Overview

Dataset statistics	
Number of variables	21
Number of observations	40841
Missing cells	81682
Missing cells (%)	9.52%
Duplicate rows	0
Duplicate rows (%)	0%
Total size in memory	5.73 MB
Average record size in memory	147 Bytes

/ariable types	
Numeric	10
Categorical	6
Unsupported	2
Boolean	3

Variables

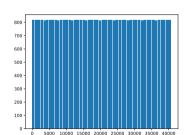
id

Real number ($\mathbb{R}_{\geq 0}$)

Distinct	40841
Distinct (%)	100%
Missing	0
Missing (%)	0%
Infinite	0
Infinite (%)	0%
Mean	20421

10211

Minimum	1
Maximum	40841
Zeros	0
Zeros (%)	0%
Negative	0
Negative (%)	0%
Memory size	319.2 KB



Quantile statistics

Minimum	1
5-th percentile	2043

Standard deviation	11789.925508670527
Coefficient of variation (CV)	0.5773432010513945
Kurtosis	-1 199999999999995

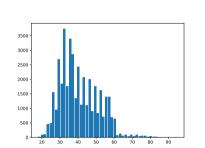
4 ±	10411	IXII (OSIS	1.1/////////
median	20421	Mean	20421
Q3	30631	Median Absolute Deviation (MAD)	10210
95-th percentile	38799	Skewness	0
Maximum	40841	Sum	834014061
Range	40840	Variance	139002343.5
Interquartile range (IQR)	20420	Monotonicity	2

age

Real number ($\mathbb{R}_{\geq 0}$)

Distinct	75
Distinct (%)	0.18%
Missing	0
Missing (%)	0%
Infinite	0
Infinite (%)	0%
Mean	40.79

Minimum	18
Maximum	95
Zeros	0
Zeros (%)	0%
Negative	0
Negative (%)	0%
Memory size	319.2 KB



Quantile statistics

Minimum	18
5-th percentile	27
Q1	33
median	39
Q3	48
95-th percentile	59
Maximum	95
Range	77
Interquartile range (IQR)	15

Descriptive statistics

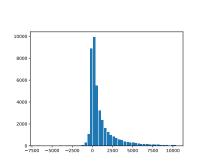
Standard deviation	10.475473300879521
Coefficient of variation (CV)	0.25681048511056903
Kurtosis	0.2680218097648752
Mean	40.79067603633604
Median Absolute Deviation (MAD)	7
Skewness	0.6805353094703153
Sum	1665932
Variance	109.73554087743969
Monotonicity	0

balance

Real number ($\mathbb{R}_{\geq 0}$)

Distinct	6350
Distinct (%)	15.55%
Missing	0
Missing (%)	0%
Infinite	0

Minimum	-6847
Maximum	10443
Zeros	3272
Zeros (%)	8.01%
Negative	3504



Infinite (%)	0%	Negative (%)	8.58%
Mean	1073.98	Memory size	319.2 KB

Quantile statistics

Minimum	-6847
5-th percentile	-184
Q1	64
median	421
Q3	1333
95-th percentile	4859
Maximum	10443
Range	17290
Interquartile range (IQR)	1269

Descriptive statistics

Standard deviation	1712.55618611034
Coefficient of variation (CV)	1.5945858432192646
Kurtosis	6.723075989489469
Mean	1073.9818074973678
Median Absolute Deviation (MAD)	421
Skewness	2.43486145840302
Sum	43862491
Variance	2932848.690584793

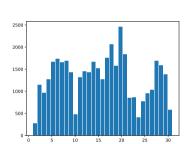
day

Real number ($\mathbb{R}_{\geq 0}$)

Distinct	31
Distinct (%)	0.08%
Missing	0
Missing (%)	0%
Infinite	0
Infinite (%)	0%
Mean	15.86

1

Minimum	1
Maximum	31
Zeros	0
Zeros (%)	0%
Negative	0
Negative (%)	0%
Memory size	319.2 KB



Quantile statistics

Minimum

5-th percentile	3
Q1	8
median	16
Q3	21
95.th percentile	20

Q3	21
95-th percentile	29
Maximum	31
Range	30
Interquartile range (IQR)	13

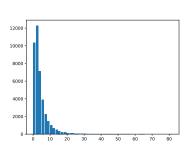
Standard deviation	8.31360839758667
Coefficient of variation (CV)	0.5240660122827359
Kurtosis	-1.065290335236577
Mean	15.863666413652947
Median Absolute Deviation (MAD)	7
Skewness	0.0862537220844971
Sum	647888
Variance	69.1160845884236
Monotonicity	0

duration

Real number ($\mathbb{R}_{\geq 0}$)

Distinct	1539
Distinct (%)	3.77%
Missing	0
Missing (%)	0%
Infinite	0
Infinite (%)	0%
Mean	4.31

Minimum	0.1
Maximum	81.97
Zeros	0
Zeros (%)	0%
Negative	0
Negative (%)	0%
Memory size	319.2 KB



Quantile statistics

Minimum	0.1
5-th percentile	0.62
Q1	1.73
median	3
Q3	5.3
95-th percentile	12.55
Maximum	81.97
Range	81.87
Interquartile range (IQR)	3.57

Descriptive statistics

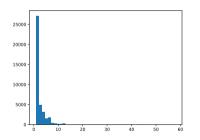
Standard deviation	4.305823262976869
Coefficient of variation (CV)	0.9992745152239512
Kurtosis	18.985625675953578
Mean	4.3089493401238945
Median Absolute Deviation (MAD)	1.53000000000000002
Skewness	3.2077479933115587
Sum	175981.8
Variance	18.540113971992767
Monotonicity	0

campaign

Real number ($\mathbb{R}_{\geq 0}$)

