Rating_Category

Bad
Excellent
Good
Very Bad
Very Good

payment_...

☐ boleto
☐ credit_card
☐ debit_card
☐ not_defined
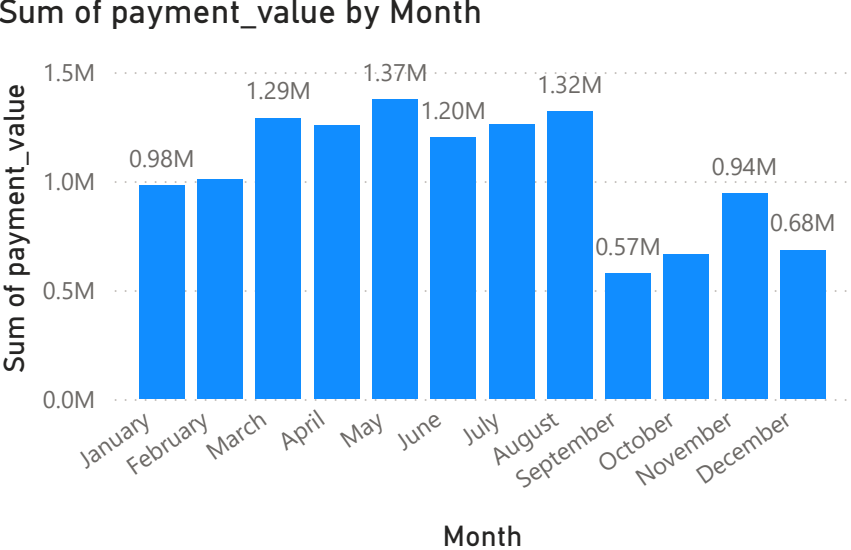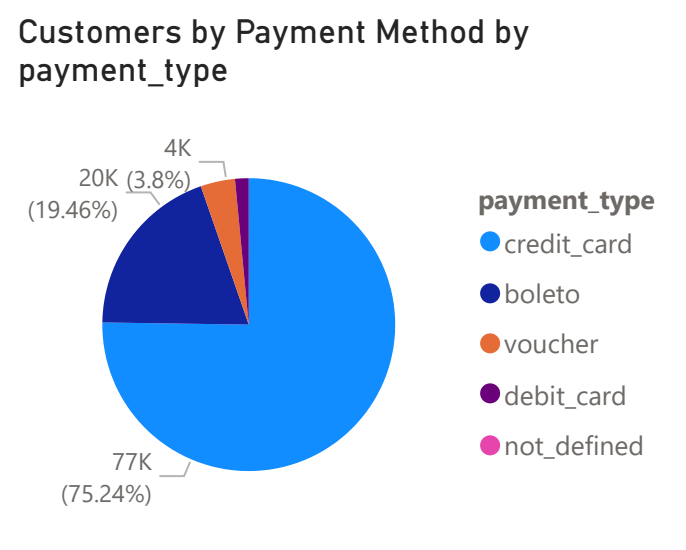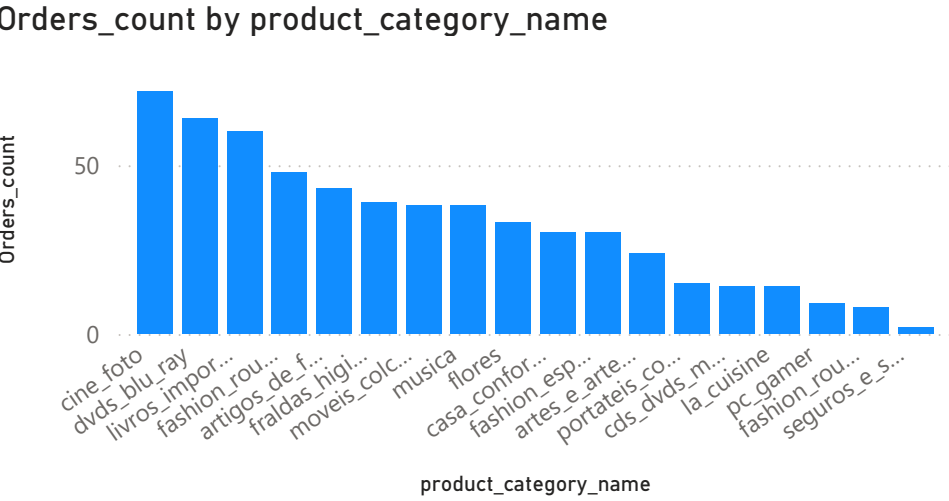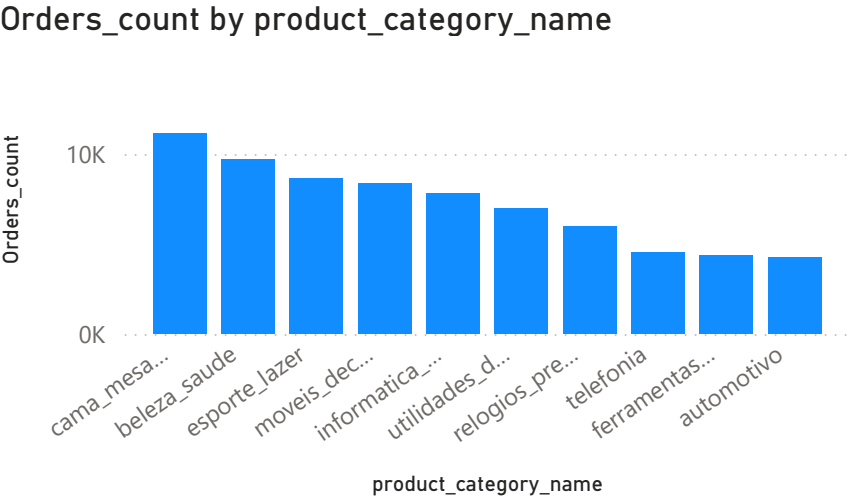☐ voucher

