1 1 1 11 [16]: #	0 19 10 1 69 30 1 1 35 25 1 24 10 3 175 30 5 0 175 144 2 35 10 1 65 30 1 1 35 25 3 37 10 3 328 30 5 1 175 146 4 44 10 3 175 30 5 0 175 145 13 1359 10 1 69 30 1 1 35 25
d	13 1359 10 1 69 30 1 1 35 25 14 1360 10 1 35 30 1 0 35 25 15 1361 10 1 61 30 1 1 35 25 16 1362 10 1 35 30 1 0 35 25 17 1363 10 1 63 30 1 1 35 25 8 rows × 9 columns
_	f[['order-now', 'product name']] order-now product name green Nike Men's Fingertrap Max Training Shoe rorange Elevation Training Mask 2.0 green adidas Brazuca 2014 Official Match Ball green adidas Kids' F5 Messi FG Soccer Cleat
1 1 1	didas Men's F10 Messi TRX FG Soccer Cleat 13 green Adult dog supplies 14 orange Smart watch 15 green Toys 16 orange Fighting video games 17 green Summer dresses
11 [18]: d	17 green Summer dresses 8 rows × 2 columns f1=pd.read_csv('Sales_Shipment_Data.csv') f1.shape 180519, 46)
24]: #	for numerical columns for Sales_Shipment_Data f1[['Department Id','Order Id','Product Id','shipping date (DateOrders)','Benefit per order','Days for shipment (scheduled)','Days for shipping (real)', Department Id','Order Id','Product Id','shipping date (DateOrders)','Benefit per order','Days for shipment (scheduled)','Days for shipping (real)', Department Id','Order Id','Product Id','shipping date (DateOrders)','Benefit per order','Days for shipment (scheduled)','Days for shipping (real)', Department Id','Order Id','Product Id','shipping date (DateOrders)','Benefit per order','Days for shipment (scheduled)','Days for shipping (real)', Order Idem Id Order Idem Idem Idem Idem Idem Idem Idem Idem
	1 5 3908 502 3/3/2015 0:47 9.490000 2 4 34.034836 -118.260025 9723 16.000000 0.16 9722 50.000000 0.11 2 84.000 2 5 52009 502 2/3/2017 4:43 30.709999 2 5 41.623779 -87.648697 9511 5.500000 0.06 129954 50.000000 0.33 2 94.500 3 5 1179 502 1/23/2015 4:42 27.549999 2 5 41.904102 -87.937843 3326 5.000000 0.05 2929 50.000000 0.29 2 95.000 4 5 56019 502 4/2/2017 17:36 47.500000 2 5 36.225159 -115.195183 907 5.000000 0.05 140056 50.00000 0.50 2 95.000 5.000000 0.05 140056 50.000000 0.50 2 95.000
1	80514 4 49890 365 1/4/2017 6:20 -302.350006 4 6 33.320156 -117.156357 9615 47.990002 0.16 124746 59.990002 -1.20 5 251.960 80515 4 29410 365 3/11/2016 7:16 117.010002 4 6 47.678699 -122.321762 1971 50.990002 0.17 73577 59.990002 0.47 5 248.960 80516 3 24350 191 12/28/2015 10:32 -46.869999 4 6 33.823872 -118.007393 7663 124.989998 0.25 60910 99.989998 -0.13 5 374.958 80517 4 45725 365 11/4/2016 11:09 125.260002 4 6 32.719875 -117.139725 415 38.990002 0.13 114288 59.990002 0.48 5 260.958 80518 4 24050 365 12/24/2015 1:26 117.010002 4 6 38.495419 -121.479187 7141 50.990002 0.17 60174 59.990002 0.47 5 248.960
18 25]: #	for categorical columns for Sales_Shipment_Data f1[['Category Name','Class','Customer City','Customer Country','Customer Fname','Customer Lname','Customer Segment','Customer State','Customer Street','
