08/09/2022, 04:48

Filter by

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Data sets

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Modules

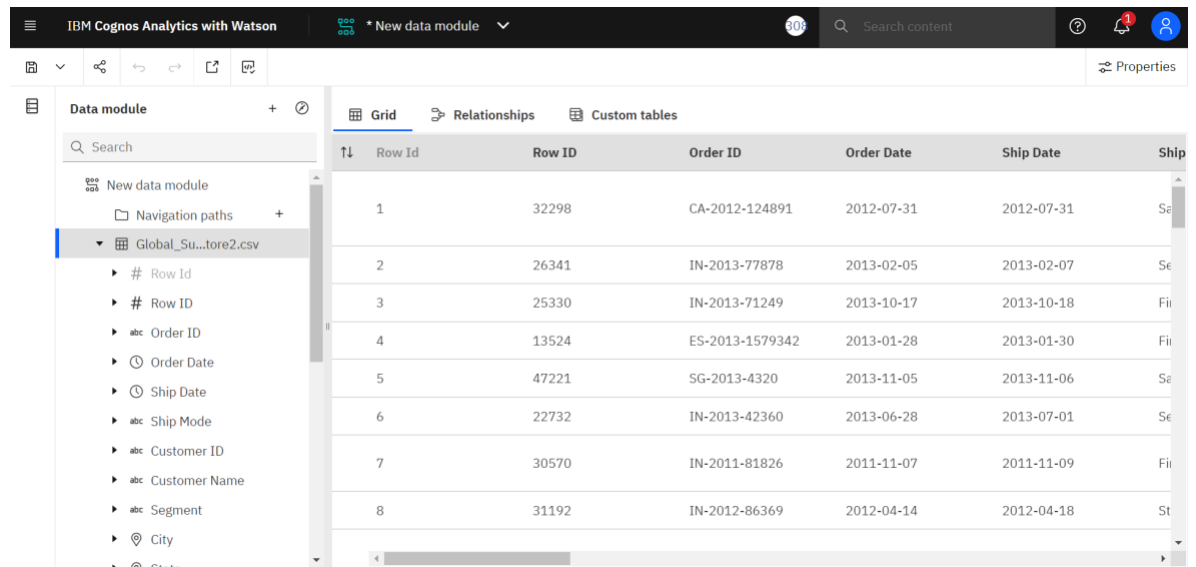
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2.Data Filtration:

Filtering the dataset and preparing by using data modules to clean and connect data from multiple modules.



The screenshot displays the IBM Cognos Analytics interface. The top navigation bar includes the IBM Cognos Analytics with Watson logo, a dropdown menu for 'New data module', a search bar, and user profile icons. The main workspace is divided into a left sidebar and a central grid view. The sidebar, titled 'Data module', contains a search bar and a list of modules. The 'Global_Su...tore2.csv' module is selected, showing a list of fields: '# Row Id', '# Row ID', 'abc Order ID', 'Order Date', 'Ship Date', 'abc Ship Mode', 'abc Customer ID', 'abc Customer Name', 'abc Segment', 'City', and 'State'. The central grid view shows a table with columns: 'Row Id', 'Row ID', 'Order ID', 'Order Date', 'Ship Date', and 'Ship'. The table contains 8 rows of data.

Row Id	Row ID	Order ID	Order Date	Ship Date	Ship
1	32298	CA-2012-124891	2012-07-31	2012-07-31	Se
2	26341	IN-2013-77878	2013-02-05	2013-02-07	Se
3	25330	IN-2013-71249	2013-10-17	2013-10-18	Fi
4	13524	ES-2013-1579342	2013-01-28	2013-01-30	Fi
5	47221	SG-2013-4320	2013-11-05	2013-11-06	Se
6	22732	IN-2013-42360	2013-06-28	2013-07-01	Se
7	30570	IN-2011-81826	2011-11-07	2011-11-09	Fi
8	31192	IN-2012-86369	2012-04-14	2012-04-18	St

Year Data:

Create calculation ✕

Name

Calculation name

Components

🔍 Search

Global_Sup...tore2.csv

▶ # Row Id

▶ # Row ID

▶ abc Order ID

▶ ⌚ Order Date

▶ ⌚ Ship Date

▶ abc Ship Mode

▶ abc Customer ID

▶ abc Custo... Name

▶ abc Segment

▶ 📍 City

Expression

1 year (Order_Date)

Information

year (date_expression)

Returns the year from "date_expression".

year (11 November 2005):

Result: Returns 2005.