Distinct	47
Distinct (%)	0.12%
Missing	0
Missing (%)	0%
Infinite	0
Infinite (%)	0%
Mean	2.77

Minimum	1
Maximum	58
Zeros	0
Zeros (%)	0%
Negative	0
Negative (%)	0%
Memory size	319.2 KB



Quantile statistics

Minimum	1
5-th percentile	1
Q1	1
median	2
O3	3

Standard deviation	3.104176935515931
Coefficient of variation (CV)	1.1189656592150516
Kurtosis	36.516398246626345
Mean	2.7741485272152984
Median Absolute Deviation (MAD)	1

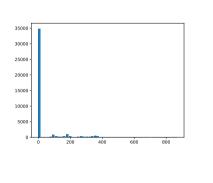
95-th percentile	8	Skewness	4.780104146339046
Maximum	58	Sum	113299
Range	57	Variance	9.635914446989077
nterquartile range (IQR)	2	Monotonicity	0

pdays

Real number ($\mathbb{R}_{\geq 0}$)

Distinct	510
Distinct (%)	1.25%
Missing	0
Missing (%)	0%
Infinite	0
Infinite (%)	0%
Mean	32.25

Minimum	-1
Maximum	871
Zeros	0
Zeros (%)	0%
Negative	34797
Negative (%)	85.2%
Memory size	319.2 KB



Ouantile statistics

7	~	<u> </u>	•		_	•	LU	•	_	•	<u> </u>	

Minimum	-1
5-th percentile	-1
Q1	-1
median	-1
Q3	-1
95-th percentile	274
Maximum	871
Range	872
Interquartile range (IQR)	0

Descriptive statistics

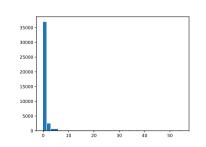
Standard deviation	90.73840181955426
Coefficient of variation (CV)	2.813741792253171
Kurtosis	9.200094213035051
Mean	32.248304399990204
Median Absolute Deviation (MAD)	0
Skewness	2.983789619091763
Sum	1317053
Variance	8233.457564766888
Monotonicity	0

previous

Real number ($\mathbb{R}_{\geq 0}$)

Distinct	36
Distinct (%)	0.09%
Missing	0
Missing (%)	0%
Infinite	0
Infinite (%)	0%
Mean	0.44

Minimum	0
Maximum	55
Zeros	34797
Zeros (%)	85.2%
Negative	0
Negative (%)	0%
Memory size	319.2 KB



Ouantile statistics

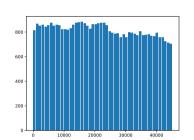
~ · · · · · · · · · · · · · · · · · · ·			
Minimum	0	Standard deviation	1.5723420365005967
5-th percentile	0	Coefficient of variation (CV)	3.5997545329178133
Q1	0	Kurtosis	143.36043702381528
median	0	Mean	0.43679145956269433
Q3	0	Median Absolute Deviation (MAD)	0
95-th percentile	3	Skewness	8.604262360694513
Maximum	55	Sum	17839
Range	55	Variance	2.472259479746844
Interquartile range (IQR)	0	Monotonicity	0

Column1

Real number ($\mathbb{R}_{\geq 0}$)

Distinct	40841
Distinct (%)	100%
Missing	0
Missing (%)	0%
Infinite	0
Infinite (%)	0%
Mean	22006.48

Minimum	0
Maximum	45209
Zeros	1
Zeros (%)	0%
Negative	0
Negative (%)	0%
Memory size	319.2 KB



Quantile statistics

0 Minimum 5-th percentile 2187 10888 Q1 21652 median 33102 Q3 95-th percentile 42623 Maximum 45209 45209 Range Interquartile range (IQR) 22214

Standard deviation	12919.797650721895
Coefficient of variation (CV)	0.5870906672091548
Kurtosis	-1.17637689781315
Mean	22006.47765725619
Median Absolute Deviation (MAD)	11099
Skewness	0.05778465038732051
Sum	898766554
Variance	166921171.335599
Monotonicity	2

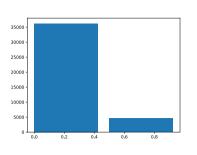
response_	binar	У
		-

Distinct	2

Minimum	0	

Distinct (%)	0%
Missing	0
Missing (%)	0%
Infinite	0
Infinite (%)	0%
Mean	0.11

Maximum	1
Zeros	36202
Zeros (%)	88.64%
Negative	0
Negative (%)	0%
Memory size	319.2 KB



Quantile statistics

Minimum	0
5-th percentile	0
Q1	0
median	0
Q3	0
95-th percentile	1
Maximum	1
Range	1
Interquartile range (IQR)	0

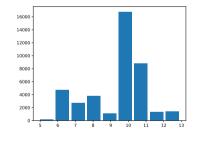
Descriptive statistics

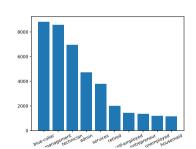
Standard deviation	0.31731267327672796
Coefficient of variation (CV)	2.7935690643015407
Kurtosis	3.9326074699086853
Mean	0.11358683675718029
Median Absolute Deviation (MAD)	0
Skewness	2.4356549203358044
Sum	4639
Variance	0.1006873326220235
Monotonicity	0

job

Categorical

Distinct	12
Distinct (%)	0.03%
Missing	0
Missing (%)	0%
Memory size	319.2 KB





Length

13
10
9.49
5

Unicode

Total characters	0
Distinct characters	0
Distinct categories	0
Distinct scripts	0
Distinct blocks	0

Unique

Unique	0
Unique (%)	0%

Sample

1st Row	management
2nd Row	technician
3rd Row	entrepreneur
4th Row	management
5th Row	management

