Идеи

- Есть наны
  - □ выбросить строки с нанами
  - □ запонлнить наны: street - ближайшими (соседями)

```
pip install -U dataprep
```

```
Requirement already satisfied: pygments in /usr/local/lib/python3.7/dist-packages (from ipython>=4.0.0->ipywidgets<8.0,>=7.5->dataprep) (2.6.1)
Requirement already satisfied: simplegeneric>0.8 in /usr/local/lib/python3.7/dist-packages (from ipython>=4.0.0->ipywidgets<8.0,>=7.5->dataprep)
Requirement already satisfied: pexpect in /usr/local/lib/python3.7/dist-packages (from ipython>=4.0.0->ipywidgets<8.0,>=7.5->dataprep) (4.8.0)
Requirement already satisfied: setuptools>=18.5 in /usr/local/lib/python3.7/dist-packages (from ipython>=4.0.0->ipywidgets<8.0,>=7.5->dataprep) (
Requirement already satisfied: decorator in /usr/local/lib/python3.7/dist-packages (from ipython>=4.0.0->ipywidgets<8.0,>=7.5->dataprep) (4.4.2)
Requirement already satisfied: pickleshare in /usr/local/lib/python3.7/dist-packages (from ipython>=4.0.0->ipywidgets<8.0,>=7.5->dataprep) (0.7.5
Requirement already satisfied: MarkupSafe>=0.23 in /usr/local/lib/python3.7/dist-packages (from jinja2<3.0,>=2.11->dataprep) (2.0.1)
Collecting ply
  Downloading ply-3.11-py2.py3-none-any.whl (49 kB)
     |████████████████████████████████| 49 kB 5.5 MB/s
Requirement already satisfied: six in /usr/local/lib/python3.7/dist-packages (from jsonpath-ng<2.0,>=1.5->dataprep) (1.15.0)
Requirement already satisfied: jsonschema!=2.5.0,>=2.4 in /usr/local/lib/python3.7/dist-packages (from nbformat>=4.2.0->ipywidgets<8.0,>=7.5->dat
Requirement already satisfied: jupyter-core in /usr/local/lib/python3.7/dist-packages (from nbformat>=4.2.0->ipywidgets<8.0,>=7.5->dataprep) (4.7
Requirement already satisfied: click in /usr/local/lib/python3.7/dist-packages (from nltk<4.0,>=3.5->dataprep) (7.1.2)
Requirement already satisfied: joblib in /usr/local/lib/python3.7/dist-packages (from nltk<4.0,>=3.5->dataprep) (1.0.1)
Requirement already satisfied: pyparsing>=2.0.2 in /usr/local/lib/python3.7/dist-packages (from packaging>=16.8->bokeh<3,>=2->dataprep) (2.4.7)
Requirement already satisfied: pytz>=2017.2 in /usr/local/lib/python3.7/dist-packages (from pandas<2.0,>=1.1->dataprep) (2018.9)
Collecting locket
  Downloading locket-0.2.1-py2.py3-none-any.whl (4.1 kB)
Requirement already satisfied: wcwidth in /usr/local/lib/python3.7/dist-packages (from prompt-toolkit<2.0.0,>=1.0.4->ipython>=4.0.0->ipywidgets<8
Collecting python-crfsuite>=0.7
  Downloading python_crfsuite-0.9.7-cp37-cp37m-manylinux1_x86_64.whl (743 kB)
     |████████████████████████████████| 743 kB 58.6 MB/s
Requirement already satisfied: future>=0.14 in /usr/local/lib/python3.7/dist-packages (from usaddress<0.6.0,>=0.5.10->dataprep) (0.16.0)
Collecting probableparsing
  Downloading probableparsing-0.0.1-py2.py3-none-any.whl (3.1 kB)
Requirement already satisfied: notebook>=4.4.1 in /usr/local/lib/python3.7/dist-packages (from widgetsnbextension~=3.5.0->ipywidgets<8.0,>=7.5->d
Requirement already satisfied: terminado>=0.8.1 in /usr/local/lib/python3.7/dist-packages (from notebook>=4.4.1->widgetsnbextension~=3.5.0->ipywi
Requirement already satisfied: Send2Trash in /usr/local/lib/python3.7/dist-packages (from notebook>=4.4.1->widgetsnbextension~=3.5.0->ipywidgets<
Requirement already satisfied: nbconvert in /usr/local/lib/python3.7/dist-packages (from notebook>=4.4.1->widgetsnbextension~=3.5.0->ipywidgets<8
Requirement already satisfied: pyzmq>=13 in /usr/local/lib/python3.7/dist-packages (from jupyter-client->ipykernel>=4.5.1->ipywidgets<8.0,>=7.5->
Requirement already satisfied: ptyprocess in /usr/local/lib/python3.7/dist-packages (from terminado>=0.8.1->notebook>=4.4.1->widgetsnbextension~=
Requirement already satisfied: matplotlib in /usr/local/lib/python3.7/dist-packages (from wordcloud<2.0,>=1.8->dataprep) (3.2.2)
Requirement already satisfied: idna>=2.0 in /usr/local/lib/python3.7/dist-packages (from yarl<2.0,>=1.0->aiohttp<4.0,>=3.6->dataprep) (2.10)
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.7/dist-packages (from matplotlib->wordcloud<2.0,>=1.8->dataprep) (1.3
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.7/dist-packages (from matplotlib->wordcloud<2.0,>=1.8->dataprep) (0.10.0)
Requirement already satisfied: entrypoints>=0.2.2 in /usr/local/lib/python3.7/dist-packages (from nbconvert->notebook>=4.4.1->widgetsnbextension~
Requirement already satisfied: testpath in /usr/local/lib/python3.7/dist-packages (from nbconvert->notebook>=4.4.1->widgetsnbextension~=3.5.0->ip
Requirement already satisfied: pandocfilters>=1.4.1 in /usr/local/lib/python3.7/dist-packages (from nbconvert->notebook>=4.4.1->widgetsnbextensic
Requirement already satisfied: mistune<2,>=0.8.1 in /usr/local/lib/python3.7/dist-packages (from nbconvert->notebook>=4.4.1->widgetsnbextension~=
Requirement already satisfied: defusedxml in /usr/local/lib/python3.7/dist-packages (from nbconvert->notebook>=4.4.1->widgetsnbextension~=3.5.0->
Requirement already satisfied: bleach in /usr/local/lib/python3.7/dist-packages (from nbconvert->notebook>=4.4.1->widgetsnbextension~=3.5.0->ipyw
Requirement already satisfied: webencodings in /usr/local/lib/python3.7/dist-packages (from bleach->nbconvert->notebook>=4.4.1->widgetsnbextensic
Building wheels for collected packages: metaphone, python-Levenshtein
  Building wheel for metaphone (setup.py) ... done
  Created wheel for metaphone: filename=Metaphone-0.6-py3-none-any.whl size=13919 sha256=bd90eef3f0379dc261146a59af3e3a14791a41f1d2760dadced40cd7
  Stored in directory: /root/.cache/pip/wheels/1d/a8/cb/6f8902aa5457bd71344e00665c230e9c45255b3f57f2194a0f
  Building wheel for python-Levenshtein (setup.py) ... done
  Created wheel for python-Levenshtein: filename=python_Levenshtein-0.12.2-cp37-cp37m-linux_x86_64.whl size=149868 sha256=152abf514547a022b058d21
  Stored in directory: /root/.cache/pip/wheels/05/5f/ca/7c4367734892581bb5ff896f15027a932c551080b2abd3e00d
Successfully built metaphone python-Levenshtein
Installing collected packages: multidict, locket, yarl, regex, python-crfsuite, probableparsing, ply, partd, fsspec, dask, async-timeout, wordclo
  Attempting uninstall: regex
    Found existing installation: regex 2019.12.20
    Uninstalling regex-2019.12.20:
      Successfully uninstalled regex-2019.12.20
  Attempting uninstall: dask
    Found existing installation: dask 2.12.0
    Uninstalling dask-2.12.0:
```

```
import pandas as pd
import numpy as np
import os
import missingno as msno
from dataprep.eda import plot, plot_correlation, create_report, plot_missing
```

```
NumExpr defaulting to 2 threads.
```

```
from google.colab import drive

drive.mount('/content/gdrive')
```

```
Mounted at /content/gdrive
```

```
from google.colab import drive
drive.mount('/content/drive')
```

```
Mounted at /content/drive
```

```
path = 'drive/MyDrive/data/raifhack'
```

```
df = pd.read_csv(os.path.join(path, 'train.csv'))
```

```
/usr/local/lib/python3.7/dist-packages/IPython/core/interactiveshell.py:2718: DtypeWarning: Columns (1) have mixed types.Specify dtype option on im
  interactivity=interactivity, compiler=compiler, result=result)
```

```
df.shape
```

```
(279792, 77)
```

```
df.head()
```

