

Overview

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Overview

Alerts101

Reproduction

Dataset statistics

Number of variables	52
Number of observations	96806
Missing cells	0
Missing cells (%)	0.0%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	38.4 MiB
Average record size in memory	416.0 B

Variable types

Numeric	40
Categorical	12

Variables

Select Columns

transaction_attribute_105

Real number (\mathbb{R})

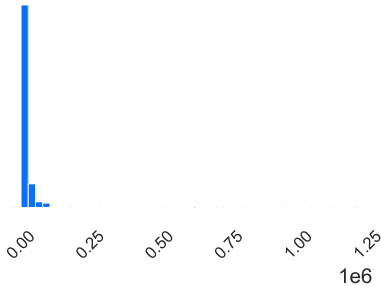
High correlation

Zeros

Distinct	27199
Distinct (%)	28.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	12274.778

Minimum	-106045
Maximum	1200000

Zeros	25231
Zeros (%)	26.1%
Negative	178
Negative (%)	0.2%
Memory size	756.4 KiB



More details

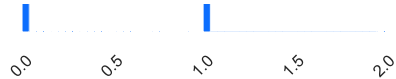
transaction_attribute_151

Real number (\mathbb{R})

High correlation Zeros

Distinct	1161
Distinct (%)	1.2%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.73121065

Minimum	0
Maximum	1.9971083
Zeros	25633
Zeros (%)	26.5%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



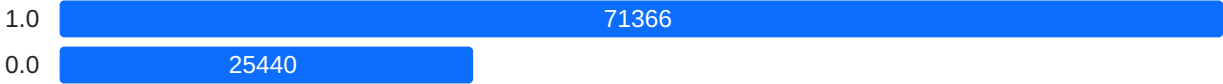
More details

transaction_attribute_152

Categorical

High correlation

Distinct	2
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	5.5 MiB



More details

transaction_attribute_229

Real number (\mathbb{R})

High correlation Skewed Zeros

Distinct	66817
Distinct (%)	69.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.2115703

Minimum	-0.83813559
Maximum	90.378457
Zeros	25633
Zeros (%)	26.5%
Negative	344
Negative (%)	0.4%
Memory size	756.4 KiB



More details

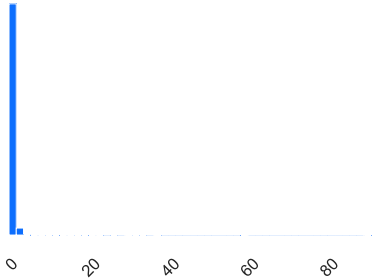
transaction_attribute_230

Real number (\mathbb{R})

High correlation Skewed Zeros

Distinct	66924
Distinct (%)	69.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.21239516

Minimum	-0.83813559
Maximum	90.378457
Zeros	25440
Zeros (%)	26.3%
Negative	344
Negative (%)	0.4%
Memory size	756.4 KiB



More details

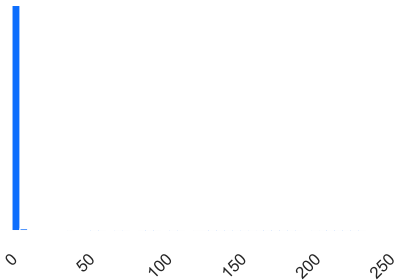
transaction_attribute_305

Real number (\mathbb{R})

Skewed Zeros

Distinct	46
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.34041278

Minimum	0
Maximum	244
Zeros	83127
Zeros (%)	85.9%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



More details

transaction_attribute_334

Real number (\mathbb{R})

High correlation Skewed Zeros

Distinct	66610
Distinct (%)	68.8%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	50287.902

Minimum	-180445.28
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Maximum	42100000
Zeros	25443
Zeros (%)	26.3%
Negative	83
Negative (%)	0.1%
Memory size	756.4 KiB



[More details](#)

transaction_attribute_390

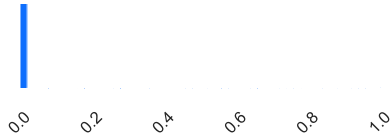
Real number (\mathbb{R})

Zeros

Distinct	138
Distinct (%)	0.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.010775907

Minimum	0
Maximum	1
Zeros	93830
Zeros (%)	96.9%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB





[More details](#)

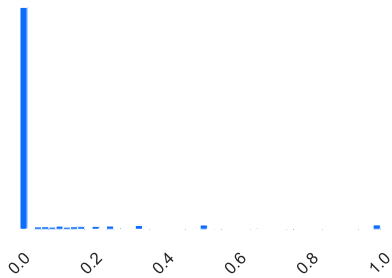
transaction_attribute_395

Real number (\mathbb{R})