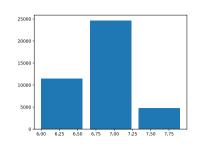
marital

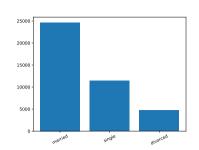
Distinct

3

Categorical

Distinct (%)	0.01%
Missing	0
Missing (%)	0%
Memory size	319.2 KB





Length

8
7
6.84
6

Unicode

Total characters	0
Distinct characters	0
Distinct categories	0
Distinct scripts	0
Distinct blocks	0

Unique

Unique	0
Unique (%)	0%

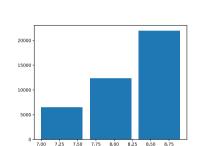
Sample

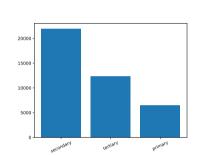
1st Row	married
2nd Row	single
3rd Row	married
4th Row	married
5th Row	single

education

Categorical

Distinct	3
Distinct (%)	0.01%
Missing	0
Missing (%)	0%
Memory size	319.2 KB





Length

Max length	9
Median length	9
Mean length	8.38
Min length	7

Unicode

Total characters	0
Distinct characters	0
Distinct categories	0
Distinct scripts	0
Distinct blocks	0

Unique

Unique	0
Unique (%)	0%

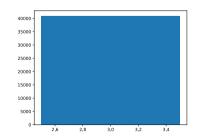
Sample

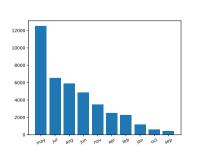
1st Row	tertiary
2nd Row	secondary
3rd Row	secondary
4th Row	tertiary
5th Row	tertiary