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14

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Data module

Search

New data module

Navigation paths

Global_Su...tore2.csv

Calculation name

Row Id

Row ID

abc Order ID

Order Date

Ship Date

abc Ship Mode

abc Customer ID

abc Customer Name

abc Segment

City

Calculation name	Row Id	Row ID	Order ID	Order Date	Ship
2012	1	32298	CA-2012-124891	2012-07-31	20
2013	2	26341	IN-2013-77878	2013-02-05	20
2013	3	25330	IN-2013-71249	2013-10-17	20
2013	4	13524	ES-2013-1579342	2013-01-28	20
2013	5	47221	SG-2013-4320	2013-11-05	20
2013	6	22732	IN-2013-42360	2013-06-28	20
2011	7	30570	IN-2011-81826	2011-11-07	20
2012	8	31192	IN-2012-86369	2012-04-14	20

Category and Sales data:

IBM Cognos Analytics with Watson

* New data module

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Search content

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1

Properties

Data module

Q Search

Country

Postal Code

abc Market

Region

abc Product ID

abc Category

abc Sub-Category

abc Product Name

Sales

Quantity

Discount

Profit

Shipping Cost

abc Order Priority

Grid

Relationships

Custom tables

Product ID	Category	Sub-Category	Product Name	Sales
FUR-BO-10004129	Furniture	Bookcases	Sauder Classic Bookcase, Pine	2624.04
FUR-TA-10000577	Furniture	Tables	Bretford CR4500 Series Slim Rectangular Table	1044.63
FUR-BO-10001372	Furniture	Bookcases	Saeco Classic Bookcase, Pine	3076.5
FUR-CH-10003950	Furniture	Chairs	Novimex Executive Leather Armchair, Black	3709.395
FUR-CH-10001664	Furniture	Chairs	Novimex Swivel Stool, Black	1296.24
FUR-TA-10002958	Furniture	Tables	Chromcraft Conference Table, Fully Assembled	5244.84
FUR-TA-10000136	Furniture	Tables	Chromcraft Conference Table, Adjustable Height	2332.96
FUR-TA-10001889	Furniture	Tables	Bevis Conference Table, Fully Assembled	4626.15
FUR-BO-10002866	Furniture	Bookcases	Saeco Classic Bookcase, Pine	1582.2
FUR-HON-10000224	Furniture	Tables	Hon Computer Table, with Bottom Storage	1977.72

Country data:

IBM Cognos Analytics with Watson

* New data module

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Search content

Properties

Data module

Search

Segment

City

State

Country

Postal Code

Market

Region

Product ID

Category

Sub-Category

Product Name

Sales

Quantity

Discount

Grid

Relationships

Custom tables

Segment	City	State	Country	Postal Code	Market
Corporate	Kabul	Kabul	Afghanistan	Null	APAC
Home Office	Kabul	Kabul	Afghanistan	Null	APAC
Corporate	Kabul	Kabul	Afghanistan	Null	APAC
Corporate	Kabul	Kabul	Afghanistan	Null	APAC
Consumer	Kabul	Kabul	Afghanistan	Null	APAC
Corporate	Kabul	Kabul	Afghanistan	Null	APAC
Home Office	Herat	Hirat	Afghanistan	Null	APAC
Consumer	Kabul	Kabul	Afghanistan	Null	APAC
Home Office	Herat	Hirat	Afghanistan	Null	APAC
Corporate	Kandahar	Kandahar	Afghanistan	Null	APAC

Order Priority:

IBM Cognos Analytics with Watson

* New data module

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Search content

?

