



In [20]: `!pip install pandas-profiling`

Requirement already satisfied: pandas-profiling in c:\users\yvkch\anaconda4\lib\site-packages (2.3.0)

Requirement already satisfied: matplotlib>=1.4 in c:\users\yvkch\anaconda4\lib\site-packages (from pandas-profiling) (3.1.3)

Requirement already satisfied: htmlmin>=0.1.12 in c:\users\yvkch\anaconda4\lib\site-packages (from pandas-profiling) (0.1.12)

Requirement already satisfied: phik>=0.9.8 in c:\users\yvkch\anaconda4\lib\site-packages (from pandas-profiling) (0.9.12)

Requirement already satisfied: confuse>=1.0.0 in c:\users\yvkch\anaconda4\lib\site-packages (from pandas-profiling) (1.1.0)

Requirement already satisfied: pandas>=0.19 in c:\users\yvkch\anaconda4\lib\site-packages (from pandas-profiling) (1.0.5)

Requirement already satisfied: missingno>=0.4.2 in c:\users\yvkch\anaconda4\lib\site-packages (from pandas-profiling) (0.4.2)

Requirement already satisfied: astropy in c:\users\yvkch\anaconda4\lib\site-packages (from pandas-profiling) (4.0)

Requirement already satisfied: jinja2>=2.8 in c:\users\yvkch\anaconda4\lib\site-packages (from pandas-profiling) (2.11.1)

Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\yvkch\anaconda4\lib\site-packages (from matplotlib>=1.4->pandas-profiling) (1.1.0)

Requirement already satisfied: cycler>=0.10 in c:\users\yvkch\anaconda4\lib\site-packages (from matplotlib>=1.4->pandas-profiling) (0.10.0)

Requirement already satisfied: numpy>=1.11 in c:\users\yvkch\anaconda4\lib\site-packages (from matplotlib>=1.4->pandas-profiling) (1.18.1)

Requirement already satisfied: pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.0.1 in c:\users\yvkch\anaconda4\lib\site-packages (from matplotlib>=1.4->pandas-profiling) (2.4.6)

Requirement already satisfied: python-dateutil>=2.1 in c:\users\yvkch\anaconda4\lib\site-packages (from matplotlib>=1.4->pandas-profiling) (2.8.1)

Requirement already satisfied: scipy>=1.1.0 in c:\users\yvkch\anaconda4\lib\site-packages (from phik>=0.9.8->pandas-profiling) (1.4.1)

Requirement already satisfied: numba>=0.38.1 in c:\users\yvkch\anaconda4\lib\site-packages (from phik>=0.9.8->pandas-profiling) (0.48.0)

Requirement already satisfied: joblib>=0.14.1 in c:\users\yvkch\anaconda4\lib\site-packages (from phik>=0.9.8->pandas-profiling) (0.14.1)

Requirement already satisfied: pyyaml in c:\users\yvkch\anaconda4\lib\site-packages (from confuse>=1.0.0->pandas-profiling) (5.3)

Requirement already satisfied: pytz>=2017.2 in c:\users\yvkch\anaconda4\lib\site-packages (from pandas>=0.19->pandas-profiling) (2019.3)

Requirement already satisfied: seaborn in c:\users\yvkch\anaconda4\lib\site-packages (from missingno>=0.4.2->pandas-profiling) (0.10.0)

Requirement already satisfied: MarkupSafe>=0.23 in c:\users\yvkch\anaconda4\lib\site-packages (from jinja2>=2.8->pandas-profiling) (1.1.1)

Requirement already satisfied: setuptools in c:\users\yvkch\anaconda4\lib\site-packages (from kiwisolver>=1.0.1->matplotlib>=1.4->pandas-profiling) (45.2.0.post20200210)

Requirement already satisfied: six in c:\users\yvkch\anaconda4\lib\site-packages (from cycler>=0.10->matplotlib>=1.4->pandas-profiling) (1.14.0)

Requirement already satisfied: llvmlite<0.32.0,>=0.31.0dev0 in c:\users\yvkch\anaconda4\lib\site-packages (from numba>=0.38.1->phik>=0.9.8->pandas-profiling) (0.31.0)

Executing shutdown due to inactivity...

