1. Waste collection in the Port of Genoa (2008-2018).

The classification of waste at European level is based on the European List of Waste (Commission Decision 2000/532/EC – consolidated version) and Annex III to Directive 2008/98/EC (consolidated version). The List of Waste (LoW) provides an EU-wide common terminology for waste classification to ease waste management, including for hazardous waste. The assignment of LoW codes serves in a broad variety of activities, including the transport of waste, installation permits (which often refer also to specific waste codes), or as a basis for waste statistics. According to Decision 2000/532/EC, the LoW should be revised regularly on the basis of new knowledge and, in particular, of research results. The last amendment is Commission Decision 2014/955/EU, which followed a specific study on the review of the European LoW. (see https://ec.europa.eu/environment/waste/framework/list.htm for details).

Numbers related to the waste collection in the Port of Genoa 2008-2018 in tonnes according to EU Directive 2008/98/EC "at a glance", follows. Please note that EWC (European Waste Code) is translated with CER (Codice Europeo Rifiuto) in Italian language.

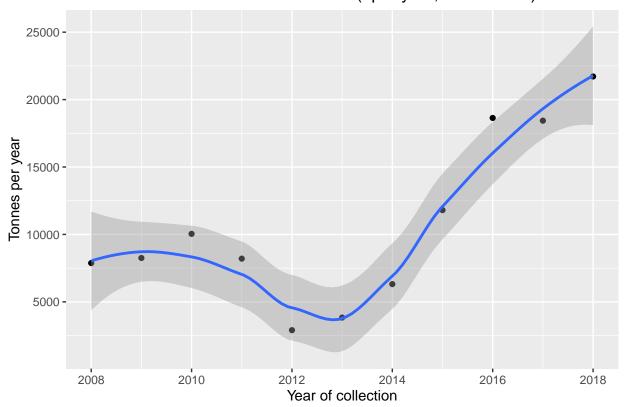
The dataset organized by CER codes is publicly provided by the Ports of Genoa (https://www.portsofgenoa.com/it/comunicazione-marketing/news/2560-nuovo-piano-gestione-rifiuti.html)/

Total in tonnes per year (data)

2008	2009	2010	2011	2012	2013	2014	2015
7877.45	8254.98	10045.51	8205.40	2902.87	3836.52	6317.80	11803.54
2016	2017	2018					
18638.33	18436.98	21712.13					

Total in tonnes per year (chart)

Waste collection in the Port of Genoa (t per year, 2008–2018)



2. Focus on dangerous waste collection.

The following tables summarize the detail of collection of dangerous waste in the Port of Genoa 2008-2018 in tonnes according to EU Directive 2008/98/CE.

	CER_050103	CER_060106	CER_070104	CER_070208	CER_070601	CER_070704	CER_080111	CER_080117	CER_080121	CER_080409	CER_090101	CER_090105	CER_120114	CER_120116	CER_120301
2008	95.37	0.18	0.0	0.00	0.00	0.00	11.17	0.00	0.00	0.00	4.46	0.00	481.90	0.00	0.00
2009	41.15	6.10	0.0	0.00	0.38	0.38	22.85	0.00	0.00	0.00	25.84	0.00	476.17	0.00	0.00
2010	68.61	0.00	0.0	0.00	0.00	0.00	21.60	0.00	0.00	0.00	55.76	0.00	884.92	0.00	0.00
2011	38.01	0.00	0.0	0.00	0.00	0.00	23.05	0.00	0.00	0.00	61.42	0.00	553.43	0.00	0.00
2012	21.91	0.00	0.0	0.00	0.00	1.97	5.37	13.68	0.00	0.10	68.65	0.62	205.55	0.00	0.00
2013	14.20	0.00	0.0	0.00	0.00	0.00	3.21	0.00	0.00	0.00	72.86	0.00	50.03	0.00	0.00
2014	46.83	1.03	0.0	0.00	0.00	0.00	4.93	0.00	0.00	0.00	57.88	0.00	151.79	0.00	0.00
2015	41.40	0.00	0.0	11.80	0.00	0.00	26.39	0.00	0.30	1.94	139.98	0.00	620.77	2.24	0.00
2016	19.66	0.00	0.4	11.44	0.00	0.00	33.38	0.00	4.05	0.00	86.20	0.00	369.00	0.00	17.52
2017	23.34	0.00	0.0	0.00	0.00	0.00	39.80	0.00	13.03	0.00	72.05	0.00	446.07	0.02	0.00
2018	33.89	0.00	0.0	0.00	0.00	0.00	24.43	0.00	11.54	6.24	83.88	0.00	644.64	0.05	0.00
Totale	444.37	7.31	0.4	23.24	0.38	2.35	216.18	13.68	28.92	8.28	728.98	0.62	4884.27	2.31	17.52

