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**CAMPUS:** Vellore

**MENTOR:** Uma Rani

PROJECT TITLE: Global Sales Data Analytics Using IBM Cognos

### Respected Uma Mam:

I have created this Document file before you have said to do in required Syntax format and I asked you regarding this mam and you mentioned to upload the same Document which I created on my own. So please consider this Document mam.

Thank You

### **Project Description:**

Shopping online is currently the need of the hour. Because of this COVID, it's not easy to walk in a store randomly and buy anything you want. So, try to understand a few things like, Customer Analysis and Product Analysis of this Global Super Store.

### Architecture:



# **Solution Requirements**

IBM Cognos Analytics



### **Project Objectives**

- Know fundamental concepts and can work on IBM Cognos Analytics
- Gain a broad understanding of plotting different visualizations to provide suitable solution.
- Able to create meaningful Visualizations and Dashboard(s).

# **Project Flow**

- Users create multiple analytical graphs/charts/Visualizations.
- Using the Analytical Visualizations, build required Dashboard(s).
- Saving and visualizing the final dashboard in the IBM Cognos Analytics.

To accomplish this, we have to complete all the activities and tasks listed below:

IBM Cloud Account

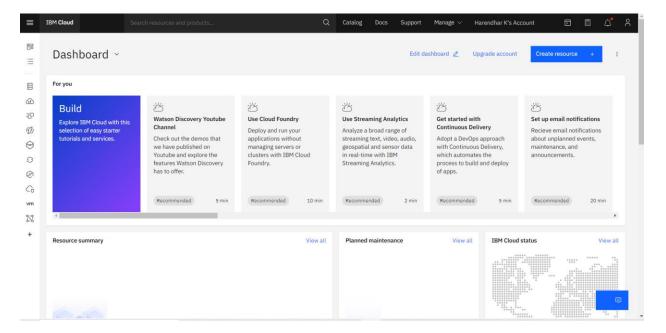
Create and Login to IBM Account

https://cloud.ibm.com/registration

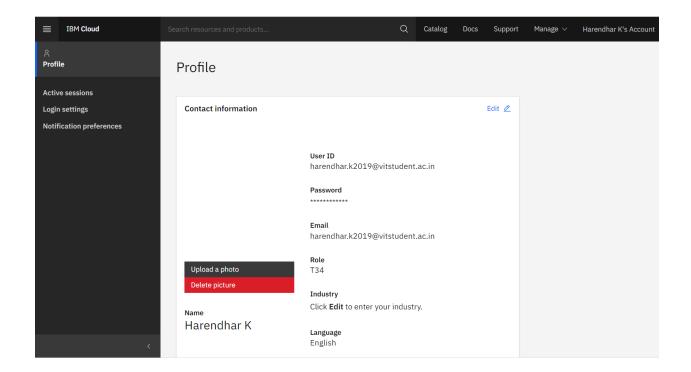
If already Created then Click Log in to IBM Cloud