25]:	Category Name Class Customer City Country Customer Customer Customer Segment Customer State Cust
	1 Women's Value- Apparel Moderate Angeles EE. UU. Rose White Corporate CA Silver Berry Impasse Late Golf LATAM Soyapango Salvador America San Salvador Number 2 Women's Apparel Moderate Number FEE. UU. Joshua Brady Corporate IL Wishing Horse Acres 4 Women's Value- Moderate Number
	3 Women's Apparel Woderate Number Elmhurst EE. UU. Mary Smith Corporate IL Tawny Key Late Golf LATAM Poza Rica de Hidalgo México Central America Veracruz Key Late Golf LATAM San Pedro Sula Honduras Central America Cortés Parkway
	RO514 Cleats High Value-Small Seattle EE. UU. Richard Stokes Corporate WA 2865 Blue Rise Way Late Apparel Pacific Asia Yuyao China Eastern Asia Zhejiang
	Number High Cardio Value- Small Number High High High Fquipment Small Number High High Anaheim EE. UU. Mary Smith Corporate CA Stony Late Footwear Asia Rangún (Birmania) Asia Rangún Range High
1	80517 Cleats Value-Small Number San Diego EE. UU. Mary Allen Corporate CA Golden By-pass Late Apparel Pacific Asia Kahramanmara? Turquía West Asia Kahramanmara? 80518 Cleats High Value-Small Number Sacramento EE. UU. Mary Jackson Corporate CA Golden Limits Late Apparel Pacific Asia Jiangmen China Eastern Guangdong Limits Corporate CA Golden Limits Corporate CA Golden Limits Corporate CA Golden Limits Corporate CA Golden Limits Corporate CA Corporate CA Golden Limits Corporate CA Corporate CA Golden Limits Corporate CA
[]: i	mport pandas as pd mport numpy as np f=read.csv('Inventory_Stock_Data.csv') f.shape
[2]: i [3]: d [7]: s d	<pre>mport pandas as pd mport numpy as np f=pd.read_csv('Inventory_Stock_Data.csv') um_cols =['product id','avg lead time','avg order qty','current stock','max lead time','max order qty','mod','reorder point','safety stock'] f[sum_cols].sum()</pre>
[7]: p a a c c m m m r s	roduct id 81370 vg lead time 1180 vg order qty 246 urrent stock 18965 ax lead time 3540 ax order qty 374 od 64 eorder point 13090 afety stock 10659 type: int64
[6]: c [7]: i [8]: d	mport numpy as np f1=pd.read_csv('Sales_Shipment_Data.csv')
(9]: (10]: s d 10]: D 0	f1.shape 180519, 46) um_colss=['Department Id','Order Id','Product Id','shipping date (DateOrders)','Benefit per order','Days for shipment (scheduled)','Days for shipping (rf1[sum_colss].sum() epartment Id 982648 rder Id 6538740246 rdouct Id 125011170 hipping date (DateOrders) 2/2/2017 17:172/2/2015 0:472/2/2017 14:2017
s B D D L L 0 0	roduct Id
0 0 0 0 0 0 P S	
4]: 5 3]: i umpy a 4]: d	mport pandas as pd
5]: (7]: d 7]: 9	f1.shape 180519, 46) f1['Delivery Status'].value_counts()['Late'] 8977 f1['Delivery Status'].value_counts()['Advance'] 1592
9]: d 9]: 7 0]: d	f1['Delivery Status'].value_counts()['Canceled'] 754 f1['Delivery Status'].value_counts()['On time'] 2196
.4]: i	mport pandas as pd mport numpy as np
8]:	
3]: i	<pre>mport pandas as pd mport numpy as np f1=pd.read_csv('Sales_Shipment_Data.csv') f1[date_time]=[['order date (DateOrders)','shipping date (DateOrders)']]</pre>