2020-07-28 07:01:45,820 - INFO - Executing shutdown due to inactivity...

Executing shutdown...

2020-07-28 07:01:50,060 - INFO - Executing shutdown...

```
In [5]: #Package 1: Pandas_Profiling
import pandas as pd
import pandas_profiling
from pandas_profiling import ProfileReport

df=pd.read_csv("German_Credit.csv", encoding="Latin-1")
```

```
In [6]: #Creation of report using Pandas Profiling
pandas_profiling.ProfileReport(df)

#Using below report, you can now toggle between variables, correlations, missing values etc
```

Overview

Dataset info

Number of variables	32
Number of observations	1000
Missing cells	5064 (15.8%)
Duplicate rows	0 (0.0%)
Total size in memory	250.1 KiB
Average record size in memory	256.1 B

Variables types

Numeric	7
Categorical	6
Boolean	19
Date	0
URL	0
Text (Unique)	0
Rejected	0
Unsupported	0

Warnings

EDUCATION has 950 (95.0%) missing values

Missing

EMPLOYMENT has 62 (6.2%) zeros

Zeros

EMPLOYMENT has 62 (6.2%) zeros

Out[6]:

```
In [8]: #Creation of HTML report with the output generated with pandas-profiling
profile = pandas_profiling.ProfileReport(df)
profile.to_file("./German Credit DataProfiling_Report.html")
```

```
In [9]: #Package 2: Sweetviz
!pip install sweetviz
```

Collecting sweetviz

Using cached sweetviz-1.0b5-py3-none-any.whl (325 kB)

Requirement already satisfied: jinja2>=2.11.1 in c:\users\yvkch\anaconda4\lib\site-packages (from sweetviz) (2.11.1)

Requirement already satisfied: scipy>=1.3.2 in c:\users\yvkch\anaconda4\lib\site-packages (from sweetviz) (1.4.1)

Requirement already satisfied: numpy>=1.16.0 in c:\users\yvkch\anaconda4\lib\site-packages (from sweetviz) (1.18.1)

Requirement already satisfied: matplotlib>=3.1.3 in c:\users\yvkch\anaconda4\lib\site-packages (from sweetviz) (3.1.3)

Collecting importlib-resources>=1.2.0

Using cached importlib_resources-3.0.0-py2.py3-none-any.whl (23 kB)

Requirement already satisfied: pandas!=1.0.0,!=1.0.1,!=1.0.2,>=0.25.3 in c:\users\yvkch\anaconda4\lib\site-packages (from sweetviz) (1.0.5)

Requirement already satisfied: tqdm>=4.43.0 in c:\users\yvkch\anaconda4\lib\site-packages (from sweetviz) (4.48.0)

Requirement already satisfied: MarkupSafe>=0.23 in c:\users\yvkch\anaconda4\lib\site-packages (from jinja2>=2.11.1->sweetviz) (1.1.1)

Requirement already satisfied: cycler>=0.10 in c:\users\yvkch\anaconda4\lib\site-packages (from matplotlib>=3.1.3->sweetviz) (0.10.0)

Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\yvkch\anaconda4\lib\site-packages (from matplotlib>=3.1.3->sweetviz) (1.1.0)

Requirement already satisfied: python-dateutil>=2.1 in c:\users\yvkch\anaconda4\lib\site-packages (from matplotlib>=3.1.3->sweetviz) (2.8.1)

Requirement already satisfied: pyparsing!=2.0.4,!=2.1.2,!=2.1.6,>=2.0.1 in c:\users\yvkch\anaconda4\lib\site-packages (from matplotlib>=3.1.3->sweetviz) (2.4.6)

Requirement already satisfied: zipp>=0.4; python_version < "3.8" in c:\users\yvkch\anaconda4\lib\site-packages (from importlib-resources>=1.2.0->sweetviz) (2.2.0)

Requirement already satisfied: pytz>=2017.2 in c:\users\yvkch\anaconda4\lib\site-packages (from pandas!=1.0.0,!=1.0.1,!=1.0.2,>=0.25.3->sweetviz) (2019.3)