month

Categorical

Distinct	12
Distinct (%)	0.03%
Missing	0
Missing (%)	0%
Memory size	319.2 KB





Length

Max length 3

		_	
	-	\sim	
		"	_
_	CO	ч	_
_	 		_

Total characters	0
------------------	---

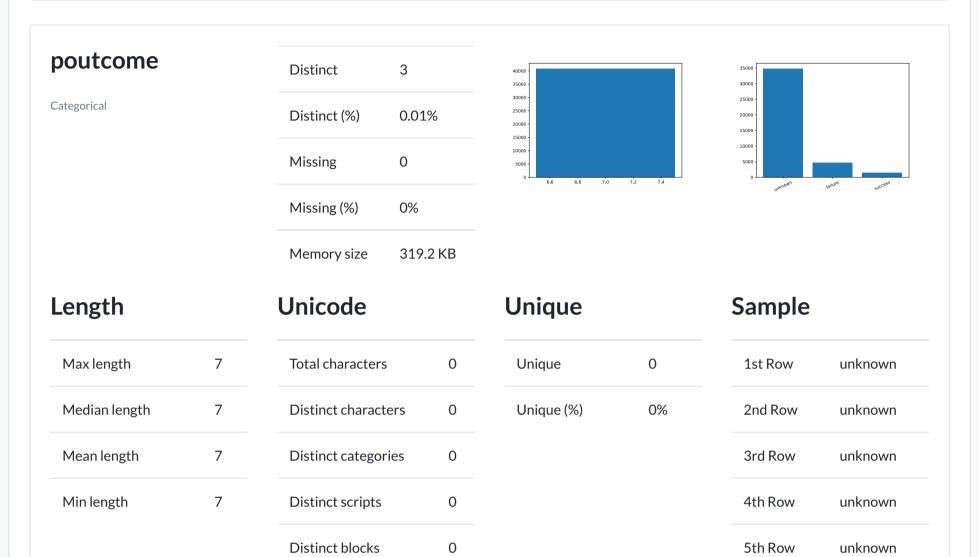
Unique

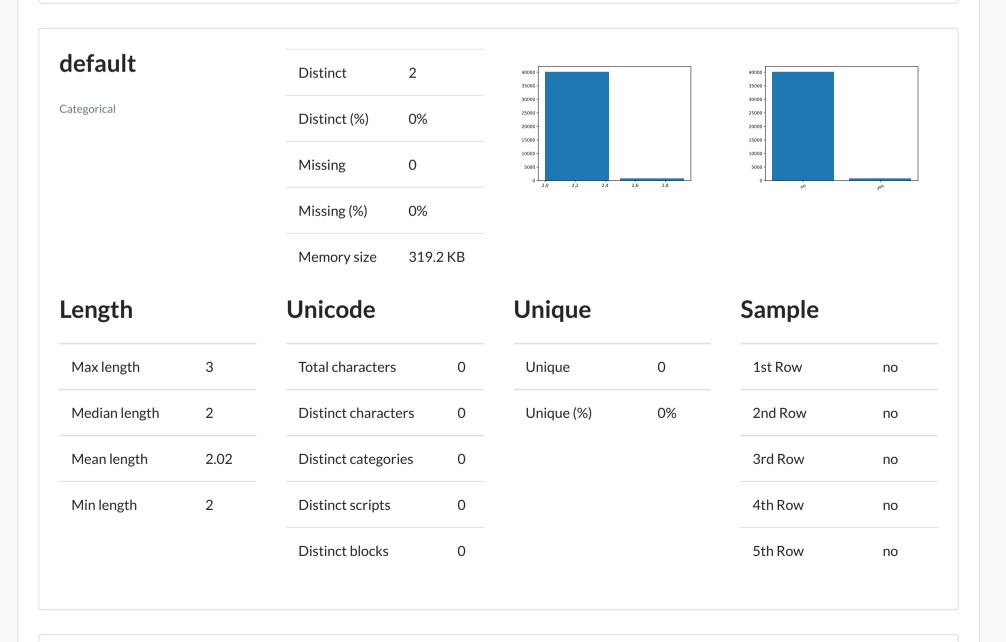
Unique 0

Sample

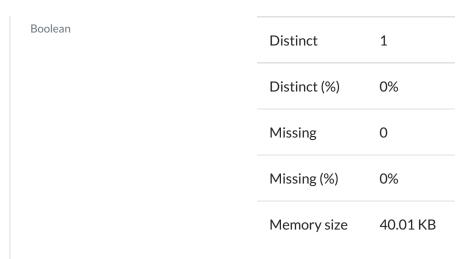
1st Row may

Median length	3	Distinct characters	0	Unique (%)	0%	2nd Row	may
Mean length	3	Distinct categories	0			3rd Row	may
Min length	3	Distinct scripts	0			4th Row	may
		Distinct blocks	0			5th Row	may





housing



Common Values

False 40841

loan	Distinct	1
Boolean	Distinct (%)	0%
	Missing	0
	Missing (%)	0%
	Memory size	40.01 KB

Common Values

False 40841

response	Distinct	1
Boolean	Distinct (%)	0%
	Missing	0
	Missing (%)	0%
	Memory size	40.01 KB

Common Values

False 40841

default_payment	Distinct	0
Unsupported	Distinct (%)	0%
	Missing	40841
	Missing (%)	100%
	Memory size	319.2 KB

Common Values

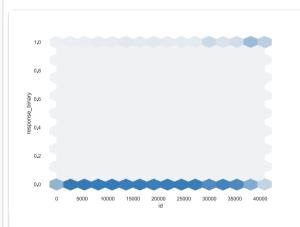
predicted_response

Unsupported

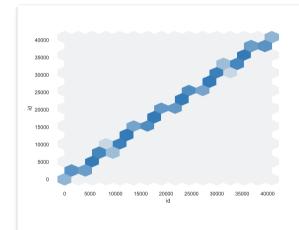
Distinct	0
Distinct (%)	0%
Missing	40841
Missing (%)	100%
Memory size	319.2 KB

Common Values

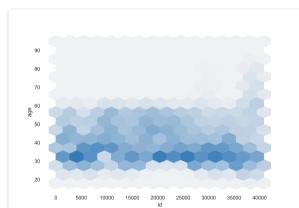
Interactions



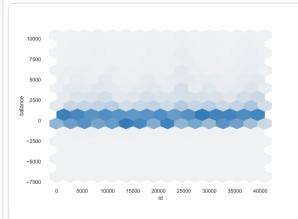
Interaction between column: id and column: response_binary



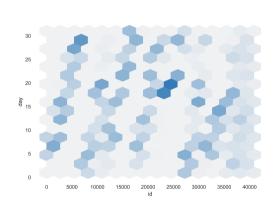
Interaction between column: id and column: id



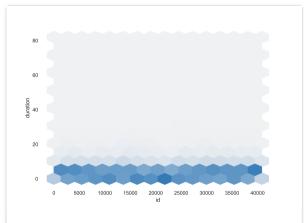
Interaction between column: id and column: age



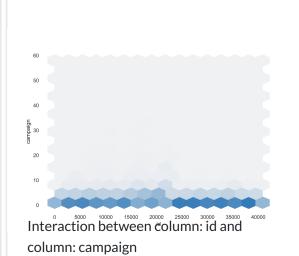
Interaction between column: id and column: balance



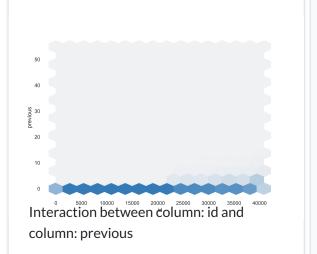
Interaction between column: id and column: day