	CER_130205	CER_130206	CER_130502	CER_130507	CER_130802	CER_140603	CER_150110	CER_150202	CER_160104	CER_160107	CER_160121	CER_160211	CER_160213	CER_160215	CER_160303
2008	1.22	0.00	0.00	0.00	0.0	1.67	133.48	224.78	0.00	0.95	0.00	0.00	6.02	0.00	0.00
2009	1.28	0.00	0.00	0.00	0.0	3.84	168.87	231.77	0.00	0.71	0.28	0.00	31.27	0.00	0.00
2010	0.82	0.00	0.00	0.00	0.0	4.27	191.67	265.87	0.00	0.70	0.00	0.00	20.98	0.00	0.00
2011	1.17	0.00	0.00	0.00	0.0	1.06	100.32	170.70	0.00	2.53	0.00	0.00	26.99	0.00	0.00
2012	0.00	0.00	0.00	0.00	0.0	0.26	33.67	101.29	0.00	1.70	0.00	0.00	0.80	0.06	0.00
2013	0.03	0.00	0.00	0.00	0.0	0.18	29.64	73.54	0.00	0.82	0.00	0.07	1.14	0.00	0.00
2014	0.00	0.00	0.00	0.00	0.0	0.26	76.21	213.13	0.00	3.58	0.00	0.00	11.74	0.00	0.00
2015	0.38	0.00	0.00	0.00	0.0	0.56	236.43	649.25	0.00	6.80	115.19	1.09	7.45	0.00	0.00
2016	0.46	2.34	1.38	57.88	140.9	1.03	141.62	321.54	0.00	1.52	37.55	0.67	6.02	0.00	0.26
2017	2.20	0.00	0.20	0.00	0.0	6.74	125.79	284.70	2.42	1.94	6.23	2.33	9.65	0.00	1.70
2018	5.61	0.00	0.00	0.00	0.0	8.42	139.38	340.83	34.58	2.06	1.96	8.49	7.90	0.00	20.86
Totale	13.17	2.34	1.58	57.88	140.9	28.29	1377.08	2877.40	37.00	23.31	161.21	12.65	129.96	0.06	22.82

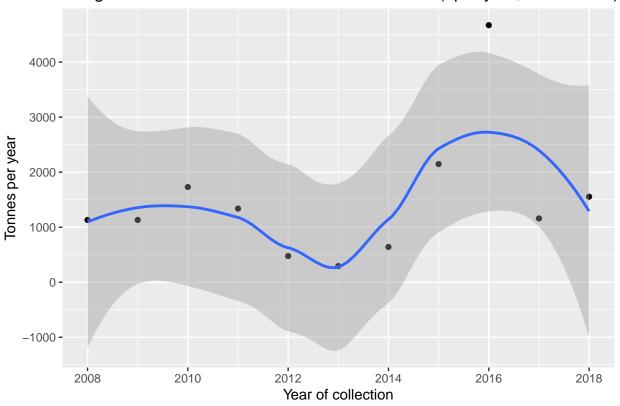
	CER_160403	CER_160504	CER_160506	CER_160508	CER_160601	CER_160602	CER_160708	CER_160709	CER_161001	CER_161003	CER_170106	CER_170204	CER_170301	CER_170410	CER_170503
2008	0.00	0.10	0.00	0.00	5.68	0.00	0.00	8.92	0.00	0.00	0.00	0.62	0.00	0.00	0.00
2009	0.00	0.67	0.00	0.00	7.23	0.00	0.00	6.17	0.00	0.00	0.00	0.00	0.00	0.46	0.00
2010	0.00	0.05	0.00	0.00	6.46	0.00	0.78	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011	0.00	0.71	0.00	0.00	9.42	0.00	0.00	1.92	0.00	2.80	0.00	0.00	0.00	0.00	0.00
2012	0.00	0.02	0.00	0.00	5.31	0.16	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2013	0.00	0.09	0.00	0.00	3.10	0.00	0.00	1.90	0.00	8.26	0.00	0.00	0.00	0.00	0.00
2014	0.00	0.14	0.02	0.00	18.25	0.00	0.00	1.58	0.00	0.24	0.00	0.00	0.00	0.00	0.00
2015	0.00	0.15	0.00	0.00	19.71	2.77	71.02	18.86	0.00	13.20	0.00	1.35	0.00	0.00	0.00
2016	0.05	5.88	0.00	3.55	9.42	3.27	146.74	3.32	17.34	8.21	15.64	3.77	61.85	0.00	2791.78
2017	0.00	0.18	0.00	0.00	12.81	0.00	0.00	1.05	0.00	2.72	0.00	21.94	0.00	0.00	0.00
2018	0.00	0.00	0.00	0.00	10.91	2.14	0.00	1.86	6.15	4.93	0.00	20.13	0.00	0.00	0.00
Totale	0.05	7.99	0.02	3.55	108.30	8.34	218.54	47.41	23.49	40.36	15.64	47.81	61.85	0.46	2791.78

	CER_170603	CER_170605	CER_170903	CER_180103	CER_190105	CER_190205	CER_190207	CER_190810	CER_190813	CER_191307	CER_200121
2008	151.90	0.00	0.0	0.04	0.00	0	0.0	0.48	0.00	0.00	2.78
2009	104.78	0.00	0.0	0.02	0.00	0	0.0	0.02	0.00	0.00	2.17
2010	201.25	0.00	0.0	1.49	2.18	0	0.0	0.00	0.00	0.00	1.78
2011	342.86	0.00	0.0	0.05	0.00	0	0.0	0.00	0.00	0.00	1.79
2012	12.83	0.00	0.0	0.13	0.00	0	0.0	0.00	0.00	0.00	1.49
2013	29.23	0.00	0.0	0.09	0.00	0	0.0	4.02	0.00	0.00	1.10
2014	49.28	0.00	0.0	0.22	0.00	0	0.0	0.00	0.00	0.00	3.62
2015	140.73	0.00	0.0	0.08	0.00	0	0.0	0.00	0.00	0.00	6.65
2016	108.61	6.13	34.4	0.08	0.00	84	8.3	0.00	81.25	17.24	4.72
2017	67.74	0.00	0.0	0.08	0.00	0	0.0	0.00	0.00	0.00	3.80
2018	129.28	0.00	0.0	0.03	0.00	0	0.0	0.00	0.00	0.00	3.46
Totale	1338.49	6.13	34.4	2.31	2.18	84	8.3	4.52	81.25	17.24	33.36

The overall numbers of collection of dangerous waste in the Port of Genoa 2008-2018 in tonnes according to EU Directive 2008/98/CE follows.