Year, Mo...

☐ 2016
☐ 2017
☐ 2018
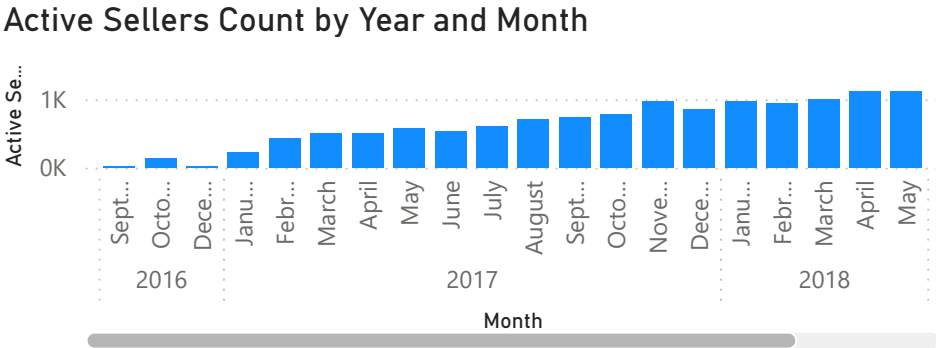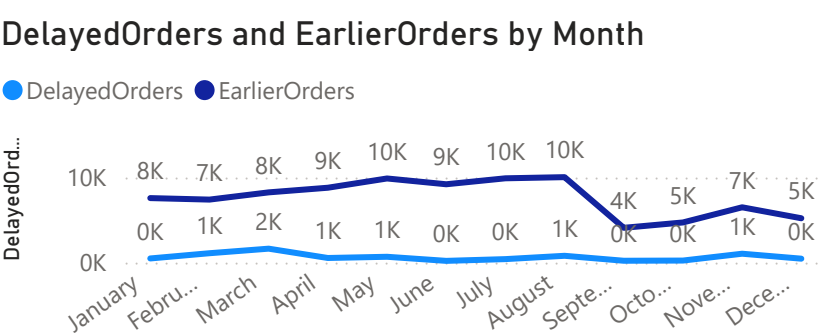
DelayedOrders and EarlierOrders by Month

● DelayedOrders ● EarlierOrders

Active Sellers Count by Year and Month

Count of order_id by Rating_Category

Orders_count by product_category_name

Orders_count by product_category_name

Customers by Payment Method by payment_type

payment_type
● credit_card
● boleto
● voucher
● debit_card
● not_defined

Sum of payment_value by Month

product_category_name_english	Profit Margin
computers	8.50
small_appliances_home_oven_and_coffee	10.99
fixed_telephony	14.59
agro_industry_and_commerce	14.92
watches_gifts	15.75
small_appliances	16.27
home_appliances_2	17.14
Total	**29.17**

seller_city	Count of seller_id
4482255	1
abadia de goias	1
afonso claudio	1
aguas claras df	1
alambari	1
alfenas	2
almirante tamandare	1
Total	**1790**

