MEDICAL INVENTORY OPTIMIZATION

(By sadnya kolhe)

The EDA performed on the data set using python(google colab)

To mount the data set from google drive.

```
Code:- from google.colab import drive

drive.mount('/content/drive')
import pandas as pd
import numpy as np
```



#To read the csv file

```
Code: import pandas as pd

d=pd.read_csv('/content/drive/MyDrive/python colab/csvfile.csv')

df=pd.DataFrame(d)
print(d
```

Result:-

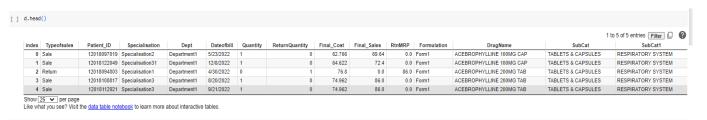
+ Code import pandas as pd
d=pd.read_csv('/content/drive/MyDrive/python
df=pd.DataFrame(d) print(d) Typeofsales Sale Sale Return Sale Specialisation Specialisation2 Specialisation31 Specialisation1 Specialisation3 Specialisation3 Dept
Department1
Department1
Department1
Department1
Department1 Dateofbill 5/23/2022 12/8/2022 4/30/2022 ₽ Patient_ID 12018097019 12018037013 12018122049 12018094803 12018108817 8/20/2022 9/21/2022 Sale 12018112921 14213 14214 14215 14216 14217 Sale Sale Sale Sale Sale Specialisation8 Specialisation8 Specialisation7 Specialisation8 Specialisation8 Department1 12018030540 5/2/2022 7/10/2022 1/31/2022 12/14/2022 4/9/2022 12018073853 12018085318 12018117516 12018006903 Final_Cost 62.766 64.622 76.800 Final_Sales RtnMRP Formulation 69.64 0.0 Form1 72.40 0.0 Form1 0.00 86.0 Form1 Quantity ReturnQuantity lation
Form1
Form1
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Form1
Form1 1 0 74.962 74.962 86.00 86.00 0.0 4050.00 4300.00 4600.00 4055.00 4050.00 0.0 0.0 0.0 0.0 14213 100 57.024 170.980 170.980 57.024 57.024 14214 14215 100 0 14216 14217 0 DrugName SubCat ACEBROPHYLLINE 100MG CAP ACEBROPHYLLINE 100MG CAP ACEBROPHYLLINE 200MG TAB ACEBROPHYLLINE 200MG TAB ACEBROPHYLLINE 200MG TAB TABLETS & CAPSULES
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TABLETS & CAPSULES RESPIRATORY SYSTEM RESPIRATORY SYSTEM RESPIRATORY SYSTEM RESPIRATORY SYSTEM RESPIRATORY SYSTEM 14213 NaN 14214 14215 NaN NaN NaN 14216 14217 NaN [14218 rows x 14 columns]

#To see the first entries

Code:

d.head()

Result:-



#To see last entries

Code:-d.tail()

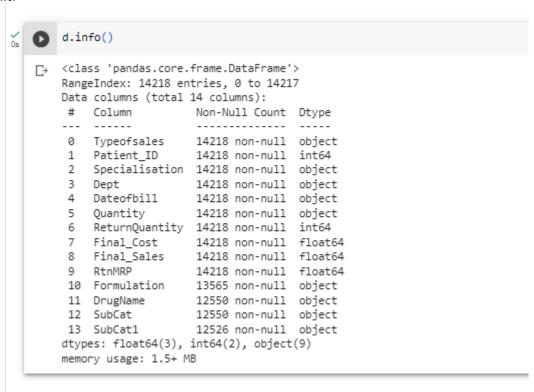
Result:-



To check the information of the data set

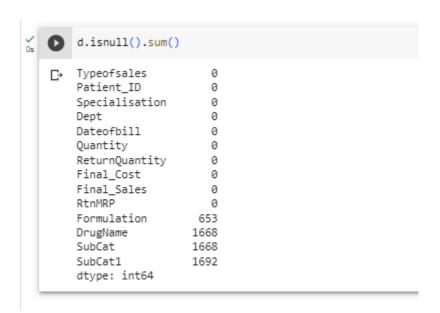
Code:-d.info()

Result:-



#To check the number of null values in parameter

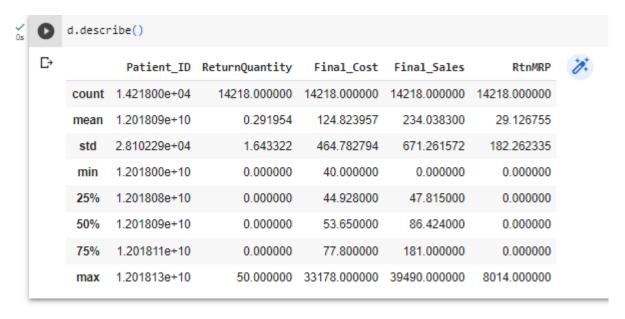
Code:-d.isnull().sum()



To describe the data:-

Code:-d.describe()

Result:-



To know the shape:

Codee:-df.shape



#To drop the null data

Code:-

Data_without_null =data.dropna()

Print(data_without_null)

```
data_without_null = data.dropna()
       print(data_without_null)
                                                                                              Dept
Department1
Department1
                  Typeofsales
Sale
Sale
                                       Patient_ID Specialisation
12018097019 Specialisation2
12018122049 Specialisation31
                                                                                                                     Dateofbill
5/23/2022
12/8/2022
                          Return
Sale
                                       12018094803
12018108817
                                                                Specialisation1
Specialisation3
                                                                                              Department1
Department1
                                                                                                                       4/30/2022
8/20/2022
                              Sale 12018112921
                                                                Specialisation3
                                                                                               Department1
                                                                                                                       9/21/2022
       14213
14214
14215
14216
14217
                              Sale 12018030540
                                                                 ...
Specialisation8
                                                                                                                    7/10/2022
1/31/2022
12/14/2022
4/9/2022
                              Sale 12018073853
Sale 12018085318
Sale 12018117516
Sale 12018006903
                                                                Specialisation8
Specialisation7
Specialisation8
                                                                                              Department1
Department1
Department1
                                                                Specialisation8 Department1
                  Quantity ReturnQuantity Final_Cost Final_Sales RtnMRP
                                                                                                              0.0
0.0
86.0
0.0
                                                                      62.766
64.622
76.800
                                                                                               69.64
72.40
0.00
                                                                       74.962
                                                                                              86.00
86.00
                                                                    57.024
170.980
170.980
57.024
57.024
                                                                                                                0.0
       14213
14214
                           100
100
                                                                                           4050.00
4300.00
       14215
14216
14217
                                                                                                                0.0
                          100
100
                                                                                           4600.00
                                                                                           4055.00
```