	city	floor	id	lat	lng	osm_amenity_points_in_0.001	osm_amenity_points_in_
0	Пермь	NaN	COL_0	57.998207	56.292797	4	
1	Шатура	NaN	COL_1	55.574284	39.543835	3	
2	Ярославль	NaN	COL_2	57.619140	39.850525	1	
3	Новокузнецк	NaN	COL_3	53.897083	87.108604	0	
4	Москва	NaN	COL_4	55.802590	37.487110	1	

```
df.columns
```

```
Index(['city', 'floor', 'id', 'lat', 'lng', 'osm_amenity_points_in_0.001',
       'osm_amenity_points_in_0.005', 'osm_amenity_points_in_0.0075',
       'osm_amenity_points_in_0.01', 'osm_building_points_in_0.001',
       'osm_building_points_in_0.005', 'osm_building_points_in_0.0075',
       'osm_building_points_in_0.01', 'osm_catering_points_in_0.001',
       'osm_catering_points_in_0.005', 'osm_catering_points_in_0.0075',
       'osm_catering_points_in_0.01', 'osm_city_closest_dist',
       'osm_city_nearest_name', 'osm_city_nearest_population',
       'osm_crossing_closest_dist', 'osm_crossing_points_in_0.001',
       'osm_crossing_points_in_0.005', 'osm_crossing_points_in_0.0075',
       'osm_crossing_points_in_0.01', 'osm_culture_points_in_0.001',
       'osm_culture_points_in_0.005', 'osm_culture_points_in_0.0075',
       'osm_culture_points_in_0.01', 'osm_finance_points_in_0.001',
       'osm_finance_points_in_0.005', 'osm_finance_points_in_0.0075',
       'osm_finance_points_in_0.01', 'osm_healthcare_points_in_0.005',
       'osm_healthcare_points_in_0.0075', 'osm_healthcare_points_in_0.01',
       'osm_historic_points_in_0.005', 'osm_historic_points_in_0.0075',
       'osm_historic_points_in_0.01', 'osm_hotels_points_in_0.005',
       'osm_hotels_points_in_0.0075', 'osm_hotels_points_in_0.01',
       'osm_leisure_points_in_0.005', 'osm_leisure_points_in_0.0075',
       'osm_leisure_points_in_0.01', 'osm_offices_points_in_0.001',
       'osm_offices_points_in_0.005', 'osm_offices_points_in_0.0075',
       'osm_offices_points_in_0.01', 'osm_shops_points_in_0.001',
       'osm_shops_points_in_0.005', 'osm_shops_points_in_0.0075',
       'osm_shops_points_in_0.01', 'osm_subway_closest_dist',
       'osm_train_stop_closest_dist', 'osm_train_stop_points_in_0.005',
       'osm_train_stop_points_in_0.0075', 'osm_train_stop_points_in_0.01',
       'osm_transport_stop_closest_dist', 'osm_transport_stop_points_in_0.005',
       'osm_transport_stop_points_in_0.0075',
       'osm_transport_stop_points_in_0.01', 'per_square_meter_price',
       'reform_count_of_houses_1000', 'reform_count_of_houses_500',
       'reform_house_population_1000', 'reform_house_population_500',
       'reform_mean_floor_count_1000', 'reform_mean_floor_count_500',
       'reform_mean_year_building_1000', 'reform_mean_year_building_500',
       'region', 'total_square', 'street', 'date', 'realty_type',
       'price_type'],
      dtype='object')
```

```
df.info()
```

```
 16  osm_catering_points_in_0.01         279792 non-null  int64
 17  osm_city_closest_dist               279792 non-null  float64
 18  osm_city_nearest_name               279792 non-null  object
 19  osm_city_nearest_population         279737 non-null  float64
 20  osm_crossing_closest_dist           279792 non-null  float64
 21  osm_crossing_points_in_0.001        279792 non-null  int64
 22  osm_crossing_points_in_0.005        279792 non-null  int64
 23  osm_crossing_points_in_0.0075       279792 non-null  int64
 24  osm_crossing_points_in_0.01         279792 non-null  int64
 25  osm_culture_points_in_0.001         279792 non-null  int64
 26  osm_culture_points_in_0.005         279792 non-null  int64
 27  osm_culture_points_in_0.0075        279792 non-null  int64
 28  osm_culture_points_in_0.01          279792 non-null  int64
 29  osm_finance_points_in_0.001         279792 non-null  int64
 30  osm_finance_points_in_0.005         279792 non-null  int64
 31  osm_finance_points_in_0.0075        279792 non-null  int64
 32  osm_finance_points_in_0.01          279792 non-null  int64
 33  osm_healthcare_points_in_0.005      279792 non-null  int64
 34  osm_healthcare_points_in_0.0075     279792 non-null  int64
 35  osm_healthcare_points_in_0.01       279792 non-null  int64
 36  osm_historic_points_in_0.005        279792 non-null  int64
 37  osm_historic_points_in_0.0075       279792 non-null  int64
 38  osm_historic_points_in_0.01         279792 non-null  int64
 39  osm_hotels_points_in_0.005          279792 non-null  int64
 40  osm_hotels_points_in_0.0075         279792 non-null  int64
 41  osm_hotels_points_in_0.01           279792 non-null  int64
 42  osm_leisure_points_in_0.005         279792 non-null  int64
 43  osm_leisure_points_in_0.0075        279792 non-null  int64
 44  osm_leisure_points_in_0.01           279792 non-null  int64  
 45  osm_offices_points_in_0.001          279792 non-null  int64  
 46  osm_offices_points_in_0.005          279792 non-null  int64  
 47  osm_offices_points_in_0.0075         279792 non-null  int64  
 48  osm_offices_points_in_0.01           279792 non-null  int64  
 49  osm_shops_points_in_0.001            279792 non-null  int64  
 50  osm_shops_points_in_0.005            279792 non-null  int64  
 51  osm_shops_points_in_0.0075           279792 non-null  int64  
 52  osm_shops_points_in_0.01             279792 non-null  int64  
 53  osm_subway_closest_dist              279792 non-null  float64
 54  osm_train_stop_closest_dist          279792 non-null  float64
 55  osm_train_stop_points_in_0.005       279792 non-null  int64  
 56  osm_train_stop_points_in_0.0075      279792 non-null  int64  
 57  osm_train_stop_points_in_0.01        279792 non-null  int64  
 58  osm_transport_stop_closest_dist      279792 non-null  float64
 59  osm_transport_stop_points_in_0.005   279792 non-null  int64  
 60  osm_transport_stop_points_in_0.0075  279792 non-null  int64  
 61  osm_transport_stop_points_in_0.01    279792 non-null  int64  
 62  per_square_meter_price               279792 non-null  float64
 63  reform_count_of_houses_1000          279792 non-null  int64  
 64  reform_count_of_houses_500           279792 non-null  int64  
 65  reform_house_population_1000         265196 non-null  float64
 66  reform_house_population_500          252558 non-null  float64
 67  reform_mean_floor_count_1000         263084 non-null  float64
 68  reform_mean_floor_count_500          249624 non-null  float64
 69  reform_mean_year_building_1000       263553 non-null  float64
 70  reform_mean_year_building_500        250155 non-null  float64
 71  region                               279792 non-null  object 
 72  total_square                         279792 non-null  float64
 73  street                               278186 non-null  object 
 74  date                                 279792 non-null  object 
```