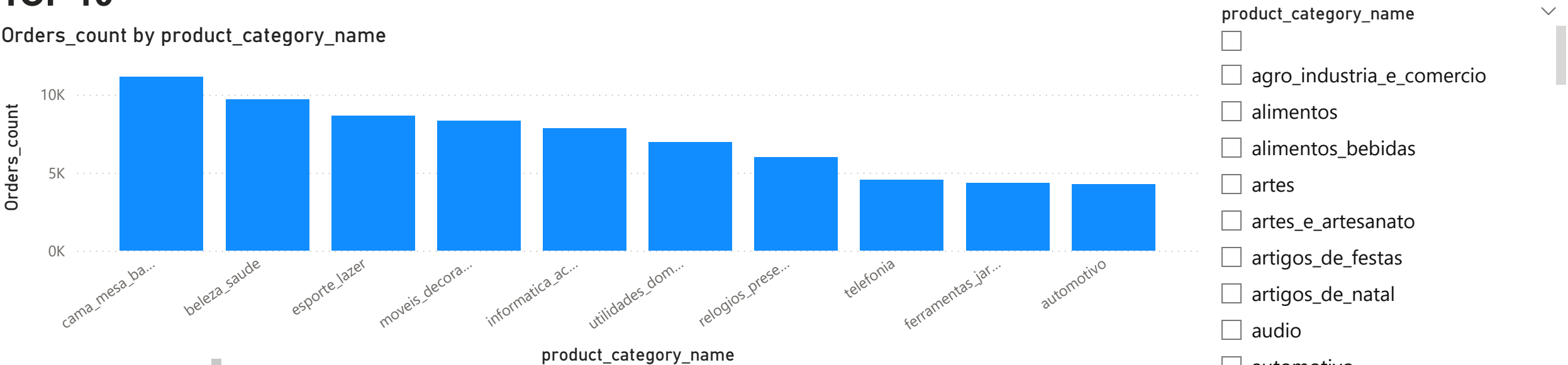# 1.Identify the rating distribution in the ShopNest dataset, showcasing ratings categorized as Excellent, Very Good, Good, Bad, and Very Bad, along with corresponding orders.

Count of order_id by Rating_Category
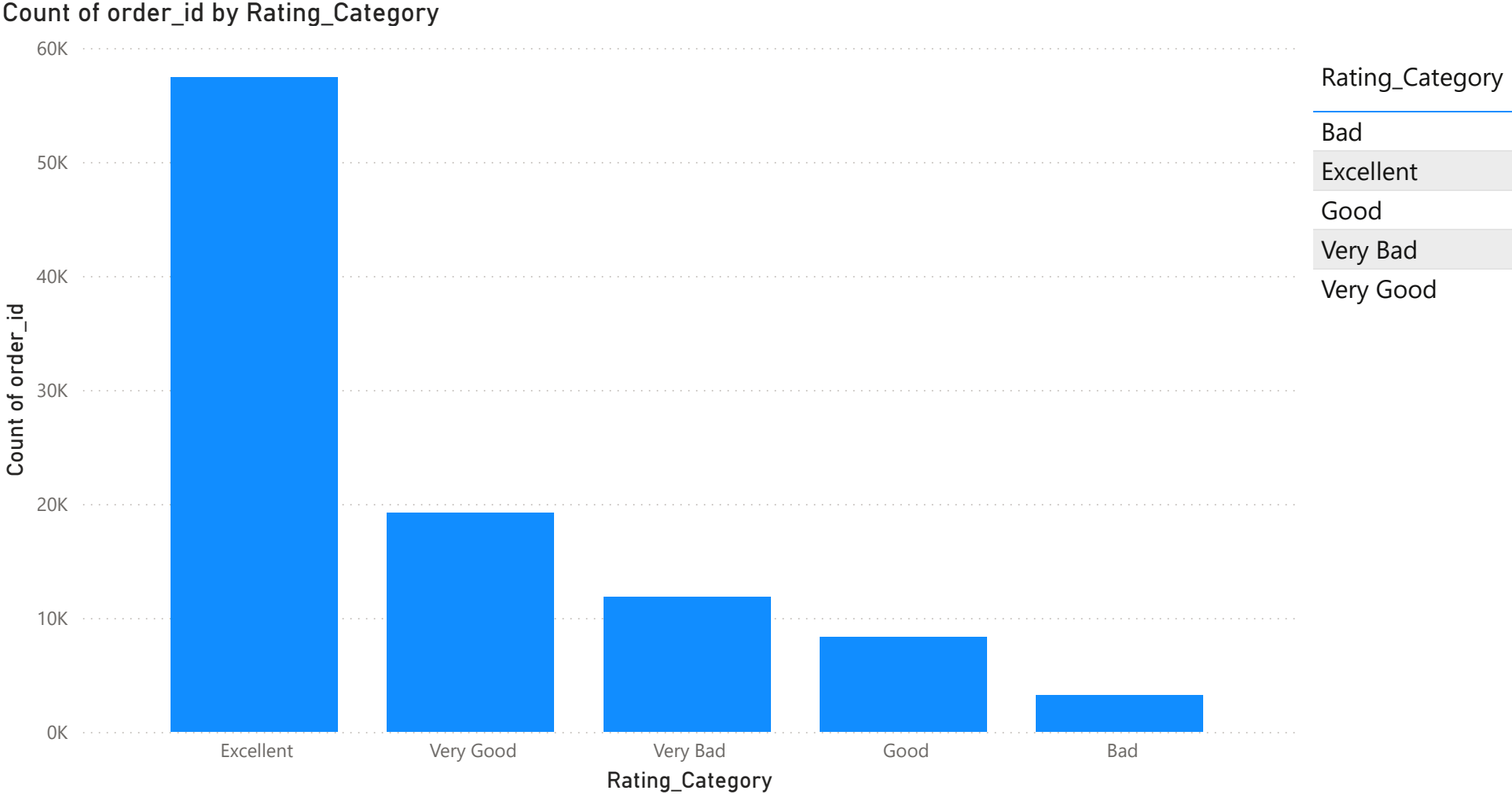
2.What are the top 10 and bottom 18 most popular product categories in the ShopNest dataset? Please list them based on the number of orders.