Zeros

Distinct	305
Distinct (%)	0.3%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.053248914

Minimum	0
Maximum	1
Zeros	80686
Zeros (%)	83.3%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



[More details](#)

transaction_attribute_403

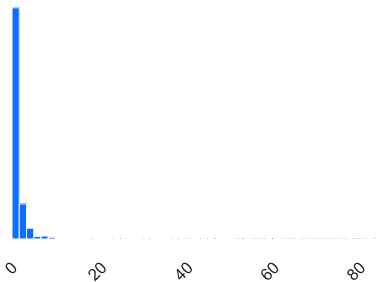
Real number (\mathbb{R})

Zeros

Distinct	54
Distinct (%)	0.1%

Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.94897011

Minimum	0
Maximum	84
Zeros	61424
Zeros (%)	63.5%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



More details

transaction_attribute_429

Real number (\mathbb{R})

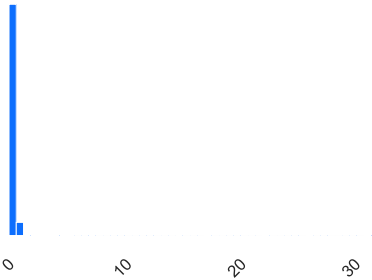
High correlation Skewed Zeros

Distinct	8714
Distinct (%)	9.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.066319028

Minimum	0
Maximum	31.681818
Zeros	86279

Zeros (%)89.1%

Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



More details

transaction_attribute_431

Real number (\mathbb{R})

High correlationZeros

Distinct	10264
Distinct (%)	10.6%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.018049987

Minimum	-0.01876
Maximum	3.1873333
Zeros	86297

Zeros (%)89.1%

Negative	1
Negative (%)	< 0.1%
Memory size	756.4 KiB



More details

transaction_attribute_442

Real number (\mathbb{R})

SkewedZeros

Distinct	5823
Distinct (%)	6.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	1213.1049
Minimum	0
Maximum	3431257.8
Zeros	88145
Zeros (%)	91.1%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



More details

transaction_attribute_464

Real number (\mathbb{R})

High correlationZeros

Distinct	16716
Distinct (%)	17.3%
Missing	0
Missing (%)	0.0%

Infinite	0
Infinite (%)	0.0%
Mean	0.070642516
Minimum	0
Maximum	16.392345
Zeros	78108
Zeros (%)	80.7%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



More details

transaction_attribute_466

Real number (\mathbb{R})

High correlationZeros

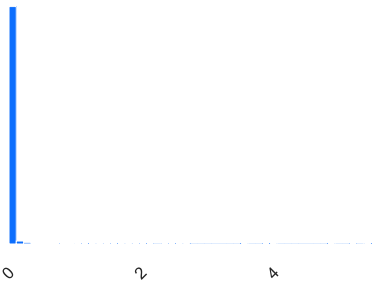
Distinct	16007
Distinct (%)	16.5%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.016847846
Minimum	0
Maximum	5.4686667
Zeros	78089
Zeros (%)	80.7%
Negative	0

Negative (%)

0.0%

Memory size

756.4 KiB



More details

transaction_attribute_516

Real number (\mathbb{R})

High correlation Skewed Zeros

Distinct	15775
Distinct (%)	16.3%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.038686543

Minimum	0
Maximum	21.304147
Zeros	77771
Zeros (%)	80.3%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



More details

transaction_attribute_527

Real number (\mathbb{R})

High correlation Skewed Zeros

Distinct	42885
Distinct (%)	44.3%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	18856.706

Minimum	-106045
Maximum	19300000
Zeros	40639
Zeros (%)	42.0%
Negative	18
Negative (%)	< 0.1%
Memory size	756.4 KiB



More details

transaction_attribute_593

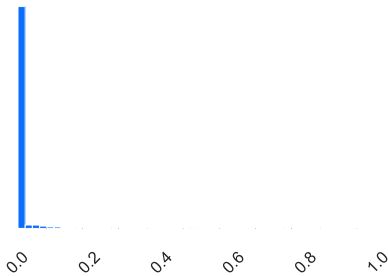
Real number (\mathbb{R})

Zeros

Distinct	641
Distinct (%)	0.7%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.010010446

mean	0.012613446
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Minimum	0
Maximum	1
Zeros	88574
Zeros (%)	91.5%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



More details

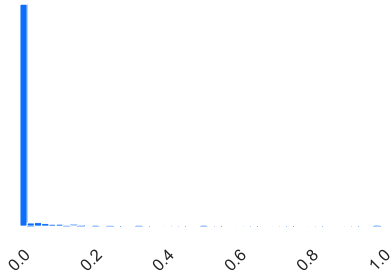
transaction_attribute_602

Real number (\mathbb{R})