2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 1131.82 1132.41 1730.32 1338.41 476.27 293.51 640.73 2146.59 4670.41 1159.38 2018 1554.31

Dangerous waste collection in the Port of Genoa (t per year, 2008–2018)



3. Dataset analysis.

Dataset dimension: 11, 164 (observations of variables)

Exploratory Data analysis:Dataset contains **1 missing records** (NA).

Visually, is reported below a heatmap showing evidence of the dataset status (see annexes for bigger image).



ANNEX - SUMMARY OF DATASET

What follows is the summary of the dataset for waste collection in the Port of Genoa 2008-2018 in tonnes. Information is summarized for each CER code, including min and max values, median, mean, 1st and 3rd quartile, and the number of missing values (NAs).

CER_010101 Min. :0.0000 1st Qu.:0.0000	CER_010410 Min. : 0.000 1st Qu.: 0.000	CER_010413 Min. : 0.000 1st Qu.: 0.000	CER_010504 Min. :0.0000 1st Qu.:0.0000
Median :0.0000 Mean :0.5418	Median : 0.000 Mean : 1.131	Median : 0.000 Mean : 7.493	Median :0.0000 Mean :0.1036
3rd Qu.:0.0000 Max. :5.9600	3rd Qu.: 0.000 Max. :12.440	3rd Qu.: 8.150 Max. :34.700	3rd Qu.:0.0000 Max. :1.1400
CER_010507	CER_020303	CER_020304	CER_020501
Min. :0.0000	Min. : 0.000	Min. : 0.000	Min. :0.0000
1st Qu.:0.0000	1st Qu.: 0.000	1st Qu.: 0.000	1st Qu.:0.0000
Median :0.0000	Median : 0.000	Median : 0.000	Median :0.0000
Mean :0.1127	Mean : 2.809	Mean : 8.884	Mean :0.6091
3rd Qu.:0.0000	3rd Qu.: 0.000	3rd Qu.: 7.075	3rd Qu.:0.0000
Max. :1.2400	Max. :30.900	Max. :62.350	Max. :6.7000
CER_020704	CER_040109	CER_050103	CER_050117
Min. : 0.000	Min. :0.0000	Min. :14.20	Min. : 0.000
1st Qu.: 0.000	1st Qu.:0.0000	1st Qu.:22.62	1st Qu.: 0.000
Median : 0.200	Median :0.0000	Median:38.01	Median : 0.000
Mean : 2.805	Mean :0.1218	Mean :40.40	Mean : 1.064
3rd Qu.: 3.645	3rd Qu.:0.0000	3rd Qu.:44.12	3rd Qu.: 0.000
Max. :15.120	Max. :1.3400	Max. :95.37	Max. :11.700
CER_060106	CER_061303	CER_070104	CER_070208
Min. :0.0000	Min. :0.0000	Min. :0.00000	Min. : 0.000
1st Qu.:0.0000	1st Qu.:0.0000	1st Qu.:0.00000	1st Qu.: 0.000
Median :0.0000	Median :0.0000	Median :0.00000	Median : 0.000
Mean :0.6645	Mean :0.1236	Mean :0.03636	Mean : 2.113
3rd Qu.:0.0900	3rd Qu.:0.0000	3rd Qu.:0.00000	3rd Qu.: 0.000
Max. :6.1000	Max. :0.9200	Max. :0.40000	Max. :11.800
CER_070213	CER_070601	CER_070704	CER_080111
Min. : 0.000	Min. :0.00000	Min. :0.0000	Min. : 3.21
1st Qu.: 0.000	1st Qu.:0.00000	1st Qu.:0.0000	1st Qu.: 8.27
Median : 0.000	Median :0.00000	Median :0.0000	Median :22.85
Mean : 3.646	Mean :0.03455	Mean :0.2136	Mean :19.65
•	3rd Qu.:0.00000	3rd Qu.:0.0000	3rd Qu.:25.41
Max. :17.680	Max. :0.38000	Max. :1.9700	Max. :39.80
CER_080117	CER_080112	CER_080120	CER_080121
Min. : 0.000	Min. :0.0000	Min. : 0.000	Min. : 0.000
1st Qu.: 0.000	1st Qu.:0.0000	1st Qu.: 0.000	1st Qu.: 0.000
Median : 0.000	Median :0.0000	Median : 0.000	Median : 0.000
Mean : 1.244	Mean :0.8418	Mean : 6.424	Mean : 2.629
3rd Qu.: 0.000	3rd Qu.:0.7600	3rd Qu.: 0.000	3rd Qu.: 2.175