### After the Log in it will redirect to the Dashboard of IBM Cloud



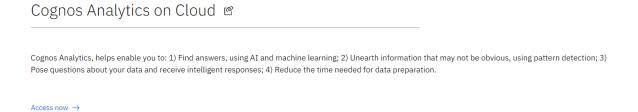
My Profile in IBM Cloud

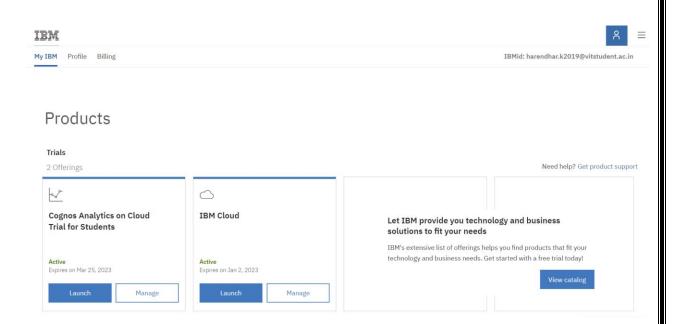


# • Login to Cognos Analytics

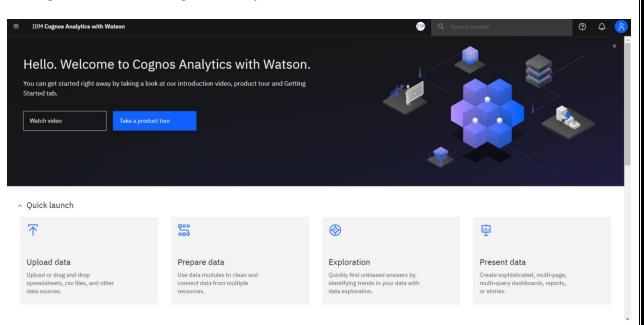
Create and Login to Cognos Analytics Account

Click Access now and it will directly redirect to the My IBM Page where we can see our products

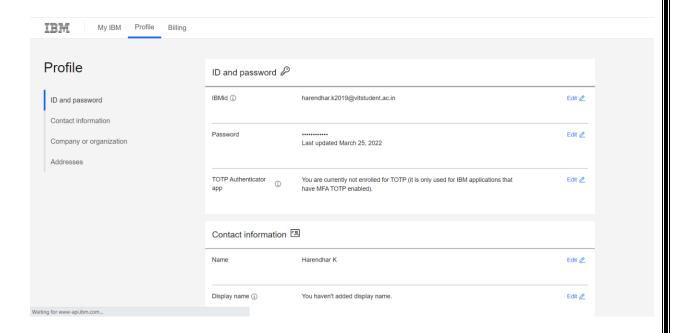




### Now give Launch in Cognos Analytics on Cloud



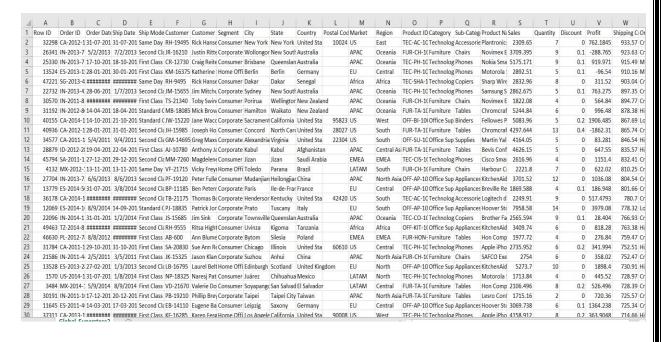
My Profile in IBM Cognos Analytics



### Working with Dataset

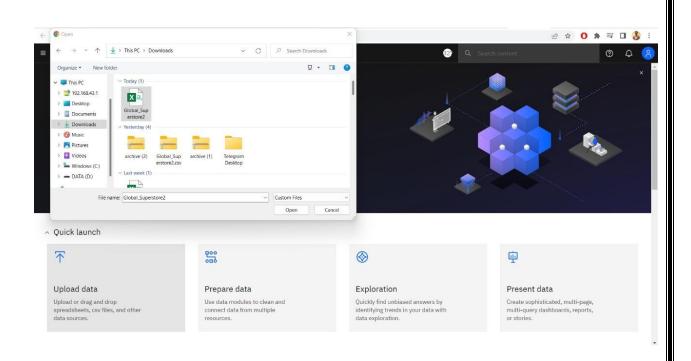
### **Understand the Dataset**

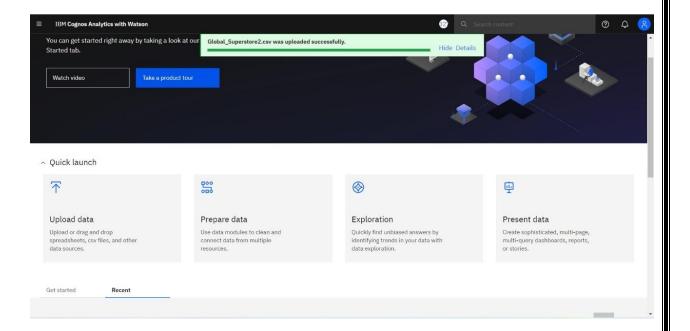
Once you download the dataset, the rows you see are the details of the order done online by people across the globe in the time frame 1-jan-2011 to 31-dec-2014. There are no missing values in the majority of columns except postal code, you can drop it if not required.