9]: d	ate_time order date (DateOrders)
1 1 1	4 3/28/2017 17:36 4/2/2017 17:36
18]: d	f1['shipping date (DateOrders)']=pd.to_datetime(df1['shipping date (DateOrders)']) f1['shipping date (DateOrders)'] 2017-03-02 17:17:00 2015-03-03 00:47:00
1 1 1	2015-01-23 04:42:00
numpy a	f1=pd.read_csv('Sales_Shipment_Data.csv') f1 Product Category Class Customer Custo
	The content of the
	2 24 Women's Apparel Apparel Apparel Apparel Apparel Number Value-Moderate Number Harvey EE. UU. Joshua 9511 Brady Corporate IL 0.06 129954 50.00000 0.33 2 94.50000 30.70999 3 24 Women's Apparel Number Moderate Number Value-Moderate Number EE. UU. Mary 3326 Smith Corporate IL 0.05 2929 50.00000 0.29 2 95.00000 27.54999 4 24 Women's Apparel Number Moderate Value-Moderate Number North Las Vegas EE. UU. Samantha 907 Kline Corporate NV 0.05 140056 50.000000 0.50 2 95.000000 47.50000
	80514 17 Cleats Small Number Escondido Small Number EE. UU. Charles 9615 Smith Corporate CA 0.16 124746 59.990002 -1.20 5 251.960007 -302.35000 80515 17 Cleats Small Number Seattle EE. UU. Richard 1971 Stokes Corporate WA 0.17 73577 59.990002 0.47 5 248.960007 117.01000
1	80516 9 Cardio Value-Small Number Anaheim EE. UU. Mary 7663 Smith Corporate CA 0.25 60910 99.989998 -0.13 5 374.959992 -46.86999 80517 17 Cleats High Value-Small Number San Diego EE. UU. Mary 415 Allen Corporate CA 0.13 114288 59.990002 0.48 5 260.959992 125.26000 High Value-Va
18 7]: d	80518 17 Cleats Value-Small Number Sacramento EE.UU. Mary 7141 Jackson Corporate CA 0.17 60174 59.990002 0.47 5 248.960007 117.01000 Number Status')['order date (DateOrders)'].resample('W').count().loc['Late'] YPREFROR Traceback (most recent call last)
F	<pre>input In [17], in <cell 1="" line:="">()> 1 df1.groupby('Delivery Status')['order date (DateOrders)'].resample('W').count().loc['Late'] ile ~\anaconda3\lib\site-packages\pandas\core\groupby\groupby.py:2417, in GroupBy.resample(self, rule, *args, **kwargs) 2319 """ 2320 Provide resampling when using a TimeGrouper. 2321 () 2413 5 2000-01-01 00:03:00 5 1 2414 """ 2415 from pandas.core.resample import get_resampler_for_grouping</cell></pre>
- -	<pre>> 2417 return get_resampler_for_grouping(self, rule, *args, **kwargs) ile ~\anaconda3\lib\site-packages\pandas\core\resample.py:1437, in get_resampler_for_grouping(groupby, rule, how, fill_method, limit, kind, on, **kwargs 1435 # .resample uses 'on' similar to how .groupby uses 'key' 1436 tg = TimeGrouper(freq=rule, key=on, **kwargs) > 1437 resampler = tgget_resampler(groupby.obj, kind=kind) 1438 return resamplerget_resampler_for_grouping(groupby=groupby) ile ~\anaconda3\lib\site-packages\pandas\core\resample.py:1599, in TimeGrouperget_resampler(self, obj, kind) 1596 elif isinstance(ax, TimedeltaIndex): return TimedeltaIndexResampler(obj, groupby=self, axis=self.axis)</pre>