High correlation Zeros

Distinct	463
Distinct (%)	0.5%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.022320322

Minimum	0
Maximum	1
Zeros	86225
Zeros (%)	89.1%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



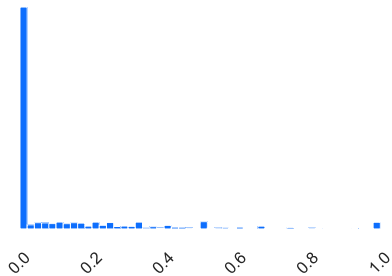
[More details](#)

transaction_attribute_604

Real number (\mathbb{R})

Zeros

Distinct	1172
Distinct (%)	1.2%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.11983045
Minimum	0
Maximum	1
Zeros	61616
Zeros (%)	63.6%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



[More details](#)

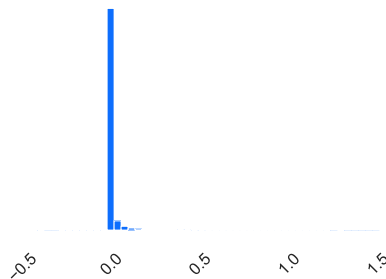
transaction_attribute_641

Real number (\mathbb{R})

High correlation

Zeros

Distinct	10329
Distinct (%)	10.7%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.0090624182
Minimum	-0.42035135
Maximum	1.5477593
Zeros	86309
Zeros (%)	89.2%
Negative	56
Negative (%)	0.1%
Memory size	756.4 KiB



[More details](#)

transaction_attribute_658

Real number (\mathbb{R})

High correlation Skewed Zeros

Distinct	16495
Distinct (%)	17.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.022478184
Minimum	-0.001114519
Maximum	15.667014

Zeros	77771
Zeros (%)	80.3%
Negative	2
Negative (%)	< 0.1%
Memory size	756.4 KiB



More details

transaction_attribute_660

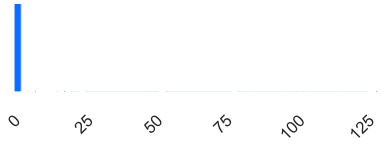
Real number (\mathbb{R})

High correlation Skewed Zeros

Distinct	70217
Distinct (%)	72.5%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.20140327

Minimum	-0.35114238
Maximum	129.8794
Zeros	25335
Zeros (%)	26.2%
Negative	82
Negative (%)	0.1%
Memory size	756.4 KiB





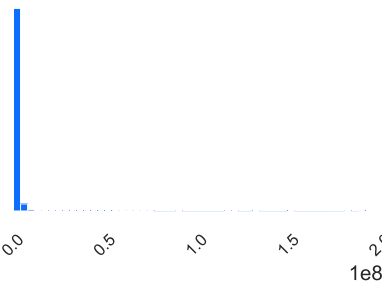
More details

bureau_46

Real number (\mathbb{R})

High correlation Skewed Zeros

Distinct	7988
Distinct (%)	8.3%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	596673.88
Minimum	0
Maximum	1.9153×10^8
Zeros	80714
Zeros (%)	83.4%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



More details

bureau_55

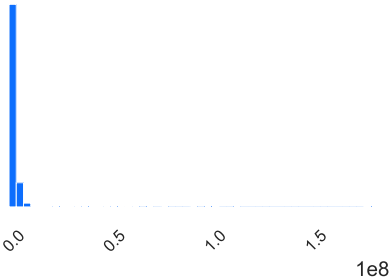
Real number (\mathbb{R})

High correlation Skewed Zeros

Distinct	15559
Distinct (%)	16.1%

Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	450539.32

Minimum	-2703974
Maximum	1.7714811×10^8
Zeros	80841
Zeros (%)	83.5%
Negative	138
Negative (%)	0.1%
Memory size	756.4 KiB



More details

bureau_94

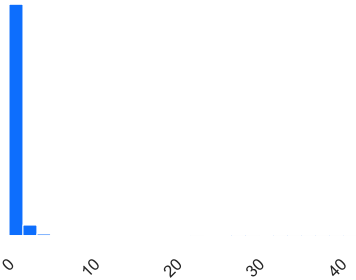
Real number (\mathbb{R})

Zeros

Distinct	26
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.28270975

Minimum	0
Maximum	44
Zeros	78355

Zeros (%)	80.9%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



[More details](#)