TOP 10

Orders_count by product_category_name

product_category_name

☐
☐ agro_industria_e_comercio
☐ alimentos
☐ alimentos_bebidas
☐ artes
☐ artes_e_artesanato
☐ artigos_de_festas
☐ artigos_de_natal
☐ audio
☐ automotivo
☐ bebes

BOTTOM 18

Orders_count by product_category_name
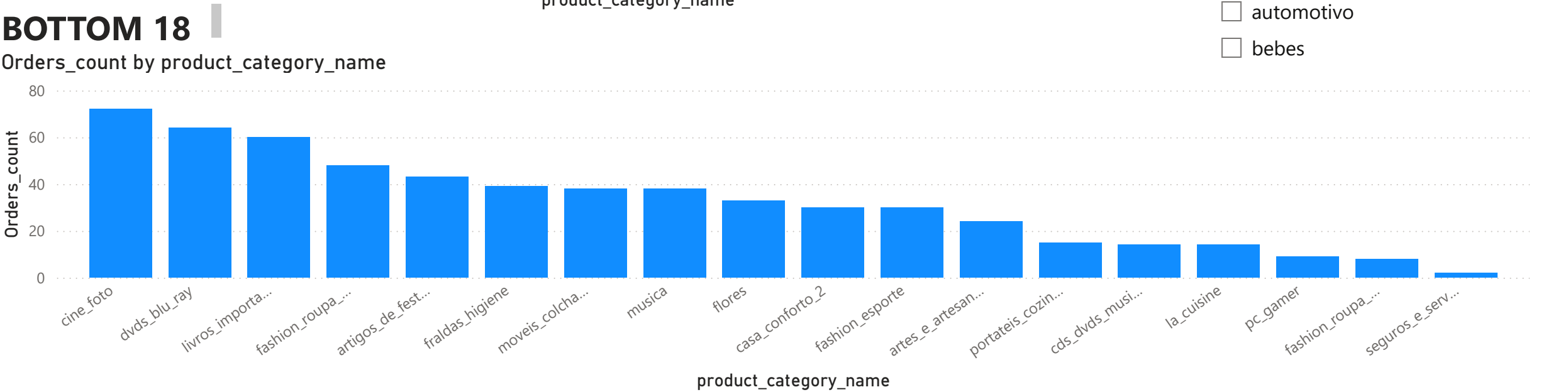
3.List the total number of active sellers by yearly and monthly.

