

Wk13_10_random_houses

January 12, 2021

0.1 Select 10 random house from filtered dataset

Filtered dataset:[37, 40, 41, 42, 51, 53, 54,55, 56, 57, 58, 60, 70, 72, 99, 100, 105, 108, 115]

```
[1]: import pandas as pd
import numpy as np
from sklearn.preprocessing import StandardScaler

import sys
sys.path.insert(0, '/home/18097367/notebooks/zero/Imports:/')
import Load_data as ld
```

```
[2]: samplehours = 1
```

```
[3]: a_dict = {    'smartMeter': [6,7],
                'solar' : [2,3]}
```

```
[4]: savepath = '/home/18097367/notebooks/zero/Data:/modelData/'
Housenr = 99
house = ld.load(Housenr,Housenr,a_dict,18097367)
#houses = (37,40,41,42,51,53,54,55,56,57)
df = house [Housenr]
```

0.1.1 Consumption

```
[5]: df = df.diff()
df['consumption'] = df.apply(lambda x: x['smartMeter_6'] +
    ↪x['solar_3']-x['smartMeter_7'], axis=1)
df = df.dropna()
df = df.filter(['consumption'])
df.head(1)
```

```
[5]:                consumption
2018-12-31 23:05:00          0.016
```

0.1.2 Resample

```
[6]: df = df['2019']  
df = df.resample(str(samplehours)+'H').sum()
```

```
[7]: df.head(2)
```

```
[7]:
```

	consumption
2019-01-01 00:00:00	0.107
2019-01-01 01:00:00	0.068

0.1.3 Shifting

```
[8]: def shifting(sf, shift:int):  
    sf['cons_T-'+str(shift)] = sf['consumption'].shift(periods=shift, freq='H')  
    return sf  
  
temp_df = df.filter(items=['consumption'])  
day_temp_df = df.filter(items=['consumption'])  
  
shiftDagen = range(1,169)  
  
#week  
for i in range(24, 168+1):  
    temp_df = shifting(temp_df, i)  
temp_df = temp_df.drop(['consumption'], axis=1)  
  
#day  
for i in range(24, 48+1):  
    day_temp_df = shifting(day_temp_df, i)  
day_temp_df = day_temp_df.drop(['consumption'], axis=1)  
  
#Shifted days  
for i in shiftDagen:  
    df = shifting(df, i)  
  
#columns added  
df['day_mean'] = day_temp_df.mean(axis=1, skipna=True)  
df['week_mean'] = temp_df.mean(axis=1, skipna=True)  
  
df = df.fillna(0)  
df.tail(3)
```

```
[8]:
```

	consumption	cons_T-1	cons_T-2	cons_T-3	cons_T-4	\
2019-12-31 20:00:00	0.425	1.294	2.629	2.098	1.309	
2019-12-31 21:00:00	1.171	0.425	1.294	2.629	2.098	

2019-12-31 22:00:00	0.816	1.171	0.425	1.294	2.629	
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	cons_T-5	cons_T-6	cons_T-7	cons_T-8	cons_T-9	...	\
2019-12-31 20:00:00	0.082	2.356	1.498	0.126	0.062	...	
2019-12-31 21:00:00	1.309	0.082	2.356	1.498	0.126	...	
2019-12-31 22:00:00	2.098	1.309	0.082	2.356	1.498	...	

	cons_T-161	cons_T-162	cons_T-163	cons_T-164	\
2019-12-31 20:00:00	0.430	0.445	0.075	0.058	
2019-12-31 21:00:00	0.152	0.430	0.445	0.075	
2019-12-31 22:00:00	0.061	0.152	0.430	0.445	

	cons_T-165	cons_T-166	cons_T-167	cons_T-168	day_mean	\
2019-12-31 20:00:00	0.108	1.826	0.148	0.085	0.85472	
2019-12-31 21:00:00	0.058	0.108	1.826	0.148	0.86032	
2019-12-31 22:00:00	0.075	0.058	0.108	1.826	0.83372	

	week_mean
2019-12-31 20:00:00	0.695890
2019-12-31 21:00:00	0.703579
2019-12-31 22:00:00	0.707731

