



# Overview

Overview

Alerts

Reproduction

Dataset statistics

Number of variables	18
Number of observations	1000
Missing cells	158
Missing cells (%)	0.9%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	470.7 KiB
Average record size in memory	482.0 B

Variable types

Text	1
Numeric	8
Categorical	7
Date Time	2

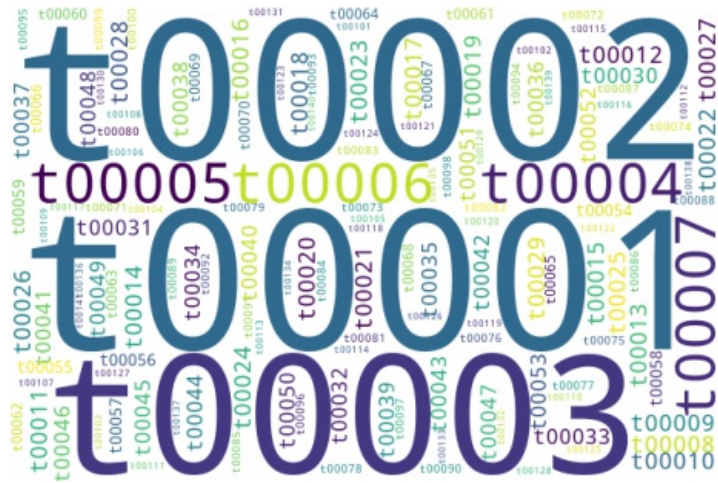
# Variables

Select Columns

transaction\_id

Text

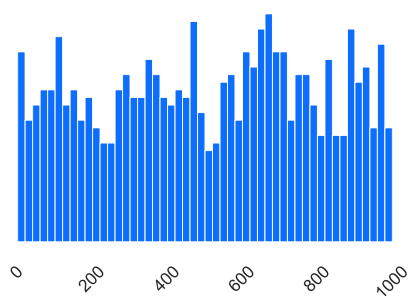
Distinct	1000
Distinct (%)	100.0%
Missing	0
Missing (%)	0.0%
Memory size	61.7 KiB


[More details](#)

customer\_id  
Real number (R)

Distinct	637
Distinct (%)	63.7%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	507.486

Minimum	1
Maximum	1000
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	7.9 KiB

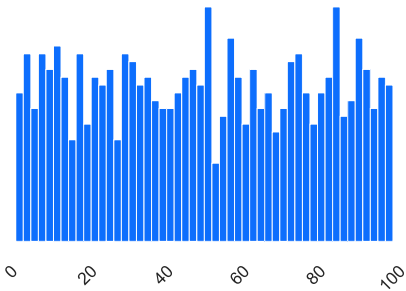

[More details](#)

product\_id

Real number (R)

Distinct	100
Distinct (%)	10.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	50.406

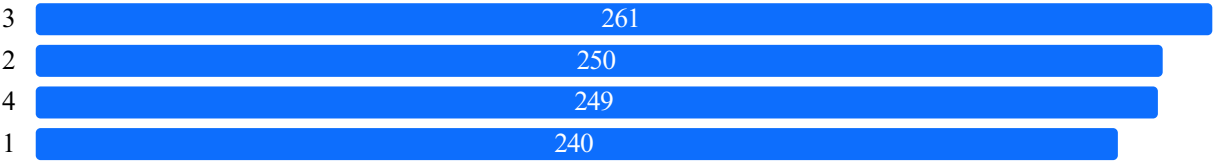
Minimum	1
Maximum	100
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	7.9 KiB



More details

quantity  
Categorical

Distinct	4
Distinct (%)	0.4%
Missing	0
Missing (%)	0.0%
Memory size	56.8 KiB

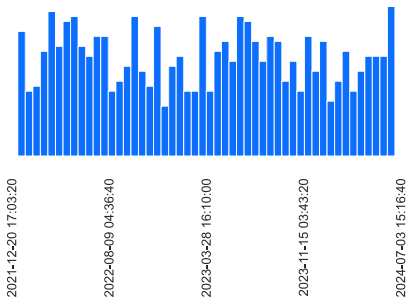


More details

purchase\_date  
Date

Distinct	599
Distinct (%)	59.9%
Missing	0
Missing (%)	0.0%
Memory size	7.9 KiB

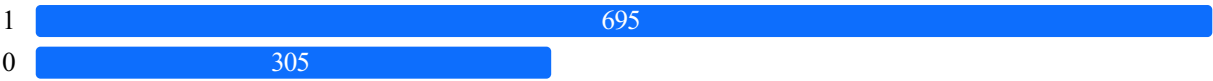
Minimum	2022-01-01 00:00:00
Maximum	2024-06-17 00:00:00
Invalid dates	0
Invalid dates (%)	0.0%