Year	Month	Active Sellers Count
2016	September	3
2016	October	143
2016	December	1
2017	January	227
2017	February	427
2017	March	499
2017	April	506
2017	May	583
2017	June	539
2017	July	606
2017	August	708
2017	September	731
2017	October	776
2017	November	965
2017	December	861
2018	January	970
2018	February	947
2018	March	996
2018	April	1123
2018	May	1115
2018	June	1175
2018	July	1261
2018	August	1278
2018	September	1
Total		**3095**

3095

Active Sellers Count
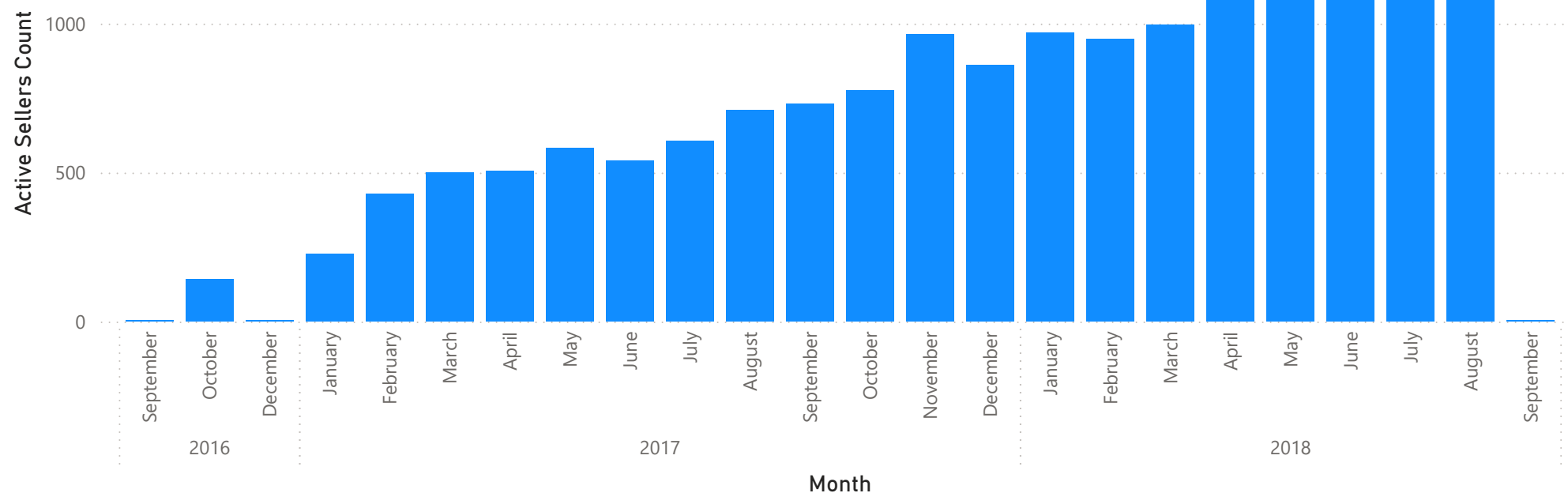
Year, Month

- [ ] 2016
- [ ] 2017
- [ ] 2018

- [ ] 04-09-2016 21:15:00
- [ ] 05-09-2016 00:15:00
- [ ] 13-09-2016 15:24:00
- [ ] 15-09-2016 12:16:00
- [ ] 02-10-2016 22:07:00
- [ ] 03-10-2016 09:44:00
- [ ] 03-10-2016 16:56:00
- [ ] 03-10-2016 21:01:00