Пропущенные значения

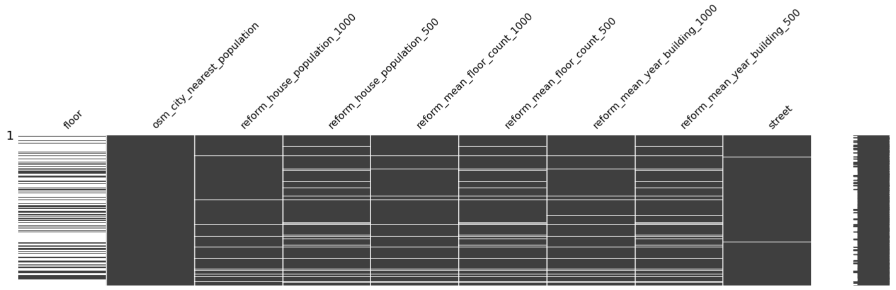
```
col_with_nan = []
ROW_NUM = df.shape[0]

for col in df.columns:
    if df[col].isna().sum() != 0:
        print(col, round(df[col].isna().sum() / ROW_NUM * 100, 2), '%')
        col_with_nan.append(col)

col_with_nan
```

```
floor 62.99 %
osm_city_nearest_population 0.02 %
reform_house_population_1000 5.22 %
reform_house_population_500 9.73 %
reform_mean_floor_count_1000 5.97 %
reform_mean_floor_count_500 10.78 %
reform_mean_year_building_1000 5.8 %
reform_mean_year_building_500 10.59 %
street 0.57 %
['floor',
 'osm_city_nearest_population',
 'reform_house_population_1000',
 'reform_house_population_500',
 'reform_mean_floor_count_1000',
 'reform_mean_floor_count_500',
 'reform_mean_year_building_1000',
 'reform_mean_year_building_500',
 'street']
```

```
msno.matrix(df[col_with_nan]);
```



osm_amenity_points_in_0.001 and osm_offices_points_in_0.005 have similar distributions Similar Distribution osm_amenity_points_in_0.0075 and osm_shops_points_in_0.01 have similar distributions Similar Distribution osm_building_points_in_0.001 and osm_culture_points_in_0.001 have similar distributions Similar Distribution osm_building_points_in_0.001 and osm_train_stop_points_in_0.005 have similar distributions Similar Distribution osm_building_points_in_0.005 and osm_catering_points_in_0.001 have similar distributions Similar Distribution osm_building_points_in_0.0075 and osm_culture_points_in_0.005 have similar distributions Similar Distribution osm_building_points_in_0.01 and osm_historic_points_in_0.005 have similar distributions Similar Distribution osm_building_points_in_0.01 and osm_hotels_points_in_0.0075 have similar distributions Similar Distribution osm_culture_points_in_0.001 and osm_train_stop_points_in_0.005 have similar distributions Similar Distribution osm_finance_points_in_0.005 and osm_shops_points_in_0.001 have similar distributions Similar Distribution osm_finance_points_in_0.01 and osm_offices_points_in_0.0075 have similar distributions Similar Distribution osm_healthcare_points_in_0.005 and osm_leisure_points_in_0.005 have similar distributions Similar Distribution osm_healthcare_points_in_0.0075 and osm_leisure_points_in_0.0075 have similar distributions Similar Distribution osm_historic_points_in_0.005 and osm_hotels_points_in_0.0075 have similar distributions Similar Distribution osm_historic_points_in_0.0075 and osm_offices_points_in_0.005 have similar distributions Similar Distribution floor has 176237 (62.99%) missing values Missing reform_house_population_1000 has 14596 (5.22%) missing values Missing reform_house_population_500 has 27234 (9.73%) missing values Missing reform_mean_floor_count_1000 has 16708 (5.97%) missing values Missing reform_mean_floor_count_500 has 30168 (10.78%) missing values Missing reform_mean_year_building_1000 has 16239 (5.8%) missing values Missing reform_mean_year_building_500 has 29637 (10.59%) missing values Missing ... city has a high cardinality: 4948 distinct values High Cardinality floor has a high cardinality: 168 distinct values High Cardinality id has a high cardinality: 279792 distinct values High Cardinality osm_city_nearest_name has a high cardinality: 170 distinct values High Cardinality street has a high cardinality: 28841 distinct values High Cardinality osm_finance_points_in_0.001 has constant length 1 Constant Length date has constant length 10 Constant Length price_type has constant length 1 Constant Length id has all distinct values Unique osm_amenity_points_in_0.001 has 108604 (38.82%) zeros Zeros osm_amenity_points_in_0.005 has 17440 (6.23%) zeros Zeros osm_building_points_in_0.001 has 273479 (97.74%) zeros Zeros osm_building_points_in_0.005 has 220224 (78.71%) zeros Zeros osm_building_points_in_0.0075 has 188937 (67.53%) zeros Zeros osm_building_points_in_0.01 has 164807 (58.9%) zeros Zeros osm_catering_points_in_0.001 has 211258 (75.51%) zeros Zeros osm_catering_points_in_0.005 has 78425 (28.03%) zeros Zeros osm_catering_points_in_0.0075 has 51340 (18.35%) zeros Zeros osm_catering_points_in_0.01 has 37470 (13.39%) zeros Zeros osm_crossing_points_in_0.001 has 189497 (67.73%) zeros Zeros osm_crossing_points_in_0.005 has 39970 (14.29%) zeros Zeros osm_crossing_points_in_0.0075 has 24759 (8.85%) zeros Zeros osm_crossing_points_in_0.01 has 18199 (6.5%) zeros Zeros osm_culture_points_in_0.001 has 265293 (94.82%) zeros Zeros osm_culture_points_in_0.005 has 184687 (66.01%) zeros Zeros osm_culture_points_in_0.0075 has 146406 (52.33%) zeros Zeros osm_culture_points_in_0.01 has 119092 (42.56%) zeros Zeros osm_finance_points_in_0.005 has 133318 (47.65%) zeros Zeros osm_finance_points_in_0.0075 has 92889 (33.2%) zeros Zeros osm_finance_points_in_0.01 has 69505 (24.84%) zeros Zeros osm_healthcare_points_in_0.005 has 122621 (43.83%) zeros Zeros osm_healthcare_points_in_0.0075 has 83430 (29.82%) zeros Zeros osm_healthcare_points_in_0.01 has 62656 (22.39%) zeros Zeros osm_historic_points_in_0.005 has 162419 (58.05%) zeros Zeros osm_historic_points_in_0.0075 has 118207 (42.25%) zeros Zeros osm_historic_points_in_0.01 has 87518 (31.28%) zeros Zeros osm_hotels_points_in_0.005 has 191803 (68.55%) zeros Zeros osm_hotels_points_in_0.0075 has 154338 (55.16%) zeros Zeros osm_hotels_points_in_0.01 has 127295 (45.5%) zeros Zeros osm_leisure_points_in_0.005 has 122645 (43.83%) zeros Zeros osm_leisure_points_in_0.0075 has 82366 (29.44%) zeros Zeros osm_leisure_points_in_0.01 has 60814 (21.74%) zeros Zeros osm_offices_points_in_0.001 has 237130 (84.75%) zeros Zeros osm_offices_points_in_0.005 has 111467 (39.84%) zeros Zeros osm_offices_points_in_0.0075 has 76352 (27.29%) zeros Zeros osm_offices_points_in_0.01 has 56099 (20.05%) zeros Zeros osm_shops_points_in_0.001 has 138828 (49.62%) zeros Zeros osm_shops_points_in_0.005 has 26979 (9.64%) zeros Zeros osm_shops_points_in_0.0075 has 17337 (6.2%) zeros Zeros osm_train_stop_points_in_0.005 has 269647 (96.37%) zeros Zeros osm_train_stop_points_in_0.0075 has 258422 (92.36%) zeros Zeros osm_train_stop_points_in_0.01 has 243840 (87.15%) zeros Zeros osm_transport_stop_points_in_0.005 has 40729 (14.56%) zeros Zeros osm_transport_stop_points_in_0.0075 has 23541 (8.41%) zeros Zeros osm_transport_stop_points_in_0.01 has 17247 (6.16%) zeros Zeros reform_count_of_houses_1000 has 14596 (5.22%) zeros Zeros reform_count_of_houses_500 has 27234 (9.73%) zeros Zeros

```
plot(df)
```

