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[173	120 2 7 0 0 1 2 3 4	#AC3203  #AC3204  #AC3204  #AC3204  #AC3204  #AC3205  #AC3204  #AC3206  #AC	ame 360 360 360 359 n 358 c. 468 462 461 jo 460 14:17: 14:15:  13:02: 15:32: 15:32: 15:32: 16:09: 16:08: 16:09: 16	Jatas  Nan  Nan  Nan  Nan  Nan  Nan  Nan  N	## Paid  ##	Paid at	fulfilled of fulfi	100.00   Name   133.00   Name   133.00   Name   N	ccepts keting Cui	GBP  GBP  GBP  NaN  GBP  GBP  GBP	18.5  16.0  59.0  16.0   NaN  0.0  0.0  79.0	7.99 7.99 7.99 7.99 0.00 0.00 0.00	NaN  NaN  NaN  NaN  NaN  NaN  NaN  NaN
[173 [173	[20270] [20270	#AC3203  #AC3204  #AC3205  #AC3204  #AC3204  #AC3206  #AC3206  #AC3206  #AC3206  #AC3207  #AC	ame 360 360 360 379 n 389 n 398 n 39	In an angiliance and angiliance angiliance and angiliance and angiliance and angiliance and angiliance and angiliance and angiliance angiliance and angiliance	## Financial  ## Paid  ## Paid	Paid at   Count   Co	fulfilled of fulfi	100.00   Name   133.00   Name   133.00   Name   N	ccepts keting Cui	GBP  GBP  GBP  NaN  GBP  GBP  GBP	18.5  16.0  59.0  16.0   NaN  0.0  0.0  79.0	7.99 7.99 7.99 7.99 0.00 0.00 0.00	NaN  NaN  NaN  NaN  NaN  NaN  NaN  NaN
[173	Canara   C	Name	## A CONTRIBUTE OF THE PROPRIES AND		## Pinancial ## Pi	## Table   Paid at   Full   Paid at   Paid at	fulfilled of fulfi	100.00   Nain   130.00   Nain   130.00   Nain   130.00   Nain	ccepts Cur yes  yes  no  no  no  no  ono  ono  ono  ono	GBP  GBP  GBP  NaN  GBP  GBP  GBP  GBP  GBP  GBP  GBP	18.5  16.0  16.0  16.0  16.0  16.0  0.0  0.0	7.99 7.99 7.99 7.99 7.99 7.99 0.00 0.00 0.00 0.00 0.00	NaN  NaN  NaN  NaN  NaN  NaN  NaN  NaN
[173 [173	C   C   C   C   C   C   C   C   C   C	No.	the (a)  ame (a)  ane		## Paid  ##	## Tall   Paid at   False)   Paid at   False)   Paid at   Paid at	fulfilled and fulfilled fulfilled and fulfil	100.00   NaN     130.00   NaN     130.00   NaN     100.00   NaN	ccepts   Cut	GBP  GBP  GBP   NaN  GBP  GBP  GBP  GBP  GBP  GBP  GBP  GB	18.5  16.0  16.0  16.0  16.0  16.0  0.0  79.0  7	7.99 7.99 7.99 7.99 7.99 7.99 0.00 0.00 0.00 0.00 0.00 0.00 0.00	NaN  NaN  NaN  NaN  NaN  NaN  NaN  NaN
[252 [253 [253 [253 [253 [253	Canada   C	#AC50461 #AC50462 #AC303 #AC303 #AC303 #AC304 #AC304 #AC304 #AC304 #AC306	the (	## Company of the com	## Paid  ##	## Table   Paid at   False   Paid at   False   Paid at   False   Paid at   P	fulfilled of fulfi	100.00   Name	ccepts   Cut	GBP  GBP  GBP  GBP   NaN  GBP  GBP  GBP  GBP  GBP  GBP  GBP  GB	18.5  16.0  16.0  16.0  16.0  16.0  0.0  0.0	7.99 7.99 7.99 7.99 7.99 7.99 0.00 0.00 0.00 0.00 0.00 0.00 0.00	NaN  NaN  NaN  NaN  NaN  NaN  NaN  NaN
[252	# 130103  1301	Name   ACS046   ACS046   ACS06   ACS07   ACS	## A an acond 7	## Company   Com	## Paid  ##	## Table   Paid at   False   Paid at   False   Paid at   False   Paid at   P	fulfilled of fulfi	100.00   Name	ccepts   Cut	GBP  GBP  GBP  GBP   NaN  GBP  GBP  GBP  GBP  GBP  GBP  GBP  GB	18.5  16.0  16.0  16.0  16.0  16.0  0.0  0.0	7.99 7.99 7.99 7.99 7.99 7.99 0.00 0.00 0.00 0.00 0.00 0.00 0.00	NaN  NaN  NaN  NaN  NaN  NaN  NaN  NaN
[252 [252 [253 [253 [253 [253 [253 [253 [279	# 130104  130105    Call   Cal	#AC50460  #AC3020  #A	## Per Control  ## Per Control	## Companies of the com	## Financial and	## Count   Fee   False   False	Fulfilled 16  fulfilled 26  fulfilled 36  fulfilled 36  fulfilled 36  fulfilled 46  fulfilled 46  fulfilled 46  fulfilled 46  fulfilled 56  fulfilled 46  fulfilled 56  fulfilled 66  fu	100.00   133.00   133.00   100.00   1	ccepts Cur  yes  yes  NaN  no  no  no  no  no  no  no  no  no  n	GBP  GBP  GBP  GBP  GBP  GBP  GBP  GBP	18.5  16.0  59.0  16.0  16.0   NaN  0.0  0.0  79.0  47.067208  22.810961  0.000000  49.000000  49.000000  80.000000  80.000000	7.99 7.99 7.99 7.99 7.99 7.99 0.00 0	NaN
