PROJECT DEVELOPMENT PHASE
SPRINT-2 : DATA PRE PROCESSING AND EXPLORATORY ANALYSIS

DATE	03/11/2022
TEAM ID	PNT2022TMID34610
PROJECT NAME	Retail Store Stock Inventory Analysis.

Team Leader	**BAGIEO A**
Team member	**AROCKIYA LIBIN V**
Team member	**BENILO CHRISTIN ROY A**
Team member	**ASWIN SUDEER S**

- **Reading the CSV file :**

- **Splitting the date to year month and day wise for better readability:**

```
[8] store["Order year"]=store["Order Date"].dt.year
    store["Order month"]=store["Order Date"].dt.month
    store["Order day"]=store["Order Date"].dt.day
    store.head()
```

er te	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	City	...	Sales	Quantity	Discount	Profit	year	month	day	Order year	Order month	Order day
6-08	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States	Henderson	...	261.9600	2	0.00	41.9136	2016	11	8	2016	11	8
6-08	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States	Henderson	...	731.9400	3	0.00	219.5820	2016	11	8	2016	11	8
6-12	6/16/2016	Second Class	DV-13045	Darrin Van Huff	Corporate	United States	Los Angeles	...	14.6200	2	0.00	6.8714	2016	6	12	2016	6	12
5-11	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	...	957.5775	5	0.45	-383.0310	2015	10	11	2015	10	11
5-11	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	...	22.3680	2	0.20	2.5164	2015	10	11	2015	10	11

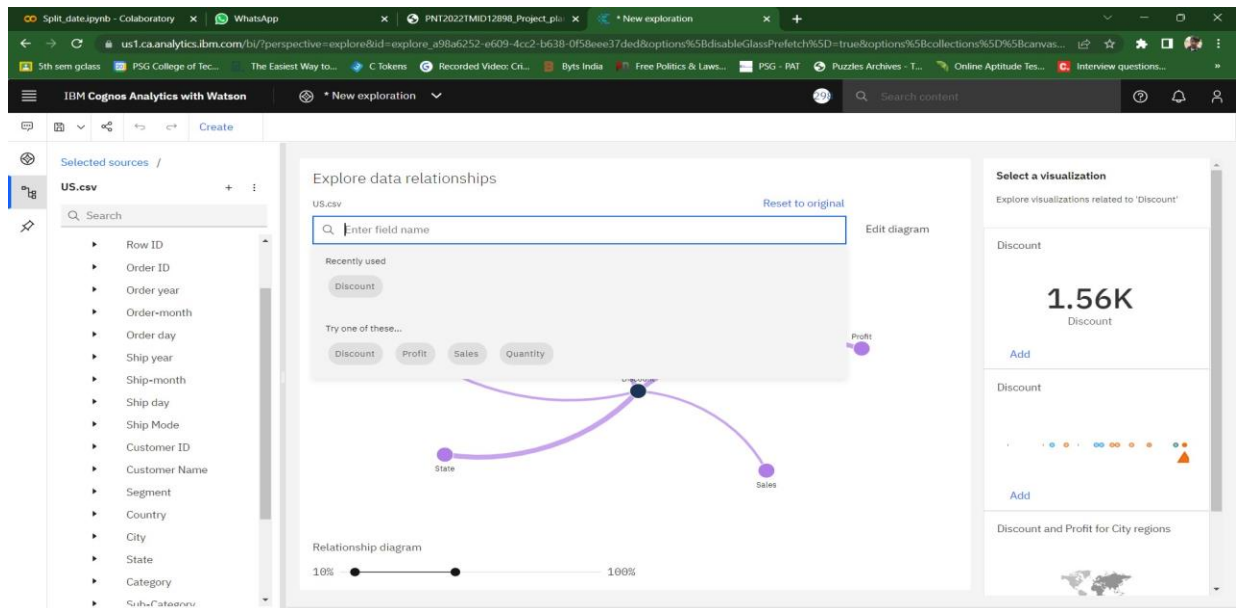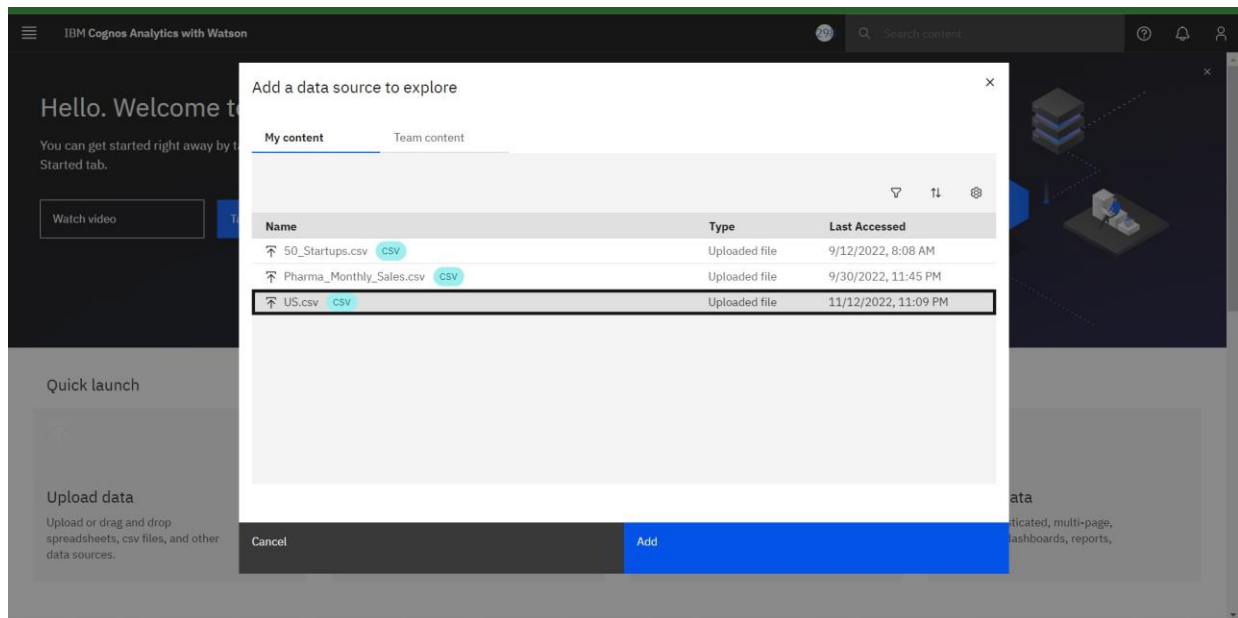- **Reindexing and removing the unwanted columns in the data frame:**


```
[36] new_cols = ["Row ID","Order ID","Order year","Order-month","Order day","Ship year","Ship-month","Ship day","Ship Mode","Customer ID","Customer Name","Seg
    store1=store1.reindex(columns=new_cols)
    store1.head()
```