Active Sellers Count by Year and Month
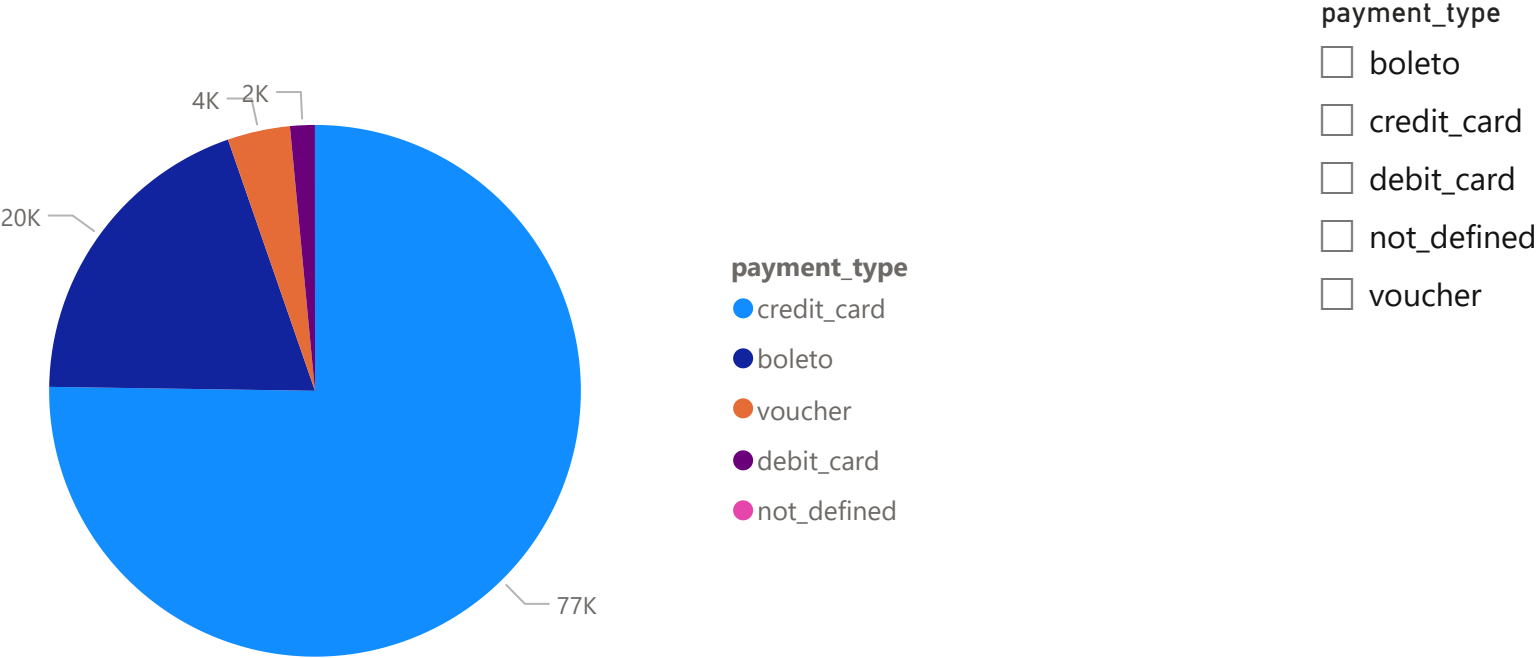
4.Which payment methods are most commonly used by ShopNest customers.

103.89K
Count of payment_type

Customers by Payment Method by payment_type

payment_type
- credit_card
- boleto
- voucher
- debit_card
- not_defined

payment_type
- ☐ boleto
- ☐ credit_card
- ☐ debit_card
- ☐ not_defined
- ☐ voucher

5.Identify the product category. wise profit margin using the formula Hint: (Payment value -price + Freight_value)/payment_value*100 (Rounded to two decimal points).

product_category_name_english	Profit Margin
watches_gifts	15.75
toys	28.29
telephony	36.69
tablets_printing_image	31.63
stationery	34.49
sports_leisure	29.73
small_appliances_home_oven_and_coffee	10.99
small_appliances	16.27
signaling_and_security	46.65
security_and_services	25.40
pet_shop	31.56
perfumery	24.52
party_supplies	32.60
office_furniture	40.45
musical_instruments	18.10
music	22.57
market_place	35.90
luggage_accessories	36.23
la_cuisine	33.26
kitchen_dining_laundry_garden_furniture	41.81
industry_commerce_and_business	34.26
housewares	38.72
home_construction	32.09
home_confort	31.93
Total	**29.17**