CER_080201 CER_080313 CER_080318 CER_080409	Max. :13.680	Max. :4.6200	Max. :51.120	Max. :13.030	
Min. :0.00 Min. :0.000000 Min. :0.1200 Min. :0.00000 1st Qu.:0.00 1st Qu.:0.00000 1st Qu.:0.3650 1st Qu.:0.00000 Median:0.00000 Median:0.00000 Median:0.00000 Median:0.00000 Median:0.0000 Median:0.0000 Median:0.0000 Median:0.0000 Median:0.05264 Mean :0.7527 3rd Qu.:0.0500 3rd Qu.:0.05500 3rd Qu.:0.0500 Max. :6.2400 Mean :0.5264 Mean :0.7527 3rd Qu.:0.0500 Max. :6.2400 Mean :0.5600 3rd Qu.:0.0500 Max. :6.2400 Mean :0.6500 Max. :6.2400 Max. :6.2400 Mean :0.0000 Max. :6.2400 Max. :6.2400 Max. :6.2400 Max. :6.2400 Max. :6.2400 Max. :6.2400 Median:0.00000 Max. :6.2400 Median:0.00000 Max. :6.2400 Median:0.00000 Max. :1.3990 Max. :0.05636 3rd Qu.:0.00000 Max. :1.3999 Max. :0.05636 Max. :1.29100	GED 000004	GED 000040	GED 000010	GED 000400	
St Qu.:0.00	_	-	-	_	
Median :0.00 Median :0.000000 Median :0.4300 Median :0.00000 Mean :0.05264 Mean :0.5264 Mean :0.7527 3rd Qu.:0.05000 3rd Qu.:0.05000 Max :1.1900 Max :0.5000 Max :0.07 Max :0.090000 Max :1.1900 Max :6.2400 CER_080410 CER_1080416 CER_090101 CER_1080416 CER_10804					
Mean :0.01 Mean :0.008182 Mean :0.5264 Mean :0.7527 3rd Qu.:0.000 3rd Qu.:0.00000 3rd Qu.:0.5500 3rd Qu.:0.0500 Max. :0.07 Max. :0.090000 Max. :1.1900 Max. :6.2400 CER_080416 CER_090101 CER_090105 CER_000000 CER_000000 CER_000000 CER_000000 CER_000000 CER_0000000 CER_000000 CER_100000 Max	•		•	•	
STR Qu.:0.00					
Max. :0.07 Max. :0.090000 Max. :1.1900 Max. :6.2400 CER_080416 CER_090101 CER_090105 Min. :0.00 Min. :0 Min. :0.00000 Ist Qu.:0.00 1st Qu.:0 1st Qu.:56.82 1st Qu.:0.00000 Meal :0.10 Median:0 Meal :66.27 Mean :0.05636 3rd Qu.:2.72 3rd Qu.:0 3rd Qu.:78.37 3rd Qu.:0.00000 Max. :6.99 Max. :0 Max. :139.98 Max. :0.62000 CER_100101 CER_100202 CER_100903 CER_100908 Min. :0.0000 Min. :0.00 Min. :0.0000 Ist Qu.:2.950 Min. :0.0000 Ist Qu.:0.00 Ist Qu.:0.000 Ist Qu.:0.000 Median: 6.600 Median: 0.0000 Median: 0.00 Median: 0.000 Median: 0.0000 Mean: 8.515 Mean: 6.19 Mean: 0.26 Mean: 0.26 Mean: 0.01273 3rd Qu.:10.000 3rd Qu.:0.0000 3rd Qu.:0.000 3rd Qu.:0.					
CER_080410 CER_080416 CER_090101 CER_090105 Min. :0.00 Min. :0 Min. :4.46 Min. :0.00000 1st Qu::0.00 1st Qu::0 1st Qu::0.00000 Median:0.00000 Median:0.00000 Median: 0.10 Median: 0 Median: 68.65 Median: 0.05636 3rd Qu::2.72 3rd Qu::0 3rd Qu::78.37 3rd Qu::0.00000 Max. :6.99 Max. :0 Max. :139.98 Max. :0.62000 CER_100101 CER_100202 CER_100903 CER_100908 Min. :2.950 Min. :0.000 Min. :0.00000 1st Qu::4.380 1st Qu::0.0000 1st Qu::0.00 1st Qu::0.0000 1st Qu::0.0000 Mean: :8.515 Mean: :0.6109 Mean: :0.26 Mean: :0.01273 3rd Qu::10.0060 3rd Qu::0.0000 3rd Qu::0.000 3rd Qu::0.000 3rd Qu::0.000 3rd Qu::0.000 3rd Qu::0.000 Min. :0.0000 Max. :6.720 Max. <t< td=""><td></td><td>•</td><td>•</td><td></td></t<>		•	•		
Min. :0.00 Min. :0 Min. : 4.46 Min. :0.00000 Ist Qu.:0.00 1st Qu.:0 1st Qu.:5 56.82 1st Qu.:0.00000 Median :0.0 Median :0 Median :68.65 Median :0.00000 Mean :1.62 Mean :0 Mean :66.27 Mean :0.05636 3rd Qu.:2.72 3rd Qu.:0 3rd Qu.:78.37 3rd Qu.:0.00000 Max. :6.99 Max. :0 Max. :139.98 Max. :0.62000 CER_100101 CER_100202 CER_100903 CER_100908 Min. :2.950 Min. :0.0000 Min. :0.00 Min. :0.00000 1st Qu.:4.350 1st Qu.:0.0000 1st Qu.:0.00 1st Qu.:0.0000 Mean : 6.600 Median :0.0000 Median :0.00 Median :0.00000 Mean : 8.515 Mean :0.6109 Mean :0.26 Mean :0.01273 3rd Qu.:10.60 3rd Qu.:0.0000 3rd Qu.:0.00 3rd Qu.:0.000 Max. :25.450 Max. :6.7200 Max. :2.28 Max. :0.14000 Min. :0.0000 Min. :0.0000 Min. :0.0000 Min. :0.0000	Max. :0.07	Max. :0.090000	Max. :1.1900	Max. :6.2400	
1st Qu.:0.00	CER_080410	CER_080416 CE	R_090101 C	ER_090105	