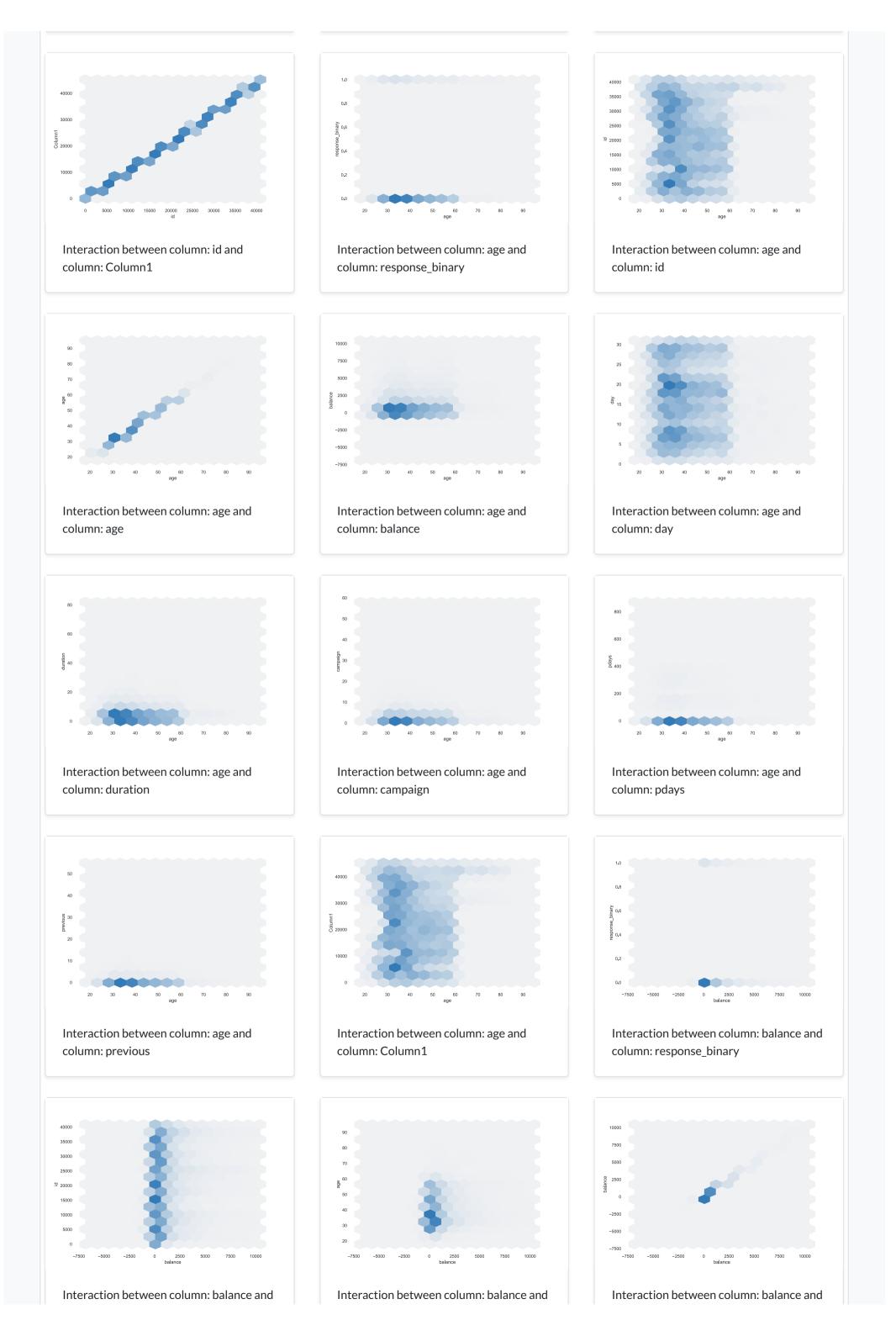


Interaction between column: id and column: duration

