

Overview

Dataset info

Number of variables	16
Number of observations	39682
Missing cells	0 (0.0%)
Duplicate rows	0 (0.0%)
Total size in memory	4.8 MiB
Average record size in memory	128.0 B

Variables types

Numeric	4
Categorical	12
Boolean	0
Date	0
URL	0
Text (Unique)	0
Rejected	0
Unsupported	0

Warnings

Amendment_Value is highly skewed ($\gamma_1 = 138.8167981$)

Skewed

Amendment_Value has 620 (1.6%) zeros

Zeros

Commodity has a high cardinality: 728 distinct values

Warning

Country_of_Origin has a high cardinality: 102 distinct values

Warning

Entity has a high cardinality: 59 distinct values

Warning

Limited_Tendering_Reason has 35463 (89.4%) zeros

Zeros

Original_Value is highly skewed ($\gamma_1 = 62.71350697$)

Skewed

Variables

Amendment_...	Distinct count	9939	Mean	299412.9427
Numeric	Unique (%)	25.0%	Minimum	-16522116
			Maximum	1157080504

Missing (%)	0.0%	Zeros (%)	1.6%
Missing (n)	0		
Infinite (%)	0.0%		
Infinite (n)	0		

[Toggle details](#)

Statistics	Histogram	Common values	Extreme values
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Quantile statistics

Minimum	-16522116
5-th percentile	-72723.83
Q1	4585.31
Median	44352.5
Q3	159194.4
95-th percentile	661164.862
Maximum	1157080504
Range	1173602620
Interquartile range	154609.09

Descriptive statistics

Standard deviation	6660191.423
Coef of variation	22.24416674
Kurtosis	23216.12472
Mean	299412.9427
MAD	447223.0458
Skewness	138.8167981
Sum	1.188130439e+10
Variance	4.435814979e+13
Memory size	310.1 KiB

Commodity

Categorical

Distinct count	728
Unique (%)	1.8%
Missing (%)	0.0%
Missing (n)	0

[Toggle details](#)

Common values	Composition
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Value	Count	Frequency (%)
Informatics Professional Services	17291	43.6%
ADP Software	1066	2.7%
PRINTING, DUPLICATING AND BO...	871	2.2%
Automatic Data Processing Equipme...	749	1.9%
Budget Control Systems	737	1.9%
Consulting Services	728	1.8%
Language Training Services	660	1.7%

Value		Count	Frequency (%)
Human Resource Services, Business...		611	1.5%
Commercial Security Guard and Rel...		608	1.5%
ADP Software Maintenance - Other t...		606	1.5%
Other values (718)		15755	39.7%

Commodity_R... Categorical	Distinct count	3	Yes	28350
	Unique (%)	< 0.1%	Unknown	8714
			No	2618
	Missing (%)	0.0%		
	Missing (n)	0		
Toggle details				

Commodity_T... Categorical	Distinct count	3	Services	33513
	Unique (%)	< 0.1%	Goods	4965
			Construction	1204
	Missing (%)	0.0%		
	Missing (n)	0		
Toggle details				

Country_of_O... Categorical	Distinct count	102	CA	38352
	Unique (%)	0.3%	US	544
			GB	123
	Missing (%)	0.0%	Other values (99)	663
	Missing (n)	0		
Toggle details				

Entities_Rule Categorical	Distinct count	3	Yes	28001
	Unique (%)	< 0.1%	Unknown	11573
			No	108
	Missing (%)	0.0%		

Missing (n) 0[Toggle details](#)**Entity**

Categorical

**Distinct
count**

59

Unique (%)

0.1%

Missing (%)

0.0%

Missing (n)

0

[Toggle details](#)

Common values

Composition

Value	Count	Frequency (%)
CRA	11893	30.0%
CBSA	5756	14.5%
DND	4400	11.1%
CSC	4400	11.1%
ESDC	2474	6.2%
GAC	2358	5.9%
DFO	1802	4.5%
CNSC	795	2.0%
ATSSC	697	1.8%
OSFI	695	1.8%
Other values (49)	4412	11.1%

Estimated_Tra...