[More details](#)

[purchased](#)  
Categorical

Distinct	2
Distinct (%)	0.2%
Missing	0
Missing (%)	0.0%
Memory size	56.8 KiB

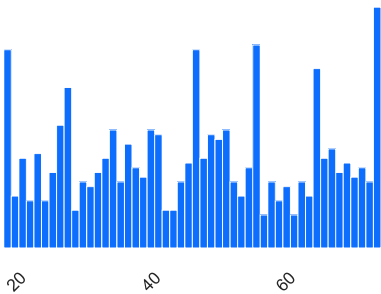


[More details](#)

[age](#)  
Real number (ℝ)  
Missing

Distinct	57
Distinct (%)	6.0%
Missing	49
Missing (%)	4.9%
Infinite	0
Infinite (%)	0.0%
Mean	46.361725

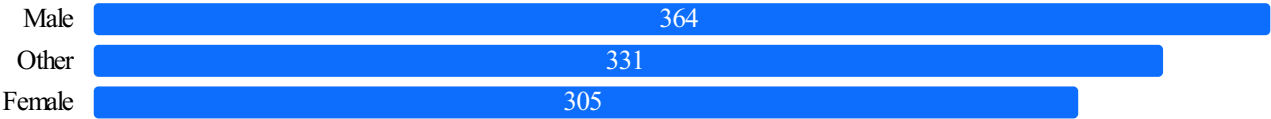
Minimum	18
Maximum	74
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	7.9 KiB



[More details](#)

gender  
Categorical

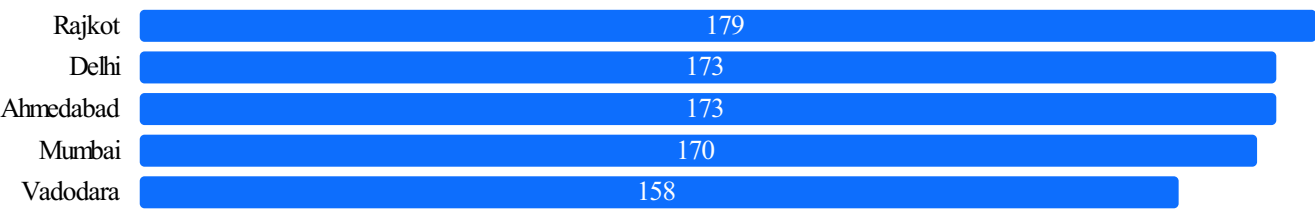
Distinct	3
Distinct (%)	0.3%
Missing	0
Missing (%)	0.0%
Memory size	60.6 KiB



[More details](#)

city  
Categorical

Distinct	6
Distinct (%)	0.6%
Missing	0
Missing (%)	0.0%
Memory size	62.2 KiB



More details

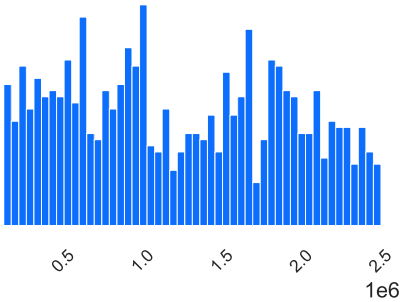
annual\_income

Real number (R)

Missing

Distinct	606
Distinct (%)	63.8%
Missing	50
Missing (%)	5.0%
Infinite	0
Infinite (%)	0.0%
Mean	1223201.7

Minimum	122258
Maximum	2499544
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	7.9 KiB



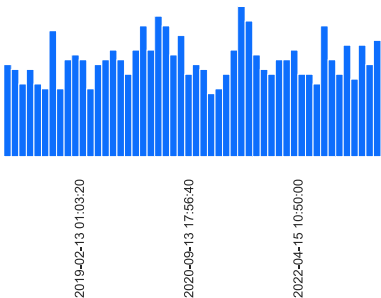
More details

signup\_date

Date

Distinct	547
Distinct (%)	54.7%
Missing	0
Missing (%)	0.0%
Memory size	7.9 KiB

Minimum	2018-01-02 00:00:00
Maximum	2023-06-22 00:00:00
Invalid dates	0
Invalid dates (%)	0.0%



More details

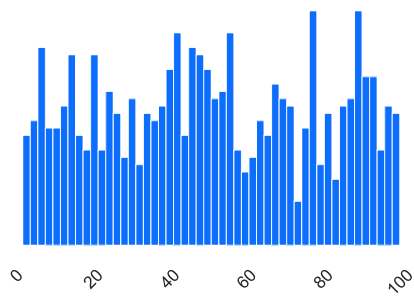
loyalty\_score

Real number (ℝ)

