memory usage: df.head()		ull int64 ull int64		ating •	ne Bro-l	nurch -	at im-	endo:	offere '	in «
1D Warehous 0 1 1 2 2 3 3 4 4 5	 e_block D Flight Flight A Flight B Flight C Flight 		S Customer_rad4 4 2 3 2	2 5 2 3 2	177 216 183 176 184	purchases Production 3 2 4 4 4 3	low low low medium medium	F M M F	59 48 10 46	1233 3088 3374 1177 2484
	ers for different warehouses _block"].value_counts()									
Rating Count df["Customer_ 3 2239 1 2235 4 2189 5 2171	rating"].value_counts()									
Numbers of on df["Reached.o 1 6563 0 4436	time/not on time order n.Time_Y.N"].value_count									
print(count) 854	n time delivery f[(df["Customer_rating"] ot on time delivery	== 5)&(df["Reac	hed.on.Time_	Y.N"] == 0)])						
print(count_1 1313 numbers of hig	<pre>(df[(df["Customer_rating) h importance and rating 5 nce = len(df[(df["Produc</pre>									
<pre>df['Mode_of_S axes[0, 0].se df['Cost_of_t axes[0, 1].se df['Discount_</pre>	nportance) lt.subplots(nrows=2, nco nipment'].hist(ax=axes[0 t_title('Mode of Shipmen ne_Product'].hist(ax=axe t_title('Cost of the Pro offered'].hist(ax=axes[1 t_title('Discount offere	, 0]) t') s[0, 1]) duct')	, 6))							
<pre>axes[1, 1].se plt.tight_lay plt.show()</pre>	Mode of Shipment		f the Product							
5000 4000 3000 2000 1000 Flight	Ship Road Discount offered		200 250 ght in gms	300						
cont_table = print(cont_ta plt.scatter(d plt.title("Cu	od.crosstab(df["Product_ole) f["Product_importance"], stomer Ratings by Productoduct Importance")	<pre>importance"], df df["Customer_ra</pre>		8000 rating"])						
plt.ylabel("C plt.show() Customer_ration Product_import high low medium	ng 1 2 3	4 5 193 186 1060 1051 936 934 ance								
4.5 4.0 Sometiment Rating 3.5 2.5 2.0 1.5 1.0 bow	medium Product Importance	high								
<pre>plt.xlabel("C plt.ylabel("C plt.title("Re Text(0.5, 1.0)</pre>	x="Customer_care_calls", ustomer Care Calls") ustomer Rating") lationship between Customer Rationship between	mer Care Calls a Customer Care Ca	nd Customer	Rating")	tomer care call	ls')				
3.15 3.10 3.05 3.00 2.95 2.90 2.85 2.80	3 4 5 Customer Care Calls	tomer care calls 6 7								
<pre>plt.xlabel("C plt.ylabel("C plt.title("Re</pre>	"whitegrid") x="Cost_of_the_Product", ost of the Product") ustomer care calls") lationship between Cost , 'Relationship between	of the Product a	nd Customer	Rating")						
Relationship to 7 6 Silver Care Calls 7 6 100	150 200 250 Cost of the Product	stomer Rating 300								
<pre>plt.xlabel("D plt.ylabel("C plt.title("Re</pre>	="whitegrid") x="Discount_offered", y= iscount offered") ustomer Rating") lationship between Custo	mer Care Calls a	nd Customer	Rating")	t offered')					
3.75 3.50 3.25 3.00 2.75 2.50 2.25	0 20 30 40	Discount offered								
<pre>plt.xlabel("P plt.ylabel("R</pre>	Discount offered "whitegrid") "Product_importance", y roduct_Importance") eached.on.Time_Y.N") lationship between Produ									
1.	Product Importance and		ce and Deliv	ery Time')						
]: cols = ['Cus	medium Product_Importance etween different factors and tomer_care_calls', 'Cust gsize = (18, 20))		st_of_the_Pr	oduct','Prior	_purchases','Di	iscount_offered	,'Weight_in_gr	ns']		
ax = sns.k	e(len(cols)): mber <= 8: plt.subplot(4, 2, plotnudeplot(x = cols[i], data itle(f"\n{cols[i]} Value x += 1	= df , $ax = ax$, h		on.Time_Y.N')						
0.40 0.35 0.30	Customer_ca	are_calls Valu		ached.on.Time_Y.N 0 1	0.175 0.150		Customer_	rating Value		ached.on.Time 0 1
0.25 0.20 0.15 0.10 0.05 0.00	2 3	4 5	6	7	0.125 0.100 0.075 0.050 0.025 0.000		2	3	4	5
0.004	С	4 5 ustomer_care_calls _Product Valu	ie Counts	ached.on.Time_Y.N — 0 — 1		1	(ases Value	Counts	ached.on.Time 0 1
0.003 					0.25 					
0.000		200 ost_of_the_Product offered Value		300 ached.on.Time_Y.N	350	2		erior_purchases _gms Value		10
0.040 0.035 0.030 0.025 0.020 0.015				0 1	0.000175 0.000150 0.000125 2is 0.000100 0.000075					0 1
0.010 0.005 0.000	f.corr())	40 Discount_offered	60)	0.000050 0.000025 0.000000	20	000	4000 Weight_in_gms	6000	8000
]: <axessubplot:< td=""><td>D Is</td><td></td><td>- 1.0 - 0.8 - 0.6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></axessubplot:<>	D Is		- 1.0 - 0.8 - 0.6							