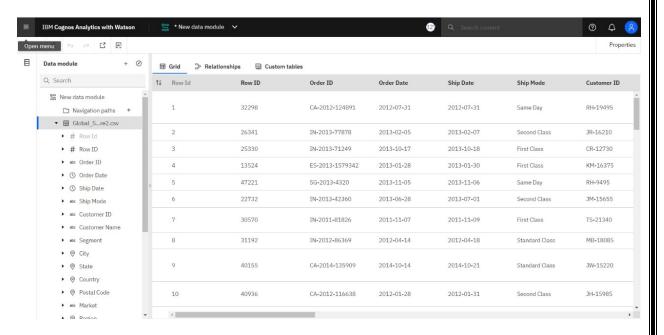


# Loading the Dataset Before you can build a view and analyses of your data, you must first connect the data to IBM Cognos. Cognos supports connecting to a wide variety of data, stored in a variety of places. The data might be stored on your computer in a spreadsheet or a text file, or in a big data, relational, or cube (multidimensional) database on a server in your enterprise. In our case, we will be using a spreadsheet or text file for making our analysis

Upload the required Dataset from your Laptop to IBM Cloud account for Data Analytics.



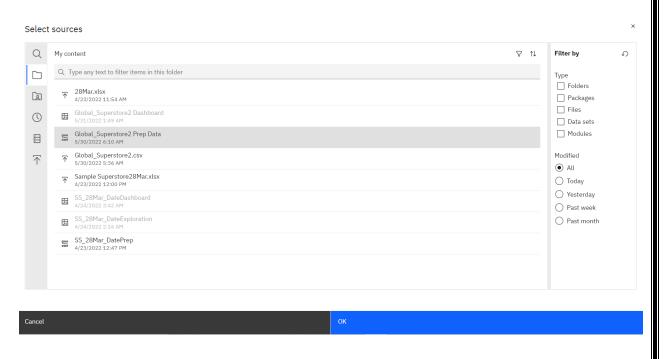


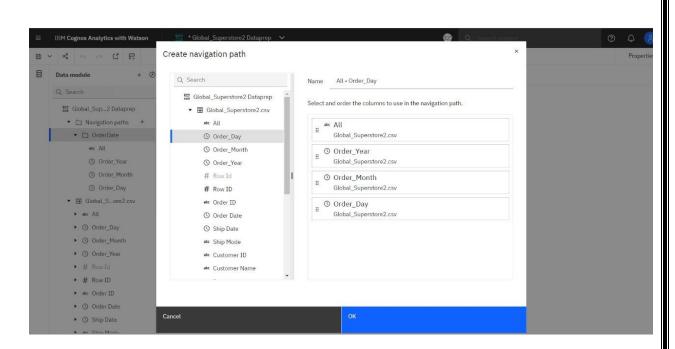


### **Prepare the Dataset**

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

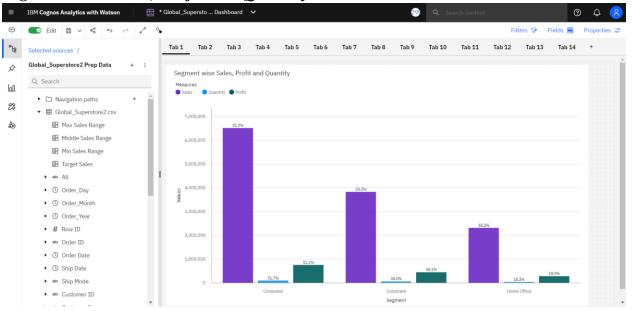
- a) Prepare Calculations of Year, Month, Day fields and also the related Navigation path
- b) Create Few more Calculations Target Sales, Min Sales, Max Sales, Middle Range Sales.