Categorical

**Distinct
count**

3

Unique (%)<
0.1%**Missing (%)**

0.0%

Missing (n)

0

Yes

36153

No

2692

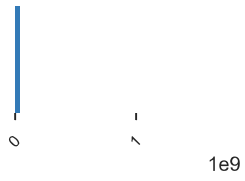
Unknown

837

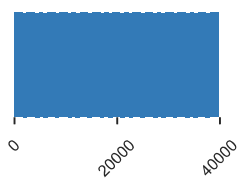
[Toggle details](#)

Exemption	Distinct count	3	0	39669	Toggle details
	Unique (%)	< 0.1%	6 9	3 4	
	Missing (%)	0.0%			
	Missing (n)	0			
Exemptions_R...	Distinct count	2	Yes	32333	Toggle details
	Unique (%)	< 0.1%	Unknown	7349	
	Missing (%)	0.0%			
	Missing (n)	0			
Limited_Tende...	Distinct count	14	Mean	7.974497253	Toggle details
	Unique (%)	< 0.1%	Minimum	0	
	Missing (%)	0.0%	Maximum	90	
	Missing (n)	0	Zeros (%)	89.4%	
	Infinite (%)	0.0%			
	Infinite (n)	0			
Statistics Histogram Common values Extreme values					
Quantile statistics			Descriptive statistics		
Minimum	0	Standard deviation	23.52769079		
5-th percentile	0	Coef of variation	2.950366655		
Q1	0	Kurtosis	5.166433803		
Median	0	Mean	7.974497253		
Q3	0	MAD	14.26618632		
95-th percentile	71	Skewness	2.654529157		
Maximum	90	Sum	316444		
Range	90	Variance	553.5522338		
Interquartile range	0	Memory size	310.1 KiB		

Limited_Tende... Categorical	Distinct count	2	Yes 35463		
			Unknown 4219		
	Unique (%)	< 0.1%			
	Missing (%)	0.0%			
	Missing (n)	0			
Toggle details					

Original_Value Numeric	Distinct count	7493	Mean	921298.839	
	Unique (%)	18.9%	Minimum	0	
	Missing (%)	0.0%	Maximum	1772776794	
	Missing (n)	0	Zeros (%)	0.4%	
	Infinite (%)	0.0%			
	Infinite (n)	0			
	Toggle details				

Trade_Agree... Categorical	Distinct count	12	0 7336		
			CFTA 4385		
	Unique (%)	< 0.1%	NAFTA 3623		
	Missing (%)	0.0%	Other values (9) 24338		
	Missing (n)	0			
Toggle details					

