

Appendix

to “Rehabilitating Homeless: Dataset and Key Insights”

#	Tag	Tag value
1	type_id	ID of contract type (43 types total)
2	gender	client's gender
3	age	client's age in years
4	is_homeless	client is homeless
5	is_married	client's marital status
6	has_dependants	client has dependants
7	has_profession	client has profession
8	has_residence	client has residence (but may not be able to use it for any reason)
9	contacts_relatives	client has contacted relatives recently
10	source_perm_job	client's primary source of existence is permanent job
11	source_temp_job	client's primary source of existence is temporary job
12	source_pension	client's primary source of existence is pension
13	source_alms	client's primary source of existence is alms
14	source_relatives	client's primary source of existence is from relatives
15	source_other	client's primary source of existence is not on the list
16	source_gathering	client's primary source of existence is gathering
17	source_charity	client's primary source of existence is from charity
18	source_rehabs	client's primary source of existence is from rehabs
19	is_citizen	client is citizen of the <i>country omitted to preserve anonymity</i>
20	is_retired	client is retired
21	disability_group	client has disability of certain group (1, 2 or 3)
22	is_registered	client has registration
23	from_orphanage	client graduated orphanage
24	was_confined	client was in confinement
25	chem_confirmed	client confirms chemical dependence
26	chem_possible	possible chemical dependence
27	chem_noanswer	client refused to answer about chemical dependence
28	chem_no	client denies chemical dependence

Table 1: Category tags obtained from database tables.

#	Tag	Keyword examples in comments (translated into English)	Description
1	comments_alcohol	not sober, drunk, binges, got drunk, AA (alcoholics anonymous)	client has problem with alcohol
2	comments_chem	names of narcotics, NA (narcotics anonymous)	client has problems with chemical preparations or drugs
3	comments_disability	disabled, disability	client has disability
4	comments_absence	not come, didn't come, disappeared	client does not come to a social worker
5	comments_orphanage	orphanage, orphan, adoption	client was brought up in an orphanage
6	comments_work	job search, employment, vacancy	client looks for a job
7	comments_confinement	serve sentence, imprisonment, prison	client was in confinement
8	comments_noresidence	lost apartment, housing refund, search for housing	client does not have a place to live
9	comments_aggression	conflict, fight, scandal, swear, aggression, threaten	client demonstrates aggressive behavior
10	comments_disturbance	disturbance, disorder	client has disturbance in a shelter
11	comments_disease	hospital, treatment, medicine, hospitalization, names of diseases	client has a disease
12	comments_death	died, death, widow	client, or someone close to client, died
13	comments_nursinghome	nursing home	client needs to be placed into nursing home
14	comments_relatives	mother, father, sister, brother, son, daughter, wife, husband	client has relatives
15	comments_illiteracy	illiterate	client is illiterate
16	comments_foreigner	citizenship, embassy	client is not from <i>country omitted to preserve anonymity</i>
17	comments_ticket	ticket	client needs a ticket to go home
18	comments_court	preliminary court session, court proceedings, court	client has problems with a court
19	comments_pregnancy	pregnancy	client is/was pregnant
20	comments_mental	names of mental problems, psychologist, antidepressant, mental hospital	client has a mental problem
21	comments_fire	fire, burn down	client's residence burned down
22	comments_social_benefits	pension	client needs a pension or other social benefit
23	comments_divorce	divorced, divorce, ex-wife, ex-husband	divorced client

Table 2: Category tags obtained from comments.