[3 rows x 171 columns]

```
[9]: #peaks toevoegen
tempdf = pd.DataFrame(index = df.index)
for i in range(-6,6+1):
    tempdf[str(i)] = df['consumption'].shift(periods = i, freq = 'H')
    tempdf['Threshold'] = (tempdf.mean(axis = 1, skipna = True) * 1.30) + \
    ↪(tempdf.std(axis = 1, skipna = True) * 1.01)
    df.loc[df['consumption'] < tempdf['Threshold'], 'Is_Peak'] = 0
    df.loc[df['consumption'] >= tempdf['Threshold'], 'Is_Peak'] = 1
```

```
[10]: df = df.dropna()

df.head(5)
```

```
[10]:
```

	consumption	cons_T-1	cons_T-2	cons_T-3	cons_T-4	\
2019-01-01 00:00:00	0.107	0.000	0.000	0.000	0.000	
2019-01-01 01:00:00	0.068	0.107	0.000	0.000	0.000	
2019-01-01 02:00:00	0.103	0.068	0.107	0.000	0.000	
2019-01-01 03:00:00	0.124	0.103	0.068	0.107	0.000	
2019-01-01 04:00:00	0.664	0.124	0.103	0.068	0.107	

	cons_T-5	cons_T-6	cons_T-7	cons_T-8	cons_T-9	...	\
2019-01-01 00:00:00	0.0	0.0	0.0	0.0	0.0	...	
2019-01-01 01:00:00	0.0	0.0	0.0	0.0	0.0	...	

2019-01-01 02:00:00	0.0	0.0	0.0	0.0	0.0	...
2019-01-01 03:00:00	0.0	0.0	0.0	0.0	0.0	...
2019-01-01 04:00:00	0.0	0.0	0.0	0.0	0.0	...

	cons_T-162	cons_T-163	cons_T-164	cons_T-165	\
2019-01-01 00:00:00	0.0	0.0	0.0	0.0	
2019-01-01 01:00:00	0.0	0.0	0.0	0.0	
2019-01-01 02:00:00	0.0	0.0	0.0	0.0	
2019-01-01 03:00:00	0.0	0.0	0.0	0.0	
2019-01-01 04:00:00	0.0	0.0	0.0	0.0	

	cons_T-166	cons_T-167	cons_T-168	day_mean	week_mean	\
2019-01-01 00:00:00	0.0	0.0	0.0	0.0	0.0	
2019-01-01 01:00:00	0.0	0.0	0.0	0.0	0.0	
2019-01-01 02:00:00	0.0	0.0	0.0	0.0	0.0	
2019-01-01 03:00:00	0.0	0.0	0.0	0.0	0.0	
2019-01-01 04:00:00	0.0	0.0	0.0	0.0	0.0	

	Is_Peak
2019-01-01 00:00:00	0.0
2019-01-01 01:00:00	0.0
2019-01-01 02:00:00	0.0
2019-01-01 03:00:00	0.0
2019-01-01 04:00:00	1.0

[5 rows x 172 columns]

```
[11]: print(df.head(50))
```

	consumption	cons_T-1	cons_T-2	cons_T-3	cons_T-4	\
2019-01-01 00:00:00	0.107	0.000	0.000	0.000	0.000	
2019-01-01 01:00:00	0.068	0.107	0.000	0.000	0.000	
2019-01-01 02:00:00	0.103	0.068	0.107	0.000	0.000	
2019-01-01 03:00:00	0.124	0.103	0.068	0.107	0.000	
2019-01-01 04:00:00	0.664	0.124	0.103	0.068	0.107	
2019-01-01 05:00:00	0.509	0.664	0.124	0.103	0.068	
2019-01-01 06:00:00	0.223	0.509	0.664	0.124	0.103	
2019-01-01 07:00:00	0.061	0.223	0.509	0.664	0.124	
2019-01-01 08:00:00	0.466	0.061	0.223	0.509	0.664	
2019-01-01 09:00:00	0.583	0.466	0.061	0.223	0.509	
2019-01-01 10:00:00	0.131	0.583	0.466	0.061	0.223	
2019-01-01 11:00:00	1.393	0.131	0.583	0.466	0.061	
2019-01-01 12:00:00	0.575	1.393	0.131	0.583	0.466	
2019-01-01 13:00:00	0.316	0.575	1.393	0.131	0.583	
2019-01-01 14:00:00	1.620	0.316	0.575	1.393	0.131	
2019-01-01 15:00:00	0.401	1.620	0.316	0.575	1.393	
2019-01-01 16:00:00	0.320	0.401	1.620	0.316	0.575	