Hide Stats and Insights

Dataset Statistics

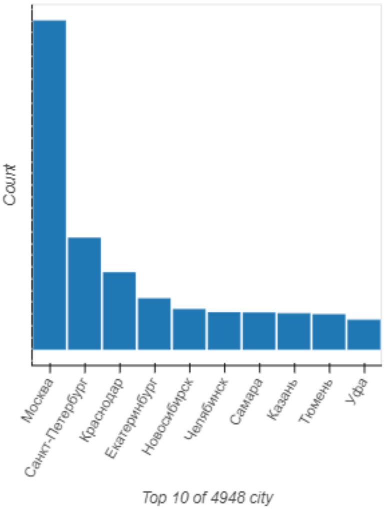
Number of Variables	77
Number of Rows	279792
Missing Cells	312480
Missing Cells (%)	1.5%
Duplicate Rows	0
Duplicate Rows (%)	0.0%
Total Size in Memory	313.8 MB
Average Row Size in Memory	1.1 KB
Variable Types	Categorical: 10 Numerical: 67

Dataset Insights

`reform_count_o…` has 27234 (9.73%) zeros Zeros

10 11 12 13 14

city



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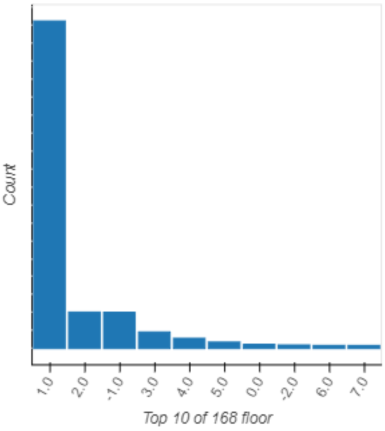

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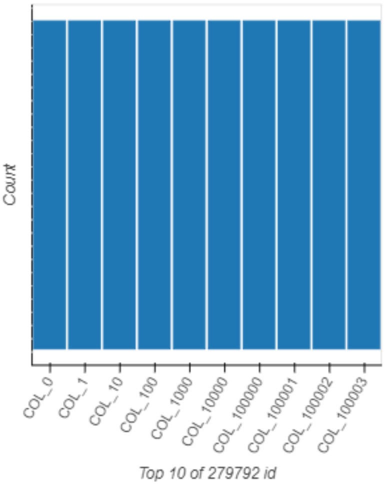

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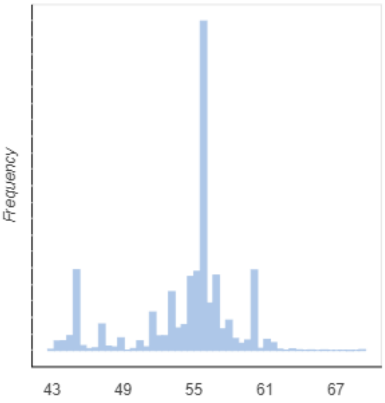

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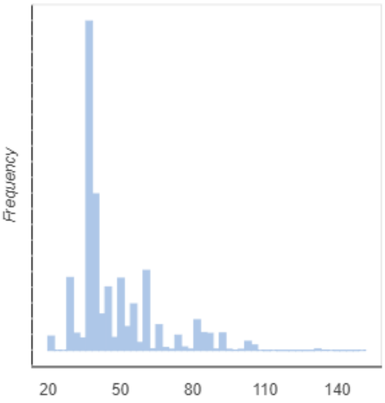

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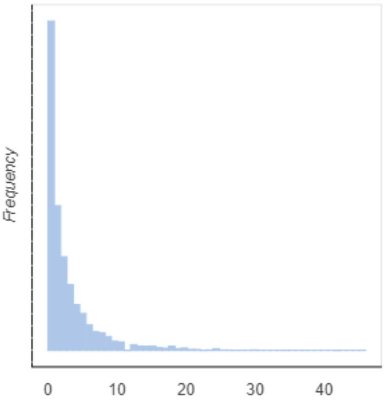

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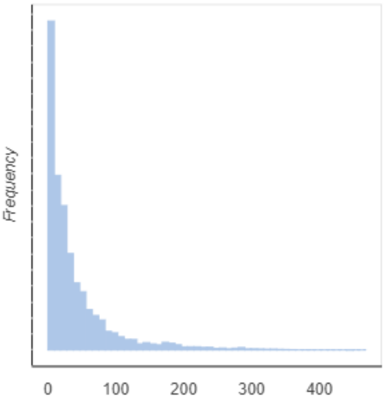

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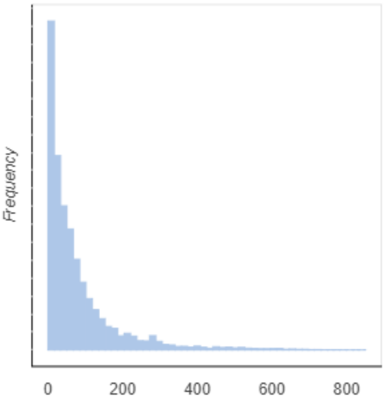

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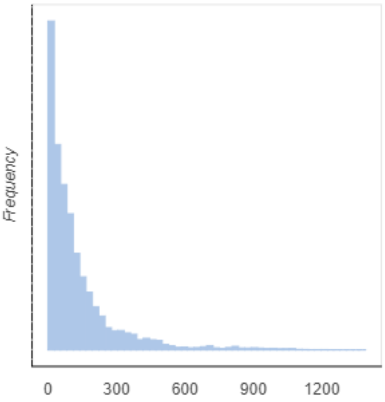

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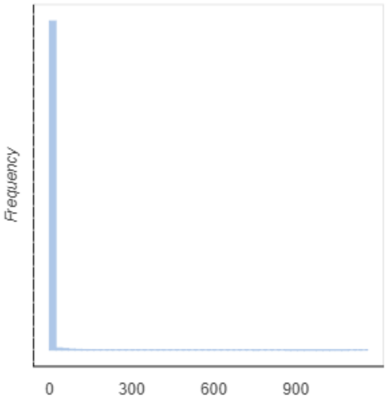

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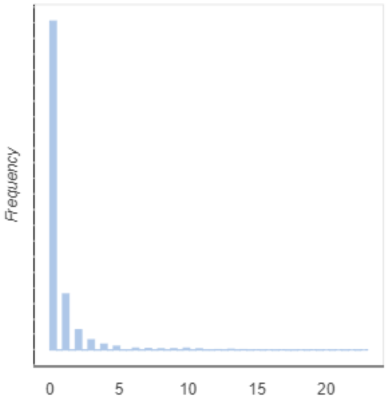

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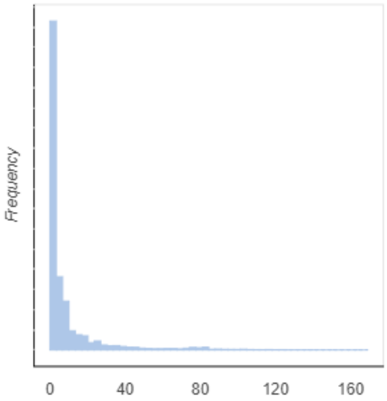

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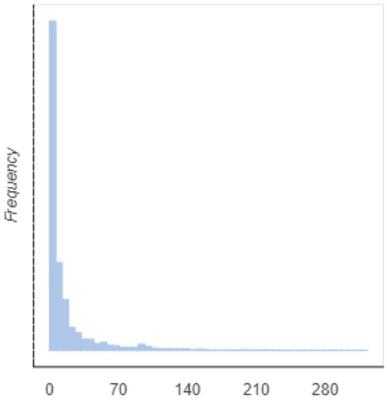