[252 [ [252 [ [253 [ [253 [ [253 [ [253 [ [253 [ [253 [ [253 [ [273	# 130103  130104  130103  130104  130103  130103  130103  130104  130103  130103  130103  130103  130103  130103  130103  130104  130103  1301	#AC3046 #AC304	## ## ## ## ## ## ## ## ## ## ## ## ##	## Company   Com	## Paid  ##	## Count   Fee   False   False	fulfilled of fulfi	1.00.00   1.00	Cccepts   Cut	GBP  GBP  GBP  GBP  GBP  GBP  GBP  GBP	18.5  16.0  59.0  16.0   NaN  0.0  0.0  0.0  79.0  22.810961  0.000000  34.000000  49.000000  66.000000  80.0000000  80.0000000  10.0	7.99 7.99 7.99 7.99 7.99 7.99 0.00 0	NaN
[252 [273 [173 [1773 [273.	10105   1   1   1   1   1   1   1   1   1	#AC3046 #AC304	## A Province  ## A P	### Companies of the co	## Paid  ##	## Total  ## Tot	fulfilled 16 fulfi	100.00   1	Cccepts   Cut	GBP  GBP  GBP  GBP  GBP  GBP  GBP  GBP	18.5  16.0  59.0  16.0  16.0   NaN  0.0  0.0  0.0  0.0  79.0  0.0  1.0  1.0  1.0  1.0  1.0  1.0	7.99 7.99 7.99 7.99 7.99 7.99 0.00 0	######################################
[252 [252 [253 [253 [273	### 130105    130105   130105   130105   130105   130105   130105   130107	#AC302  #AC304  #AC305  #AC306  #AC306  #AC306  #AC306  #AC306  #AC306  #AC306  #AC307  #AC306  #AC306  #AC306  #AC307  #AC306  #AC306  #AC307  #AC306  #AC306  #AC306  #AC306  #AC306  #AC307  #AC306  #AC307  #AC307  #AC306  #AC307  #AC307  #AC307  #AC307  #AC307  #AC307  #AC308  #AC308  #AC300  #AC300	## A CONTRIBUTE OF THE PROPRIATE OF THE	## Companies of the com	### Paid  ### Pa	## Ped at 1	### Company of the Co	### Lineite quanti 100.00 10.0	ccepts Cur yes  yes  yes  no	GBP  GBP  GBP  GBP  GBP  GBP  GBP  GBP	18.5  16.0  16.0  16.0  16.0  16.0  0.0  0.0	7.99 7.90 7.9	Manded nount
[252 [252 [253 [253 [253 [253 [273	# 130104  # 130104  # 130104  # 130104  # 130104  # 130104  # 130104  # 130105  # 130106  # 130106  # 130107  # 1301	#AC300  #AC300	## A Property of the control of the	## Company of the com	### Paid  ### Pa	## Paid at 1  ##	fulfilled of fulfi	1000	ccepts Cur yes	GBP  GBP  GBP  GBP  GBP  GBP  GBP  GBP	18.5  16.0  16.0  16.0  16.0  NaN  0.0  0.0  0.0  79.0	7.990 7.900 7.900 7.900 7.900 7.900 7.900 7.900 7.900 7.900	Manded nount
[252 [252 [253 [253 [253 [253 [273	10103   1   1   1   1   1   1   1   1   1	#AC300  #AC3046  #AC66  #AC60  #AC90  #AC304  #A	## A CONTRIBUTE OF THE PROPRIES OF THE PROPRIE	### Company  #### Company	### Paid  ### Pa	## Tools	fulfilled of fulfi	### Lineth  ### Li	ccepts	GBP  GBP  GBP  GBP  GBP  GBP  GBP  GBP	18.5  16.0  59.0  16.0  16.0  16.0  NaN  NaN  0.0  0.0  79.0	7.99 7.99 7.99 7.99 7.99 7.99 1.7.99 1	######################################
[251 [251 [252 [253	### 130103  130104  130105  12027  0 1  12027  0 1  12027  0 1  12037  12137  1	#AC3046 #AC3046 #AC3046 #AC3046 #AC3046 #AC30 #A	## Property of the control of the co	## A PANA	### Paid  ### Pa	## Paid at   Paid   Pai	fulfilled 16  fu	### Lineite quanti 100.0	Ccepts   Cut	GBP  GBP  GBP  GBP  GBP  GBP  GBP  GBP	18.5   16.0	7.99 7.99 7.99 7.99 7.99 0.00 0.0	######################################
[252 [253 [253 [253 [253 [253 [253 [273	### 130104  130105  1202334  130104  1203376  21376  21376  21376  213778  21380  01  21378  21388  3188	#AC3026  #AC3046  #AC50461  #AC50461  #AC50461  #AC50461  #AC50461  #AC50461  #AC30461  #AC30461	## Pone Name  **Ange **	### A PANA  ### A	### Paid  ### Pa	### Paid at 1	### ### ### ### ### ### ### ### ### ##	### Lineite quanti 100 100	Ccepts   Cut	GBP  GBP  GBP  GBP   NaN  GBP  GBP  GBP   SAN  GBP  GBP  GBP   ANN  GBP  GBP  GBP  GBP  GBP  GBP  GBP  G	Lineitem	7.99 7.99 7.99 7.99 7.99 7.99 1.7.99 7.99 1.7	Method  NaN  NaN  NaN  NaN  NaN  NaN  NaN  N

Out[96]: array(['Shopify Payments', 'PayPal Express Checkout', 0, 'Shopify Payments + PayPal Express Checkout', 'Gift Card + Shopify Payments', 'Gift Card + PayPal Express Checkout', 'Gift Card', 'manual', 'Visa', 'PayPal Express Checkout + Shopify Payments', 'Shopify Payments + Gift Card', 'Credit and Debit Cards', 'Buy now, pay later with Klarna', 'Gift Card + Credit and Debit Cards', 'PayPal Express Checkout + Credit and Debit Cards', 'PayPal Express Checkout + Buy now, pay later with Klarna', 'paypal\_standard', 'Gift Card + Buy now, pay later with Klarna', 'PayPal', 'Paypal', 'Mastercard', 'Amazon Pay', 'iDeal', 'CouponPayment', 'Apple Pay', 'Shopify Payments + Buy now, pay later