Missing

Distinct	582
Distinct (%)	61.8%
Missing	59
Missing (%)	5.9%
Infinite	0
Infinite (%)	0.0%
Mean	50.704166

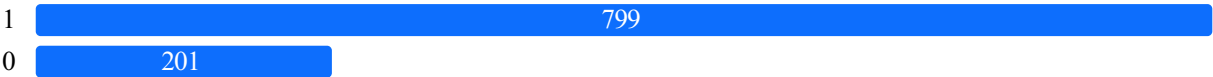
Minimum	1.4
Maximum	99.73
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	7.9 KiB

[More details](#)

is\_active

Categorical

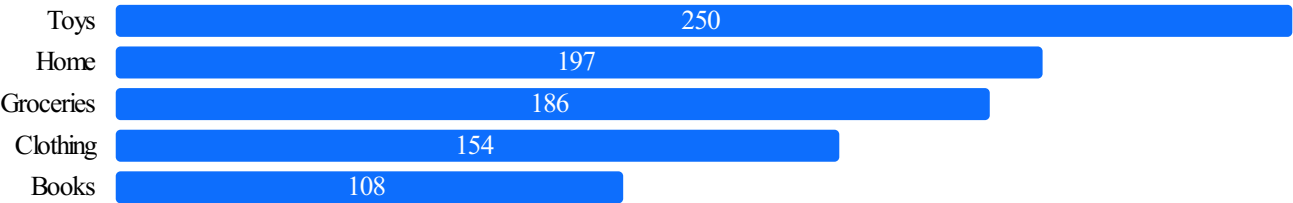
Distinct	2
Distinct (%)	0.2%
Missing	0
Missing (%)	0.0%
Memory size	56.8 KiB

[More details](#)

category

Categorical

Distinct	6
Distinct (%)	0.6%
Missing	0
Missing (%)	0.0%
Memory size	62.0 KiB

[More details](#)

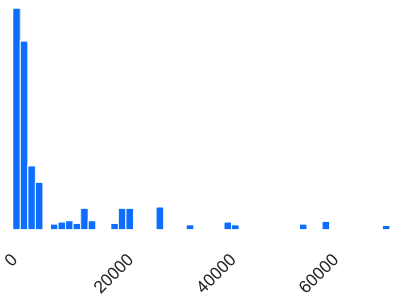
price

Real number (R)



Distinct	100
Distinct (%)	10.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	7988.055

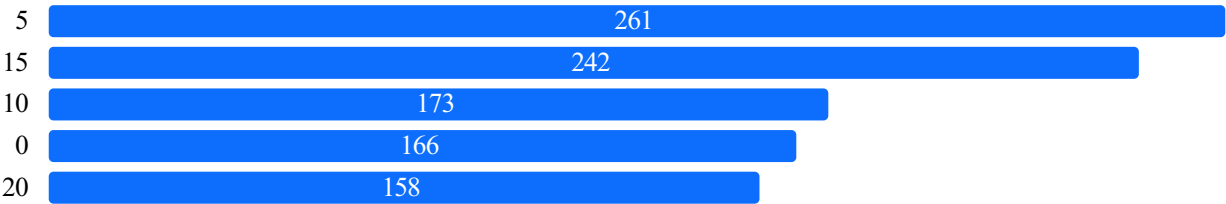
Minimum	174.87
Maximum	73715.1
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	7.9 KiB



[More details](#)

discount  
Categorical

Distinct	5
Distinct (%)	0.5%
Missing	0
Missing (%)	0.0%
Memory size	57.3 KiB

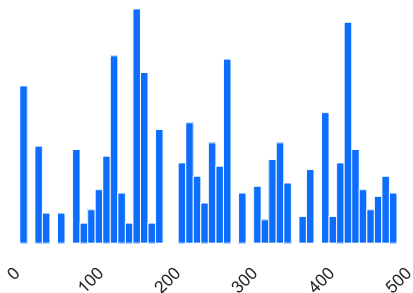


[More details](#)

stock\_qty  
Real number (R)

Distinct	87
Distinct (%)	8.7%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	253.195

Minimum	7
Maximum	497
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	7.9 KiB

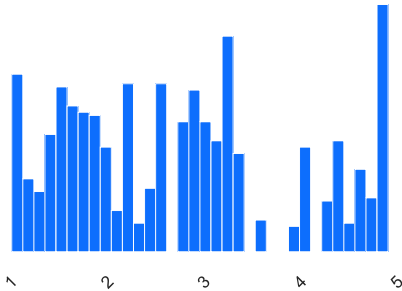


[More details](#)

rating  
Real number (R)