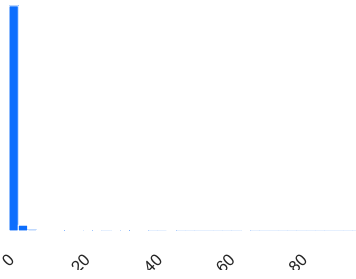
bureau_112

Real number (\mathbb{R})

High correlationZeros

Distinct	39
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.27874305

Minimum	0
Maximum	100
Zeros	87409
Zeros (%)	90.3%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



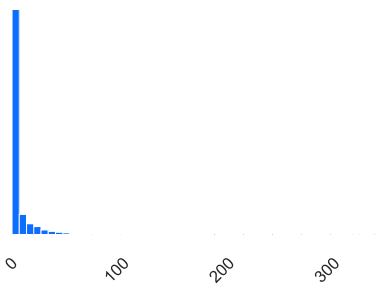
[More details](#)

bureau_138

Real number (\mathbb{R})

Zeros

Distinct	244
Distinct (%)	0.3%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	6.4921183
Minimum	0
Maximum	344
Zeros	69471
Zeros (%)	71.8%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



[More details](#)

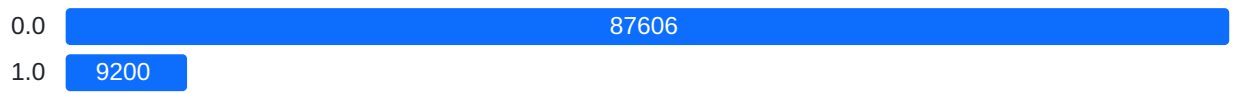
bureau_195

Categorical

High correlation Imbalance

Distinct	2
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%

Memory size	5.5 MiB
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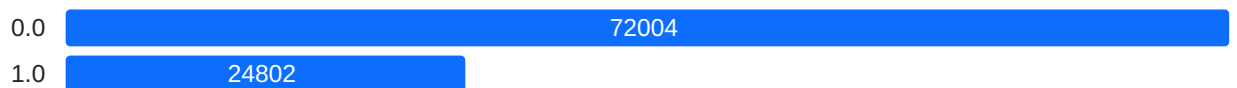
[More details](#)

bureau_277

Categorical

High correlation

Distinct	2
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	5.5 MiB



[More details](#)

bureau_278

Categorical

High correlation

Distinct	2
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	5.5 MiB



[More details](#)

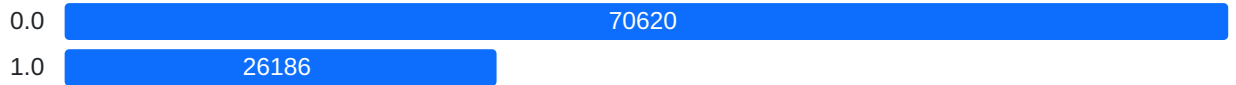
bureau_315

Categorical

High correlation

Distinct	2
Distinct (%)	< 0.1%

Missing	0
Missing (%)	0.0%
Memory size	5.5 MiB

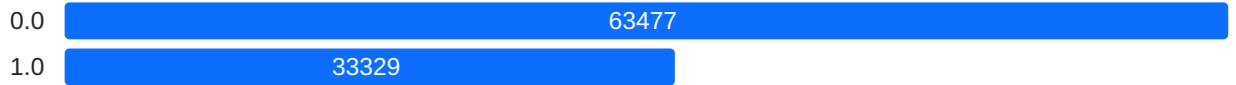

[More details](#)

bureau_317

Categorical

High correlation

Distinct	2
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	5.5 MiB

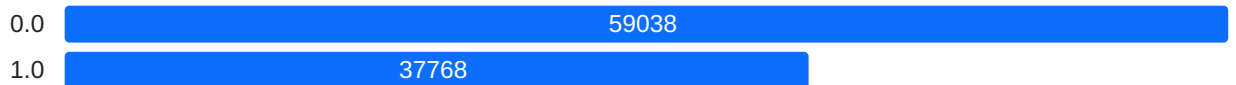

[More details](#)

bureau_357

Categorical

High correlation

Distinct	2
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	5.5 MiB


[More details](#)

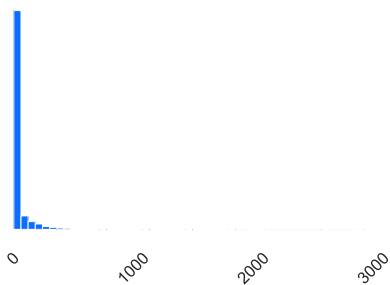
bureau_391

Real number (\mathbb{R})

High correlation Zeros

Distinct	958
Distinct (%)	1.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	33.480383