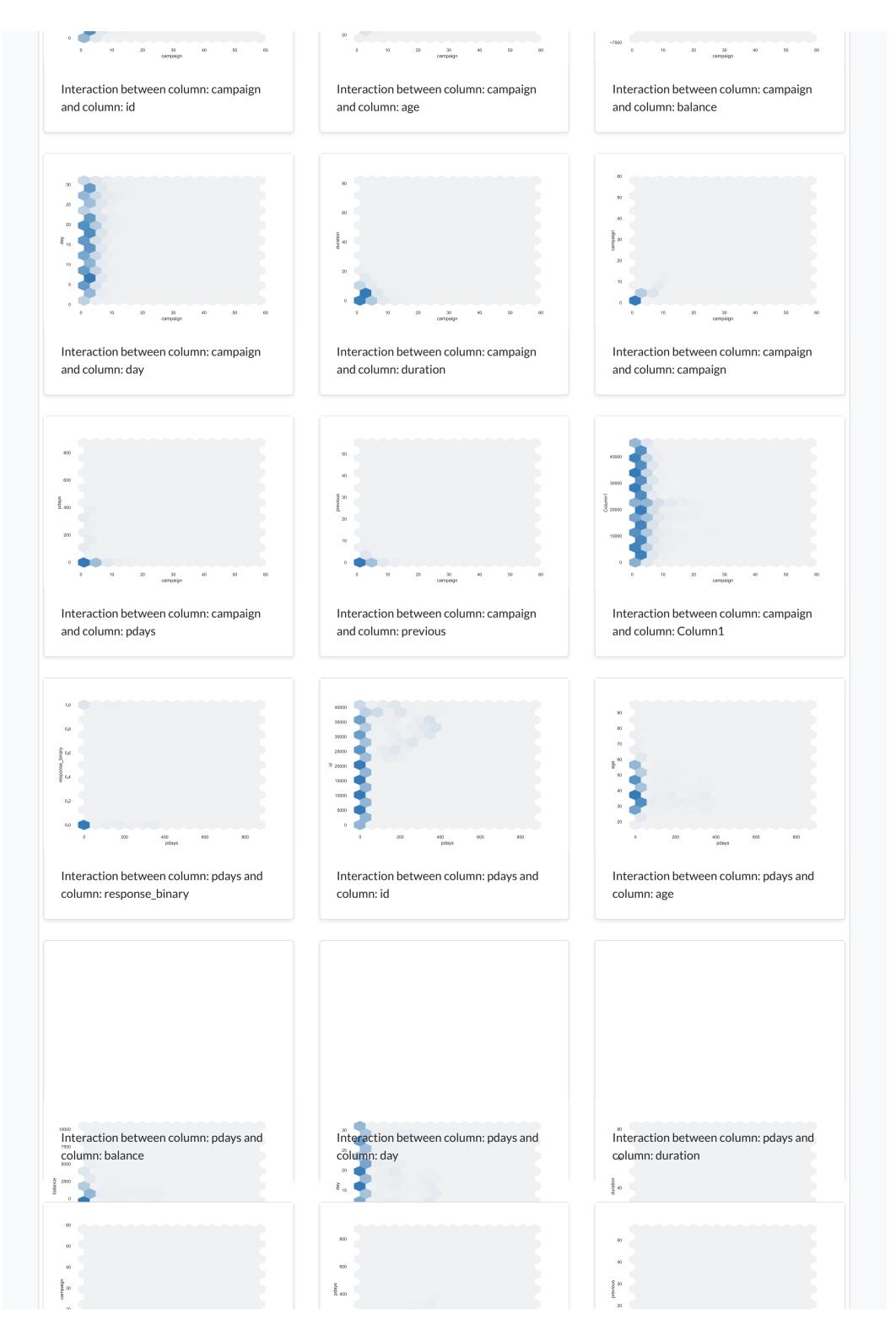


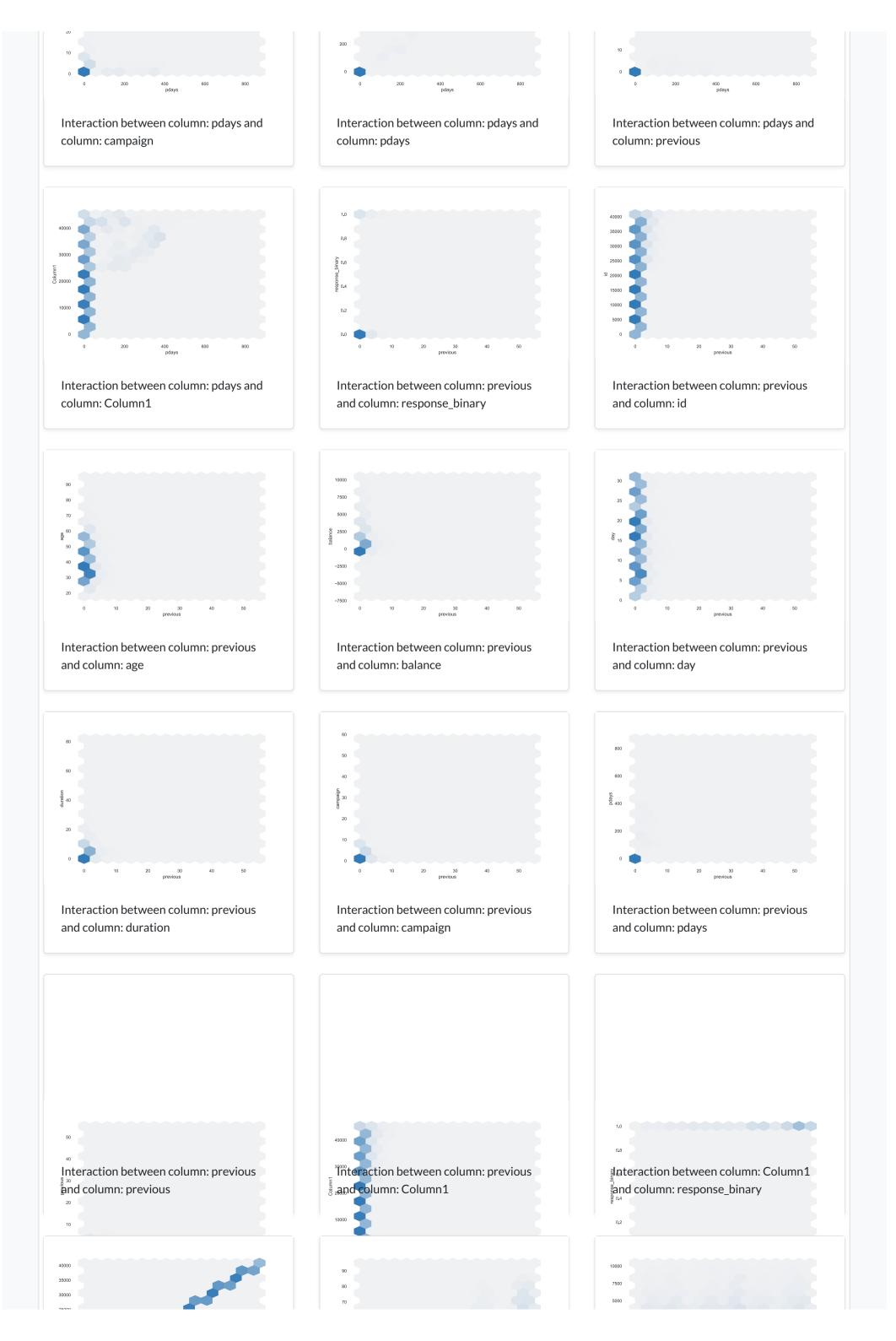
lnteraction between column: id and column: pdays