#	Column name	Value in column	% NAN from total (6349) records	Comment
1	contract_id	integer	0	from the table "contract" in CMS
2	client_id	integer	0	new ID
3	gender	1 - male, 0 - female	0	from CMS
4	age	float	0.03	calculated from client's birth date and data collection date (2021-07-31)
5	no_birthdate	0/1	0	1 - if no client's birth date in CMS
6	is_homless	0/1	0	from the table "client" in CMS
7	contract_success	0/1	0	target variable; 0 - if contract_status_id = "partially fulfilled due to client rejection" or "not fulfilled due to client rejection" or "partially fulfilled due to client absence" or "not fulfilled due to client absence"; 1 - if contract_status_id = "fulfilled"
8	is_married	0/1	12.93	from the table "client" in CMS
9	has_dependants	0/1	13.12	from the table "client" in CMS
10	has_profession	0/1	67.14	from the table "client" in CMS
11	has_residence	0/1	14.27	from the table "client" in CMS
12	contacts_relatives	0/1	17.83	from the table "client" in CMS
13	source_perm_job	0/1	67.43	client's primary source of existence is permanent job
14	source_temp_job	0/1	67.43	client's primary source of existence is temporary job
15	source_alms	0/1	67.43	client's primary source of existence is alms
16	source_relatives	0/1	67.43	client's primary source of existence is from relatives
17	source_other	0/1	67.43	client's primary source of existence is not on the list
18	source_gathering	0/1	67.43	client's primary source of existence is gathering
19	source_charity	0/1	67.43	client's primary source of existence is from charity
20	source_rehabs	0/1	67.43	client's primary source of existence is from rehabs
21	is_citizen	0/1	60.91	client is citizen of the <i>country omitted to preserve anonymity</i>
22	is_retired	0/1	58.95	client is retired
23	disability_group	1/2/3	95.56	client has disability of certain group (1, 2 or 3)
24	is_registered	0/1	63.16	client has registration
25	from_orphanage	0/1	61.84	client graduated orphanage
26	was_confined	0/1	60.69	client was in confinement
27	comments_alcohol	0/1	4.03	client has problem with alcohol
28	comments_chem	0/1	4.03	client has problems with chemical preparations or drugs
29	comments_disability	0/1	4.03	client has disability
30	comments_absence	0/1	4.03	client does not come to a social worker
31	comments_orphange	0/1	4.03	client was brought up in an orphanage
32	comments_work	0/1	4.03	client looks for a job
33	comments_confinement	0/1	4.03	client was in confinement
34	comments_noresidence	0/1	4.03	client does not have a place to live
35	comments_aggression	0/1	4.03	client demonstrates aggressive behavior
36	comments_disturbance	0/1	4.03	client has disturbance in a shelter
37	comments_disease	0/1	4.03	client has a disease
38	comments_death	0/1	4.03	client, or someone close to client, died
39	comments_nursinghome	0/1	4.03	client needs to be placed into nursing home
40	comments_relatives	0/1	4.03	client has relatives
41	comments_illiteracy	0/1	4.03	client is illiterate
42	comments_foreigner	0/1	4.03	client is not from <i>country omitted to preserve anonymity</i>
43	comments_ticket	0/1	4.03	client needs a ticket to go home
44	comments_court	0/1	4.03	client has problems with a court
45	comments_pregnancy	0/1	4.03	client is/was pregnant
46	comments_mental	0/1	4.03	client has a mental problem
47	comments_fire	0/1	4.03	client's residence burned down
48	comments_social_benefits	0/1	4.03	client needs a pension or other social benefit
49	comments_divorce	0/1	4.03	divorced client
50	released_recently	0/1	97.87	recently released from confinement (less than 3 months)
51	chem_confirmed	0/1	80.34	client confirms chemical dependence
52	chem_possible	0/1	80.34	possible chemical dependence
53	chem_noanswer	0/1	80.34	client refused to answer about chemical dependence
54	chem_no	0/1	80.34	client denies chemical dependence

#	Column name	Value in column	% NAN from total (6349) records	Comment
55	type_1	0/1	0	contract item type = Restore/obtain passport
56	type_2	0/1	0	contract item type = Apply for social benefits
57	type_3	0/1	0	contract item type = Obtain medical insurance policy
58	type_4	0/1	0	contract item type = Restore/obtain taxpayer ID (certificate)
59	type_5	0/1	0	contract item type = Obtain work experience supporting documents
60	type_6	0/1	0	contract item type = Register disability
61	type_7	0/1	0	contract item type = Arrange for nursing home
62	type_8	0/1	0	contract item type = Temporary registration at Organization address
63	type_9	0/1	0	contract item type = Registration at other address
64	type_10	0/1	0	contract item type = Employment
65	type_11	0/1	0	contract item type = Employment with accommodation
66	type_12	0/1	0	contract item type = Arrange for night shelter
67	type_13	0/1	0	contract item type = Rehabilitation centers for alcohol and drug addicted
68	type_14	0/1	0	contract item type = Arrange for hospital
69	type_15	0/1	0	contract item type = Search for relatives
70	type_16	0/1	0	contract item type = Return to hometown
71	type_17	0/1	0	contract item type = Determine/take citizenship
72	type_18	0/1	0	contract item type = Legal support in court
73	type_19	0/1	0	contract item type = Obtain accommodation
74	type_20	0/1	0	contract item type = Cancel fraudulent transaction and restore housing
75	type_21	0/1	0	contract item type = Submit request(s) and/or application(s)
76	type_22	0/1	0	contract item type = Rehabilitation program <i>name omitted to preserve anonymity</i>
77	type_23	0/1	0	contract item type = Restore education documents
78	type_24	0/1	0	contract item type = Issue duplicate of birth certificate or other document
79	type_25	0/1	0	contract item type = Obtain/restore military ID
80	type_26	0/1	0	contract item type = Obtain international passport
81	type_27	0/1	0	contract item type = Technical means of rehabilitation (prothetic devices, etc.)
82	type_28	0/1	0	contract item type = Obtain social insurance certificate (insurance number of individual personal account)
83	type_29	0/1	0	contract item type = Arrange for social adaptation center
84	type_30	0/1	0	contract item type = Assist in professional training
85	type_31	0/1	0	contract item type = Identification
86	type_32	0/1	0	contract item type = Register at AIDS center
87	type_33	0/1	0	contract item type = Arrange for crisis center
88	type_34	0/1	0	contract item type = Psychological support
89	type_35	0/1	0	contract item type = Re-calculate/restore/obtain social benefits
90	type_36	0/1	0	contract item type = Complete case in civil court
91	type_37	0/1	0	contract item type = Obtain salary that was not paid at dismissal
92	type_38	0/1	0	contract item type = Health restoration
93	type_39	0/1	0	contract item type = Employment adaptation program
94	type_40	0/1	0	contract item type = Accommodation with support
95	type_41	0/1	0	contract item type = Support rehabilitation program client with chemical dependence (there is no one contract with this type in the dataset)
96	type_42	0/1	0	contract item type = Preparation prior to accommodation in <i>name omitted to preserve anonymity</i> shelter
97	type_43	0/1	0	contract item type = Hostel

Table 3: Columns in the dataset.