Requirement already satisfied: six in c:\users\yvkch\anaconda4\lib\site-packages (from cycler>=0.10->matplotlib>=3.1.3->sweetviz) (1.14.0)

Requirement already satisfied: setuptools in c:\users\yvkch\anaconda4\lib\site-packages (from kiwisolver>=1.0.1->matplotlib>=3.1.3->sweetviz) (45.2.0.post20200210)

Installing collected packages: importlib-resources, sweetviz

Successfully installed importlib-resources-3.0.0 sweetviz-1.0b5

```
In [10]: # importing sweetviz
import sweetviz as sv

#analyzing the dataset
advert_report = sv.analyze(df)

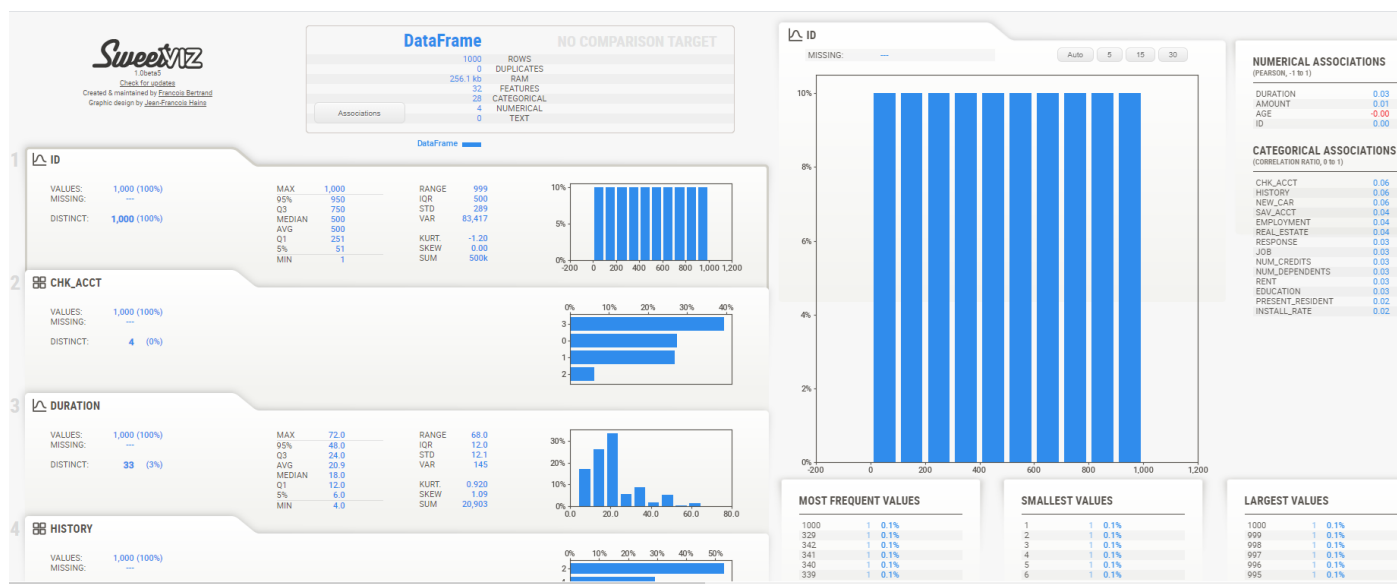
#display the report
advert_report.show_html('GC_SweetViz.html')

#With the report produced by Sweetviz, you can hover to see the associations and other univariate statistics with var
```

```
:FEATURES DONE: |████████████████████████████████████████████████████████████████████████████████| [100%] 00:05 ->
(00:00 left)
:PAIRWISE DONE: |████████████████████████████████████████████████████████████████████████████████| [100%] 00:00 ->
(00:00 left)
```

Creating Associations graph... DONE!