1

Grid

Relationships

Custom tables

Quantity

Discount

Profit

Shipping Cost

Order Priority

5	0	647.55	835.57	High
5	0	848.7	185.01	Medium
7	0	356.58	106.41	High
3	0	564.48	73.63	Medium
6	0	45.9	58.04	High
1	0	34.71	50.01	High
2	0	102.42	39.66	Medium
2	0	59.34	36.24	Critical
4	0	79.68	11.01	Medium
3	0	15.75	9.39	Medium

Data module

Search

Country

Postal Code

Market

Region

Product ID

Category

Sub-Category

Product Name

Sales

Quantity

Discount

Profit

Shipping Cost

Order Priority

Shipping Cost Format Data:

IBM Cognos Analytics with Watson

New data module

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Search content

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Data module

Search

Country

Postal Code

Market

Region

Product ID

Category

Sub-Category

Product Name

Sales

Quantity

Discount

Profit

Shipping Cost

Order Priority

Data format

×

Column: Shipping Cost

Format type:

Currency

① Currency

\$ (USD) - United States of America, dollar

① Currency symbol

Default

① Number of decimal places

Default

① Use thousands separator

Default

① Currency display

Default

① Missing value characters

<empty>

Advanced options

Reset properties

↺

Properties

Order Priority

High

Medium

High

Medium

High

High

Medium

Critical

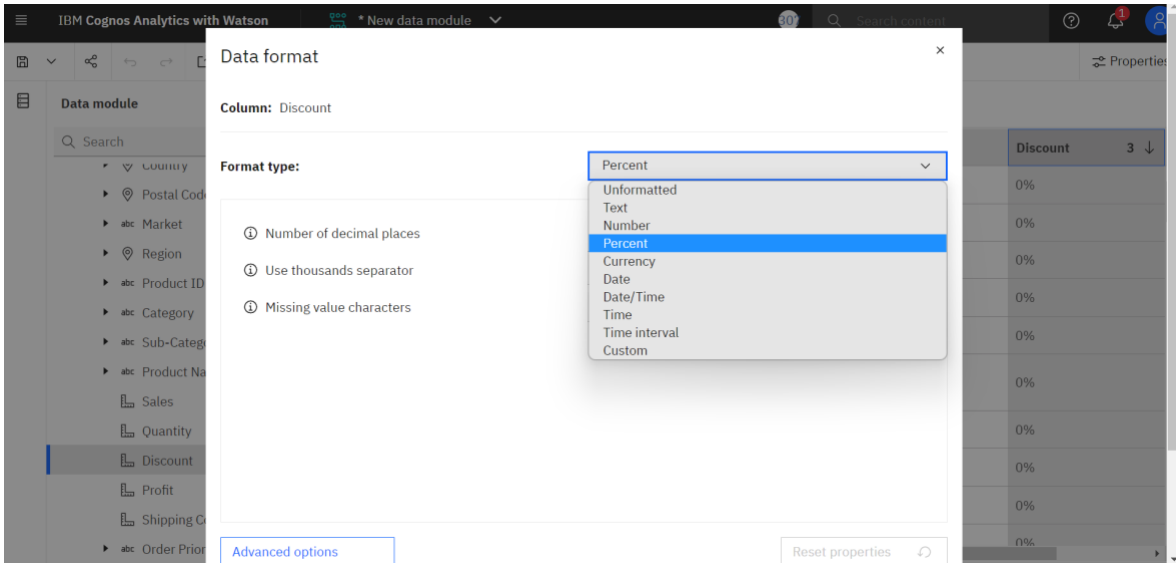
Medium

Medium

Shipping Cost Data:

	Grid	Relationships	Custom tables		
Country	Quantity	Discount	Profit	Shipping Cost	Order Priority
Postal Code	5	0	647.55	\$835.57	High
abc Market	5	0	848.7	\$185.01	Medium
Region	7	0	356.58	\$106.41	High
Product ID	3	0	564.48	\$73.63	Medium
Category	6	0	45.9	\$58.04	High
Sub-Category	1	0	34.71	\$50.01	High
Product Name	2	0	102.42	\$39.66	Medium
Sales	2	0	59.34	\$36.24	Critical
Quantity	4	0	79.68	\$11.01	Medium
Discount	3	0	15.75	\$9.39	Medium
Profit					
Shipping Cost					
Order Priority					

Discount Data Format:



Discount Data:

IBM Cognos Analytics with Watson

New data module

30

Search content

1

Properties

Data module

Search

Country

Postal Code

abc Market

Region

abc Product ID

abc Category

abc Sub-Category

abc Product Name

Sales

Quantity

Discount

Profit

Shipping Cost

abc Order Priority

Grid

Relationships

Custom tables

Sub-Category	Product Name	Sales	Quantity	Discount	3	P
Tables	Bevis Conference Table, Fully Assembled	4626.15	5	0%		
Bookcases	Bush Classic Bookcase, Pine	2070.15	5	0%		
Chairs	Hon Rocking Chair, Red	914.34	7	0%		
Tables	Chromcraft Wood Table, with Bottom Storage	1447.56	3	0%		
Chairs	Harbour Creations Chairmat, Black	417.42	6	0%		
Tables	Chromcraft Coffee Table, with Bottom Storage	267.09	1	0%		
Bookcases	Ikea Library with Doors, Mobile	731.82	2	0%		
Furnishings	Rubbermaid Frame, Black	219.78	2	0%		
Furnishings	Rubbermaid Door Stop, Ergonomic	169.68	4	0%		
Furnishings	Rubbermaid Door Stop,	131.58	3	0%		

Profit Data:

IBM Cognos Analytics with Watson

* New data module

30

Search content

?

1

Properties

Data module

+ ⓘ

Q Search

Country

Postal Code

abc Market

Region

abc Product ID

abc Category

abc Sub-Category

abc Product Name

Sales

Quantity

Discount

Profit

Shipping Cost

abc Order Priority

Grid

Relationships

Custom tables

↑↓ Time	Sales	Quantity	Discount	3 ↓	Profit	Shipping Cost
erence Table, ible	4626.15	5	0%		647.55	\$835.57
c Bookcase,	2070.15	5	0%		848.7	\$185.01
g Chair, Red	914.34	7	0%		356.58	\$106.41
Wood Table, n Storage	1447.56	3	0%		564.48	\$73.63
ations ilack	417.42	6	0%		45.9	\$58.04
Coffee Bottom	267.09	1	0%		34.71	\$50.01
/ with Doors,	731.82	2	0%		102.42	\$39.66
d Frame,	219.78	2	0%		59.34	\$36.24
d Door Stop,	169.68	4	0%		79.68	\$11.01
d Door Stop,	131.58	3	0%		15.75	\$9.39

Region and Market Data:

IBM Cognos Analytics with Watson

IBM Cognos Analytics

New data module

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Search content

?

1

Properties

Data module

Grid

Relationships

Custom tables

Search

Country

Postal Code

Market

Region

Product ID

Category

Sub-Category

Product Name

Sales

Quantity

Discount

Profit

Shipping Cost

Order Priority

Market	Region	Product ID	Category	Sub-Category	Product Name
APAC	Central Asia	FUR-TA-10001889	Furniture	Tables	Be...
APAC	Central Asia	FUR-BO-10002204	Furniture	Bookcases	Be...
APAC	Central Asia	FUR-CH-10003965	Furniture	Chairs	Be...
APAC	Central Asia	FUR-TA-10004892	Furniture	Tables	Ch...
APAC	Central Asia	FUR-CH-10002940	Furniture	Chairs	Ch...
APAC	Central Asia	FUR-TA-10000434	Furniture	Tables	Ch...
APAC	Central Asia	FUR-BO-10001255	Furniture	Bookcases	Ik...
APAC	Central Asia	FUR-FU-10000666	Furniture	Furnishings	Ru...
APAC	Central Asia	FUR-FU-10004064	Furniture	Furnishings	Ru...
APAC	Central Asia	FUR-FU-10002459	Furniture	Furnishings	Er...