Distinct	34
Distinct (%)	3.4%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	2.7413

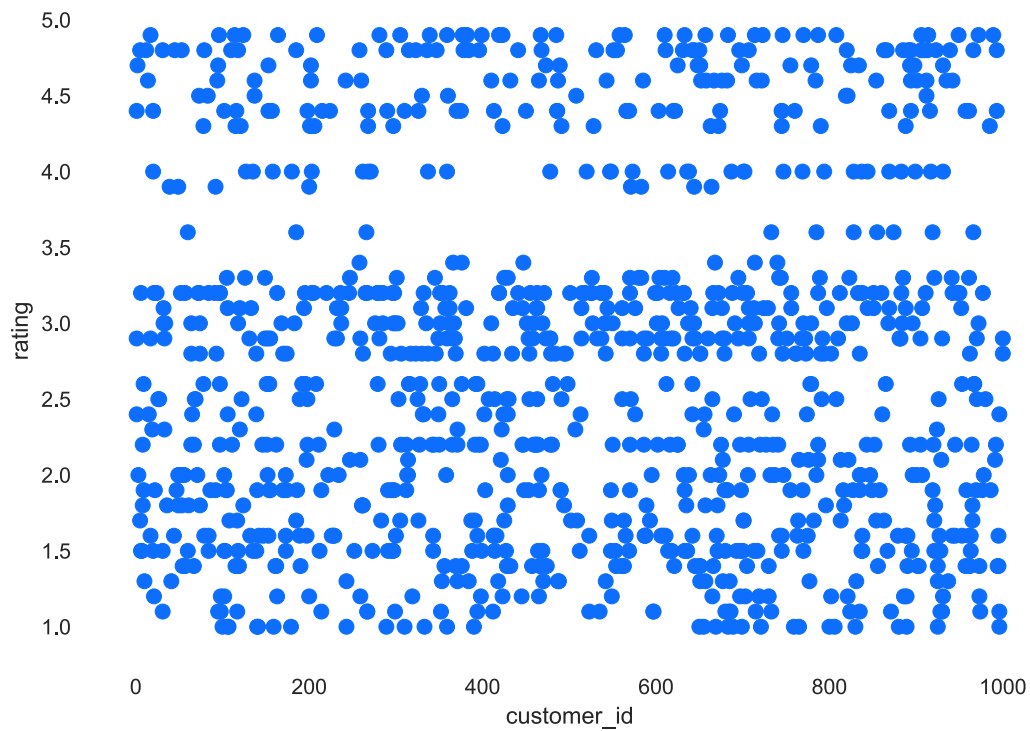
Minimum	1
Maximum	4.9
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	7.9 KiB