with Klarna', 'Sofortuberweisung', 'American Express', 'Klarna Invoice', 'Mistercash', 'Gift Card + Shopify Payments + PayPal Express Checkout', 'Klarna', 'Shopify Payments + Credit and Debit Cards'], dtype=object) Finding all the popular items In [159... plt.rcParams['figure.figsize']=(18,6) df["Lineitem name"].value counts().head(80).plot.bar(color = 'red') plt.title("Most popular items by their count", fontsize=20) plt.xticks(rotation=90) plt.grid() plt.xlabel("Item") plt.ylabel("Count") Out[159... Text(0, 0.5, 'Count') Most popular items by their count 1500 1250 750 500 250 GRANITE Mid-Weight Outdoor Trousers - Charcoal - 28R / UK10 / Black Mid-Weight MAX Stretch Skinny Outdoor Trousers Black - 28R / UK10 / Black Mid-Weight MAX Stretch Skinny Outdoor Trousers Black - 28R / UK10 / Black MAX Stretch Skinny Outdoor Trousers Khaki - 30R / UK12 / Khaki Thermal Skinny Outdoor Trousers Black - 30R / UK12 / Khaki Thermal Skinny Outdoor Trousers Black - 30R / UK12 / Khaki Thermal Skinny Outdoor Trousers Black - 30R / UK12 / Granite MAX Stretch Skinny Outdoor Trousers Black - 30L / UK12 / Granite MAX Stretch Skinny Outdoor Trousers Black - 30L / UK12 / Black MAX Stretch Skinny Outdoor Trousers Black - 30L / UK14 / Black MAX Stretch Skinny Outdoor Trousers Black - 32R / UK14 / Black Thermal Skinny Outdoor Trousers Black - 32R / UK14 / Black Thermal Skinny Outdoor Trousers Black - 28R / UK10 / Black
MAX Stretch Skinny Outdoor Trousers Black - 30R / UK12 / Black
Thermal Skinny Outdoor Trousers Black - 30R / UK12 / Black
Thermal Outdoor Leggings - Black - Large / UK14 / Black
Grangers Clothing Care Kit
The Skinny Outdoor Jeans - Dark Blue Denim - 28R / UK10 / Dark Blue Denim
Skinny Outdoor Trousers Black - 28R / UK10 / Black Grangers Wash + Repel - 300ml
Thermal Outdoor Leggings - Black - Small / UK10 / Black
Merino Wool Hiking Socks - Heather Grey
Thermal Outdoor Leggings - Black - Medium / UK12 / Black
MAX Stretch Skinny Outdoor Trousers Black - 28R / UK10 / Black
Thermal Skinny Outdoor Trousers - Black - 28R / UK10 / Black
Thermal Skinny Outdoor Trousers - Black - 30R / UK12 / Black
Thermal Outdoor Leggings - Black - XSmall / UK8 / Black Outdoor Soffshell Leggings - Black - Medium / Black Outdoor Soffshell Leggings - Black - Small / Black Thermal Skinny Outdoor Trousers - Black - 26R / UK8 / Black GRANITE Mid-Weight Outdoor Trousers - Charcoal - 28R / UK10 / Charcoal Thermal Skinny Outdoor Trousers - Black - 32R / UK14 / Black Thermal Outdoor Leggings - Blueberry - Medium / UK12 / Blueberry Merino Wool Hiking Socks MAX Stretch Skinny Outdoor Trousers Black - 26R / UK8 / Black MAX Stretch Skinny Outdoor Trousers Khaki - 28R / UK10 / Khaki Thermal Skinny Outdoor Trousers Black - 30L / UK12 / Black Thermal Skinny Outdoor Trousers Black - 26R / UK8 / Black MAX Stretch Skinny Outdoor Trousers - Graphite - 28R / UK10 / Graphite Outdoor Softshell Leggings - Black - Small nny Outdoor Trousers - Black - 28R / UK10 The Outdoor Handbag - Black - Black Merino Wool Hiking Socks - Charcoal Thermal Outdoor Leggings - Blueberry - XSmall / UK8 / Blueberry Mid-Weight MAX Stretch Skinny Outdoor Trousers - Black - 28R / UK10 / Black Skinny Outdoor Trousers Navy - 30R / UK10 / Black MAX Stretch Skinny Outdoor Trousers Black - 28P / UK10 / Black The Skinny Outdoor Jeans - Dark Blue Denim - 30R / UK12 / Dark Blue Denim Grangers Wash + Repel 300ml MAX Stretch Skinny Outdoor Trousers - Graphite - 30R / UK12 / Graphite GRANITE Mid-weight Outdoor Trousers Grey - 28R / UK10 / Slate Grey Outdoor Softshell Leggings - Black - Large / Black Themal Skinny Outdoor Trousers - Navy - 28R / UK10 / Navy GRANITE Mid-weight Outdoor Trousers Charcoal - 28R / UK10 / Charcoal Water Resistant Summer Hiking Shorts Black - 30R / UK12 / Black The Skinny Outdoor Jeans - Dark Blue Denim - 32R / UK14 / Dark Blue Denim - 32R / UK14 / Dark Blue Denim MAX Stretch Skinny Outdoor Trousers Black - 28L / UK10 / Black GRANITE Mid-weight Outdoor Trousers Grey - 30R / UK12 / Slate Grey Skinny Outdoor Trousers Black - 30R / UK12 / Black Thermal Skinny Outdoor Trousers - Khaki - 28R / UK10 / Khaki Thermal Skinny Outdoor Trousers - Navy - 30R / UK12 / Navy Thermal Outdoor Leggings - Blueberry - Small / UK10 / Blueberry Outdoor Softshell Leggings - Black - Medium Thermal Skinny Outdoor Trousers - Graphite - 30R / UK12 / Graphite Thermal Outdoor Leggings - Small / UK10 / Black Mid-Weight MAX Stretch Skinny Outdoor Trousers Black - 30R / UK12 / Black MAX Stretch Skinny Outdoor Trousers Navy - 30R / UK12 / Navy Thermal Skinny Outdoor Trousers Black - MAX Stretch Skinny Outdoor Trousers -MAX Stretch Skinny Outdoor Trousers ltem In [147... df5 = df[['Lineitem name','Lineitem price','Lineitem quantity','Billing City','Billing Zip']] Out[147... Lineitem name Lineitem price Lineitem quantity **Billing City Billing Zip** '80923 Never Grow Up Compression Legging - XS/8 / Purple 74.00 Colorado Springs Ironman Compression Leggings - Small / UK10 / Red 64.00 **Eagle River** '99577 Skinny Outdoor Trousers Black - 28R / UK10 / B... 59.00 HD8 9RS 1 Huddersfield Bacliff 77518-2493 3 Acai Berry Compression Capri - XL/16 / Pink 64.00 Never Grow Up Compression Capri - S/10 / Purple 4 64.00 1 Rancho Cucamonga '91739 130101 Casual Stroll Pants Black - 26R / UK8 / Black 89.36 NaN NaN 130102 Biker Style Mid-Weight Outdoor Trousers Black ... 0.00 NaN NaN 130103 1 Mid-Weight MAX Stretch Skinny Outdoor Trousers... 0.00 NaN NaN 130104 GRANITE Mid-Weight Outdoor Trousers Grey - 26R... 0.00 NaN NaN PH394NJ 130105 Thermal Skinny Outdoor Trousers Black - 30L / ... 79.00 Arisaig  $130106 \text{ rows} \times 5 \text{ columns}$ df5.drop duplicates Out[180... <bound method DataFrame.drop duplicates of Lineitem name Lineitem Never Grow Up Compression Legging - XS/8 / Purple 0 74.00 1 Ironman Compression Leggings - Small / UK10 / Red 64.00 2 Skinny Outdoor Trousers Black - 28R / UK10 / B... 59.00 Acai Berry Compression Capri - XL/16 / Pink 64.00 Never Grow Up Compression Capri - S/10 / Purple 4 64.00 Casual Stroll Pants Black - 26R / UK8 / Black 130101 89.36 130102 Biker Style Mid-Weight Outdoor Trousers Black ... 0.00 130103 Mid-Weight MAX Stretch Skinny Outdoor Trousers... 0.00 130104 GRANITE Mid-Weight Outdoor Trousers Grey - 26R... 0.00 130105 Thermal Skinny Outdoor Trousers Black - 30L / ... 79.00 Lineitem quantity Billing City Billing Zip 0 1 Colorado Springs '80923 **'**99577 1 1 Eagle River 2 1 Huddersfield HD8 9RS 3 1 Bacliff 77518-2493 4 **'**91739 1 Rancho Cucamonga . . . 130101 1 NaN NaN 1 130102 NaN NaN 130103 NaN NaN 130104 1 NaN NaN Arisaig PH394NJ 130105 [130106 rows x 5 columns]> Getting the line item names on basis of price df.groupby(["Lineitem name"]).sum().sort\_values("Lineitem price",ascending=False) Lineitem Lineitem Tax 2 Tax 2 Tax 3 Tax 3 **Discount Lineitem Lineitem** Lineitem **Subtotal Shipping Taxes** compare requires Name Value Name Value Amount quantity taxable price at price shipping Lineitem name **Thermal** Outdoor Leggings 1320 ... - **Black** - 74022.15 853.22 12363.50 63751.41 2856.22 1337 71858.35 1320 0.0 0.0 0.0 0.0 Small / UK10/ **Black Thermal** Skinny Outdoor **Trousers** 9801.58 58612.36 59059.03 403.43 2410.74 845 67435.78 0.0 836 836 ... 0.0 0.0 0.0 0.0 - Black -28R / **UK10/ Black Thermal** Outdoor Leggings - Black -65068.15 830.51 10937.72 57886.96 2227.13 1242 66991.90 0.0 1224 1224 ... 0.0 0.0 0.0 0.0 Medium / UK12 / **Black** The Skinny Outdoor Jeans -Dark Blue 50869.68 573 ... 491.55 8484.55 45131.73 2155.10 577 65993.45 0.0 573 0.0 0.0 0.0 0.0 Denim -28R / **UK10/** Dark Blue **Denim Thermal** Skinny Outdoor **Trousers** 818 65693.08 812 ... 