

Project Development Phase Model Performance Test

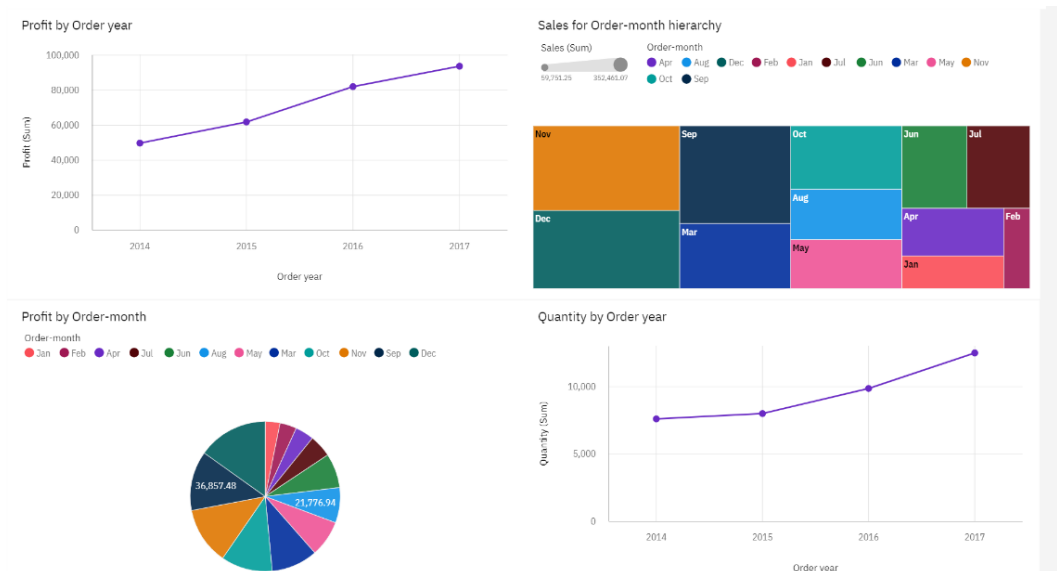
Date	15 November 2022
Team ID	PNT2022TMID12898
Project Name	Retail store stock inventory analysis
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No	Parameter	Screenshot / Values
1.	Dashboard design	No of Visualizations / Graphs : Colab source – 9 Cognos source – 15
2.	Data Responsiveness	Great and high
3.	Amount Data to Rendered (DB2 Metrics)	9994 rows x 23 columns 9994 entries of data being used
4.	Utilization of Data Filters	<ul style="list-style-type: none">• Null values removed• Discretization of certain fields• Splitting the data into multiple columns for easier access and analysis.
5.	Effective User Story	No of Scene Added – 4
6.	Descriptive Reports	No of Visualizations / Graphs – 24

1. Dashboard design : sample dashboard



2. Data responsiveness :



3. Data entries :

The table displays data entries for orders. The columns are: Unnamed: 0, Row ID, Order ID, Order year, Order-month, Order day, Ship year, Ship-month, Ship day, Ship Mode, Country, City, State, Category, Sub-Category, Product Name, Quantity.

Unnamed: 0	Row ID	Order ID	Order year	Order-month	Order day	Ship year	Ship-month	Ship day	Ship Mode	Country	City	State	Category	Sub-Category	Product Name	Quantity
0	0	1	2016	Nov	8	2016	Nov	11	Second Class	United States	Henderson	Kentucky	Furniture	Bookcases	Bush Somerset Collection Bookcase	2
1	1	2	2016	Nov	8	2016	Nov	11	Second Class	United States	Henderson	Kentucky	Furniture	Chairs	Hon Deluxe Fabric Upholstered Stacking Chairs,...	3
2	2	3	2016	Jun	12	2016	Jun	16	Second Class	United States	Los Angeles	California	Office Supplies	Labels	Self-Adhesive Address Labels for Typewriters b...	2
3	3	4	2015	Oct	11	2015	Oct	18	Standard Class	United States	Fort Lauderdale	Florida	Furniture	Tables	Bretford CR4500 Series Slim Rectangular Table	5

9989	9989	9990	CA-2014-110422	2014	Jan	21	2014	Jan	23	Second Class	...	United States	Miami	Florida	Furniture	Furnishings	Ultra Door Pull Handle	3	
9990	9990	9991	CA-2017-121258	2017	Feb	26	2017	Mar	3	Standard Class	...	United States	Costa Mesa	California	Furniture	Furnishings	Tenex B1-RE Series Chair Mats for Low Pile Car...	2	
9991	9991	9992	CA-2017-121258	2017	Feb	26	2017	Mar	3	Standard Class	...	United States	Costa Mesa	California	Technology	Phones	Aastra 57i VoIP phone	2	2
9992	9992	9993	CA-2017-121258	2017	Feb	26	2017	Mar	3	Standard Class	...	United States	Costa Mesa	California	Office Supplies	Paper	It's Hot Message Books with Stickers, 2 3/4" x 5"	4	
9993	9993	9994	CA-2017-119914	2017	May	4	2017	May	9	Second Class	...	United States	Westminster	California	Office Supplies	Appliances	Acco 7-Outlet Masterpiece Power Center, Whitou...	2	2