Median : 0.10 Median : 0 Median : 68.65 Median : 0.00000 Mean : 1.62 Mean : 0 Mean : 66.27 Mean : 0.05636 3rd Qu.: 2.72 3rd Qu.: 0 3rd Qu.: 78.37 3rd Qu.: 0.00000 Max : 6.99 Max : 0 Max : 139.98 Max : 0.62000 CER_100101 CER_100202 CER_100903 CER_100908 Min. : 0.0000 Min. : 0.000 Min. : 0.000 Min. : 0.0000 Min. : 0.0000 1st Qu.: 4.350 1st Qu.: 0.0000 1st Qu.: 0.00 1st Qu.: 0.0000 1st Qu.: 0.0000 Median : 6.600 Median : 0.0000 Median : 0.00 Median : 0.00000 Median : 0.00000 Mean : 8.515 Mean : 0.6109 Mean : 0.26 Mean : 0.01273 3rd Qu.: 10.000 3rd Qu.: 0.0000 Max : 25.450 Max : 6.7200 Max : 2.28 Max : 0.14000 CER_101008 CER_120101 CER_120102 CER_120103 CER_120103 Min. : 0.0000 Min. : 0.0000 1st Qu.: 0.0000 1st Qu.: 0.0000 1st Qu.: 0.0000 1st Qu.: 0.0000	Min. :0.00	Min. :0 Min.	: 4.46 Min	. :0.00000	
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Mean :1.62 Mean :0 Mean :66.27 Mean :0.05636 3rd Qu.:2.72 3rd Qu.:0 3rd Qu.:78.37 3rd Qu.:0.00000 Max. :0.00000 Max. :6.99 Max. :0 Max. :139.98 Max. :0.62000 CER_100101 CER_100202 CER_100903 CER_100908 Min. :2.950 Min. :0.0000 Min. :0.00 Min. :0.00000 1st Qu.: 4.350 1st Qu.:0.0000 1st Qu.:0.00 1st Qu.:0.0000 Median :0.0000 3rd Qu.:0.000 3rd Qu.:0.0000 3rd Qu.:0.000 3rd Qu.:0.0000 Max. :2.28 Max. :0.14000 Min. :0.0000 Min. :0.0000 Min. :0.0000 Min. :0.0000 Min. :0.14000 Min. :0.0000 Min. :0.0000 Min. :0.0000 Min. :0.0000 Median :0.0000					
Strd Qu.:2.72	Mean :1.62	Mean :0 Mean	: 66.27 Mean	n :0.05636	
Max. :6.99 Max. :0 Max. :139.98 Max. :0.62000 CER_100101 CER_100202 CER_100903 CER_100908 Min. :2.950 Min. :0.0000 Min. :0.00 Min. :0.00000 1st Qu.: 4.350 1st Qu.:0.0000 1st Qu.:0.00 Median :0.0000 Median :0.0000 Median : 6.600 Median :0.6109 Mean :0.26 Mean :0.01273 3rd Qu.:10.060 3rd Qu.:0.0000 3rd Qu.:0.00 3rd Qu.:0.0000 Max. :25.450 Max. :6.7200 Max. :2.28 Max. :0.14000 CER_101008 CER_120101 CER_120102 CER_120103 CER_120103 Min. :0.00000 Mean :0.2673 Mean :0.06455 Mean :0.3218 Mean :0.2673 Mean :0.06455 Mean :0.2673 Mean :0.06455 Mean :0.2610 Min. :0.0000 Min. :0.0000		3rd Qu.:0 3rd			
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3rd Qu.:10.060 3rd Qu.:0.0000 3rd Qu.:0.000 3rd Qu.:0.0000 3rd Qu.:0.0000 Max. :25.450 Max. :6.7200 Max. :2.28 Max. :0.14000 CER_101008 CER_120101 CER_120102 CER_120103 Min. :0.0000 Min. :0.0000 Min. :0.0000 Min. :0.00000 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.:0.0000 1st Qu.:0.0000 Median :0.0000 Median :0.0000 Median :0.0000 Median :0.0000 Median :0.0000 Mean :0.2673 Mean :0.06455 Mean :0.2673 Mean :0.06455 Mean :0.0950 3rd Qu.:0.00000 Max. :0.71000 CER_120109 CER_120105 CER_120109 CER_120113 Min. :0.0000 Min. :0.000 Min. :0.000 Min. :0.000 Min. :0.000 Median :0.0000 Median :0.000 Median :0.000 Median :0.000 Median :0.000 Median :0.000 Min. :0.000 <th colspan<="" td=""><td>Median : 6.600</td><td>Median :0.0000</td><td>Median :0.00</td><td>Median :0.00000</td></th>	<td>Median : 6.600</td> <td>Median :0.0000</td> <td>Median :0.00</td> <td>Median :0.00000</td>	Median : 6.600	Median :0.0000	Median :0.00	Median :0.00000
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Min. :0.0000 Min. :0.0000 Min. :0.0000 Min. :0.00000	Max. :25.450	Max. :6.7200	Max. :2.28		
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CER_120104	3rd Qu.:0.0000	3rd Qu.:0.0000	3rd Qu.:0.0950	3rd Qu.:0.00000	
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3rd Qu.:587.10 3rd Qu.:2.785 3rd Qu.:0.01 3rd Qu.:13.080 Max. :884.92 Max. :6.290 Max. :2.24 Max. :68.840 CER_120121 CER_120301 CER_130205 CER_130206					
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	CER_120121	CER_120301	CER_130205	CER_130206	