56837.23 301.92 9512.84 56424.55 2488.71 0.0 812 0.0 0.0 0.0 0.0 - Black -30R / UK12 / **Black Thermal** Skinny Outdoor **Trousers** 0.00 0.00 0.00 0.00 0.00 1 0.00 0.0 0.0 0.0 0.0 0.0 Graphite - 28L /UK10 The Skinny Outdoor Jeans -0.00 0.00 0.00 0.00 0.00 0.00 0.0 0.0 0.0 0.0 0.0 Black Denim -24R / UK6 MAX Stretch Skinny Outdoor **Trousers** 0.00 0.00 0.00 0.00 0.00 1 0.00 0.0 0.0 0.0 0.0 0.0 - Forest Green -32P / **UK14** Cargo MAX Stretch Outdoor 0.00 0.00 0.00 0.00 0.00 1 0.00 0.0 0.0 0.0 0.0 0.0 **Trousers** - Black -34R / **UK16 GRANITE** Mid-Weight Outdoor **Trousers** 0.00 0.00 0.00 0.00 0.00 0.00 0.0 0.0 0.0 0.0 0.0 Charcoal - 34R / **UK16/** Charcoal 3021 rows × 26 columns Getting items by quantity df.groupby(["Lineitem name"]).sum().sort values("Lineitem quantity",ascending=False) Out[187... Lineitem Lineitem **Discount Lineitem Lineitem** Lineitem Tax 2 Tax 2 Tax 3 Tax **Total** Subtotal Shipping Taxes compare requires taxable Name Value Name Valu Amount quantity price at price shipping Lineitem name **Grangers** Wash + 108997.60 889.20 18033.14 109886.80 5741.08 1790 16967.89 0.0 1719 1719 ... 0.0 0.0 0.0 0 Repel -300ml Merino Wool Hiking 73216.67 3166.50 0 852.50 12234.34 55813.60 1463 20550.44 0.0 1301 1301 ... 0.0 0.0 0.0 Socks -Heather Grey **Thermal** Outdoor Leggings - Black -74022.15 0 853.22 12363.50 63751.41 2856.22 1337 71858.35 0.0 1320 1320 ... 0.0 0.0 0.0 Small / UK10/ Black **Thermal** Outdoor Leggings 830.51 10937.72 - Black -65068.15 57886.96 2227.13 1242 66991.90 0.0 1224 1224 ... 0.0 0.0 0.0 0 Medium / UK12 / Black MAX Stretch Skinny Outdoor 47569.97 **Trousers** 355.38 7883.70 47907.85 2779.08 879 53305.53 0.0 872 872 ... 0.0 0.0 0.0 0 Black -28R / UK10 / Black The Outdoor Denim Shorts -0.00 0.00 Dark 0.00 0.00 0.00 55.00 0.0 0.0 0.0 0.0 0 Blue Denim -34 / **UK16** The Outdoor Denim Shorts -55.00 0.00 9.17 0.00 0.00 55.00 0.0 0.0 0.0 0.0 Black Denim -34 / **UK16** The Outdoor Denim 0.00 0.00 0.0 0 Shorts -0.00 0.00 0.00 45.83 0.0 0.0 0.0 Black Denim -26 / UK8 Hi Tech Hoodie -69.00 7.99 0.00 0.00 69.00 0.0 0.0 0.0 0.0 0 76.99 1 1 large / Grey Workout Vest -0.00 0.00 0.00 0.00 0.0 0.0 0 0.00 11.00 22.0 0.0 small / Black 3021 rows × 26 columns Getting the sales on basis of billing country In [199.. df.groupby(["Billing Country"]).sum().sort\_values("Lineitem quantity", ascending=False).reset\_index() Out[199... Lineitem Lineitem **Discount Lineitem** Lineitem Billing Tax 2 Tax 2 Tax 3 **Total** requires ... Subtotal Shipping **Taxes** compare Amount quantity Name Country price Value Name at price shipping 0 GB 6.971152e+06 58551.86 1165205.65 5702033.21 393668.64 85905 5522746.67 282803.86 84855 ... 0.0 0.0 0.0 7.356777e+04 91430.13 128450.85 1 US 20086.47 3216.58 2658 152357.44 14703.99 2633 0.0 0.0 0.0 2 17349.58 2315.00 1.214865e+05 5093.89 117317.79 4685.71 1537 97815.71 1522 0.0 0.0 0.0 NL 1.736485e+04 194.00 3 503.51 2715.52 16795.83 2189.21 230 14882.57 226 0.0 0.0 0.0 609.82 10798.74 4 CA 8.146710e+03 1408.92 8950.64 7622.51 209 1152.00 198 0.0 0.0 0.0 11951.44 5 JE 1.447991e+04 91.82 0.00 12436.91 599.15 190 380.00 189 0.0 0.0 0.0 6 553.22 1037.64 8.062020e+03 8431.79 2509.38 115 6686.37 188.00 113 0.0 0.0 0.0 260.00 7 GG 7.949410e+03 16.97 7511.80 316.00 95 5607.08 94 0.0 0.0 0.0 11.52 8 DE 8.998540e+03 241.52 1373.38 7987.23 337.17 80 5502.69 0.00 78 ... 0.0 0.0 0.0 42 ... 9 FR 3.914380e+03 560.53 3701.42 110.00 45 3054.04 0.00 0.0 0.0 0.0 166.21 36 ... 10 CH 4.273720e+03 129.07 581.67 3877.19 130.71 37 2857.57 108.00 0.0 0.0 0.0 32 ... 11 IM 2.615300e+03 20.00 10.67 2051.89 74.84 32 2025.14 70.00 0.0 0.0 0.0 27 ... 12 SE 1.433200e+03 180.86 184.13 1480.41 679.16 27 1638.70 0.00 0.0 0.0 0.0 13 DK 1.488040e+03 70.50 163.72 1380.77 426.51 22 1492.02 0.00 22 0.0 0.0 0.0 BE 1.765450e+03 22 ... 14 50.73 246.34 1726.86 249.36 22 1362.15 121.00 0.0 0.0 0.0 15 FI 1.104390e+03 47.92 149.69 364.44 19 1120.29 154.00 19 0.0 0.0 0.0 1152.31 17 ... 289.69 16 NZ 1.869620e+03 72.30 1941.92 207.39 17 1447.34 0.00 0.0 0.0 0.0 AT 9.053800e+02 18 16.89 148.23 922.27 95.56 10 616.75 0.00 10 0.0 0.0 0.0 ES 6.390200e+02 0.00 0.0 19 41.76 72.17 680.78 112.48 10 574.64 10 0.0 0.0 20 LU 9.922200e+02 8.00 165.39 1000.22 0.00 7 486.56 0.00 6 ... 0.0 0.0 0.0 CZ 7.386500e+02 7 568.75 7 ... 0.0 21 13.00 123.09 751.65 6.64 0.00 0.0 0.0 22 5.851900e+02 82.25 18.25 6 342.61 0.00 6 ... 0.0 0.0 43.49 531.02 0.0 17.00 0.00 23 AE 7.425900e+02 123.77 759.59 14.20 6 435.15 6 ... 