Minimum	0
Maximum	2981
Zeros	74443
Zeros (%)	76.9%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



More details

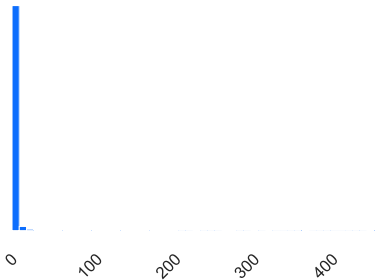
bureau_404

Real number (\mathbb{R})

High correlation Skewed Zeros

Distinct	147
Distinct (%)	0.2%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.92804165

Minimum	0
Maximum	461
Zeros	91101
Zeros (%)	94.1%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



More details

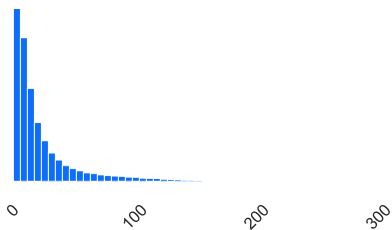
bureau_426

Real number (\mathbb{R})

Zeros

Distinct	18490
Distinct (%)	19.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	21.423155

Minimum	0
Maximum	287
Zeros	6576
Zeros (%)	6.8%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB

[More details](#)

bureau_431

Real number (\mathbb{R})

High correlation

Skewed

Zeros

Distinct	91416
Distinct (%)	94.4%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.33118718

Minimum	-6.5323113
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Maximum	86.393
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Zeros	5080
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Zeros (%)	5.2%
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Negative	1959
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Negative (%)	2.0%
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Memory size	756.4 KiB
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[More details](#)

bureau_452

Real number (\mathbb{R})

High correlation

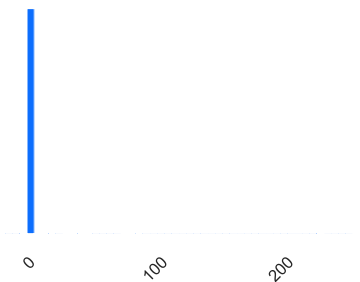
Skewed

Zeros

Distinct	88457
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Distinct (%)	91.4%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.39714806

Minimum	-25.158039
Maximum	262.23656
Zeros	7632
Zeros (%)	7.9%
Negative	2196
Negative (%)	2.3%
Memory size	756.4 KiB



More details

onus_attribute_2

Real number (\mathbb{R})

High correlation Zeros

Distinct	75271
Distinct (%)	77.8%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.22395282

Minimum	-1.0901719
Maximum	1.2435362

Zeros

13646

Zeros (%)

14.1%

Negative

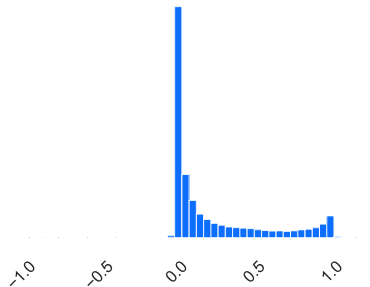
10488

Negative (%)

10.8%

Memory size

756.4 KiB



More details

onus_attribute_26

Categorical

High correlation

Distinct

2

Distinct (%)

< 0.1%

Missing

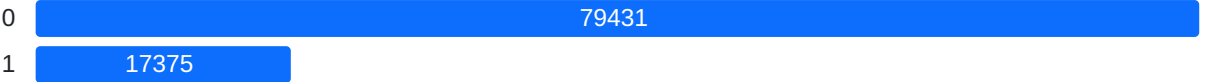
0

Missing (%)

0.0%

Memory size

5.4 MiB



More details

onus_attribute_29

Categorical

High correlation Imbalance

Distinct

2

Distinct (%)

< 0.1%

Missing

0

Missing (%)