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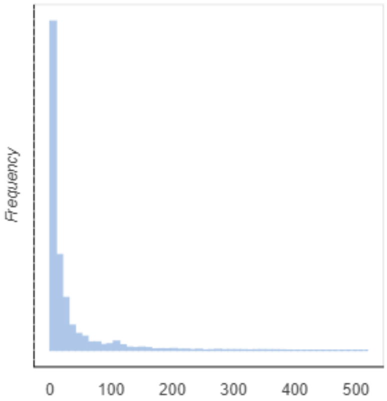
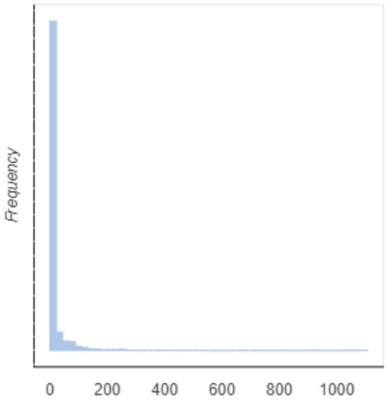


osm_city_closest_dist



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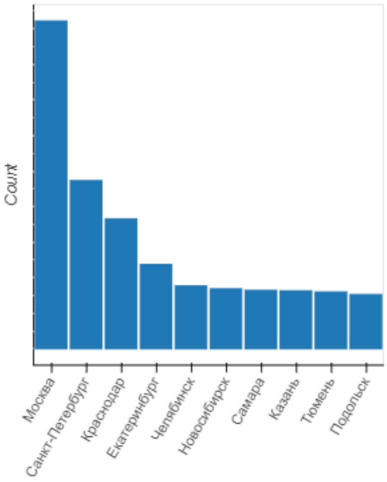
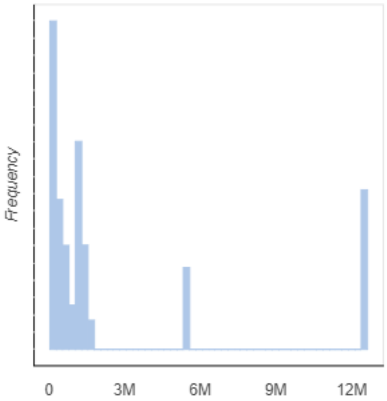


Top 10 of 170 osm_city_nearest_name

osm_city_nearest_population



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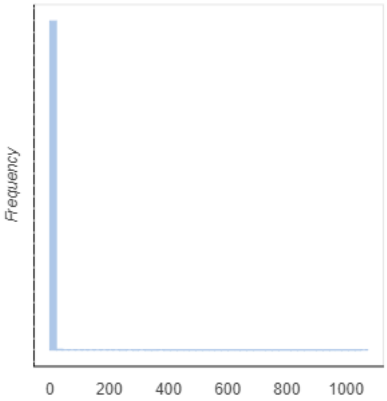

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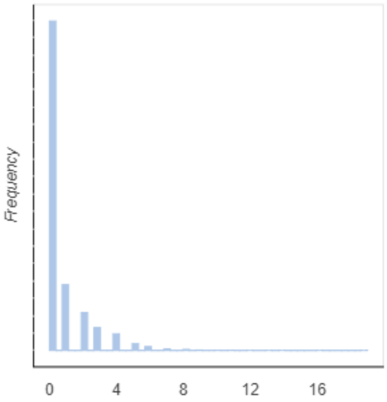

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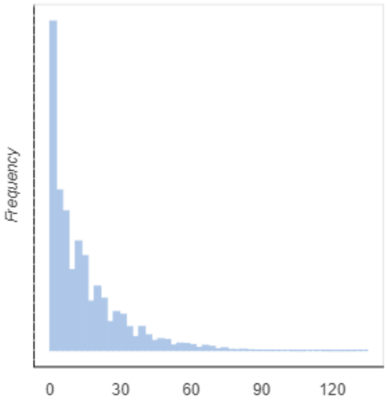

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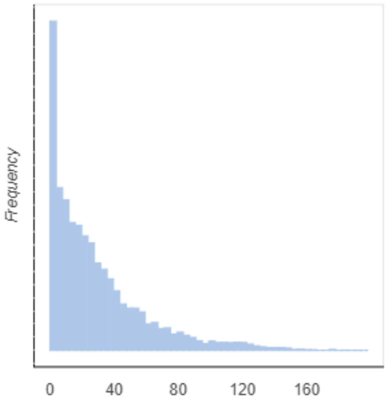

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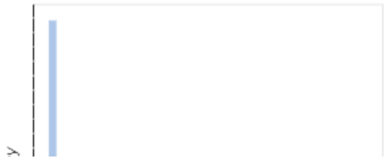

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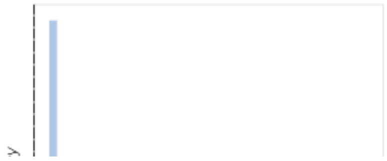

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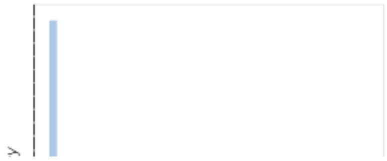

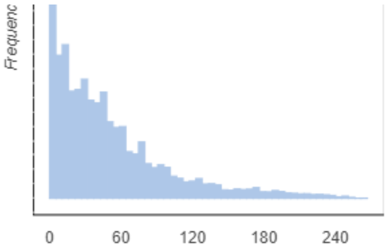

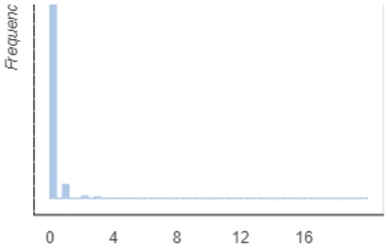

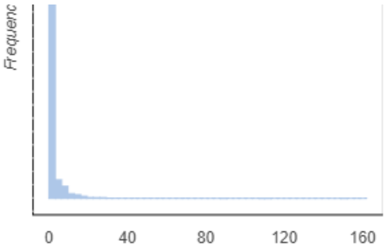

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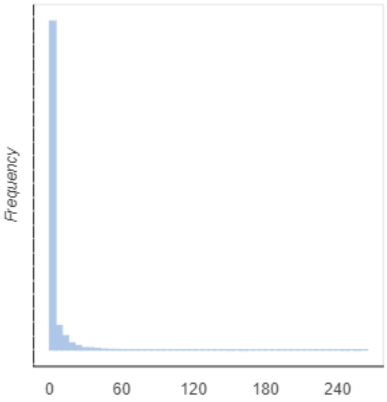

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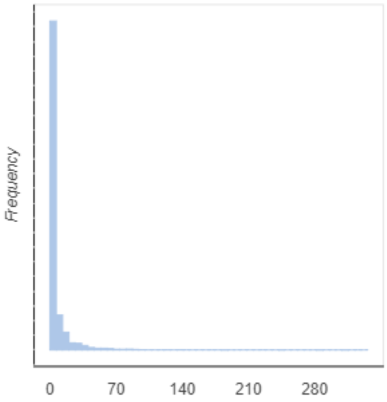

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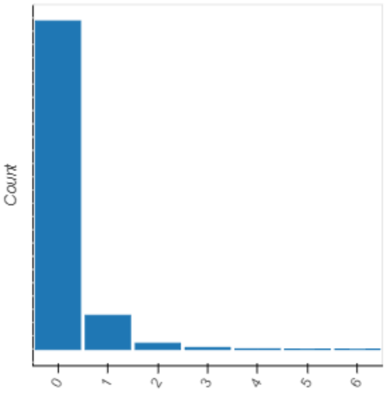

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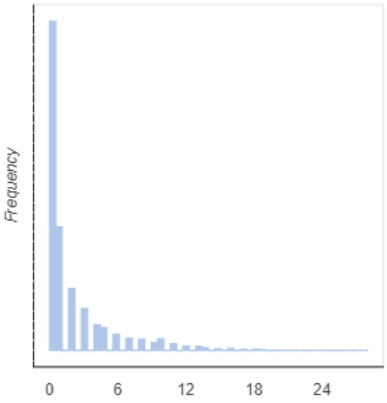