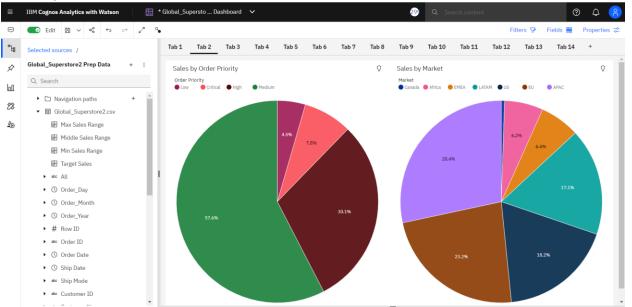


• Data Visualization Charts

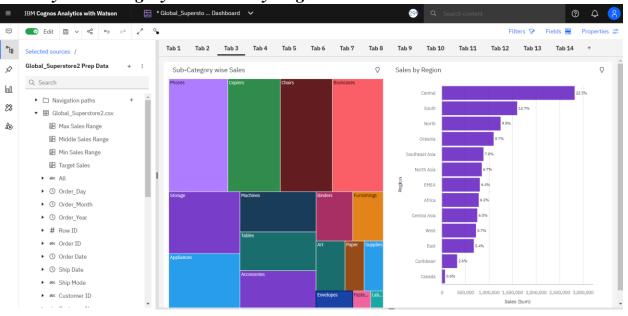
1) Segment wise Sales, Profit and Quantity



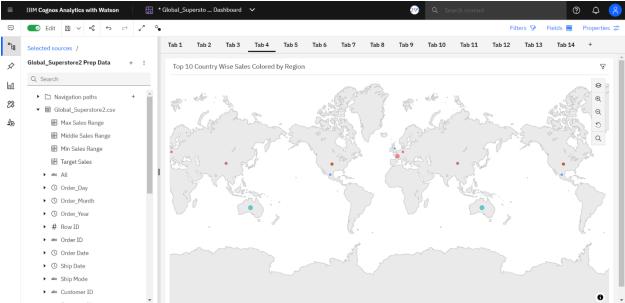
### 2) Sales by Market



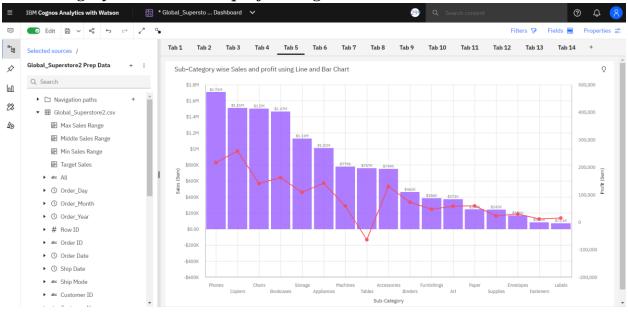
### 3) Sales by Sub Category and Sales by Region



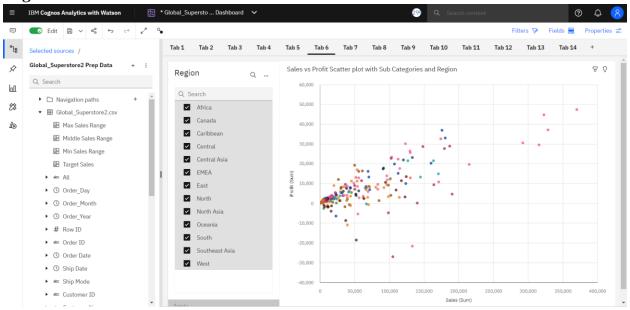
# 4) Top 10 Country Wise Sales Colored by Region



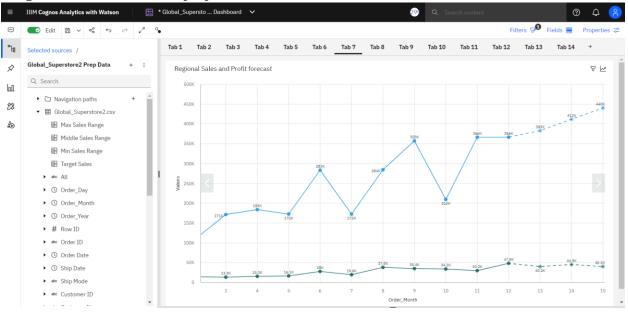
# 5) Sub-Category wise Sales and profit using Line and Bar Chart