0.0%

Memory size

5.4 MiB



More details

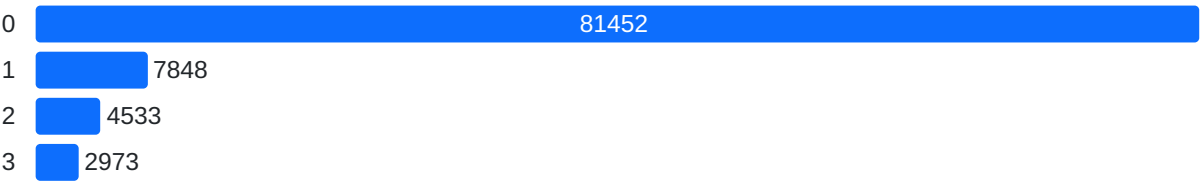
onus_attribute_33

Categorical

High correlation

Imbalance

Distinct	4
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	5.4 MiB



More details

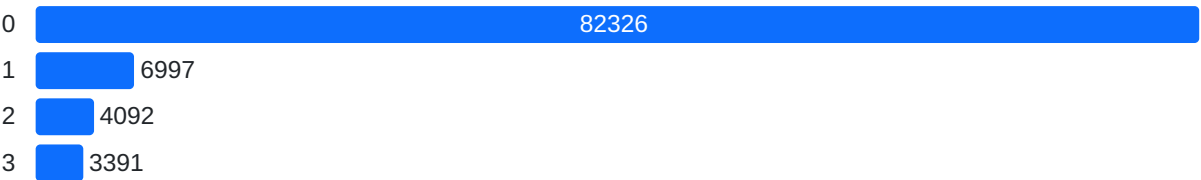
onus_attribute_35

Categorical

High correlation

Imbalance

Distinct	4
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	5.4 MiB



More details

onus_attribute_38

Real number (\mathbb{R})

High correlation

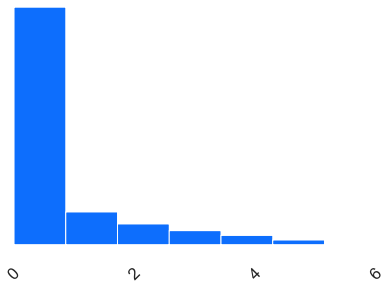
Zeros

Distinct	7
Distinct (%)	< 0.1%

distinct (%)

Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.55984133

Minimum	0
Maximum	6
Zeros	72048
Zeros (%)	74.4%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



More details

bureau_enquiry_25

Real number (\mathbb{R})

High correlation Zeros

Distinct	37
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.88332335

Minimum	0
Maximum	49
Zeros	64335

Zeros (%)

66.5%

Negative

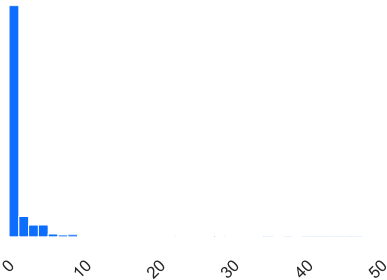
0

Negative (%)

0.0%

Memory size

756.4 KiB



More details

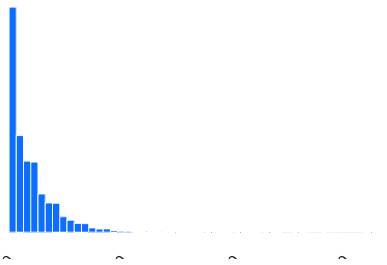
bureau_enquiry_33

Real number (\mathbb{R})

High correlation Zeros

Distinct	118
Distinct (%)	0.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	9.6683677

Minimum	0
Maximum	165
Zeros	12789
Zeros (%)	13.2%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



050100150

More details

bureau_enquiry_45

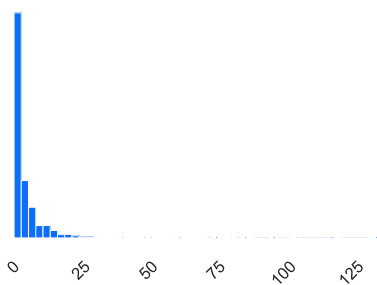
Real number (\mathbb{R})

High correlation

Zeros

Distinct	86
Distinct (%)	0.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	3.5124372

Minimum	0
Maximum	134
Zeros	39629
Zeros (%)	40.9%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



More details

onus_attribute_44

Real number (\mathbb{R})

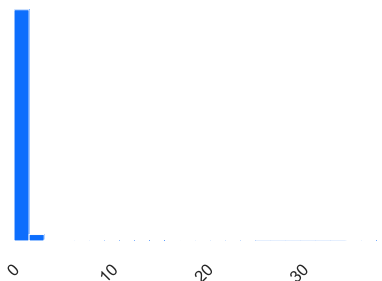
High correlation

Zeros

Distinct	24
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%

Infinite	0
Infinite (%)	0.0%
Mean	0.17955499

Minimum	0
Maximum	38
Zeros	87228
Zeros (%)	90.1%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



[More details](#)

onus_attribute_46

Real number (\mathbb{R})