.5]: d	1597 return TimedeltaIndexResampler(obj, groupby=self, axis=self.axis) > 1599 raise TypeError(1600 "Only valid with DatetimeIndex, " 1601 "TimedeltaIndex or PeriodIndex, " 1602 f"but got an instance of '{type(ax)name}'" 1603) ypeError: Only valid with DatetimeIndex, TimedeltaIndex or PeriodIndex, but got an instance of 'RangeIndex' f1['order date (DateOrders)']=pd.to_datetime(df1['order date (DateOrders)'])
20]: 0 1 2 3 4	2015-01-18 04:42:00
1 1 1 N	
	rom sklearn.cluster import KMeans mport sklearn.preprocessing import MinMaxscaler rom matplotlib import pyplot as plt matplotlib inline f=pd.read_csv('Inventory_Stock_Data.csv')
[3]: f []: i [6]: f [7]: %	f=pd.read_csv('Inventory_Stock_Data.csv')
[3]: f [3]: i [6]: f [7]: % d [9]: d 10]: d	orange 24 Elevation Training Mask 2.0 10 3 175 30 5 0 175 144
[3]: f [6]: i [6]: f [7]: % [9]: d [9	order-nowproduct idproduct nameavg lead timeavg order qtycurrent stockmax lead timemax order qtymodreorder pointsafety stockgreen19Nike Men's Fingertrap Max Training Shoe1016930113525orange24Elevation Training Mask 2.01031753050175144green35adidas Brazuca 2014 Official Match Ball1016530113525green37adidas Kids' F5 Messi FG Soccer Cleat1033283051175146
3]: f [3]: i [4]: i [6]: f [7]: % [6]: d [7]: 0 [1]: 1 [2]: 3 [4]: 4 [3]: p [3]: 4	green 19 Nike Men's Fingertrap Max Training Shoe 10 1 69 30 1 1 3 35 25 orange 24 Elevation Training Mask 2.0 10 1 65 30 1 1 1 35 25 green 37 adidas Brazuca 2014 Official Match Ball 10 1 65 30 1 1 1 35 25 orange 44 adidas Men's F10 Messi TRX FG Soccer Cleat 10 3 175 30 5 0 175 146 orange 44 adidas Men's F10 Messi TRX FG Soccer Cleat time']
3]: f]: i 6]: f 7]: % d 9]: d 0]: 1 2 3 4 3]: p 3]: <	Production Pro
[3]: f [6]: i [6]: f [7]: % d [9]: d [10]: d [Product name Prod
3]: f i i 6]: i 6]: f 7]: % d 9]: d .0]: 0 1 2 3 4 .3]: p .3]: < 2 2 1 1 1 .5]: d .6]: d .6]: 0 .6]: 0 .7]: 0 .7]: 0 .8]: 0	### Product name product rame product name avg lead time avg order qvy current stock max red qvy mod reorder point sately stock page 19 New Mem's Fingerring Nate 2 10 9 30 1 1 1 35 25 25 25 27 20 20 20 20 20 20 20
[3]: f [6]: i [6]: f [7]: % d [9]: d [10]: 0 1 2 3 4 13]: p 13]: < 14 11 11 11 11 11 11 11 11 11 11 11 11	Secretaria Sec
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3]: f 6]: i 6]: f 7]: % d 9]: d .0]: 0 1 2 3 4 .3]: p .3]: < .3]: 4 .4]: p .4]: 5 .4 .4 .5]: d .6]: i .7]: i .8]: d .8]:	The product came Product Product came Product came Product Produ
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3]: f]: i 6]: f 7]: % d 9]: d 9]: d 9]: d 9]: d 11 23 43 4]: p 4]: f 7]: i 8]: d 11 11 11 11 11 11 11 11 11	Section Sect
[3]: f [6]: i [6]: f [7]: % [8]: d [9]: d [10]: 0 [10]	Part
3]: f (a): f (b): f (c): f (d): f (d): f (e): f (e): f (f): f	The content is not content to the
3]: f (a): f (b): f (c): f (d): f	Section Part
13]: f 14]: f 16]: f 16]: f 17]: f 18]: f	Martin M
3]: f (a): f (b): f (c): f (d): f (d): f (e): f	Martin M