2019-01-01 17:00:00	0.559	0.320	0.401	1.620	0.316
2019-01-01 18:00:00	1.380	0.559	0.320	0.401	1.620
2019-01-01 19:00:00	2.163	1.380	0.559	0.320	0.401
2019-01-01 20:00:00	0.246	2.163	1.380	0.559	0.320
2019-01-01 21:00:00	0.185	0.246	2.163	1.380	0.559
2019-01-01 22:00:00	0.105	0.185	0.246	2.163	1.380
2019-01-01 23:00:00	0.118	0.105	0.185	0.246	2.163
2019-01-02 00:00:00	0.072	0.118	0.105	0.185	0.246
2019-01-02 01:00:00	0.122	0.072	0.118	0.105	0.185
2019-01-02 02:00:00	0.116	0.122	0.072	0.118	0.105
2019-01-02 03:00:00	0.063	0.116	0.122	0.072	0.118
2019-01-02 04:00:00	0.085	0.063	0.116	0.122	0.072
2019-01-02 05:00:00	0.151	0.085	0.063	0.116	0.122
2019-01-02 06:00:00	0.108	0.151	0.085	0.063	0.116
2019-01-02 07:00:00	1.127	0.108	0.151	0.085	0.063
2019-01-02 08:00:00	0.624	1.127	0.108	0.151	0.085
2019-01-02 09:00:00	0.727	0.624	1.127	0.108	0.151
2019-01-02 10:00:00	0.216	0.727	0.624	1.127	0.108
2019-01-02 11:00:00	1.692	0.216	0.727	0.624	1.127
2019-01-02 12:00:00	0.229	1.692	0.216	0.727	0.624
2019-01-02 13:00:00	0.133	0.229	1.692	0.216	0.727
2019-01-02 14:00:00	0.050	0.133	0.229	1.692	0.216
2019-01-02 15:00:00	1.072	0.050	0.133	0.229	1.692
2019-01-02 16:00:00	1.451	1.072	0.050	0.133	0.229
2019-01-02 17:00:00	1.619	1.451	1.072	0.050	0.133
2019-01-02 18:00:00	1.105	1.619	1.451	1.072	0.050
2019-01-02 19:00:00	0.851	1.105	1.619	1.451	1.072
2019-01-02 20:00:00	0.842	0.851	1.105	1.619	1.451
2019-01-02 21:00:00	0.591	0.842	0.851	1.105	1.619
2019-01-02 22:00:00	0.310	0.591	0.842	0.851	1.105
2019-01-02 23:00:00	0.246	0.310	0.591	0.842	0.851
2019-01-03 00:00:00	0.062	0.246	0.310	0.591	0.842
2019-01-03 01:00:00	0.060	0.062	0.246	0.310	0.591