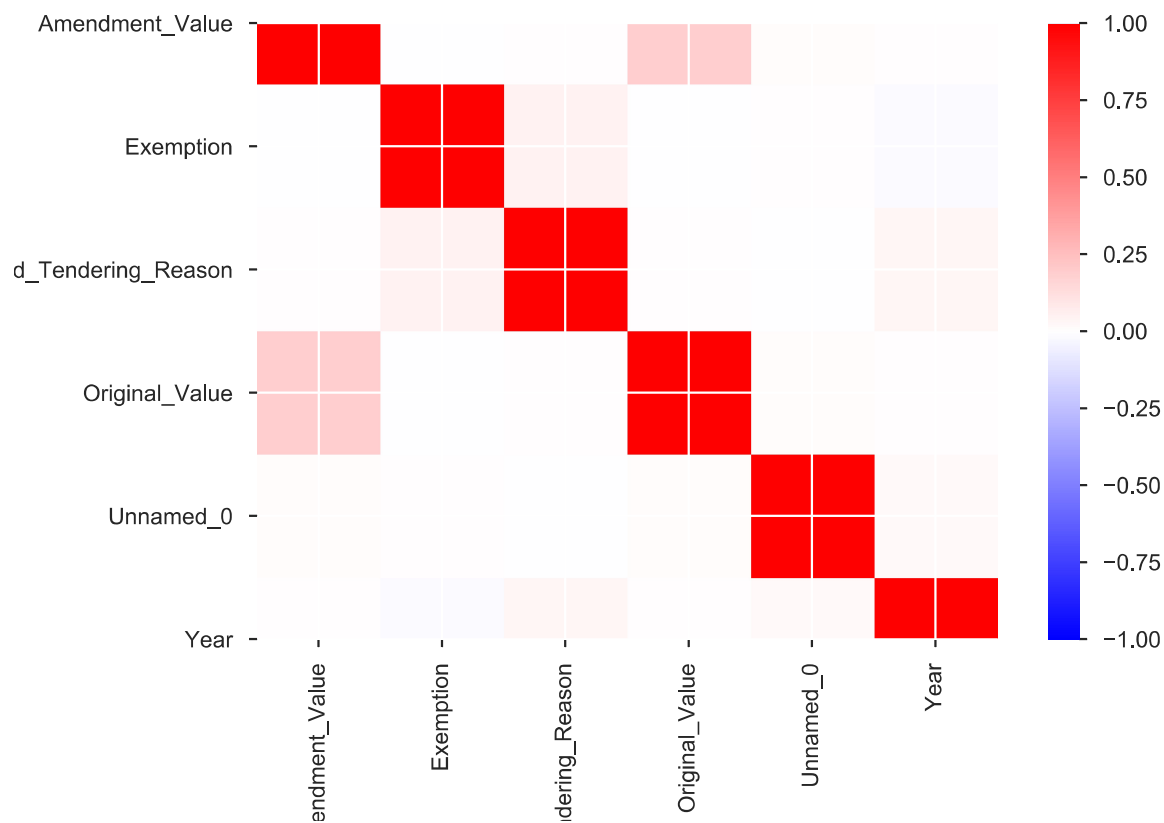
Unnamed_0 Numeric	Distinct count	39682	Mean	19840.5	
	Unique (%)	100.0%	Minimum	0	
	Missing (%)	0.0%	Maximum	39681	
	Missing (n)	0	Zeros (%)	< 0.1%	
	Infinite (%)	0.0%			
	Infinite (n)	0			
	Toggle details				

Year Categorical	Distinct count	3	2018	19663
	Unique (%)	< 0.1%	2017	15663
	Missing (%)	0.0%	2019	4356
	Missing (n)	0		