0.0 0.0 0.0 5 ... IL 4.287000e+01 5 0.00 0.0 24 7.73 7.15 50.60 2.59 45.46 0.0 0.0 4 ... 25 FK 5.677900e+02 55.98 26.72 429.94 11.30 5 160.50 0.00 0.0 0.0 0.0 37.62 4 ... 26 LT 3.367700e+02 5.99 4 0.00 0.0 0.0 342.76 0.00 198.21 0.0 27 0.00 LV 3.713400e+02 12.49 53.04 383.83 17.74 4 314.36 0.0 0.0 0.0 ZA 5.711400e+02 0.00 4 ... 0.0 28 3.00 95.19 428.64 16.50 4 321.47 0.0 0.0 3 ... EE 2.001900e+02 3 0.0 29 13.98 14.53 214.17 131.00 123.19 6.99 0.0 0.0 3 ... 30 EG 2.291300e+02 10.49 38.19 239.62 7.40 3 236.53 0.00 0.0 0.0 0.0 3 30.00 102.00 3 ... 31 BH 2.446000e+02 38.55 0.00 283.15 7.40 0.0 0.0 0.0 SI 4.626300e+02 3 0.00 3 ... 0.0 32 3.50 77.68 466.13 51.40 256.03 0.0 0.0 1.791300e+02 2 2 ... 33 KR 30.00 29.86 209.13 19.90 199.03 0.00 0.0 0.0 0.0 2 ... 34 1.089000e+02 0.00 18.15 2 0.00 0.0 0.0 108.90 12.10 121.00 0.0 116.09 35 3.032800e+02 7.99 40.02 311.27 32.86 2 0.00 2 ... 0.0 0.0 0.0 2 ... 2 0.00 0.0 36 IS 1.453100e+02 14.49 13.87 159.80 6.90 152.21 0.0 0.0 37 1.640100e+02 2 2 ... 0.0 HU 0.00 27.34 164.01 7.20 121.13 0.00 0.0 0.0 2 ... 1.605700e+02 0.00 26.76 160.57 0.00 2 0.00 0.0 0.0 38 HΚ 160.57 0.0 0.00 0.00 39 MU 8.339000e+01 13.90 83.39 9.27 1 92.66 1 ... 0.0 0.0 0.0 40 SA 7.412000e+01 0.00 12.35 74.12 8.34 1 82.46 0.00 1 ... 0.0 0.0 0.0 1.552500e+02 0.00 0.00 41 VG 5.99 17.25 57.50 0.00 1 0.0 0.0 0.0 7.400000e+01 76.00 1 0.00 1 ... 0.0 42 2.00 12.33 0.00 64.00 0.0 0.0 110.70 0.00 1 ... 43 LB 1.107000e+02 0.00 18.45 12.30 1 64.00 0.0 0.0 0.0 0.00 1 ... 0.0 44 TH 6.900000e+01 3.50 11.50 72.50 0.00 1 69.00 0.0 0.0 45 SK 5.607000e+01 4.00 9.34 60.07 6.23 1 62.30 0.00 1 ... 0.0 0.0 0.0 0.00 66.82 1 0.00 1 ... 0.0 46 CI 6.682000e+01 11.14 7.43 74.25 0.0 0.0 6.00 42.99 0.00 1 ... 47 RU 3.600000e+01 6.99 108.00 1 31.00 0.0 0.0 0.0 0.00 59.00 0.00 1 ... 0.0 48 MX 5.310000e+01 7.99 61.09 5.90 1 0.0 0.0 5.900000e+01 49 RS 0.00 9.83 0.00 0.00 59.00 0.00 1 0.0 0.0 0.0 50 QΑ 1.710000e+02 0.00 28.50 171.00 18.99 1 14.99 0.00 1 ... 0.0 0.0 0.0 0.00 1 ... 51 5.964000e+01 17.77 9.94 77.41 14.91 1 74.55 0.0 0.0 0.0 0.00 1 ... 0.0 52 DO 3.500000e+01 7.99 0.00 42.99 105.00 1 45.00 0.0 0.0 0.0 53 MC 6.750000e+01 0.00 11.25 0.00 7.50 1 75.00 0.00 1 ... 0.0 0.0 54 0.00 50.10 1 0.00 1 ... 0.0 0.0 0.0 5.010000e+01 8.35 5.57 55.67 PL 1.003000e+02 0.00 16.72 100.30 17.70 49.00 0.00 0.0 0.0 0.0 56 rows × 27 columns Vendors of the products df.groupby(["Vendor"]).sum().sort values("Lineitem quantity",ascending=False) Lineitem Lineitem **Discount Lineitem** Lineitem Tax 2 Tax 2 Lineitem **Subtotal Shipping Taxes Total** compare requires taxable Value I Name Amount quantity price at price shipping Vendor Acai 3295005.22 48310.35 532737.92 3342937.57 339391.22 65955 0.0 66631 3701217.11 515059.00 65960 0.0 **Activewear ACAI** 3555106.21 35823.92 594300.46 2329663.22 184682.15 57613 3794277.76 1320.00 56965 56966 0.0 0.0 Outdoorwear Grangers 186348.16 1812.83 30943.11 161661.83 9561.94 3050 31668.73 230.67 2933 2933 0.0 0.0 International **ACAI** 143402.58 0.0 929.77 23792.68 144332.35 6753.71 2696 161840.57 0.00 2680 2680 0.0 **Activewear** Acai 78828.15 0.0 807.51 13184.95 20723.02 4107.85 1197 64463.53 0.00 1191 1192 0.0 Outdoorwear 85.08 70 0.00 0.0 0.0 **Grangers** 3137.41 75.83 476.38 3213.24 679.32 70 6 rows × 26 columns Getting all the discount codes In [190.. df.groupby(["Discount Code"]).sum().sort\_values("Lineitem quantity", ascending=False).head() Lineitem Lineitem Lineitem Lineitem **Discount Lineitem Subtotal Shipping Total Taxes** compare requires Amount quantity price taxable Name Value at price shipping **Discount** Code FIRST10 1793016.64 13317.31 298297.88 1487388.79 195754.50 21367 1424617.54 17709.96 21218 21218 ... 