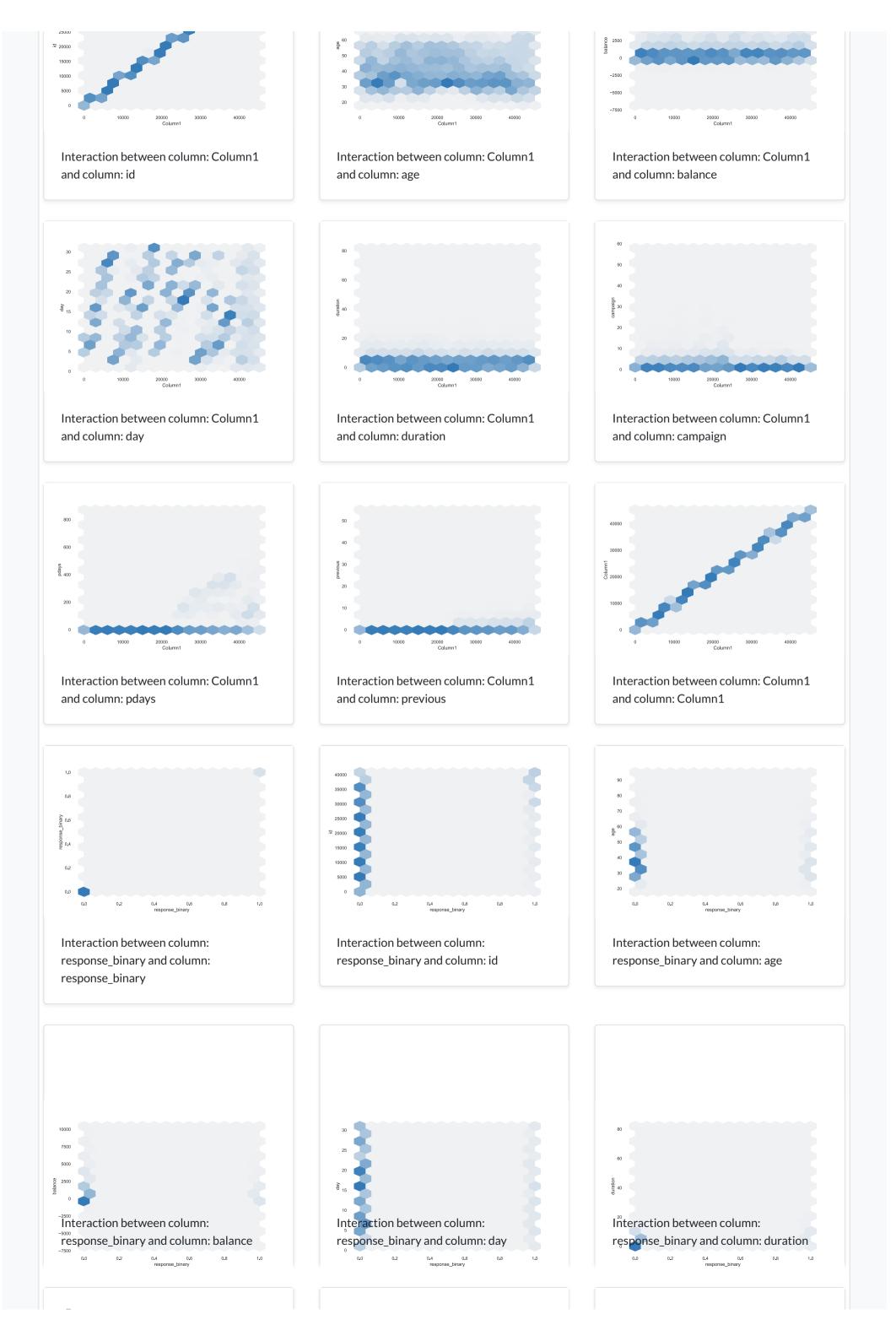


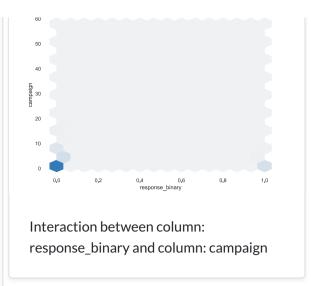


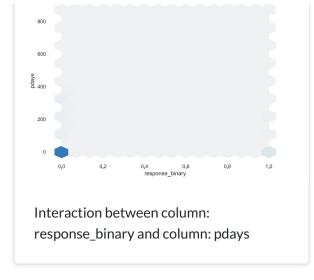
Interaction between column: day and Interaction between column: day and Interaction between column: day and column: campaign column: pdays column: previous Interaction between column: day and Interaction between column: duration Interaction between column: duration column: Column1 and column: response_binary and column: id Interaction between column: duration Interaction between column: duration Interaction between column: duration and column: age and column: balance and column: day Interaction between column: duration Interaction between column: duration Interaction between column: duration and column: duration and column: campaign and column: pdays Interaction between column: campaign Interaction between column: duration Interaction between column: duration and column: response_binary and column: previous and column: Column1

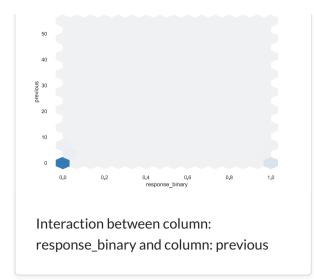


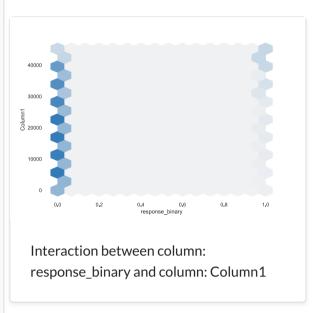












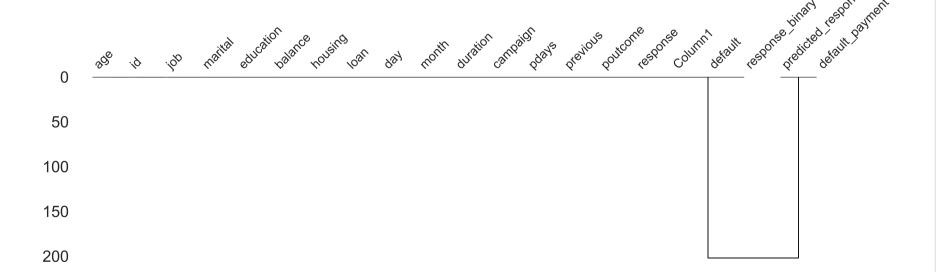
Correlations



Count

<u>Matrix</u>

<u>Dendrogram</u>



The dendrogram allows you to more fully correlate variable completion, revealing trends deeper than the pairwise ones visible in the correlation heatmap.