1st Qu.:0.000000 Median :0.000000 Mean :0.003636 3rd Qu.:0.000000	Median : 0.000 Mean : 1.593		1st Qu.:0.0000 Median :0.0000 Mean :0.2127 3rd Qu.:0.0000
Max. :0.040000	•	Max. :5.610	Max. :2.3400
CER_130502 Min. :0.0000 1st Qu.:0.0000 Median :0.1436 3rd Qu.:0.0000 Max. :1.3800	CER_130507 Min. : 0.000 1st Qu.: 0.000 Median : 0.000 Mean : 5.262 3rd Qu.: 0.000 Max. :57.880	CER_130802 Min. : 0.00 1st Qu.: 0.00 Median : 0.00 Mean : 12.81 3rd Qu.: 0.00 Max. :140.90	CER_140603 Min. :0.180 1st Qu.:0.410 Median :1.060 Mean :2.572 3rd Qu.:4.055 Max. :8.420
CER_150101 Min. : 0.00 1st Qu.: 0.00 Median : 0.40 Mean : 54.61 3rd Qu.: 49.23 Max. :325.91		CER_150103 Min. : 0.000 1st Qu.: 0.150 Median : 3.285 Mean :192.394 3rd Qu.:437.928 Max. :569.350	
CER_150106 Min. : 0.00 1st Qu.: 4.68 Median : 22.42 Mean : 305.07 3rd Qu.: 110.21 Max. :1873.99	CER_150107 Min. : 0.00 1st Qu.: 0.00 Median : 0.00 Mean : 27.19 3rd Qu.: 12.96 Max. :198.28	NA's :1 CER_150110 Min. : 29.64 1st Qu.: 88.27 Median :133.48 Mean :125.19 3rd Qu.:155.25 Max. :236.43	CER_150202 Min.: 73.54 1st Qu.:191.91 Median:231.77 Mean:261.58 3rd Qu.:303.12 Max.:649.25
CER_150203 Min. : 0.000 1st Qu.: 0.225 Median : 1.170 Mean : 2.693 3rd Qu.: 2.210 Max. :12.780	CER_160103 Min. : 0.000 1st Qu.: 2.575 Median : 5.360 Mean : 9.960 3rd Qu.:13.475 Max. :28.470	CER_160104 Min. : 0.000 1st Qu.: 0.000 Median : 0.000 Mean : 3.364 3rd Qu.: 0.000 Max. :34.580	CER_160106 Min. :0.000 1st Qu.:0.000 Median :0.000 Mean :1.424 3rd Qu.:0.250 Max. :7.920
CER_160107 Min. :0.700 1st Qu.:0.885 Median :1.700 Mean :2.119 3rd Qu.:2.295 Max. :6.800	CER_160112 Min. :0.00000 1st Qu.:0.00000 Median :0.00000 Mean :0.02909 3rd Qu.:0.00000 Max. :0.28000	CER_160117 Min. :0.0000 1st Qu.:0.0000 Median :0.0000 Mean :0.1473 3rd Qu.:0.0000 Max. :1.6200	CER_160118 Min. :0.000000 1st Qu.:0.000000 Median :0.005455 3rd Qu.:0.000000 Max. :0.060000
CER_160119 Min. :0.00000 1st Qu.:0.00000 Median :0.00000 Mean :0.03091 3rd Qu.:0.00000	CER_160121 Min. : 0.000 1st Qu.: 0.000 Median : 0.000 Mean : 14.655 3rd Qu.: 4.095	Min. : 0.000 1st Qu.: 0.000 Median : 0.000 Mean : 8.353	Min. :0.00 1st Qu.:0.00 Median :0.00 Mean :1.15