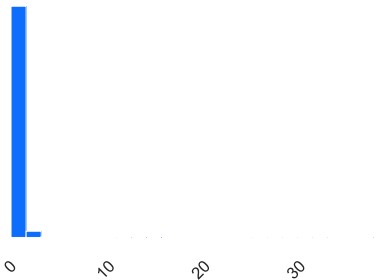
High correlation Zeros

Distinct	24
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	0.17155961

Minimum	0
Maximum	38
Zeros	87862
Zeros (%)	90.8%
Negative	0

Negative (%)0.0%

Memory size756.4 KiB



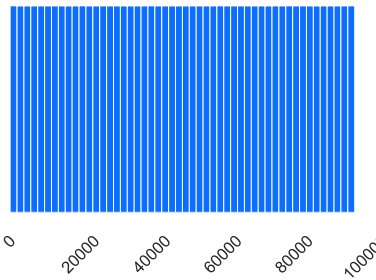
More details

account_number

Real number (\mathbb{R})

UniformUnique

Distinct	96806
Distinct (%)	100.0%
Missing	0
Missing (%)	0.0%
Infinite	0
Infinite (%)	0.0%
Mean	48403.5
Minimum	1
Maximum	96806
Zeros	0
Zeros (%)	0.0%
Negative	0
Negative (%)	0.0%
Memory size	756.4 KiB



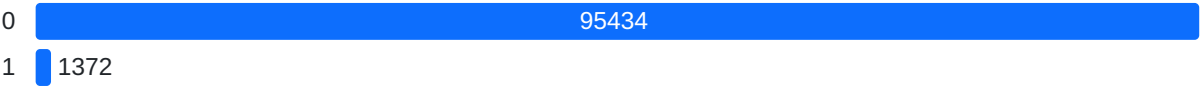
More details

bad_flag

Categorical

Imbalance

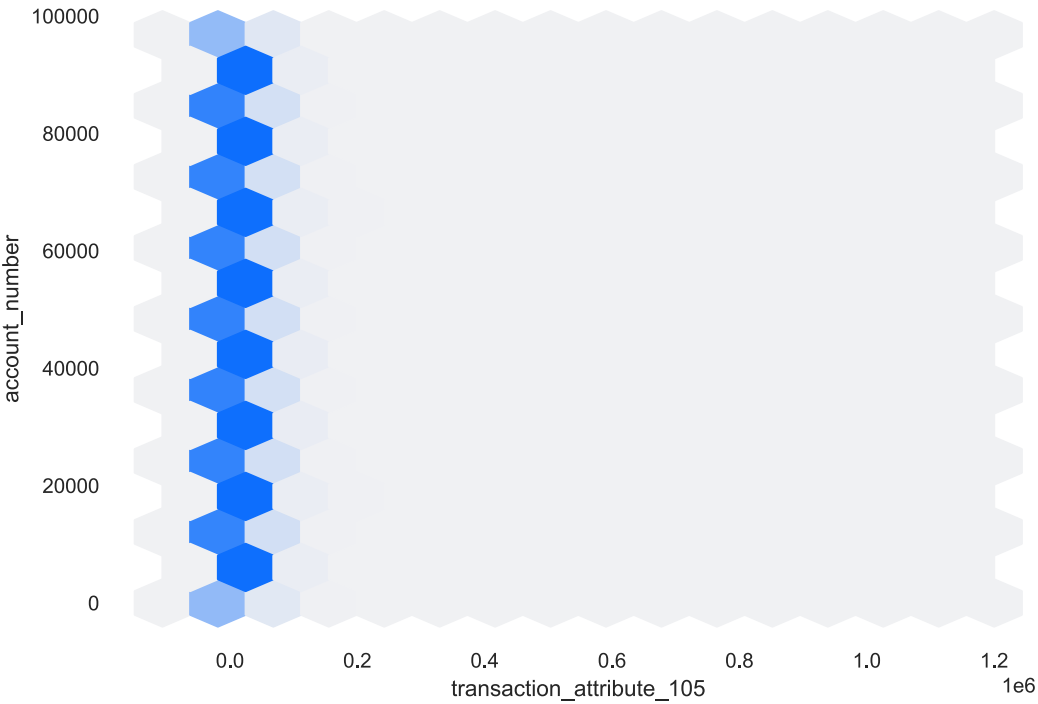
Distinct	2
Distinct (%)	< 0.1%
Missing	0
Missing (%)	0.0%
Memory size	5.4 MiB



More details

Interactions

- transaction_attribute_105
- transaction_attribute_151
- transaction_attribute_229
- transaction_attribute_230
- transaction_attribute_235
- account_number
- transaction_attribute_105
- transaction_attribute_151
- transaction_attribute_229
- transaction_attribute_230
- transaction_attribute_235