Sample

First	rows
--------------	------

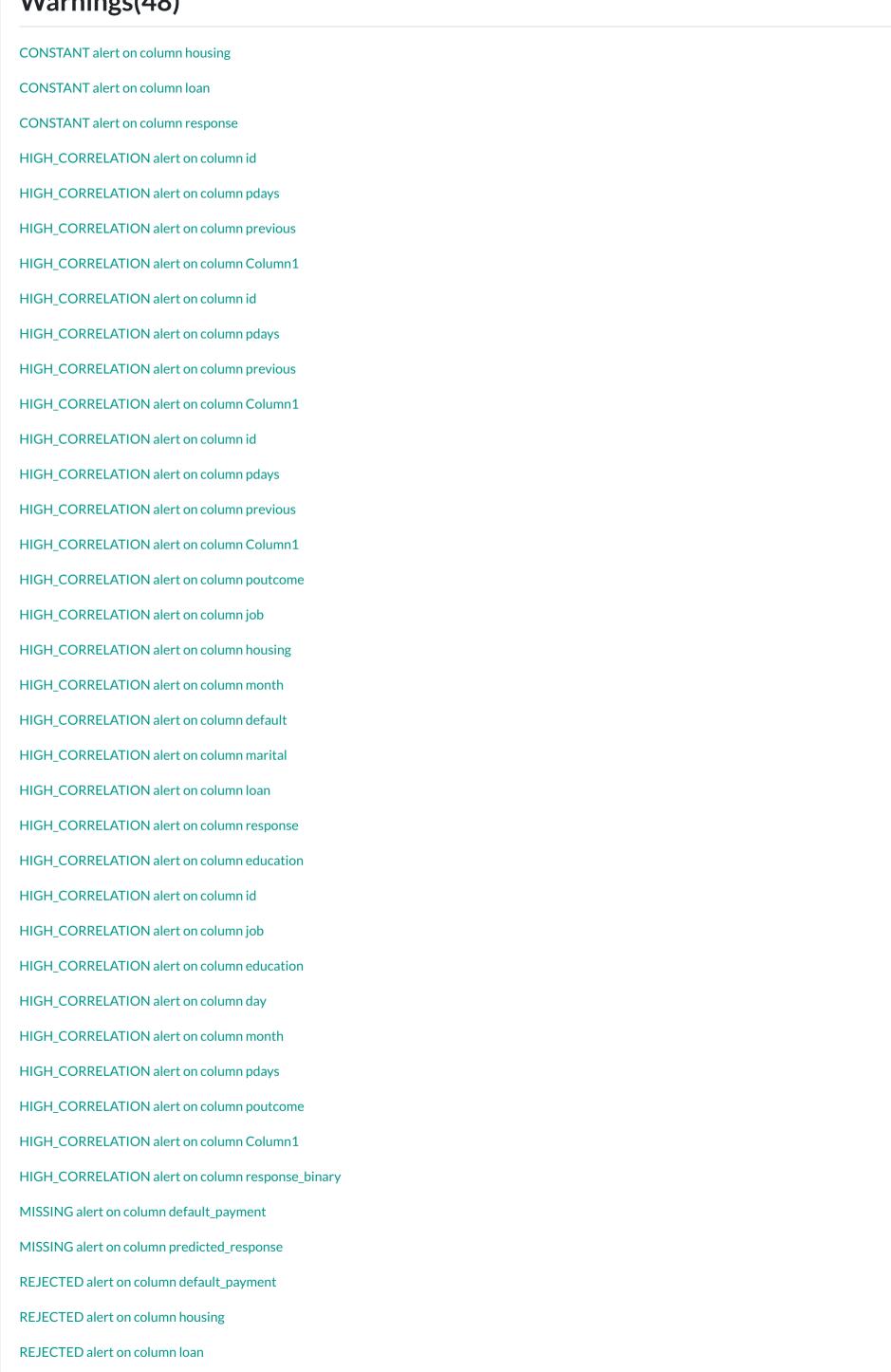
id	age	job	marital	education	default_payment	balance	housing	loan	day	month	duration	camp
1	58	management	married	tertiary	None	2143	false	false	5	may	4.35	1
2	44	technician	single	secondary	None	29	false	false	5	may	2.52	1
3	33	entrepreneur	married	secondary	None	2	false	false	5	may	1.27	1
4	35	management	married	tertiary	None	231	false	false	5	may	2.32	1
5	28	management	single	tertiary	None	447	false	false	5	may	3.62	1
6	42	entrepreneur	divorced	tertiary	None	2	false	false	5	may	6.33	1
7	58	retired	married	primary	None	121	false	false	5	may	0.83	1
8	43	technician	single	secondary	None	593	false	false	5	may	0.92	1
9	41	admin.	divorced	secondary	None	270	false	false	5	may	3.7	1
10	29	admin.	single	secondary	None	390	false	false	5	may	2.28	1

Last rows

id	age	job	marital	education	default_payment	balance	housing	loan	day	month	duration	can
40832	38	technician	married	secondary	None	557	false	false	16	nov	25.93	4
40833	53	management	married	tertiary	None	583	false	false	17	nov	3.77	1
40834	34	admin.	single	secondary	None	557	false	false	17	nov	3.73	1
40835	23	student	single	tertiary	None	113	false	false	17	nov	4.43	1
40836	73	retired	married	secondary	None	2850	false	false	17	nov	5	1
40837	25	technician	single	secondary	None	505	false	false	17	nov	6.43	2
40838	51	technician	married	tertiary	None	825	false	false	17	nov	16.28	3
40839	71	retired	divorced	primary	None	1729	false	false	17	nov	7.6	2
40840	72	retired	married	secondary	None	5715	false	false	17	nov	18.78	5
40841	57	blue-collar	married	secondary	None	668	false	false	17	nov	8.47	4

Warnings(48)

REJECTED alert on column response



UNIQUE alert on column id

UNIQUE alert on column Column1

UNSUPPORTED alert on column predicted_response

ZEROS alert on column balance

ZEROS alert on column previous

ZEROS alert on column response_binary

Postgres profiler extends Pandas Profiling: see more here: <u>Pandas profiler</u>

KEJECTED alert on column predicted_response

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