3.6	0 04000	3.6	445 400	3.6	70 400	3.6	0 40
Max.	:0.34000	Max.	:115.190	Max.	:79.130	Max.	:8.49

CER_160213	CER_160214	CER_160215	CER_160216
Min. : 0.80	Min. : 0.880	Min. :0.000000	Min. :0.0000
1st Qu.: 6.02	1st Qu.: 6.465	1st Qu.:0.000000	1st Qu.:0.0000
Median : 7.90	Median :10.220	Median :0.000000	Median :0.0100
Mean :11.81	Mean :12.735	Mean :0.005455	Mean :0.2191
3rd Qu.:16.36	3rd Qu.:18.565	3rd Qu.:0.000000	3rd Qu.:0.2850
Max. :31.27	Max. :32.430	Max. :0.060000	Max. :1.3800
CER_160303	CER_160304	CER_160305	CER_160306
Min. : 0.000	Min. : 0.000	Min. : 0.000	Min. :0.0000
1st Qu.: 0.000	1st Qu.: 0.000	1st Qu.: 0.000	1st Qu.:0.0000
Median : 0.000	Median : 0.000	Median : 0.040	Median :0.1400
Mean : 2.075	Mean : 2.747	Mean : 1.994	Mean :0.9473
3rd Qu.: 0.130	3rd Qu.: 1.440	3rd Qu.: 0.420	3rd Qu.:0.6150
Max. :20.860	Max. :23.800	Max. :10.850	Max. :7.6500
CER_160403	CER_160504	CER_160505	CER_160506
Min. :0.000000) Min. :0.0000	Min. :0.000	Min. :0.000000
1st Qu.:0.000000	1st Qu.:0.0700	1st Qu.:0.010	1st Qu.:0.000000
Median :0.000000	·	•	Median :0.000000
Mean :0.004545			Mean :0.001818
3rd Qu.:0.000000			3rd Qu.:0.000000
Max. :0.050000	•	•	Max. :0.020000
114110.00000	, nan0.000	, nan0.010	11dh: .0.020000
CER 160508	CER 160509	CER_160601	CER 160602
Min. :0.0000	Min. :0.00000	Min. : 3.100	Min. :0.0000
1st Qu.:0.0000	1st Qu.:0.00000	1st Qu.: 6.070	1st Qu.:0.0000
Median :0.0000	Median :0.00000	Median : 9.420	Median :0.0000
Mean :0.3227	Mean :0.06273	Mean : 9.845	Mean :0.7582
3rd Qu.:0.0000	3rd Qu.:0.00000	3rd Qu.:11.860	3rd Qu.:1.1500
		Max. :19.710	
11dx0.0000	11dx0.00000	11dx13.710	11dx0.2700
CER 160604	CER 160605	CER_160708	CER 160709
Min. :0.00000		Min. : 0.00	
1st Qu.:0.00000	1st Qu.:0.4900	1st Qu.: 0.00	1st Qu.: 1.355
Median :0.00000	Median :0.7500	Median: 0.00	
Mean :0.05091			
		3rd Qu.: 0.39	
Max. :0.20000	Max. :2.2300	Max. :146.74	
11ax: .0.2000	11dA: .2.2000	110.71	11dA: .10.000
CER 161001	CER 161002	CER_161003	CER 161004
Min. : 0.000			
	1st Qu.: 0.000	1st Qu.: 0.000	
Median : 0.000		Median : 2.720	
Mean : 2.135			
3rd Qu.: 0.000		3rd Qu.: 6.570	
Max. :17.340			
114717.040	1101 130.020	110.200	11ux010.02
CER 161106	CER 170101	CER_170103	CER 170106
M: 0.0000	V	V: 0.000	W: 0.000

Min. :0.0000 Min. :0.000 Min. :0.000 Min. :0.000

1st Qu.:0.0000 Median :0.0000	1st Qu.: 0.000 Median : 0.000	1st Qu.:0.000 Median :0.000	1st Qu.: 0.000 Median : 0.000
Mean :0.4109	Mean : 8.338	Mean :1.013	Mean : 1.422
3rd Qu.:0.0000	3rd Qu.: 7.230	3rd Qu.:0.000	3rd Qu.: 0.000
Max. :4.5200	Max. :48.040	Max. :5.800	Max. :15.640
Max4.5200	Max40.040	Max5.000	Max15.040
CER_170107	-	-	CER_170203
Min. : 0.40	Min. : 0.00	Min. :0.000	Min. : 0.000
1st Qu.: 50.47	1st Qu.: 2.49	1st Qu.:0.000	1st Qu.: 0.000
Median : 73.75	Median: 8.68	Median :0.000	Median : 1.130
Mean :108.16	Mean : 27.58	Mean :1.367	Mean : 4.131
3rd Qu.:134.65	3rd Qu.: 24.76	3rd Qu.:1.490	3rd Qu.: 5.300
Max. :365.38	Max. :169.27	Max. :6.660	Max. :23.380
CER_170204	_	-	CER_170401
Min. : 0.000	Min. : 0.000	Min. : 0.00	Min. :0.0000
1st Qu.: 0.000	1st Qu.: 0.000	1st Qu.: 0.00	1st Qu.:0.0000
Median : 0.000	Median : 0.000	Median: 1.48	Median :0.0000
Mean : 4.346	Mean : 5.623	Mean : 14.24	Mean :0.2336
3rd Qu.: 2.560	3rd Qu.: 0.000	3rd Qu.: 9.91	3rd Qu.:0.0000
Max. :21.940	Max. :61.850	Max. :117.39	Max. :1.8000
_	CER_170405	CER_170410	_
Min. :0.00	Min. : 0.00	Min. :0.00000	Min. : 0.000
1st Qu.:0.00	1st Qu.: 18.89	1st Qu.:0.00000	1st Qu.: 0.030
Median :0.00	Median : 25.35	Median :0.00000	Median : 0.220
Mean :0.23	Mean : 96.96	Mean :0.04182	Mean : 3.135
3rd Qu.:0.01	3rd Qu.: 87.72	3rd Qu.:0.00000	3rd Qu.: 0.325
Max. :1.62	Max. :387.64	Max. :0.46000	Max. :32.380
CFR 170503	CFR 170504	CER_170506	CFR 170603
Min. : 0.0	Min. : 0.00		n. : 12.83
1st Qu.: 0.0	1st Qu.: 0.00		t Qu.: 58.51
Median: 0.0	Median: 0.44		dian :108.61
Mean : 253.8	Mean : 20.72		an :121.68
3rd Qu.: 0.0		3rd Qu.:0 3r	
Max. :2791.8	Max. :139.89		x. :342.86
11dx2731.0	11dx103.03	naxo na	A042.00
CER_170604	CER 170605	CER_170802	CER 170903
Min. : 0.000	-	-	-
1st Qu.: 0.560	1st Qu.:0.0000	1st Qu.: 0.000	
Median : 5.250	Median :0.0000		
Mean : 9.116	Mean :0.5573		
3rd Qu.:17.915			
Max. :20.570		·	•
CER_170904	CER_180103	CER_180109	CER_190105
Min. : 0.18	_	Min. :0.3000	Min. :0.0000
1st Qu.: 173.47	7 1st Qu.:0.045	1st Qu.:0.3600	1st Qu.:0.0000
Median : 466.16			
Mean : 509.50	Mean :0.210	Mean :0.5882	Mean :0.1982
3rd Qu.: 711.62			
•	•	· ·	-