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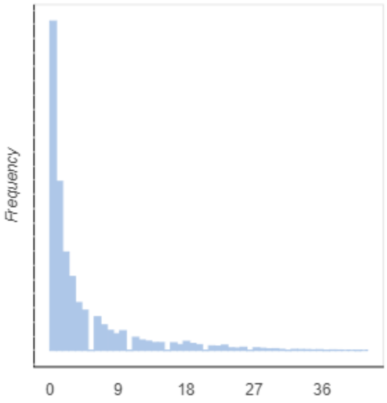

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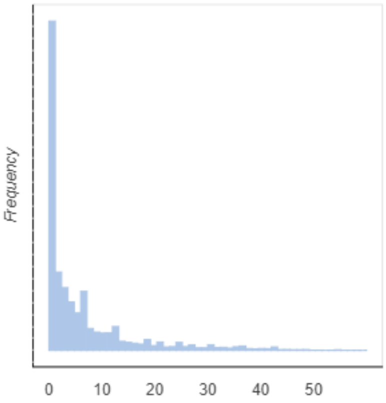

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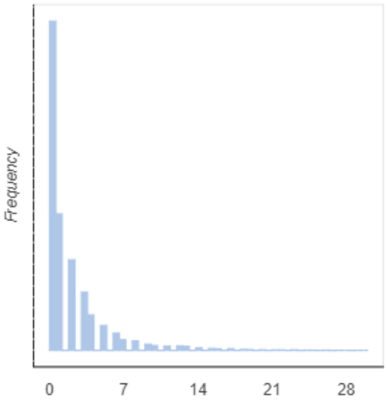

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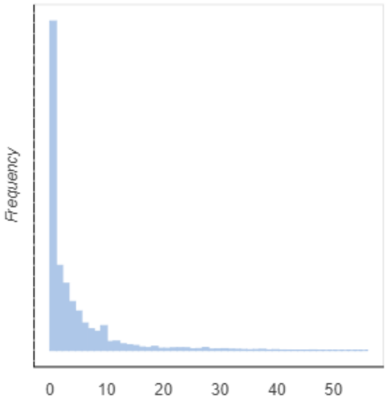

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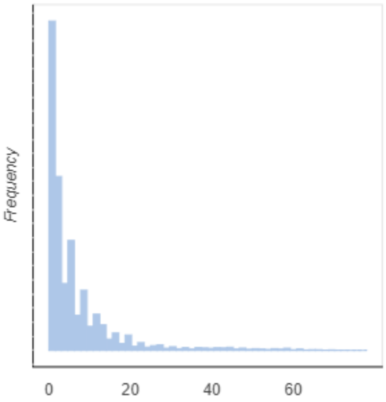

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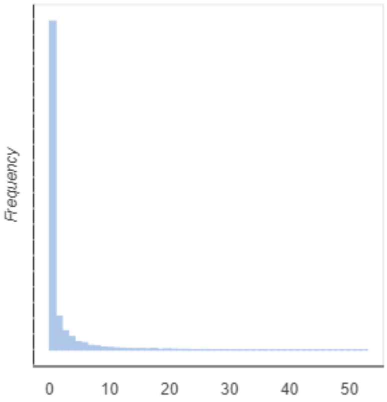

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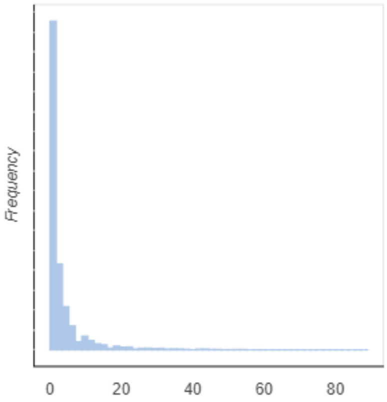

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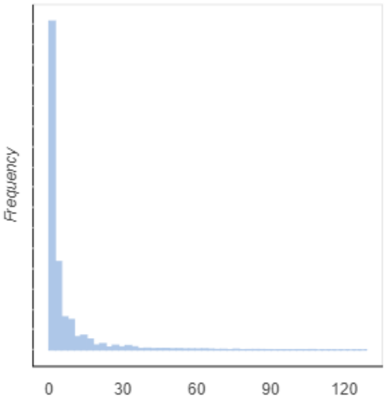

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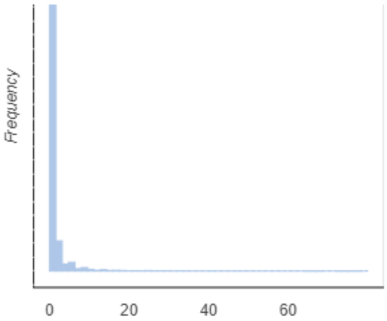

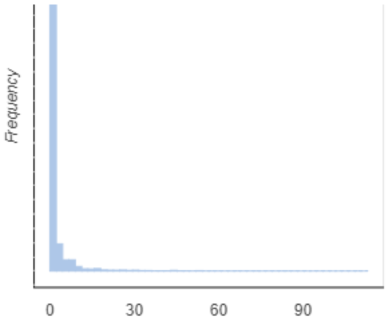

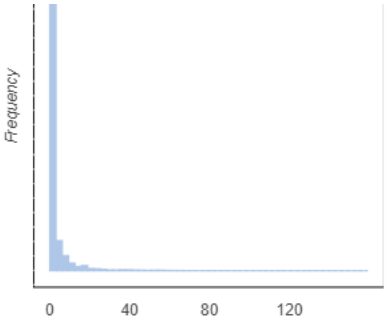

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osm_leisure_points_in_0.0075

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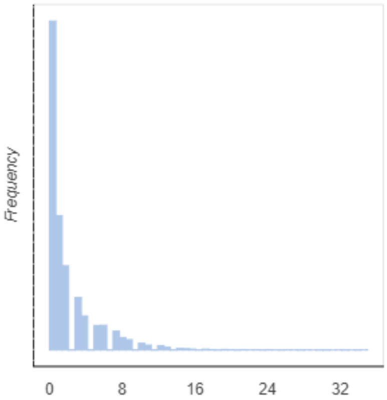

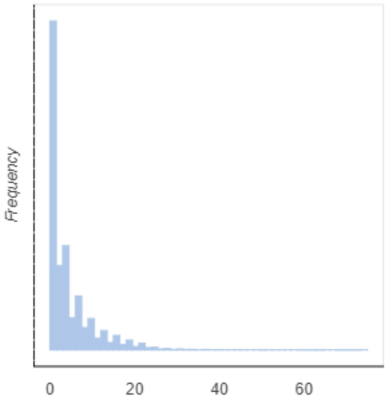

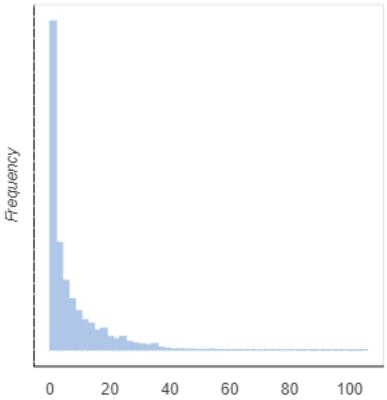

osm_offices_points_in_0.001

osm_offices_points_in_0.005

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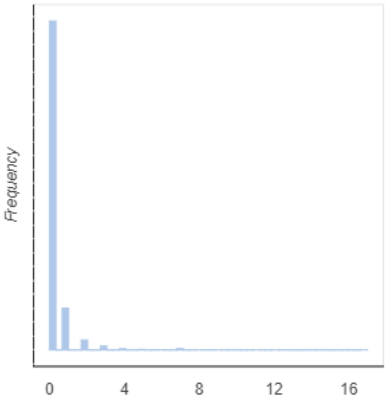