0.0 0.0 OUTDOOR10 78909.50 647.40 12848.15 79556.90 8721.05 1231 74834.64 1563.00 1222 1222 0.0 0.0 **ALLYEAR20** 77573.80 660.83 12931.77 70739.93 16644.63 999 69806.22 0.00 996 996 0.0 0.0 **ACAIFEB75** 17371.75 7676.39 0.00 25048.14 52115.25 964 62071.00 4373.00 961 961 0.0 0.0 Colour<sub>10</sub> 53477.95 232.49 8871.98 46866.04 5901.45 668 45148.87 3795.00 661 661 0.0 0.0 5 rows × 26 columns payment methods used by users df.groupby(["Payment Method"]).sum().sort values("Lineitem quantity",ascending=False).head() Lineitem Lineitem **Discount Lineitem** Lineitem Lineitem Tax 2 Tax 2 Tax **Subtotal Shipping** Total requires Taxes compare Amount quantity taxable Name Value Nam price at price shipping **Payment** Method **PayPal** 3122730.52 34139.55 516638.99 2500265.97 211831.28 40160 2553416.34 146894.92 **Express** 39720 39747 0.0 Checkout Shopify 2872417.48 35548.35 466691.34 2907759.33 262259.00 0 36674 2317195.77 145584.93 36188 36199 0.0 0.0 **Payments** Credit Debit Cards Buy now, pay later 148742.65 1216.49 24962.44 109359.76 9244.62 1719 113548.84 6941.99 1703 1703 ... 0.0 0.0 0 with Klarna 942 ... 82922.29 1366.91 13821.18 Visa 83112.00 2807.09 952 61371.36 0.00 940 0.0 0.0 5 rows × 26 columns In [246... df5['Lineitem name'].duplicated() Out[246... 2107 False Name: Lineitem name, dtype: bool #product sold sold\_data = df1['Financial Status'] filtered\_df = df[df['Financial Status'].notnull()] filtered\_df['Financial Status'].count() filtered df['Financial Status'].hist() plt.xlabel('status') plt.ylabel("items purchased") Out[507... Text(0, 0.5, 'items purchased') 70000 60000 50000 40000 30000 20000 10000 paid refunded partially refunded pending voided #what seasonality looks like #2018-02-21 16:36:53 +0000 time = pd.to datetime(df1['Paid at'], format='%Y-%m-%dT%H:%M:%S.%f',utc=True) 2018-02-21 16:36:53+00:00 2018-02-21 16:33:56+00:00 1 2018-02-21 16:28:54+00:00 3 2018-02-21 16:23:26+00:00 2018-02-21 16:21:44+00:00 130101 NaT 130102 NaT 130103 NaT 130104 NaT 2020-09-09 12:02:12+00:00 Name: Paid at, Length: 130106, dtype: datetime64[ns, UTC] In [456... sns.lineplot(y = 'Lineitem quantity', x = 'Billing Country', data = billing country[['Lineitem quantity', 'Billi Out[456... <AxesSubplot:xlabel='Billing Country', ylabel='Lineitem quantity'> 80000 60000 40000 20000 GB US IE NL CA JE AU GG DE FR CH IM SE DK BE FI NZ NO AT ES LU CZ IT AE IL FK LT LV ZA EE EG BH SI KR IN JP IS HU HK MU SA VG UY LB TH SK CI RU MX RS QA PT DO MC MY PL Creating the heat map for all items quantity, price and total sns.heatmap(np.round(df4.corr(),2), annot=True) <AxesSubplot:> -0.06 0.04 0.04 Lineitem quantity - 0.8 -0.06 0.24 0.33 - 0.6 Lineitem price 0.04 0.24 0.78 Total 0.04 0.78 Taxes Lineitem price Total Lineitem quantity #which geos are home to the most customers billing\_country = df.groupby(["Billing Country"]).sum().sort\_values("Lineitem quantity", ascending=False).reset billing\_country Lineitem Lineitem **Billing Discount Lineitem** Lineitem Tax 2 Tax 2 Tax 3 **Subtotal Shipping Total Taxes** compare requires Country Amount quantity Name Name price Value at price shipping 0.0 0 58551.86 1165205.65 5522746.67 282803.86 6.971152e+06 5702033.21 393668.64 85905 84855 0.0 0.0 US 7.356777e+04 20086.47 3216.58 91430.13 128450.85 14703.99 2633 0.0 0.0 0.0 2658 152357.44 0.0 2 17349.58 1.214865e+05 5093.89 117317.79 4685.71 1537 97815.71 2315.00 1522 0.0 0.0 NL 1.736485e+04 503.51 2715.52 16795.83 2189.21 230 14882.57 194.00 0.0 0.0 0.0 226 CA 8.146710e+03 7622.51 4 1408.92 609.82 8950.64 209 10798.74 1152.00 198 0.0 0.0 0.0 11951.44 JE 1.447991e+04 91.82 0.00 12436.91 599.15 190 380.00 189 0.0 0.0 0.0 0.0 6 8.062020e+03 553.22 1037.64 8431.79 2509.38 115 6686.37 188.00 113 0.0 0.0 GG 7.949410e+03 16.97 11.52 7511.80 316.00 95 5607.08 260.00 0.0 94 0.0 0.0 8 DE 8.998540e+03 78 ... 241.52 1373.38 7987.23 337.17 80 5502.69 0.00 0.0 0.0 0.0 FR 3.914380e+03 166.21 560.53 3701.42 110.00 3054.04 0.00 42 0.0 0.0 0.0 108.00 10 CH 4.273720e+03 129.07 37 2857.57 0.0 0.0 581.67 3877.19 130.71 36 0.0 11 IM 2.615300e+03 20.00 10.67 2051.89 2025.14 70.00 0.0 74.84 32 32 0.0 0.0 12 27 ... 0.0 SE 1.433200e+03 180.86 184.13 1480.41 679.16 27 1638.70 0.00 0.0 0.0 22 ... 0.0 13 DK 1.488040e+03 70.50 163.72 1380.77 426.51 22 1492.02 0.00 0.0 0.0 22 ... BE 1.765450e+03 249.36 22 121.00 0.0 0.0 14 50.73 246.34 1726.86 1362.15 0.0 47.92 1152.31 19 ... 