Sales Data:

IBM Cognos Analytics with Watson

New data module

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Search content

Properties

Data module

Search

Country

Postal Code

abc Market

Region

abc Product ID

abc Category

abc Sub-Category

abc Product Name

Sales

Quantity

Discount

Profit

Shipping Cost

abc Order Priority

Grid

Relationships

Custom tables

Sub-Category	Product Name	Sales	Quantity	Discount	3	P
Tables	Bevis Conference Table, Fully Assembled	4626.15	5	0%		
Bookcases	Bush Classic Bookcase, Pine	2070.15	5	0%		
Chairs	Hon Rocking Chair, Red	914.34	7	0%		
Tables	Chromcraft Wood Table, with Bottom Storage	1447.56	3	0%		
Chairs	Harbour Creations Chairmat, Black	417.42	6	0%		
Tables	Chromcraft Coffee Table, with Bottom Storage	267.09	1	0%		
Bookcases	Ikea Library with Doors, Mobile	731.82	2	0%		
Furnishings	Rubbermaid Frame, Black	219.78	2	0%		
Furnishings	Rubbermaid Door Stop, Ergonomic	169.68	4	0%		
Furnishings	Rubbermaid Door Stop,	131.58	3	0%		

Ship Mode Data:

IBM Cognos Analytics with Watson

New data module

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Search content

Properties

Data module

Grid

Relationships

Custom tables

Search

abc Order ID

Order Date

Ship Date

Ship Mode

Customer ID

Customer Name

Segment

City

State

Market

Region

Product ID

Ship Mode	Customer ID	Customer Name	Segment	City	State
Same Day	RH-19495	Rick Hansen	Consumer	New York City	Ne
Second Class	JR-16210	Justin Ritter	Corporate	Wollongong	Ne
First Class	CR-12730	Craig Reiter	Consumer	Brisbane	Qu
First Class	KM-16375	Katherine Murray	Home Office	Berlin	Be
Same Day	RH-9495	Rick Hansen	Consumer	Dakar	De
Second Class	JM-15655	Jim Mitchum	Corporate	Sydney	Ne
First Class	TS-21340	Toby Swindell	Consumer	Porirua	W
Standard Class	MB-18085	Mick Brown	Consumer	Hamilton	W

Sorted Sub-Category and Quantity Data:

IBM Cognos Analytics with Watson

New data module

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1

Properties

Data module

Grid

Relationships

Custom tables

Search

Country

Postal Code

abc Market

Region

abc Product ID

abc Category

abc Sub-Category

abc Product Name

Sales

Quantity

Discount

Profit

Shipping Cost

abc Order Priority

Sub-Category	Product Name	Sales	Quantity	Discount
Accessories	Logitech Memory Card, Bluetooth	723.66	7	0
Accessories	Belkin Keyboard, Programmable	384.21	5	0.1
Accessories	Memorex Router, Programmable	891.756	4	0.1
Accessories	Logitech diNovo Edge Keyboard	2249.91	9	0
Accessories	Memorex Router, Bluetooth	738.63	6	0.5
Accessories	Memorex Router, Bluetooth	2297.96	14	0
Accessories	Memorex Router, Bluetooth	590.904	6	0.6
Accessories	Logitech P710e Mobile Speakerphone	1287.45	5	0
Accessories	Enermax Router, USB	775.62	3	0
Accessories	Plantronics Savi W720 Multi-Device Wireless	1687.8	4	0

The Data has been Prepared by IBM Cognos.

link:https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=957208312_a39bca1b2e6f4c73a508d8a4f35bbbe1_sessionTemp&objRef=&tid=957208312_a39bca1b2e6f4c73a508d8a4f35bbbe1_sessionTemp