	Row ID	Order ID	Order year	Order- month	Order day	Ship year	Ship- month	Ship day	Ship Mode	Customer ID	...	Country	City	State	Category	Sub-Category	Product Name	Quantity
0	1	CA-2016-152156	2016	Nov	8	2016	Nov	11	Second Class	CG-12520	...	United States	Henderson	Kentucky	Furniture	Bookcases	Bush Somerset Collection Bookcase	2
1	2	CA-2016-152156	2016	Nov	8	2016	Nov	11	Second Class	CG-12520	...	United States	Henderson	Kentucky	Furniture	Chairs	Hon Deluxe Fabric Upholstered Stacking Chairs,...	3
2	3	CA-2016-138688	2016	Jun	12	2016	Jun	16	Second Class	DV-13045	...	United States	Los Angeles	California	Office Supplies	Labels	Self-Adhesive Address Labels for Typewriters b...	2
3	4	US-2015-108966	2015	Oct	11	2015	Oct	18	Standard Class	SO-20335	...	United States	Fort Lauderdale	Florida	Furniture	Tables	Bretford CR4500 Series Slim Rectangular Table	5 95
4	5	US-2015-108966	2015	Oct	11	2015	Oct	18	Standard Class	SO-20335	...	United States	Fort Lauderdale	Florida	Office Supplies	Storage	Eldon Fold 'N Roll Cart System	2

5 rows × 22 columns

- **Uploading the dataset into cognos:**

Collab file link:
https://colab.research.google.com/drive/1DIxXJarog5u84rdg0B2oUyPi2Cw9BRu3#scrollTo=CdoHvvYOA93B