

Project Development Phase

Sprint 1

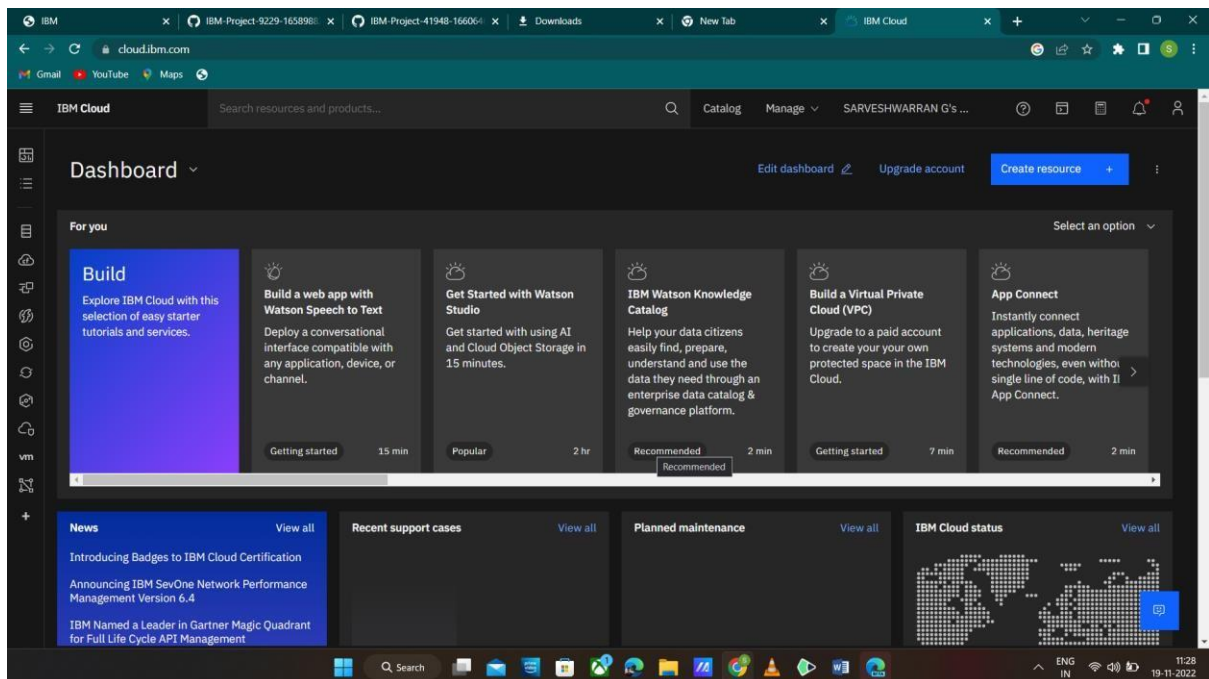
Date	25 October 2022
Team ID	PNT2022TMID00545
Project Name	Global Sales Data Analytics

Sprint 1 tasks:

- IBM Cloud Account creation
- IBM Cognos Account creation
- Fetch Data from external API
- Downloading dataset
- Data Collection
- Understanding dataset
- Create Data module
- Uploading dataset
- Login page creation