9994 rows x 23 columns

4. Data filters :

Removed null values

```

✓ [17] df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 9994 entries, 0 to 9993
Data columns (total 23 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Unnamed: 0            9994 non-null   int64
1   Row ID                9994 non-null   int64
2   Order ID              9994 non-null   object
3   Order year            9994 non-null   int64
4   Order-month           9994 non-null   object
5   Order day             9994 non-null   int64
6   Ship year             9994 non-null   int64
7   Ship-month            9994 non-null   object
8   Ship day              9994 non-null   int64
9   Ship Mode             9994 non-null   object
10  Customer ID           9994 non-null   object
11  Customer Name         9994 non-null   object
12  Segment               9994 non-null   object
13  Country               9994 non-null   object
14  City                  9994 non-null   object
15  State                 9994 non-null   object
16  Category              9994 non-null   object
17  Sub-Category          9994 non-null   object
18  Product Name          9994 non-null   object
19  Quantity              9994 non-null   int64
20  Sales                 9994 non-null   float64
21  Discount              9994 non-null   float64
22  Profit                9994 non-null   float64
dtypes: float64(3), int64(7), object(13)
memory usage: 1.8+ MB

```

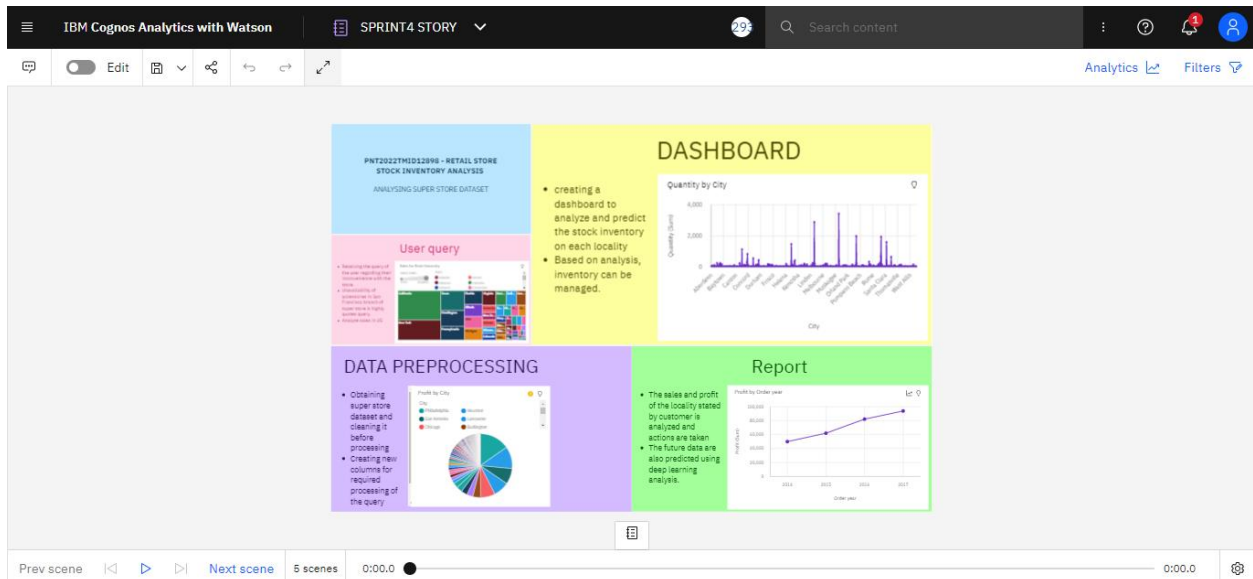
```
[21] df.isnull().sum()
```

```
Unnamed: 0      0
Row ID          0
Order ID        0
Order year      0
Order-month     0
Order day       0
Ship year       0
Ship-month      0
Ship day        0
Ship Mode       0
Customer ID     0
Customer Name   0
Segment        0
Country         0
City            0
State           0
Category        0
Sub-Category    0
Product Name    0
Quantity        0
Sales           0
Discount        0
Profit          0
dtype: int64
```

Discretization of fields : (splitting dates to date, month and year)

Order year	Order- month	Order day	Ship year	Ship- month	Ship day	
2017	Jul	8	2017	Jul	12	\$
2017	Dec	22	2017	Dec	28	\$
2016	May	7	2016	May	11	\$
2015	Mar	10	2015	Mar	10	
2014	Mar	5	2014	Mar	8	

5. User stories :



6. Report :

The final report is uploaded in final deliverables.