Report GC_SweetViz.html was generated! NOTEBOOK/COLAB USERS: no browser will pop up, the report is saved in your notebook/colab files.



```
In [15]: #Package 3: dtale  
!pip install --upgrade dtale
```


Collecting dtale

Downloading dtale-1.11.0-py2.py3-none-any.whl (7.6 MB)

Requirement already satisfied, skipping upgrade: future>=0.14.0 in c:\users\yvkch\anaconda4\lib\site-packages (from dtale) (0.18.2)

Requirement already satisfied, skipping upgrade: statsmodels in c:\users\yvkch\anaconda4\lib\site-packages (from dtale) (0.11.0)

Requirement already satisfied, skipping upgrade: requests in c:\users\yvkch\anaconda4\lib\site-packages (from dtale) (2.22.0)

Requirement already satisfied, skipping upgrade: scikit-learn>='0.21.0 in c:\users\yvkch\anaconda4\lib\site-packages (from dtale) (0.22)

Collecting dash-colorscales

Downloading dash-colorscales-0.0.4.tar.gz (62 kB)

Requirement already satisfied, skipping upgrade: Flask>=1.0 in c:\users\yvkch\anaconda4\lib\site-packages (from dtale) (1.1.1)

Collecting dash-bootstrap-components

Downloading dash-bootstrap-components-0.10.3.tar.gz (107 kB)

Installing build dependencies: started

Installing build dependencies: finished with status 'done'

Getting requirements to build wheel: started

Getting requirements to build wheel: finished with status 'done'

Preparing wheel metadata: started

Preparing wheel metadata: finished with status 'done'

Requirement already satisfied, skipping upgrade: pandas in c:\users\yvkch\anaconda4\lib\site-packages (from dtale) (1.0.5)

Requirement already satisfied, skipping upgrade: scipy in c:\users\yvkch\anaconda4\lib\site-packages (from dtale) (1.4.1)

Collecting lz4; python_version > "3.0"

Downloading lz4-3.1.0-cp37-cp37m-win_amd64.whl (162 kB)

Collecting dash>=1.5.0

Downloading dash-1.14.0.tar.gz (70 kB)

Collecting xarray

Downloading xarray-0.16.0-py3-none-any.whl (704 kB)

Collecting Flask-Compress

Downloading Flask-Compress-1.5.0.tar.gz (6.5 kB)

Collecting dash-daq

Downloading dash-daq-0.5.0.tar.gz (642 kB)

Requirement already satisfied, skipping upgrade: itsdangerous in c:\users\yvkch\anaconda4\lib\site-packages (from dtale) (1.1.0)

Requirement already satisfied, skipping upgrade: six in c:\users\yvkch\anaconda4\lib\site-packages (from dtale) (1.14.0)

Collecting flask-ngrok; python_version > "3.0"

Downloading flask-ngrok-0.0.25-py3-none-any.whl (3.1 kB)

Requirement already satisfied, skipping upgrade: numpy>=1.14 in c:\users\yvkch\anaconda4\lib\site-packages (from statsmodels->dtale) (1.18.1)

Requirement already satisfied, skipping upgrade: patsy>=0.5 in c:\users\yvkch\anaconda4\lib\site-packages (from statsmodels->dtale) (0.5.1)

Requirement already satisfied, skipping upgrade: chardet<3.1.0,>=3.0.2 in c:\users\yvkch\anaconda4\lib\site-packages (from requests->dtale) (3.0.4)

Requirement already satisfied, skipping upgrade: idna<2.9,>=2.5 in c:\users\yvkch\anaconda4\lib\site-packages (from requests->dtale) (2.8)

Requirement already satisfied, skipping upgrade: urllib3!=1.25.0,!>=1.25.1,<1.26,>=1.21.1 in c:\users\yvkch\anaconda4\lib\site-packages (from requests->dtale) (1.25.8)

Requirement already satisfied, skipping upgrade: certifi>=2017.4.17 in c:\users\yvkch\anaconda4\lib\site-packages (from requests->dtale) (2019.11.28)