More details

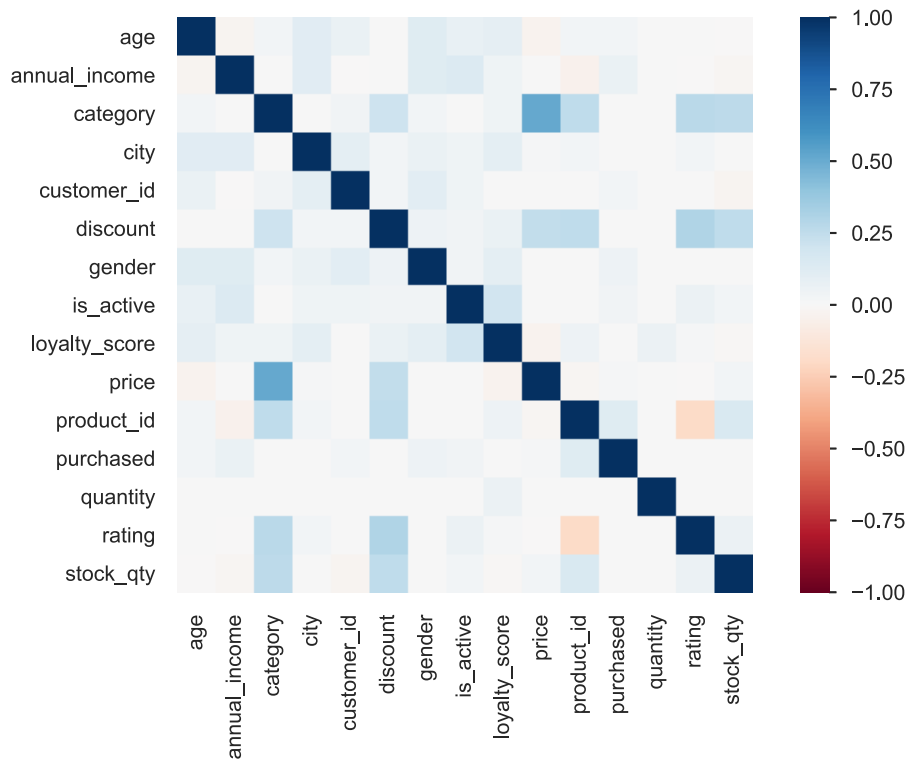
## Interactions

- customer\_id
- product\_id
- age
- annual\_income
- loyalty\_score
- price
- stock\_qty
- rating
- rating
- customer\_id
- product\_id
- age
- annual\_income
- loyalty\_score
- price
- stock\_qty



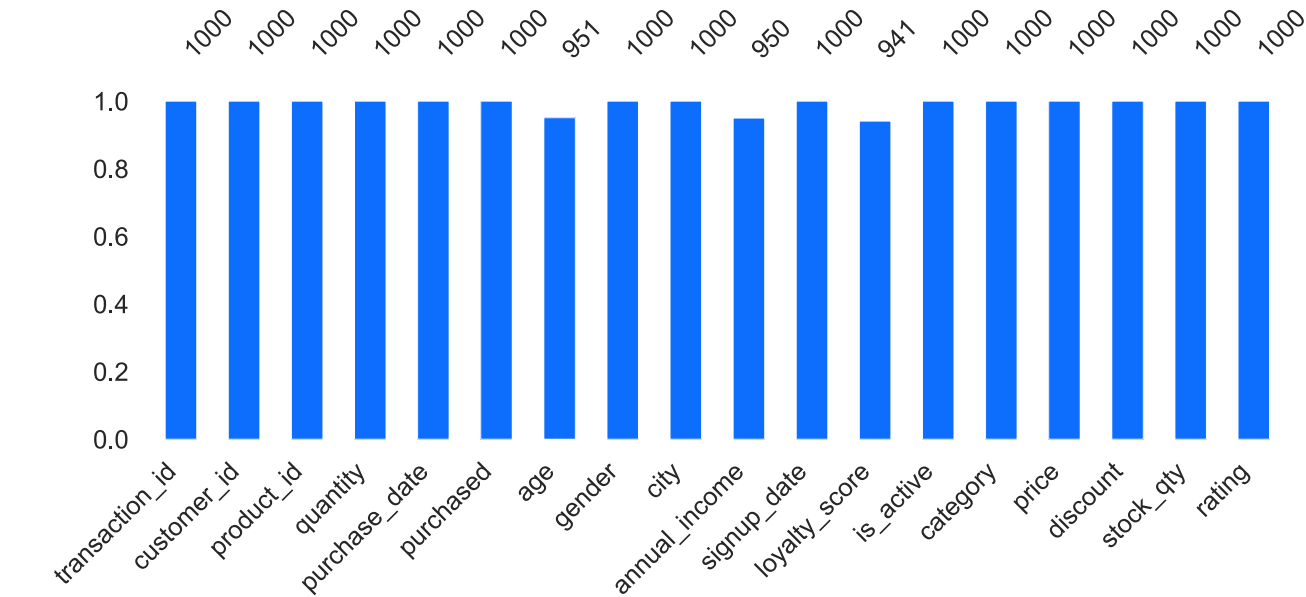
## Correlations

Auto  
Heatmap  
Table



## Missing values

Count  
Matrix  
Heatmap



A simple visualization of nullity by column.

# Sample

First rows

Last rows

	transaction_id	customer_id	product_id	quantity	purchase_date	purchased	age	gender	city	annual_income
0	T00001	325	11	4	2023-12-24	0	44.0	Other	Rajkot	864504.0
1	T00002	580	24	4	2022-01-25	1	52.0	Other	Vadodara	NaN
2	T00003	343	76	2	2023-06-12	1	26.0	Male	Mumbai	266007.0
3	T00004	570	22	2	2022-07-01	0	45.0	Male	Mumbai	NaN
4	T00005	645	52	1	2023-05-14	0	26.0	Other	Delhi	1076659.0
5	T00006	595	30	4	2024-04-20	1	63.0	Female	Delhi	321927.0
6	T00007	346	34	3	2023-10-03	0	20.0	Female	Mumbai	1670159.0
7	T00008	359	38	2	2022-02-11	0	26.0	Other	Surat	1512532.0
8	T00009	625	88	3	2023-04-26	1	56.0	Female	Surat	964925.0
9	T00010	371	70	1	2024-04-27	1	70.0	Female	Ahmedabad	1330870.0