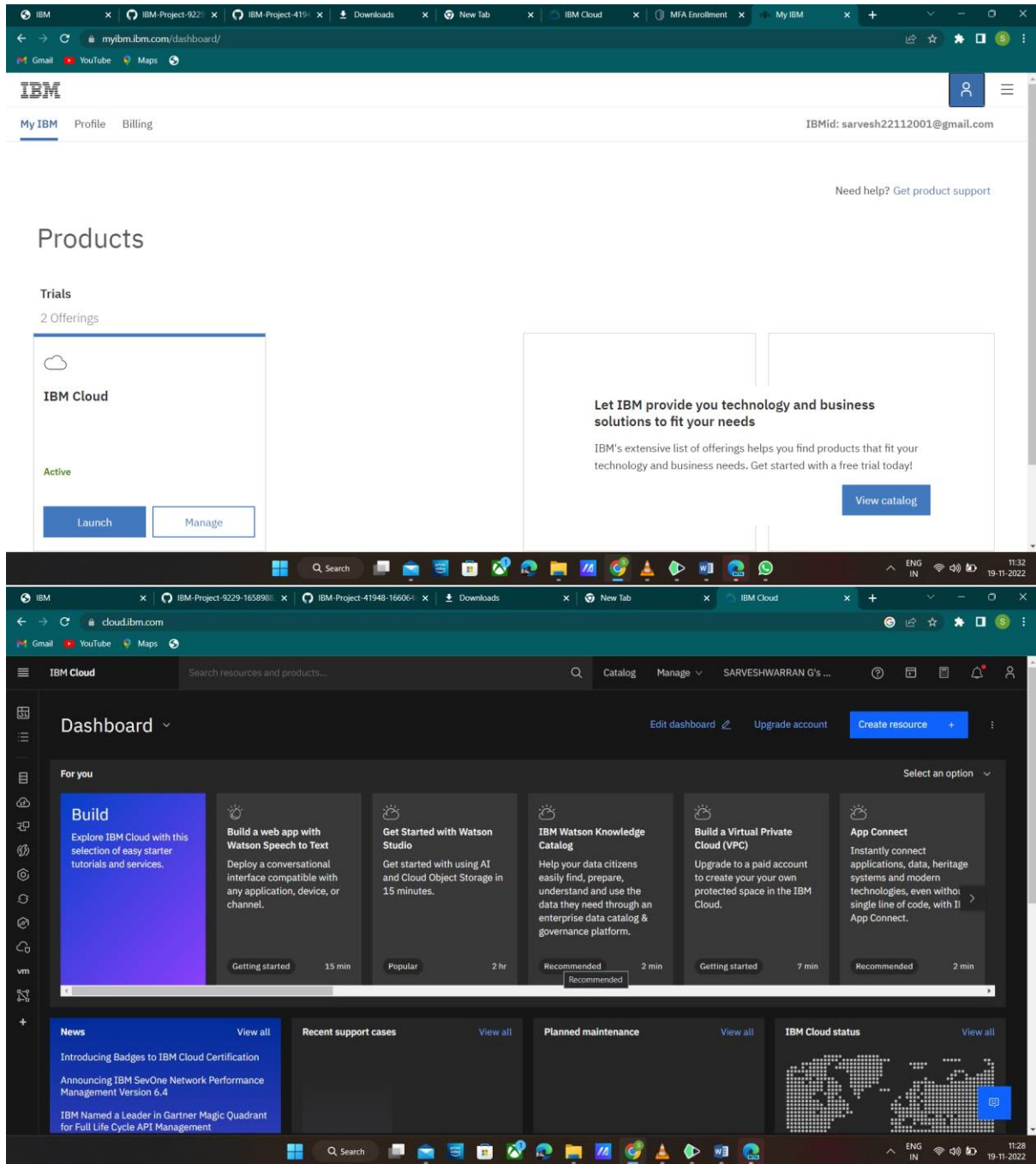
IBM Cloud Account:

Creating and login to IBM cloud account.



IBM Cognos Account:

Creating and login to IBM Cognos account.



Fetch Data from external API:

Fetching data from external kaggle API

```
+ Code + Text
[ ] pip install -q kaggle

[ ] !mkdir ~/.kaggle

[ ] !cp kaggle.json ~/.kaggle/

[ ] !kaggle datasets download -d mrhattrider/global-sales

Warning: Your Kaggle API key is readable by other users on this system! To fix this, you can run 'chmod 600 /root/.kaggle/kaggle.json'
Downloading global-sales.zip to /content
0% 0.00/3.48M [00:00<?, 7B/s]
100% 3.48M/3.48M [00:00<00:00, 168MB/s]

[ ] !unzip /content/global-sales.zip

Archive: /content/global-sales.zip
  inflating: Global_Superstore2.csv
```

Downloading Dataset:

Downloading Global super store dataset from kaggle.