Requirement already satisfied, skipping upgrade: joblib>=0.11 in c:\users\yvkch\anaconda4\lib\site-packages (from scikit-learn>='0.21.0->dtale) (0.14.1)

```

Requirement already satisfied, skipping upgrade: Werkzeug>=0.15 in c:\users\yvkch\anaconda4\lib\site-packages (from Flask>=1.0->dtale) (1.0.0)
Requirement already satisfied, skipping upgrade: Jinja2>=2.10.1 in c:\users\yvkch\anaconda4\lib\site-packages (from Flask>=1.0->dtale) (2.11.1)
Requirement already satisfied, skipping upgrade: click>=5.1 in c:\users\yvkch\anaconda4\lib\site-packages (from Flask>=1.0->dtale) (7.0)
Requirement already satisfied, skipping upgrade: pytz>=2017.2 in c:\users\yvkch\anaconda4\lib\site-packages (from pandas->dtale) (2019.3)
Requirement already satisfied, skipping upgrade: python-dateutil>=2.6.1 in c:\users\yvkch\anaconda4\lib\site-packages (from pandas->dtale) (2.8.1)
Requirement already satisfied, skipping upgrade: plotly in c:\users\yvkch\anaconda4\lib\site-packages (from dash>=1.5.0->dtale) (4.4.1)
Collecting dash_renderer==1.6.0
  Downloading dash_renderer-1.6.0.tar.gz (1.2 MB)
Collecting dash-core-components==1.10.2
  Downloading dash_core_components-1.10.2.tar.gz (3.4 MB)
Collecting dash-html-components==1.0.3
  Downloading dash_html_components-1.0.3.tar.gz (187 kB)
Collecting dash-table==4.9.0
  Downloading dash_table-4.9.0.tar.gz (1.8 MB)
Requirement already satisfied, skipping upgrade: setuptools>=41.2 in c:\users\yvkch\anaconda4\lib\site-packages (from xarray->dtale) (45.2.0.post20200210)
Collecting brotli
  Downloading Brotli-1.0.7-cp37-cp37m-win_amd64.whl (358 kB)
Requirement already satisfied, skipping upgrade: MarkupSafe>=0.23 in c:\users\yvkch\anaconda4\lib\site-packages (from Jinja2>=2.10.1->Flask>=1.0->dtale) (1.1.1)
Requirement already satisfied, skipping upgrade: retrying>=1.3.3 in c:\users\yvkch\anaconda4\lib\site-packages (from plotly->dash>=1.5.0->dtale) (1.3.3)
Building wheels for collected packages: dash-colorscales, dash-bootstrap-components, dash, Flask-Compress, dash-daq, dash-renderer, dash-core-components, dash-html-components, dash-table
  Building wheel for dash-colorscales (setup.py): started
  Building wheel for dash-colorscales (setup.py): finished with status 'done'
  Created wheel for dash-colorscales: filename=dash_colorscales-0.0.4-py3-none-any.whl size=62603 sha256=74b45e8c424b24a437f66fffb1c1341c9f8c4bd5b5a09d2550803ff6fd8fd4e4
  Stored in directory: c:\users\yvkch\appdata\local\pip\cache\wheels\2f\22\7e\183ba2af565e3eb955021fbb4fe8fe4a6b1ed8ae3e5c03236a
  Building wheel for dash-bootstrap-components (PEP 517): started
  Building wheel for dash-bootstrap-components (PEP 517): finished with status 'done'
  Created wheel for dash-bootstrap-components: filename=dash_bootstrap_components-0.10.3-py3-none-any.whl size=179491 sha256=696a9591c162b1a6a9d3952b7942864ede2d35196bd6f5a25a35fea4cf644614
  Stored in directory: c:\users\yvkch\appdata\local\pip\cache\wheels\7d\ea7\ea6\225ffdad437ee57f52b2d437c716f27edfe277236c7b860b7e
  Building wheel for dash (setup.py): started
  Building wheel for dash (setup.py): finished with status 'done'
  Created wheel for dash: filename=dash-1.14.0-py3-none-any.whl size=80132 sha256=e583fffd8bab85e00a88768dad9c50b4d82e266568e29140e1f095bb4788f7a72
  Stored in directory: c:\users\yvkch\appdata\local\pip\cache\wheels\77\53\27\031b701ce8077990289c07ea1298e5a217fab3a4639b168856
  Building wheel for Flask-Compress (setup.py): started
  Building wheel for Flask-Compress (setup.py): finished with status 'done'
  Created wheel for Flask-Compress: filename=Flask_Compress-1.5.0-py3-none-any.whl size=5277 sha256=6a2b450cd3baabb8a63a5e2051cc81e2137e7d76c73dfde2097169