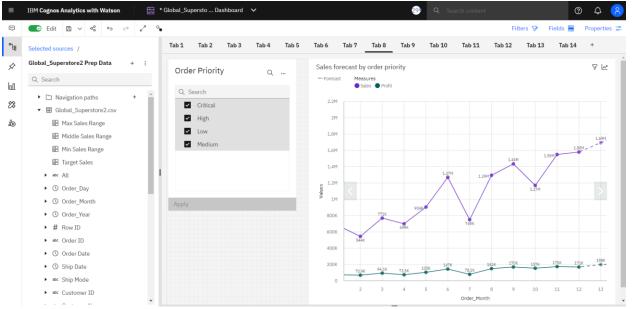
# 6) Sales vs Profit Scatter plot with Sub Categories and Region



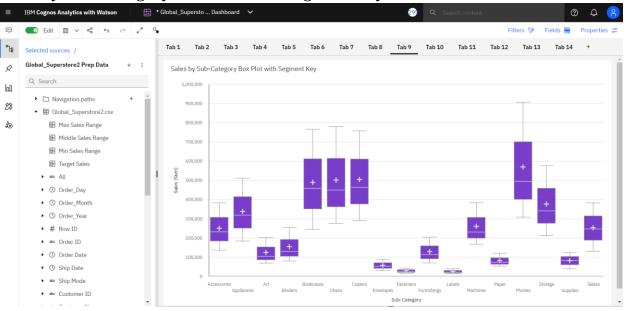
### 7) Regional Sales and Profit forecast



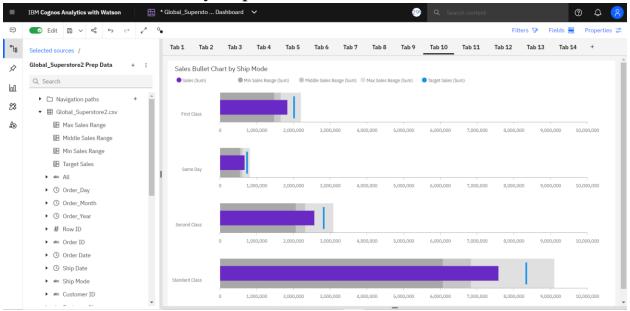
### 8) Sales forecast by order priority



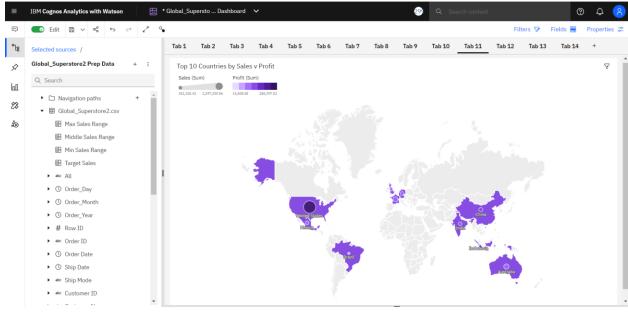
### 9) Sales by Sub-Category Box Plot with Segment Key



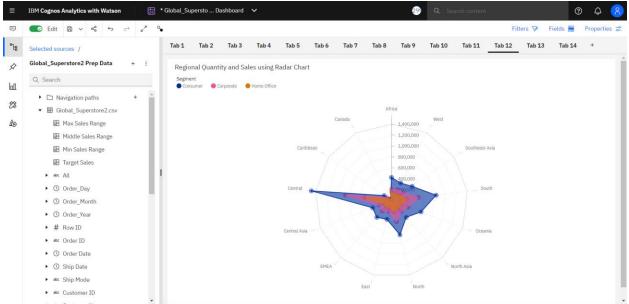
### 10) Sales Bullet Chart by Ship Mode



### 11) Top 10 Countries by Sales v Profit



### 12) Regional Quantity and Sales using Radar Chart



### 13) Country wise Sales using World Cloud



# 14) Sales by Sub-Category Dashboard