product_category_name_english

- [ ] (Blank)
- [ ] agro_industry_and_commerce
- [ ] air_conditioning
- [ ] art
- [ ] arts_and_craftmanship
- [ ] audio
- [ ] auto
- [ ] baby
- [ ] bed_bath_table
- [ ] books_general_interest
- [ ] books_imported
- [ ] books_technical
- [ ] cds_dvds_musicals
- [ ] christmas_supplies
- [ ] cine_photo
- [ ] computers
- [ ] computers_accessories
- [ ] consoles_games
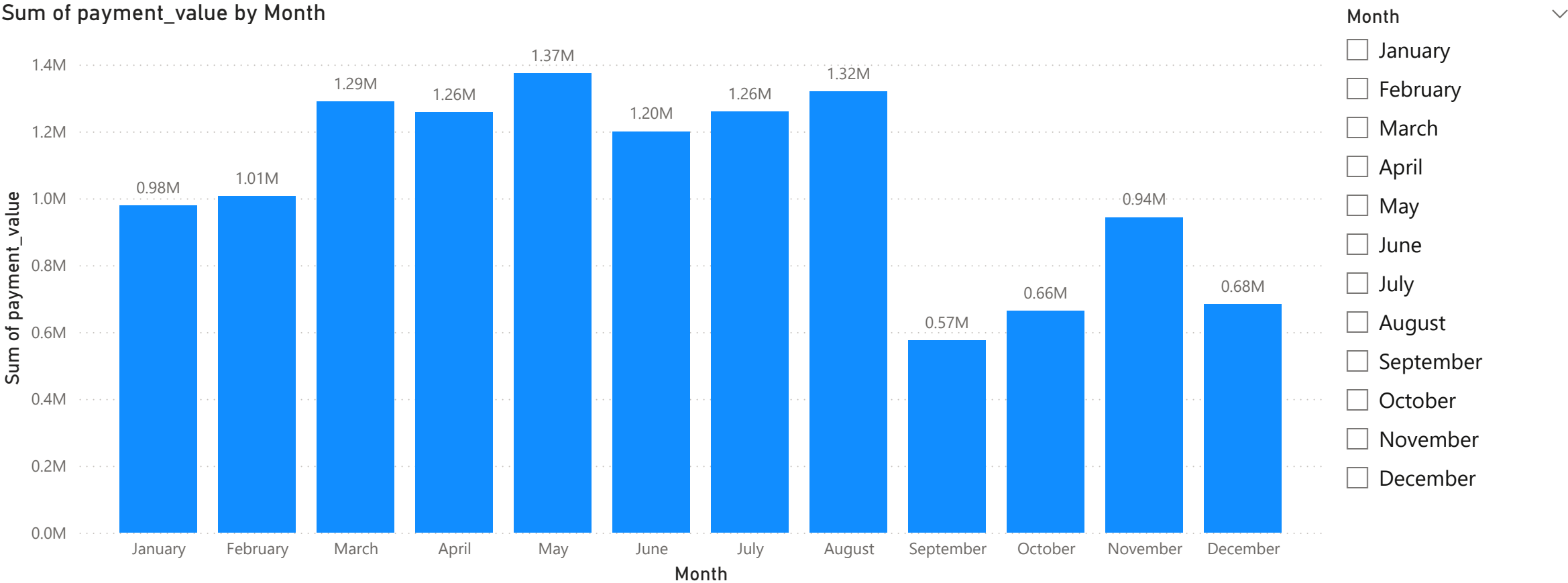
29.17

Total Profit Margin

6.Determine the monthly payments made by customers using credit cards.

12.54M
Monthly Payments by Credit Card

Sum of payment_value by Month

Month	
☐	January
☐	February
☐	March
☐	April
☐	May
☐	June
☐	July
☐	August
☐	September
☐	October
☐	November
☐	December

7.Identify sellers categorized by city, excluding cities starting with the letters S and B.

1790
Count of seller_city

seller_city	Count of seller_id
4482255	1
abadia de goias	1
afonso claudio	1
aguas claras df	1
alambari	1
alfenas	2
almirante tamandare	1
alvares machado	1
alvorada	1
americana	10
amparo	5
ampere	1
anapolis	3
andira-pr	1
andradas	2
angra dos reis	1
angra dos reis rj	1
ao bernardo do campo	1
aparecida	1
aparecida de goiania	1
aperibe	1
apucarana	8
aracaju	1
aracatuba	4
araguari	4
Total	**1790**

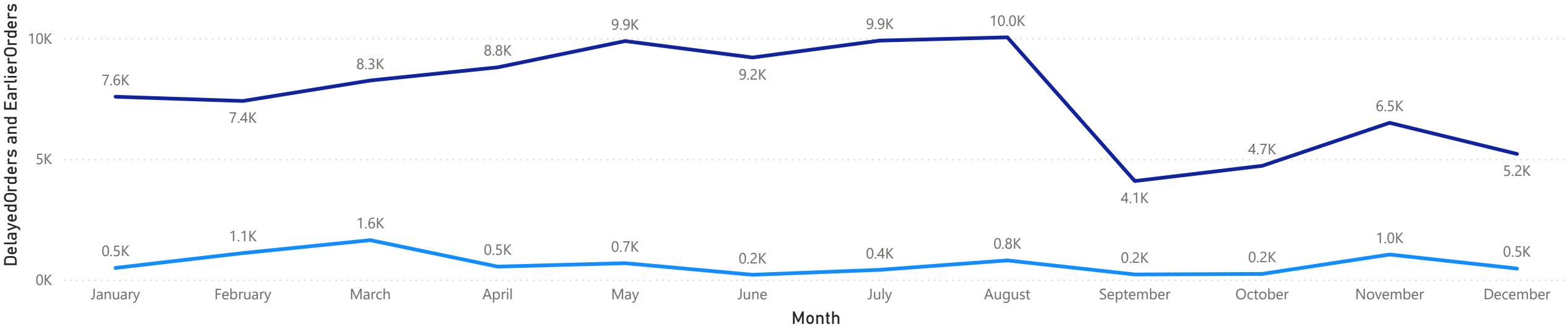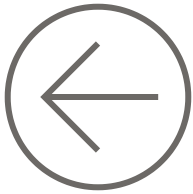| seller_city	
☐ 4482255	
☐ almirante tamandare	
☐ alvorada	
☐ americana	
☐ amparo	
☐ ampere	
☐ andira-pr	
☐ aparecida	
☐ aparecida de goiania	
☐ apucarana	
☐ aracaju	
☐ araguari	
☐ araquari	
☐ ararangua	
☐ araraquara	
☐ araucaria	
☐ araxa	
☐ artur nogueira	