The screenshot shows the Kaggle website interface. On the left is a sidebar with navigation links: Home, Competitions, Datasets, Code, Discussions, Learn, and More. The main content area displays the 'Global Super Store Dataset' by APOORVA MAHALINGAPPA, updated 2 years ago. It has 56 votes and a 'Download (12 MB)' button. The dataset description is 'Consumer and product Analytics on Global Super Store Data.' Below this, there are tabs for 'Data', 'Code (9)', and 'Discussion (2)'. The 'About Dataset' section includes a 'Context' paragraph about online shopping during COVID-19 and a list of analysis topics: 'Customers Analysis'. On the right, there are metrics: 'Usability' (8.24), 'License' (Database: Open Database, Cont...), and 'Expected update frequency' (Monthly). A cookie consent banner is at the bottom.

Data collection:

Understanding the dataset and analysing the data requirements.

Global_Superstore2 - Excel																																																							
File Home Insert Page Layout Formulas Data Review View Tell me what you want to do... Share																																																							
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1	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer	Customer Segment	City	State	Country	Postal Code	Market	Region	Product ID	Category	Sub-Category	Product Name	Sales	Quantity	Discount																																			
2	32298	CA-2012-1	31-07-2013	31-07-2013	Same Day	RH-19495	Rick Hansi Consumer	New York	New York	United States	10024	US	East	TEC-AC-1C	Technology	Accessories	Plantronix	2309.65	7																																				
3	26341	IN-2013-7	5/2/2013	7/2/2013	Second Class	JR-16210	Justin Ritt Corporate	Wollongong	New South Wales	Australia		APAC	Oceania	FUR-CH-1C	Furniture	Chairs	Novimex	3709.395	9																																				
4	25330	IN-2013-7	17-10-2013	18-10-2013	First Class	CR-12730	Craig Reitt Consumer	Brisbane	Queensland	Australia		APAC	Oceania	TEC-PH-1C	Technology	Phones	Nokia	5175.171	9																																				
5	13524	ES-2013-1	28-01-2013	30-01-2013	First Class	KM-16375	Katherine Home Office	Berlin	Germany			EU	Central	TEC-PH-1C	Technology	Phones	Motorola	2892.51	5																																				
6	47221	SG-2013-4	#####	#####	Same Day	RH-9495	Rick Hansi Consumer	Dakar	Dakar	Senegal		Africa	Africa	TEC-SHA-1C	Technology	Copiers	Sharp	2832.96	8																																				
7	22732	IN-2013-4	28-06-2013	1/7/2013	Second Class	JM-15655	Jim Mitchell Corporate	Sydney	New South Wales	Australia		APAC	Oceania	TEC-PH-1C	Technology	Phones	Samsung	2862.675	5																																				
8	30570	IN-2011-8	#####	#####	First Class	TS-21340	Toby Swin Consumer	Porirua	Wellington	New Zealand		APAC	Oceania	FUR-CH-1C	Furniture	Chairs	Novimex	1822.08	4																																				
9	31192	IN-2012-8	14-04-2013	18-04-2013	Standard	MB-18085	Mick Brown Consumer	Hamilton	Waikato	New Zealand		APAC	Oceania	FUR-TA-1C	Furniture	Tables	Chromcraft	5244.84	6																																				
10	40155	CA-2014-1	14-10-2013	21-10-2013	Standard	JW-15220	Jane Wacc Corporate	Sacramento	California	United States	95823	US	West	OFF-BI-1C	Office Supplies	Binders	Fellowes	5083.96	5																																				