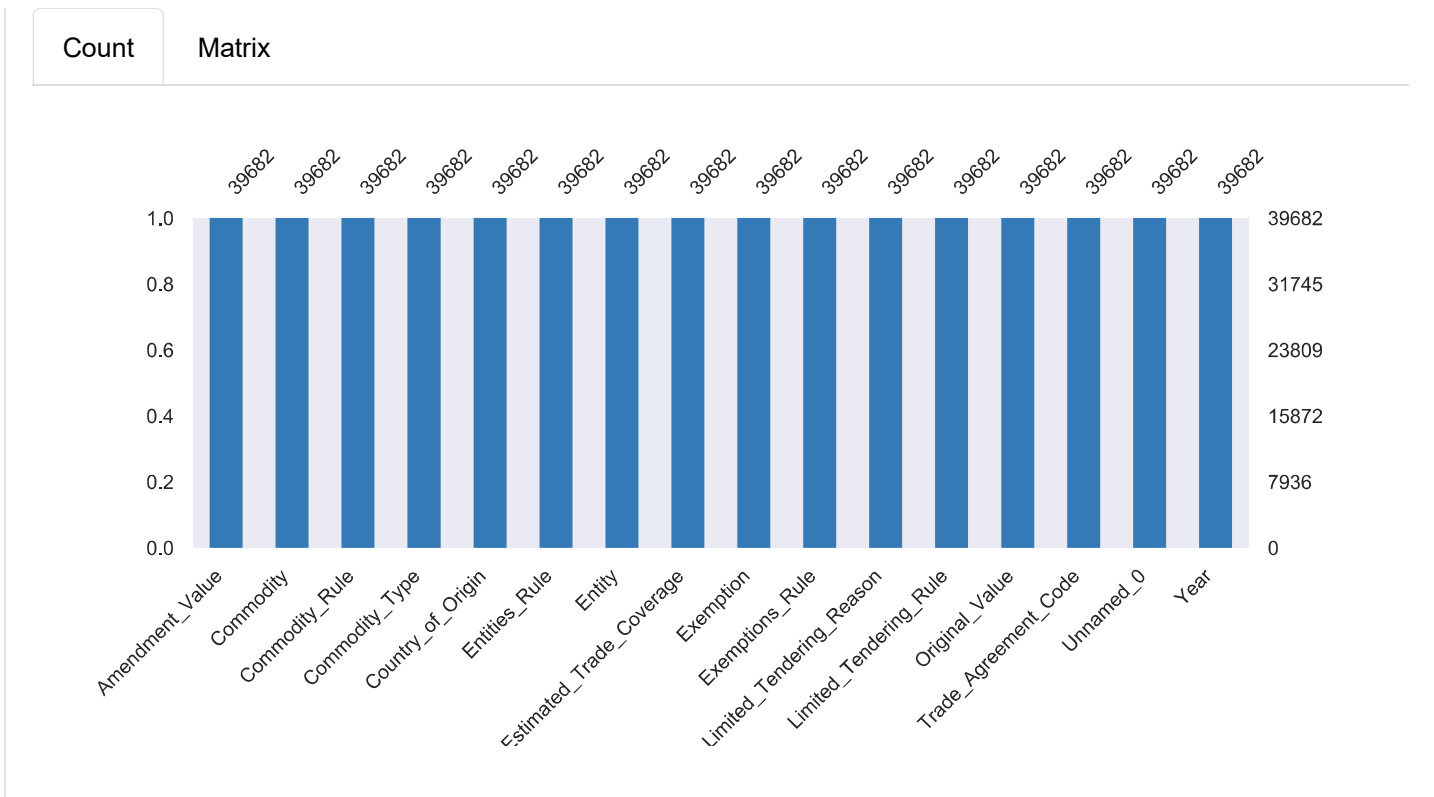
[Toggle details](#)

Correlations

Pearson's r Spearman's ρ Kendall's τ Phik (ϕ_k) Cramér's V (ϕ_c) Recoded



Missing values



Sample

First rows

	Amendment_Value	Commodity	Commodity_Ri
0	28583.00	Social Rehabilitation Services for Prisoners	Yes
1	38850.74	Laboratory Equipment and Supplies - Repair	Unknown
2	-1645.69	Gas Services	Yes
3	20296.52	Commercial Security Guard and Related Services	Yes
4	-12064.50	Information Retrieval Services, Database	Unknown
5	14617.68	MISCELLANEOUS COMMUNICATIONS EQUIPMENT - RENTAL	No
6	14617.68	MISCELLANEOUS COMMUNICATIONS EQUIPMENT - RENTAL	Unknown
7	5932.50	Business Services	Unknown

	Amendment_Value	Commodity	Commodity_Ri
8	-12475.20	Informatics Professional Services	Yes
9	-12475.20	Informatics Professional Services	Yes

Last rows

	Amendment_Value	Commodity	Comm
39672	663734.00	Buoys - Repair	No
39673	663734.00	Buoys - Repair	No
39674	663734.00	Buoys - Repair	Unknow
39675	663734.00	Buoys - Repair	No
39676	663734.00	Buoys - Repair	No
39677	663734.00	Buoys - Repair	No
39678	663734.00	Buoys - Repair	No
39679	663734.00	Buoys - Repair	No
39680	663734.00	Buoys - Repair	No
39681	270868.56	Building/Installation Special Trade Services, Not Elsewhere Specified	Unknow

Report generated with pandas-profiling (<https://github.com/pandas-profiling/pandas-profiling>).