```

7b104ad005

Stored in directory: c:\users\yvkch\appdata\local\pip\cache\wheels\d6\9f\c9
 \4bf2abf65ccea8d19423bc34b88443b3b063f167d2082c212

Building wheel for dash-daq (setup.py): started

Building wheel for dash-daq (setup.py): finished with status 'done'

Created wheel for dash-daq: filename=dash_daq-0.5.0-py3-none-any.whl size=6
 69707 sha256=6711d311850971a811e4cf77fa8acb0e004b8ab571ac82a4e5de9fad22283765

Stored in directory: c:\users\yvkch\appdata\local\pip\cache\wheels\fe\54\53
 \a8d448db5592874db4313240571ca2c069e55f6a6b29bf5847

Building wheel for dash-renderer (setup.py): started

Building wheel for dash-renderer (setup.py): finished with status 'done'

Created wheel for dash-renderer: filename=dash_renderer-1.6.0-py3-none-any.
 whl size=1182223 sha256=16e65f10c3c6e67fe33fc2aaf3e0e2f241cdbf09063b2bd11831f
 91d2c27d802

Stored in directory: c:\users\yvkch\appdata\local\pip\cache\wheels\37\31\d9
 \3b53bbe9389c1ff7b0ac2ec25e811cf2303009e426243eaf61

Building wheel for dash-core-components (setup.py): started

Building wheel for dash-core-components (setup.py): finished with status 'd
 one'

Created wheel for dash-core-components: filename=dash_core_components-1.10.
 2-py3-none-any.whl size=3457327 sha256=c2876ddb2f9cd6e16f7eace017da33597b1e6
 30a7c6f9fbca4ad933f8c4c84c

Stored in directory: c:\users\yvkch\appdata\local\pip\cache\wheels\17\97\01
 \848073c7de32c1381023e5cf42d66ce4d6aa1608dbb93a983a

Building wheel for dash-html-components (setup.py): started

Building wheel for dash-html-components (setup.py): finished with status 'd
 one'

Created wheel for dash-html-components: filename=dash_html_components-1.0.3
 -py3-none-any.whl size=427310 sha256=4f8c2984c2d6b55629b5627a4b65476bed8a58ef
 f755cb3c4a98fb8b02718e3a

Stored in directory: c:\users\yvkch\appdata\local\pip\cache\wheels\36\34\f9
 \c3d147461b28467d5bbd14d255be66f6728a1580ff9f9bebece

Building wheel for dash-table (setup.py): started

Building wheel for dash-table (setup.py): finished with status 'done'

Created wheel for dash-table: filename=dash_table-4.9.0-py3-none-any.whl si
 ze=1780771 sha256=89395d4c5b4b45b7bc254f06003e14c6139d02da78b26b1c8c94bc54844
 4e88c

Stored in directory: c:\users\yvkch\appdata\local\pip\cache\wheels\44\aa\7a
 \73ca1e791ccd10a7f9863fbcf7266f5f6dc1a69aedf045a3c8

Successfully built dash-colorscales dash-bootstrap-components dash Flask-Comp
 ress dash-daq dash-renderer dash-core-components dash-html-components dash-ta
 ble




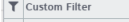
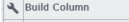
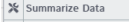
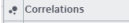
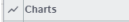
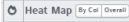
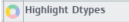
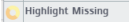

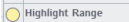




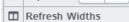
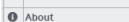
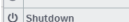
Installing collected packages: dash-colorscales, brotli, Flask-Compress, dash
 -renderer, dash-core-components, dash-html-components, dash-table, dash, dash
 -bootstrap-components, lz4, xarray, dash-daq, flask-ngrok, dtale