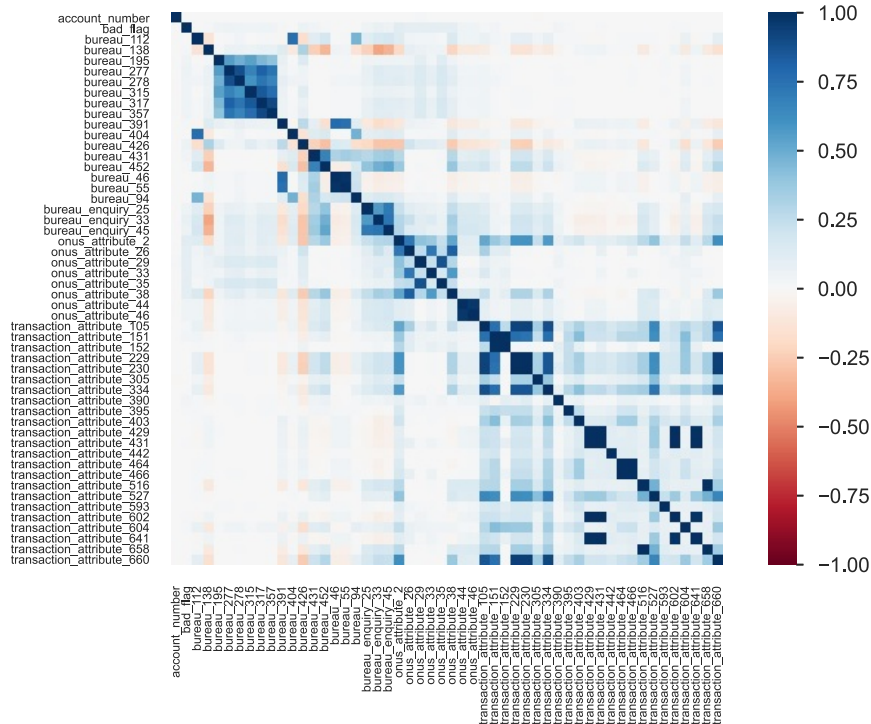


Correlations

Auto

Heatmap

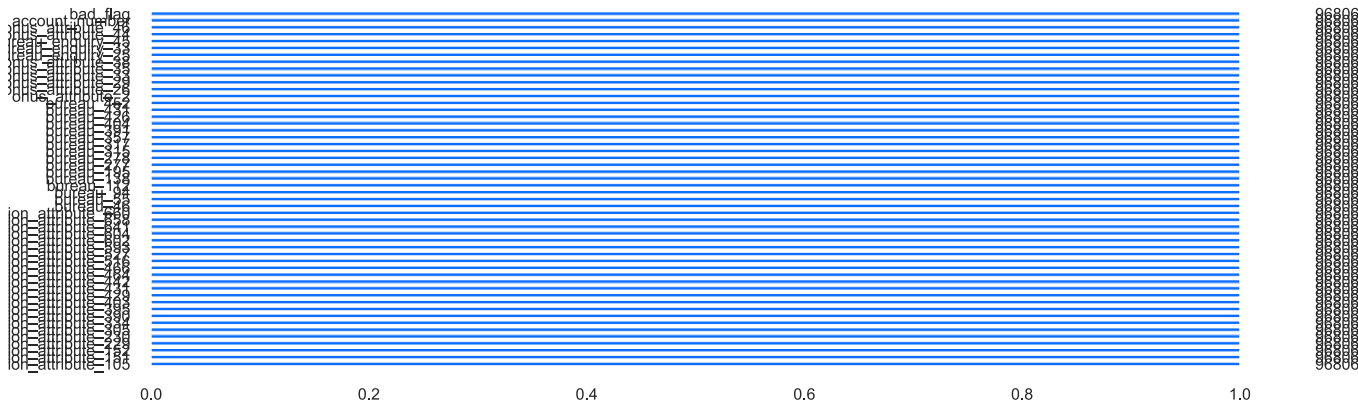
Table



Missing values

Count

Matrix



A simple visualization of nullity by column.

Sample

First rows

Last rows

transaction_attribute_105 transaction_attribute_151 transaction_attribute_152 transaction_attribute_229 transact

0	0.00	0.0	0.0	0.000000	0.000000
1	50000.74	1.0	1.0	0.646492	0.646492
2	3629.00	1.0	1.0	0.318900	0.318900
3	10999.00	1.0	1.0	0.147497	0.147497
4	483.00	1.0	1.0	0.002247	0.002247
5	2899.00	1.0	1.0	0.081270	0.081270
6	2158.00	1.0	1.0	0.023978	0.023978
7	1299.00	1.0	1.0	0.091983	0.091983
8	20236.40	1.0	1.0	0.395379	0.395379
9	0.00	0.0	0.0	0.000000	0.000000