11	40936	CA-2012-1	28-01-2013	31-01-2013	Second Class	JH-15985	Joseph Hc Consumer	Concord	North Carolina	United States	28027	US	South	FUR-TA-1C	Furniture	Tables	Chromcraft	4297.644	13																																				
12	34577	CA-2011-1	5/4/2011	9/4/2011	Second Class	GM-14695	Greg Maxi Corporate	Alexandria	Virginia	United States	22304	US	South	OFF-SU-1C	Office Supplies	Supplies	Martin's	4164.05	5																																				
13	28879	ID-2012-1	19-04-2013	22-04-2013	First Class	AJ-10780	Anthony J Corporate	Kabul	Kabul	Afghanistan		APAC	Central Asia	FUR-TA-1C	Furniture	Tables	Bevis	4626.15	5																																				
14	45794	SA-2011-1	27-12-2013	29-12-2013	Second Class	MM-7260	Magdalen Consumer	Jizan	Jazan	Saudi Arabia		EMEA	EMEA	TEC-CIS-1C	Technology	Phones	Cisco	2616.96	4																																				
15	4132	MX-2012-1	13-11-2013	13-11-2013	Same Day	VF-21715	Vicky Frey Home Office	Toledo	Parana	Brazil		LATAM	South	FUR-CH-1C	Furniture	Chairs	Harbour Crest	2221.8	7																																				
16	27704	IN-2013-7	6/6/2013	8/6/2013	Second Class	PF-19120	Peter Full Consumer	Mudanjiang	Heilongjiang	China		APAC	North Asia	OFF-AP-1C	Office Supplies	Appliance	KitchenAid	3701.52	12																																				
17	13779	ES-2014-5	31-07-2013	3/8/2014	Second Class	BP-11185	Ben Peter Corporate	Paris	Ile-de-France	France		EU	Central	OFF-AP-1C	Office Supplies	Appliance	Breville	1869.588	4																																				
18	36178	CA-2014-1	#####	#####	Second Class	TB-21175	Thomas B Corporate	Henderson	Kentucky	United States	42420	US	South	TEC-AC-1C	Technology	Accessories	Logitech	2249.91	9																																				
19	12069	ES-2014-1	8/9/2014	14-09-2013	Standard	PJ-18835	Patrick J Corporate	Prato	Tuscany	Italy		EU	South	OFF-AP-1C	Office Supplies	Appliance	Hoover	7958.58	14																																				
20	22096	IN-2014-1	31-01-2013	1/2/2014	First Class	JS-15685	Jim Sink Corporate	Townsville	Queensland	Australia		APAC	Oceania	TEC-CO-1C	Technology	Copiers	Brother	2565.594	9																																				
21	49463	TZ-2014-8	#####	#####	Second Class	RH-9555	Ritsa High Consumer	Uvinza	Kigoma	Tanzania		Africa	Africa	OFF-KIT-1C	Office Supplies	Appliance	KitchenAid	3409.74	6																																				
22	46630	PL-2012-7	8/8/2012	#####	First Class	AB-600	Ann Blum Corporate	Bytom	Silesia	Poland		EMEA	EMEA	FUR-HON-1C	Furniture	Tables	Hon	1977.72	4																																				
23	31784	CA-2011-1	29-10-2013	31-10-2013	First Class	SA-20830	Sue Ann R Consumer	Chicago	Illinois	United States	60610	US	Central	TEC-PH-1C	Technology	Phones	Apple iPhone	2735.952	6																																				
24	21586	IN-2011-4	2/5/2011	3/5/2011	First Class	JK-15325	Jason Klar Corporate	Suzhou	Anhui	China		APAC	North Asia	FUR-CH-1C	Furniture	Chairs	SAFCO	2754	6																																				
25	13528	ES-2013-2	27-02-2013	1/3/2013	Second Class	LB-16795	Laurel Bel Home Office	Edinburgh	Scotland	United Kingdom		EU	North	OFF-AP-1C	Office Supplies	Appliance	KitchenAid	5273.7	10																																				
Global_Superstore2																																																							

Understanding the Dataset:

The dataset contains the details of the order done online by people across the globe in the time frame 1-jan-2011 to 31-dec-2014.