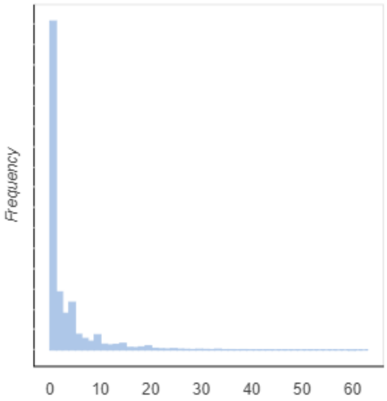

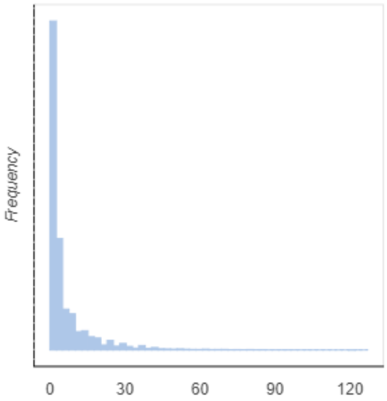

osm_offices_points_in_0.01

osm_shops_points_in_0.001

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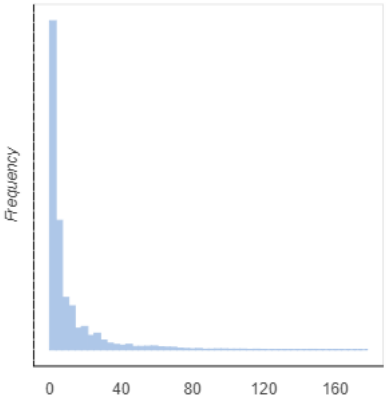
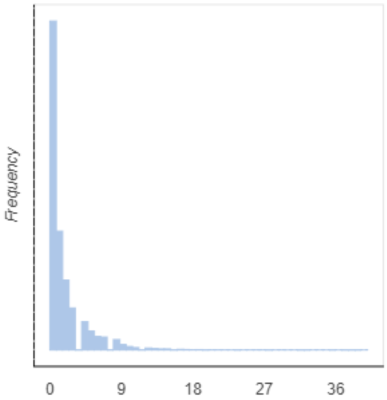
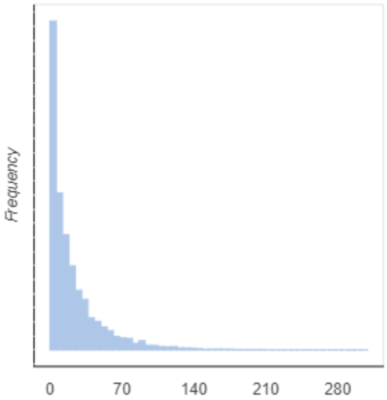


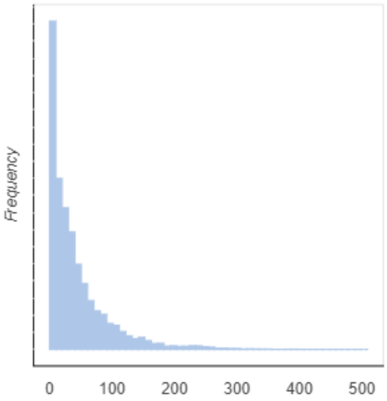


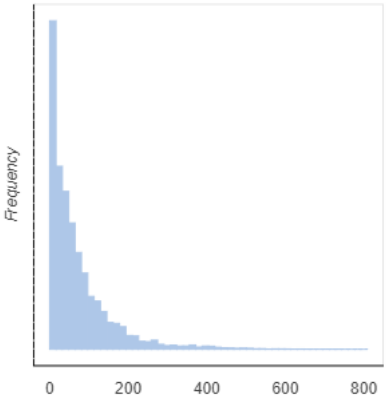


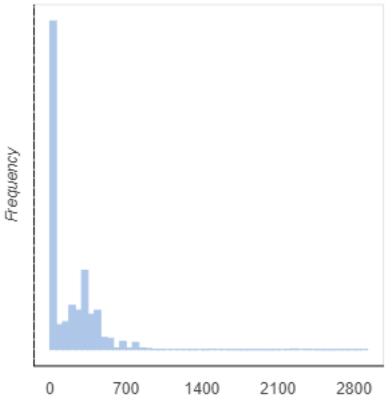
osm_shops_points_in_0.0075

osm_shops_points_in_0.01

osm_subway_closest_dist



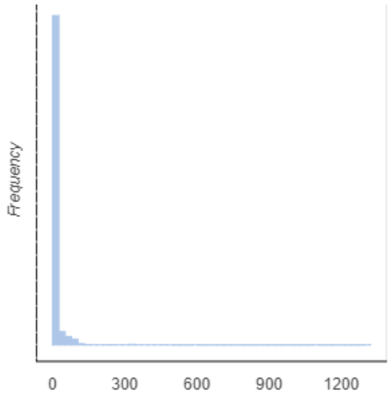


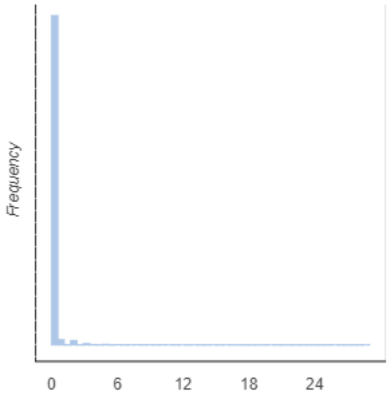


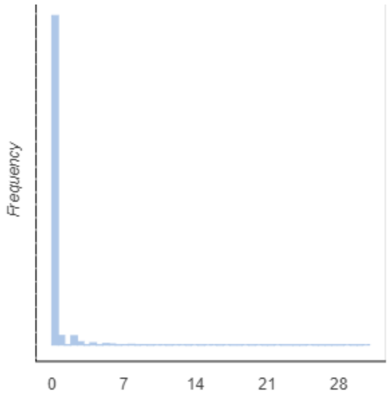
osm_train_stop_closest_dist

osm_train_stop_points_in_0.005

osm_train_stop_points_in_0.00...







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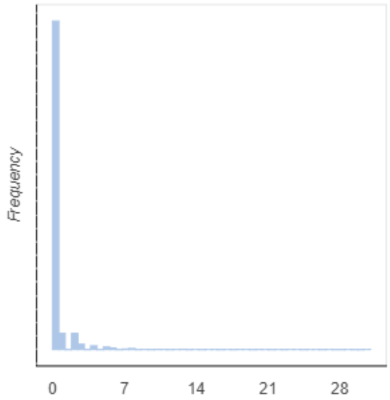

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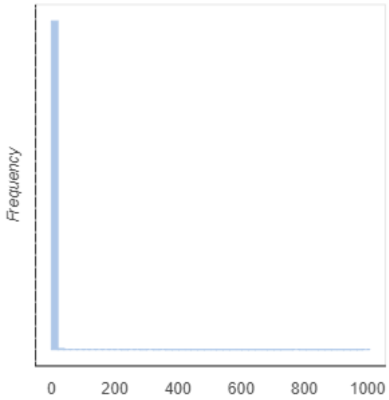

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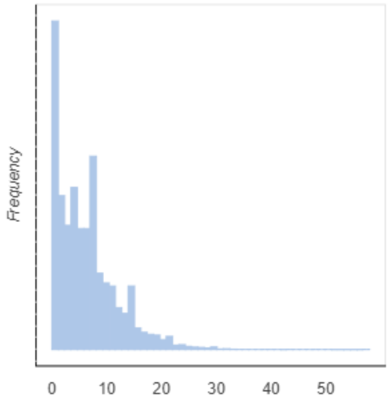

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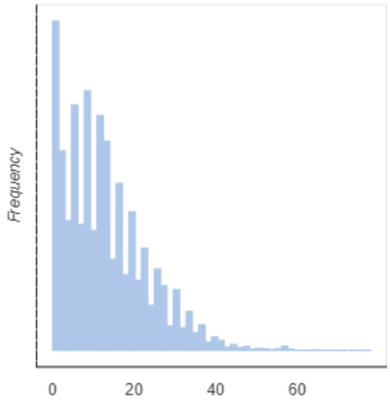

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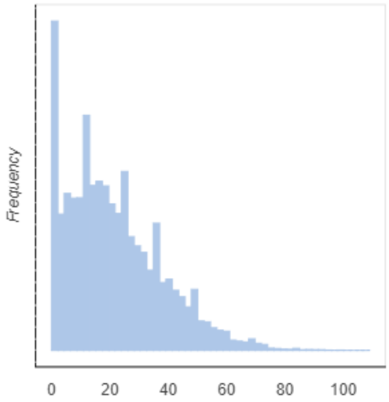