15 FI 1.104390e+03 149.69 364.44 19 1120.29 154.00 0.0 0.0 0.0 17 ... 16 NZ 1.869620e+03 72.30 289.69 1941.92 207.39 17 1447.34 0.00 0.0 0.0 0.0 15 ... 0.0 17 NO 5.739800e+02 79.87 52.32 653.85 644.88 15 914.43 39.00 0.0 0.0 AT 9.053800e+02 148.23 0.00 10 ... 0.0 0.0 18 16.89 922.27 95.56 10 616.75 0.0 680.78 574.64 10 ... 19 ES 6.390200e+02 41.76 72.17 112.48 10 0.00 0.0 0.0 0.0 LU 9.922200e+02 20 1000.22 7 486.56 6 ... 0.0 8.00 165.39 0.00 0.00 0.0 0.0 21 CZ 7.386500e+02 13.00 123.09 751.65 7 568.75 0.00 7 ... 0.0 0.0 0.0 6.64 5.851900e+02 22 82.25 6 0.00 6 ... 0.0 0.0 43.49 531.02 18.25 342.61 0.0 17.00 123.77 435.15 0.00 6 ... 23 AE 7.425900e+02 759.59 14.20 6 0.0 0.0 0.0 5 ... 5 45.46 0.00 0.0 24 IL 4.287000e+01 7.73 7.15 50.60 2.59 0.0 0.0 4 ... FK 5.677900e+02 429.94 5 160.50 0.0 25 55.98 26.72 11.30 0.00 0.0 0.0 4 ... 26 LT 3.367700e+02 5.99 37.62 342.76 0.00 4 198.21 0.00 0.0 0.0 0.0 383.83 314.36 4 ... 27 LV 3.713400e+02 12.49 53.04 17.74 0.00 0.0 0.0 0.0 3.00 4 ... 0.0 28 ZA 5.711400e+02 95.19 428.64 16.50 4 321.47 0.00 0.0 0.0 EE 2.001900e+02 3 3 ... 0.0 29 13.98 14.53 214.17 131.00 123.19 6.99 0.0 0.0 2.291300e+02 3 0.00 3 0.0 0.0 30 10.49 38.19 239.62 7.40 236.53 0.0 3 ... 31 BH 2.446000e+02 38.55 0.00 283.15 3 30.00 102.00 0.0 0.0 0.0 7.40 3 ... SI 4.626300e+02 3 0.0 32 3.50 77.68 466.13 51.40 256.03 0.00 0.0 0.0 KR 1.791300e+02 2 199.03 2 ... 0.0 33 30.00 29.86 209.13 19.90 0.00 0.0 0.0 2 ... 1.089000e+02 0.00 18.15 2 0.00 0.0 0.0 34 IN 108.90 12.10 121.00 0.0 JP 3.032800e+02 2 ... 40.02 32.86 116.09 35 7.99 311.27 2 0.00 0.0 0.0 0.0 2 ... 36 IS 1.453100e+02 14.49 13.87 159.80 6.90 2 152.21 0.00 0.0 0.0 0.0 1.640100e+02 2 ... 0.0 37 HU 0.00 27.34 164.01 7.20 2 121.13 0.00 0.0 0.0 2 160.57 0.00 2 ... 0.0 0.0 38 ΗK 1.605700e+02 0.00 26.76 160.57 0.00 0.0 0.00 13.90 92.66 39 MU 8.339000e+01 83.39 9.27 1 0.00 1 ... 0.0 0.0 0.0 82.46 1 ... 0.0 40 SA 7.412000e+01 0.00 12.35 74.12 8.34 1 0.00 0.0 0.0 41 VG 1.552500e+02 5.99 0.00 0.00 17.25 1 57.50 0.00 1 ... 0.0 0.0 0.0 7.400000e+01 12.33 76.00 0.00 1 64.00 0.00 1 ... 0.0 0.0 42 UY 2.00 0.0 0.00 110.70 12.30 64.00 1 ... 43 LB 1.107000e+02 18.45 1 0.00 0.0 0.0 0.0 6.900000e+01 72.50 0.00 1 69.00 0.00 1 ... 0.0 44 TH 3.50 11.50 0.0 0.0 SK 5.607000e+01 0.0 45 4.00 9.34 60.07 6.23 1 62.30 0.00 1 ... 0.0 0.0 46 CI 6.682000e+01 0.00 11.14 66.82 7.43 1 74.25 0.00 1 ... 0.0 0.0 0.0 6.00 42.99 108.00 1 31.00 0.00 1 ... 47 RU 3.600000e+01 6.99 0.0 0.0 0.0 0.00 1 59.00 0.00 1 ... 0.0 48 MX 5.310000e+01 7.99 61.09 5.90 0.0 0.0 0.00 59.00 0.0 49 RS 5.900000e+01 0.00 9.83 0.00 1 0.00 1 ... 0.0 0.0 1.710000e+02 0.00 28.50 1 0.00 1 ... 0.0 0.0 50 171.00 18.99 14.99 0.0 QΑ 51 5.964000e+01 17.77 9.94 77.41 14.91 1 74.55 0.00 1 ... 0.0 0.0 0.0 3.500000e+01 52 7.99 0.00 105.00 45.00 0.00 1 ... 0.0 42.99 1 0.0 0.0 53 MC 6.750000e+01 0.00 75.00 0.00 0.0 0.0 0.0 0.00 11.25 7.50 MY 5.010000e+01 0.00 50.10 0.00 0.0 0.0 54 8.35 5.57 55.67 0.0 PL 1.003000e+02 0.00 16.72 100.30 17.70 49.00 0.00 0.0 0.0 0.0 56 rows × 27 columns Amount of sales on regional basis In [340... billing country[['Lineitem quantity','Billing Country']] Out[340... Lineitem quantity Billing Country 0 85905 2658 US NL4 209 190 JΕ ΑU 115 7 95 GG 80 DE 9 FR 37 10 CH 32 12 27 13 22 DK 14 22 BE 19 16 ΝZ 17 17 NO 18 10 ΑT 10 ES 20 LU 21 CZ 22 ΙT ΑE 24 25 FΚ 26 4 LT 28 4 ZΑ 29 ΕE 3 EG 30 3 ВН 32 2 33 KR 34 IN JΡ 2 36 IS 37 2 HU 2 38 HK MU 40 VG 42 UY LB 1 TH 45 SK 46 CI RU 48 49 RS 50 QA PT 1 DO 53 MC MY PLIn [346.. sns.lineplot(y = 'Lineitem quantity', x = 'Billing Country', data = billing country[['Lineitem quantity', 'Billi Out[346... <AxesSubplot:xlabel='Billing Country', ylabel='Lineitem quantity'> 80000 60000 40000 20000 GB US IE NL CA JE AU GG DE FR CH IM SE DK BE FI NZ NO AT ES LU CZ IT AE IL FK LT LV ZA EE EG BH SI KR IN JP IS HU HK MUSA VG UY LB TH SK CI RU MX RS QA PT DO MC MY PL Here we can conclude the seasonality of sales in a particular timeperiod In [457... time = pd.to datetime(df1['Paid at'], format='%Y-%m-%dT%H:%M:%S.%f',utc=True)