Global Super Store Dataset

56 New Notebook Download (12 MB)

About Dataset

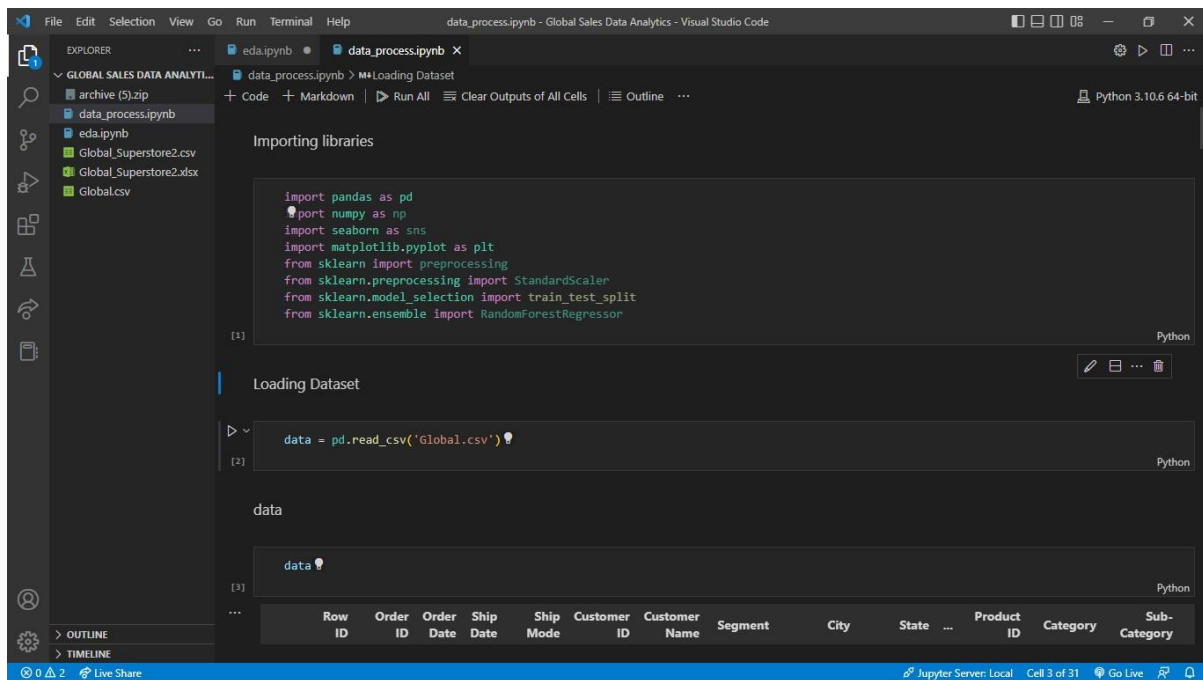
Usability 8.24
License: Open Database License, Cont...
Expected update frequency: Monthly

Context

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 need. I think I am trying to understand a few things like

- Customers Analysis
 - 1. Profile the customers based on their frequency of purchase - calculate frequency of purchase for each customer
 - 2. Do the high frequent customers are contributing more revenue
 - 3. Are they also profitable - what is the profit margin across the buckets
 - 4. Which customer segment is most profitable in each year.
 - 5. How the customers are distributed across the countries -
- Product Analysis
 - 1. Which country has top sales?
 - 2. Which are the top 5 profit-making product types on a yearly basis
 - 3. How is the product price varying with sales - Is there any increase in sales with the decrease in price at a