8.Create a dynamic visual that compares the number of delayed orders to the number of orders received earlier for each month. Utilize the drill through the cross-report feature to provide a detailed analysis of late and on-time deliveries.

January	
7582 EarlierOrders	487 DelayedOrders

February	
7406 EarlierOrders	1102 DelayedOrders

March	
8255	1638

Month
- ☐ January
- ☐ February
- ☐ March
- ☐ April
- ☐ May
- ☐ June
- ☐ July

7827
DelayedOrders

92K
EarlierOrders

DelayedOrders and EarlierOrders by Month

● DelayedOrders ● EarlierOrders

EarlierOrders line: 7.6K (January), 7.4K (February), 8.3K (March), 8.8K (April), 9.9K (May), 9.2K (June), 9.9K (July), 10.0K (August), 4.1K (September), 4.7K (October), 6.5K (November), 5.2K (December)

DelayedOrders line: 0.5K (January), 1.1K (February), 1.6K (March), 0.5K (April), 0.7K (May), 0.2K (June), 0.4K (July), 0.8K (August), 0.2K (September), 0.2K (October), 1.0K (November), 0.5K (December)
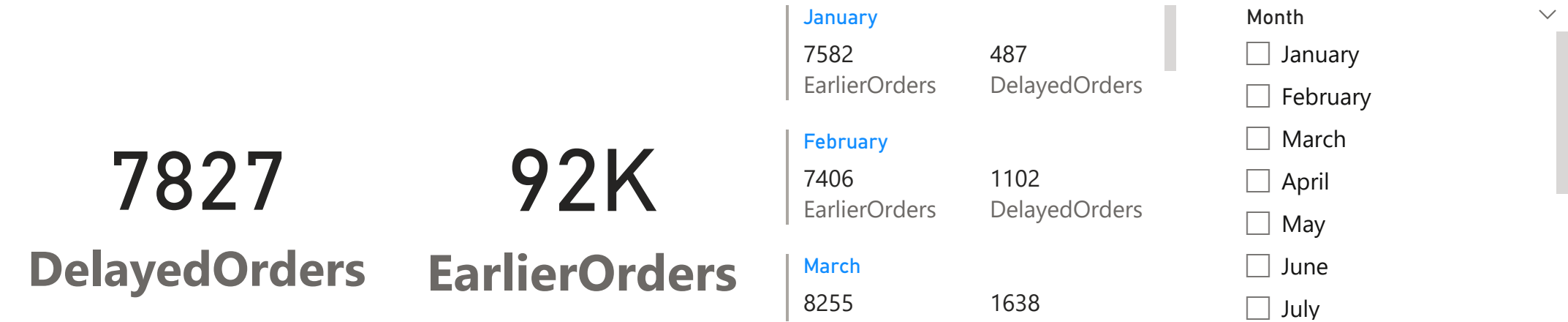
Utilize the drill through the cross-report feature to provide a detailed analysis of late and on-time deliveries.

Drill Through Detailed Report

Year	Month	Sum of IsDelayed	DelayedOrders	EarlierOrders
2016	September	1	1	3
2016	October	3	3	321
2016	December	0	0	1
2017	January	23	23	777
2017	February	53	53	1727
2017	March	142	142	2540
2017	April	181	181	2223
2017	May	128	128	3572
2017	June	121	121	3124
2017	July	133	133	3893
2017	August	139	139	4192
2017	September	216	216	4069
2017	October	237	237	4394
2017	November	1043	1043	6501
2017	December	462	462	5211
Total		**7827**	**7827**	**91614**