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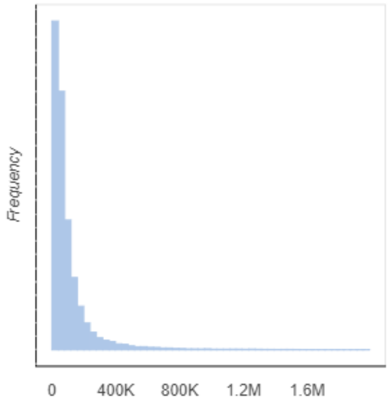
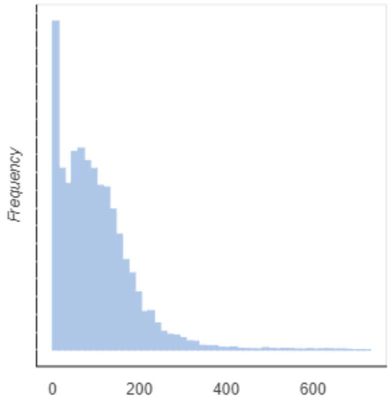


reform_count_of_houses_1000



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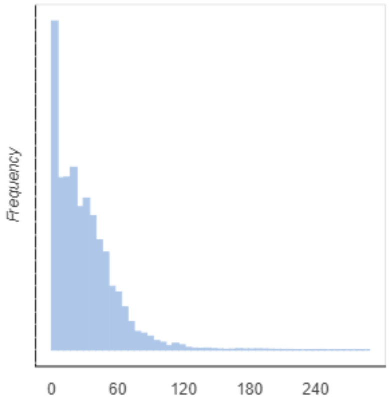

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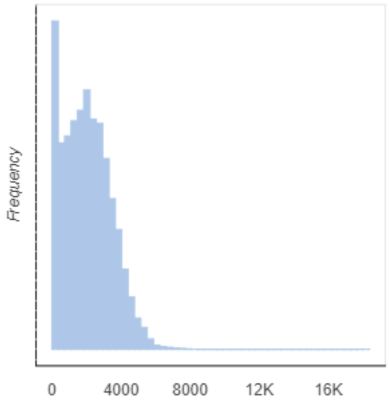

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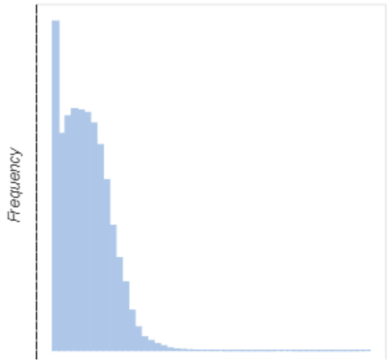

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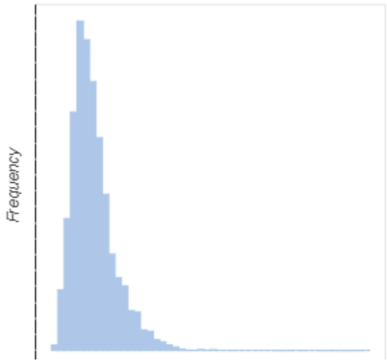

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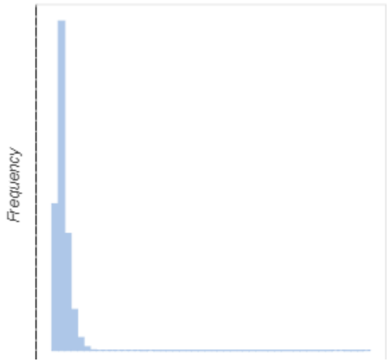

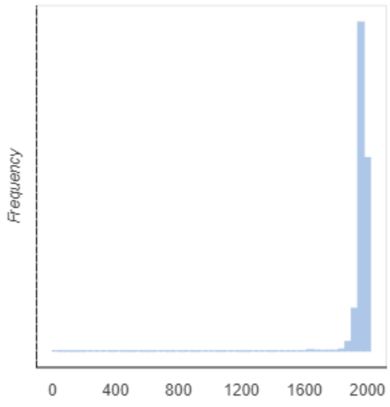
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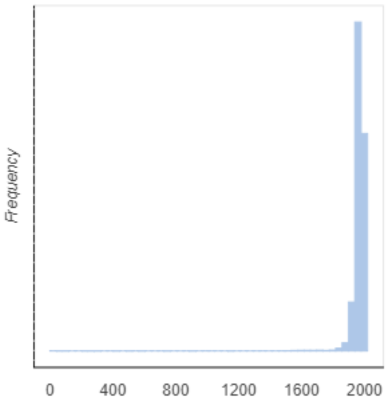
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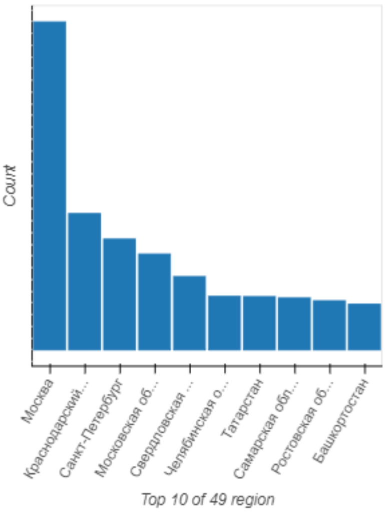
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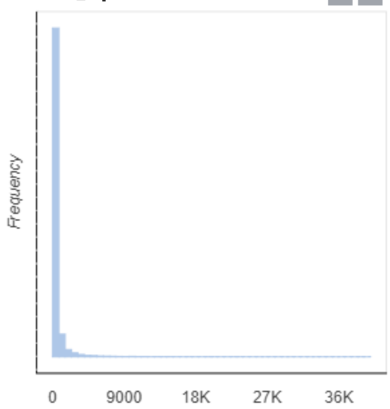
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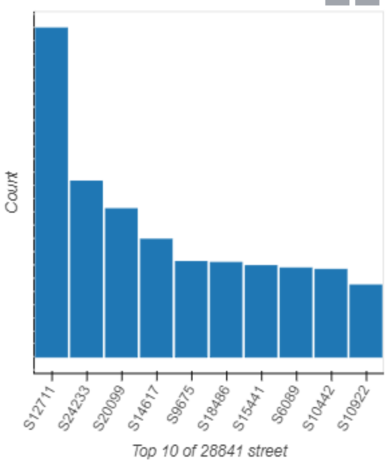
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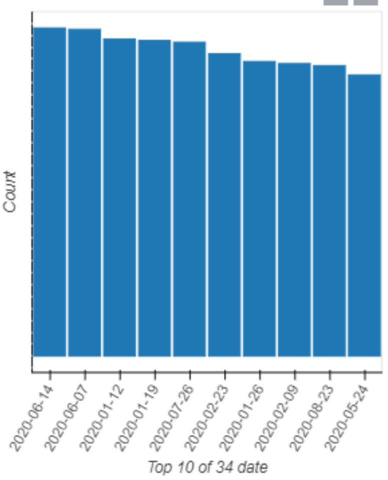
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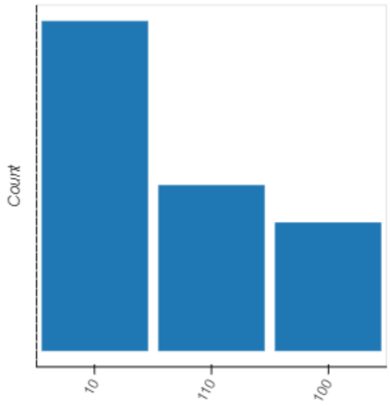
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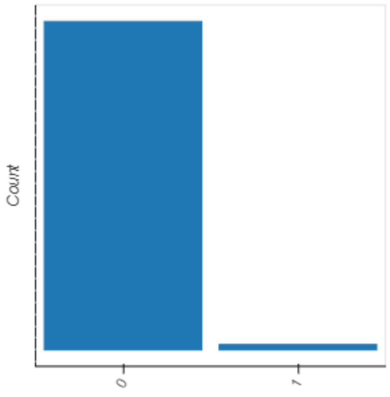
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✓ 56 сек. выполнено в 01:22