Successfully installed Flask-Compress-1.5.0 brotli-1.0.7 dash-1.14.0 dash-boo
 tstrap-components-0.10.3 dash-colorscales-0.0.4 dash-core-components-1.10.2 d
 ash-daq-0.5.0 dash-html-components-1.0.3 dash-renderer-1.6.0 dash-table-4.9.0
 dtale-1.11.0 flask-ngrok-0.0.25 lz4-3.1.0 xarray-0.16.0

```
In [17]: import dtale
import pandas as pd
df = pd.read_csv('German_Credit.csv')

#Creation of report with dtale and opening in new browser
d = dtale.show(df)
d.open_browser()

#The report produced by dtales will give you an optin to plot, filter, and all
variations of univariate statistics
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	32	ID	CHK_ACCT	DURATION	HISTORY	NEW_CAR	USED_CAR	FURNITURE	RADIO/TV	EDUCATION	RETRAINING	AMOUNT	SAV_ACCT	EMPLOYMENT	INSTALL_RATE	MALE_DIV	MALE_SINGLE	MALE_MAR_or_WID	CO-APPLICANT	GUARANT
		0	6	4	nan	nan	nan	1.00	nan	nan	nan	1169	4	4	4	0	1	0	0	
		1	48	2	nan	nan	nan	1.00	nan	nan	nan	5951	0	2	2	0	0	0	0	
		3	12	4	nan	nan	nan	nan	1.00	nan	nan	2096	0	3	2	0	1	0	0	
		0	42	2	nan	nan	1.00	nan	nan	nan	nan	7882	0	3	2	0	1	0	0	
		0	24	3	1.00	nan	nan	nan	nan	nan	nan	4870	0	2	3	0	1	0	0	
		3	36	2	nan	nan	nan	nan	1.00	nan	nan	9000	4	2	2	0	1	0	0	
		3	24	2	nan	nan	1.00	nan	nan	nan	nan	2835	2	4	3	0	1	0	0	
		1	36	2	nan	1.00	nan	nan	nan	nan	nan	6948	0	2	2	0	1	0	0	
		3	12	2	nan	nan	nan	1.00	nan	nan	nan	3059	3	3	2	1	0	0	0	
		1	30	4	1.00	nan	nan	nan	nan	nan	nan	5234	0	0	4	0	0	1	0	
		1	12	2	1.00	nan	nan	nan	nan	nan	nan	1295	0	1	3	0	0	0	0	
		0	48	2	nan	nan	nan	nan	1.00	nan	nan	4308	0	1	3	0	0	0	0	
					nan	nan	nan	1.00	nan	nan	nan	1567	0	2	1	0	0	0	0	
					nan	nan	nan	nan	nan	nan	nan	1199	0	4	4	0	1	0	0	
					nan	nan	nan	nan	nan	nan	nan	1400	0	2	2	0	0	0	0	
					nan	nan	1.00	nan	nan	nan	nan	1282	1	2	4	0	0	0	0	
					nan	nan	nan	nan	1.00	nan	nan	2424	4	4	4	0	1	0	0	
					1.00	nan	nan	nan	nan	nan	nan	8070	4	1	2	0	1	0	0	
		3	9	4	1.00	nan	nan	nan	nan	nan	nan	12579	0	4	4	0	0	0	0	
		0	6	2	nan	nan	nan	1.00	nan	nan	nan	3430	2	4	3	0	1	0	0	
	22	23	0	10	4	1.00	nan	nan	nan	nan	nan	2134	0	2	4	0	1	0	0	
	23	24	1	12	4	nan	1.00	nan	nan	nan	nan	2651	2	2	2	0	1	0	0	
	24	25	3	10	4	nan	nan	1.00	nan	nan	nan	2241	0	1	1	0	1	0	0	
	25	26	0	6	2	nan	nan	1.00	nan	nan	nan	1804	1	1	3	0	1	0	0	
	26	27	3	6	0	nan	nan	nan	1.00	nan	nan	2069	4	2	2	0	0	1	0	
												1374	0	2	1	0	1	0	0	
												426	0	4	4	0	0	1	0	

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In [ ]:
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