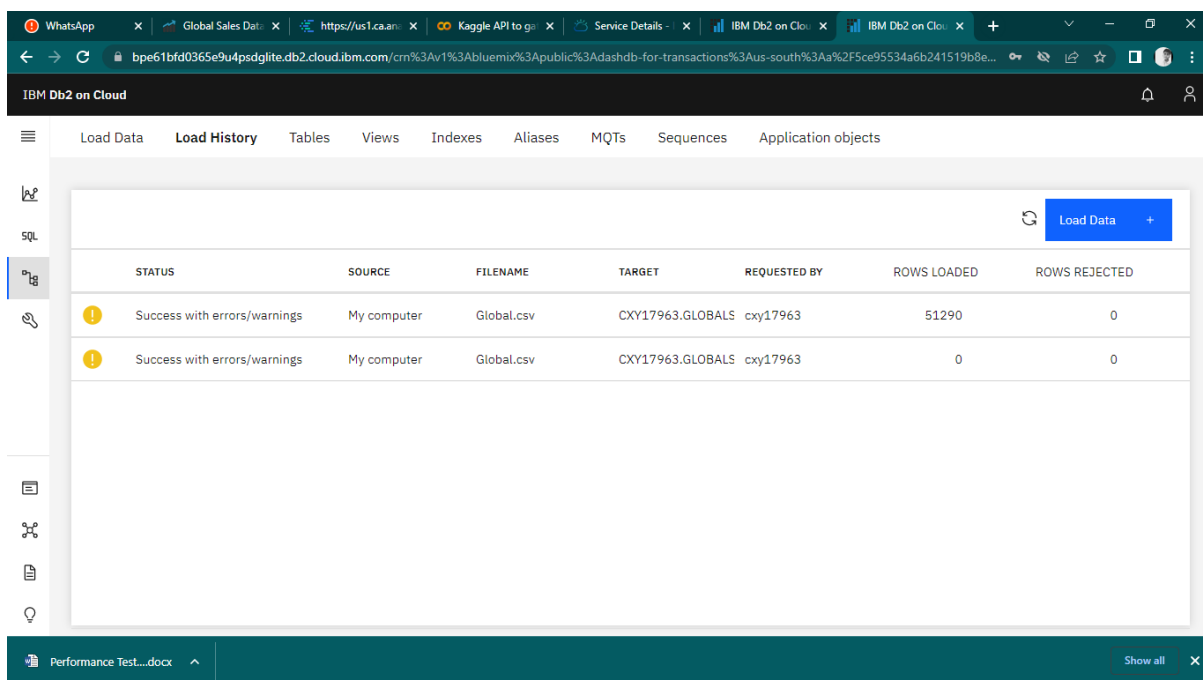
Create Data module:



Uploading dataset to IBM Cloud:

Uploading dataset into IBM cloud.

Using IBM Db2.



IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

CXY17963.GLOBALSALES [Back](#)

[Export to CSV](#)

ROW_ID	ORDER_ID	ORDER_DATE	SHIP_DATE	SHIP_MODE	CUSTOMER_ID	CUSTOMER_NAME	SEGMENT	CITY	STATE
1	MX-2014-143658	02-10-2014	06-10-2014	Standard Class	SC-20575	Sonia Cooley	Consumer	Mexico City	Distrito Federal
2	MX-2012-155047	15-10-2012	20-10-2012	Standard Class	KW-16570	Kelly Williams	Consumer	Dos Quebras das	Risarlada
3	MX-2012-155047	15-10-2012	20-10-2012	Standard Class	KW-16570	Kelly Williams	Consumer	Dos Quebras das	Risarlada
4	MX-2012-155047	15-10-2012	20-10-2012	Standard Class	KW-16570	Kelly Williams	Consumer	Dos Quebras das	Risarlada

Items per page: 50 1-50 items 1 page 1

Performance Test...docx Show all

Login page creation:

Register

Name

E-Mail Address

Password

☐ I agree to the [Terms and Conditions](#)

[Register](#)

Already have an account? [Login](#)