Max. :1196.71	Max. :1.490	Max. :1.6600	Max. :2.1800
CER_190205 Min. : 0.000 1st Qu.: 0.000 Median : 0.000 Mean : 7.636 3rd Qu.: 0.000 Max. :84.000	CER_190206 Min. : 0.00 1st Qu.: 0.00 Median : 0.00 Mean : 26.38 3rd Qu.: 0.00 Max. :290.17	CER_190207 Min. :0.0000 1st Qu.:0.0000 Median :0.0000 Mean :0.7545 3rd Qu.:0.0000 Max. :8.3000	CER_190801 Min. : 0.000 1st Qu.: 0.000 Median : 0.000 Mean : 3.423 3rd Qu.: 0.000 Max. :24.150
CER_190802 Min. : 0.000 1st Qu.: 0.000 Median : 0.000 Mean : 2.262 3rd Qu.: 0.000 Max. :21.980	CER_190805 Min. : 0.02 1st Qu.: 1.07 Median : 7.51 Mean :10.67 3rd Qu.:19.92 Max. :26.23	CER_190809 Min. : 0.000 1st Qu.: 0.000 Median : 0.000 Mean : 7.098 3rd Qu.: 0.000 Max. :78.060	CER_190810 Min. :0.0000 1st Qu.:0.0000 Median :0.0000 Mean :0.4109 3rd Qu.:0.0100 Max. :4.0200
CER_190813 Min. : 0.000 1st Qu.: 0.000 Median : 0.000 Mean : 7.386 3rd Qu.: 0.000 Max. :81.250	CER_190814 Min. : 0.000 1st Qu.: 0.000 Median : 0.000 Mean : 50.487 3rd Qu.: 5.105 Max. :457.010	Min. :0.0000 1st Qu.:0.0000 Median :0.0000 Mean :0.5545 3rd Qu.:0.0000	Min. :0.00000 1st Qu.:0.00000 Median :0.00000 Mean :0.01455
3rd Qu.: 0.000	Min. : 0.000 1st Qu.: 0.000 Median : 0.000 Mean : 2.289 3rd Qu.: 0.000	1st Qu.:0.0000 Median :0.0000 Mean :0.5473	Min. : 0.00 1st Qu.: 0.00 Median : 0.00 Mean : 153.86 3rd Qu.: 2.94
Min. : 0.000 1st Qu.: 0.000 Median : 0.000 Mean : 1.567	CER_191308 Min. : 0.000 1st Qu.: 0.000 Median : 0.000 Mean : 2.053 3rd Qu.: 0.000 Max. :22.580	1st Qu.: 0.000 Median : 0.000 Mean : 2.488	Min. : 0.000 1st Qu.: 0.000 Median : 0.000 Mean : 24.317 3rd Qu.: 6.075
Min. : 0.0 1st Qu.: 0.0 Median : 0.0 Mean :118.1 3rd Qu.:145.5 Max. :685.8	Min. :0.0000 1st Qu.:0.0000 Median :0.0000 Mean :0.3455 3rd Qu.:0.0000 Max. :3.8000	1st Qu.: 0.00 Median : 0.00 Mean : 2.72 3rd Qu.: 0.00	Min.:1.100 1st Qu.:1.785 Median:2.780 Mean:3.033 3rd Qu.:3.710 Max::6.650
Min. : 1.53	_	_	_

1st Qu.: 9.32	1st Qu.:0.0000 1	st Qu.:0.0000	1st Qu.: 8.53
Median :29.52	Median :0.0000 M	Median :0.0000	Median : 18.00
Mean :36.46	Mean :0.2273 M	lean :0.1909	Mean : 63.98
3rd Qu.:62.46	3rd Qu.:0.1550 3	3rd Qu.:0.0000	3rd Qu.: 71.95
Max. :80.66	Max. :1.6300 M	fax. :2.1000	Max. :376.66
CER_200139	CER_200140	CER_200201	CER_200301
Min. : 0.000	Min. :0.000000	Min. : 0.00	00 Min. :2240
1st Qu.: 0.000	1st Qu.:0.000000	1st Qu.: 0.00	00 1st Qu.:3196
Median : 0.270	Median :0.000000	Median : 0.00	00 Median :4415
Mean : 15.986	Mean :0.001818	Mean :10.40	01 Mean :4401
3rd Qu.: 6.875	3rd Qu.:0.000000	3rd Qu.: 4.3	55 3rd Qu.:5699
Max. :147.840	Max. :0.020000	Max. :75.18	80 Max. :6781
CER_200303	CER_200304	CER_200306	CER_200307
Min. : 0.00	Min. : 0.00	Min. : 0	Min. : 21.77
1st Qu.: 0.00	1st Qu.: 15.48	1st Qu.: 0	1st Qu.: 35.07
Median: 0.00	Median : 85.24	Median: 0	Median : 77.50
Mean : 31.71	Mean :1193.56	Mean :1262	Mean : 200.04
3rd Qu.: 44.97	3rd Qu.:1274.90	3rd Qu.:1458	3rd Qu.: 213.00

Max. :190.78 Max. :5305.39 Max. :6445 Max. :1067.22

ANNEX - DATASET HEATMAP