	cons_T-5	cons_T-6	cons_T-7	cons_T-8	cons_T-9	...	\
2019-01-01 00:00:00	0.000	0.000	0.000	0.000	0.000	...	
2019-01-01 01:00:00	0.000	0.000	0.000	0.000	0.000	...	
2019-01-01 02:00:00	0.000	0.000	0.000	0.000	0.000	...	
2019-01-01 03:00:00	0.000	0.000	0.000	0.000	0.000	...	
2019-01-01 04:00:00	0.000	0.000	0.000	0.000	0.000	...	
2019-01-01 05:00:00	0.107	0.000	0.000	0.000	0.000	...	
2019-01-01 06:00:00	0.068	0.107	0.000	0.000	0.000	...	
2019-01-01 07:00:00	0.103	0.068	0.107	0.000	0.000	...	
2019-01-01 08:00:00	0.124	0.103	0.068	0.107	0.000	...	
2019-01-01 09:00:00	0.664	0.124	0.103	0.068	0.107	...	
2019-01-01 10:00:00	0.509	0.664	0.124	0.103	0.068	...	
2019-01-01 11:00:00	0.223	0.509	0.664	0.124	0.103	...	
2019-01-01 12:00:00	0.061	0.223	0.509	0.664	0.124	...	

2019-01-01 13:00:00	0.466	0.061	0.223	0.509	0.664	...
2019-01-01 14:00:00	0.583	0.466	0.061	0.223	0.509	...
2019-01-01 15:00:00	0.131	0.583	0.466	0.061	0.223	...
2019-01-01 16:00:00	1.393	0.131	0.583	0.466	0.061	...
2019-01-01 17:00:00	0.575	1.393	0.131	0.583	0.466	...
2019-01-01 18:00:00	0.316	0.575	1.393	0.131	0.583	...
2019-01-01 19:00:00	1.620	0.316	0.575	1.393	0.131	...
2019-01-01 20:00:00	0.401	1.620	0.316	0.575	1.393	...
2019-01-01 21:00:00	0.320	0.401	1.620	0.316	0.575	...
2019-01-01 22:00:00	0.559	0.320	0.401	1.620	0.316	...
2019-01-01 23:00:00	1.380	0.559	0.320	0.401	1.620	...
2019-01-02 00:00:00	2.163	1.380	0.559	0.320	0.401	...
2019-01-02 01:00:00	0.246	2.163	1.380	0.559	0.320	...
2019-01-02 02:00:00	0.185	0.246	2.163	1.380	0.559	...
2019-01-02 03:00:00	0.105	0.185	0.246	2.163	1.380	...
2019-01-02 04:00:00	0.118	0.105	0.185	0.246	2.163	...
2019-01-02 05:00:00	0.072	0.118	0.105	0.185	0.246	...
2019-01-02 06:00:00	0.122	0.072	0.118	0.105	0.185	...
2019-01-02 07:00:00	0.116	0.122	0.072	0.118	0.105	...
2019-01-02 08:00:00	0.063	0.116	0.122	0.072	0.118	...
2019-01-02 09:00:00	0.085	0.063	0.116	0.122	0.072	...
2019-01-02 10:00:00	0.151	0.085	0.063	0.116	0.122	...
2019-01-02 11:00:00	0.108	0.151	0.085	0.063	0.116	...
2019-01-02 12:00:00	1.127	0.108	0.151	0.085	0.063	...
2019-01-02 13:00:00	0.624	1.127	0.108	0.151	0.085	...
2019-01-02 14:00:00	0.727	0.624	1.127	0.108	0.151	...
2019-01-02 15:00:00	0.216	0.727	0.624	1.127	0.108	...
2019-01-02 16:00:00	1.692	0.216	0.727	0.624	1.127	...
2019-01-02 17:00:00	0.229	1.692	0.216	0.727	0.624	...
2019-01-02 18:00:00	0.133	0.229	1.692	0.216	0.727	...
2019-01-02 19:00:00	0.050	0.133	0.229	1.692	0.216	...
2019-01-02 20:00:00	1.072	0.050	0.133	0.229	1.692	...
2019-01-02 21:00:00	1.451	1.072	0.050	0.133	0.229	...
2019-01-02 22:00:00	1.619	1.451	1.072	0.050	0.133	...
2019-01-02 23:00:00	1.105	1.619	1.451	1.072	0.050	...
2019-01-03 00:00:00	0.851	1.105	1.619	1.451	1.072	...
2019-01-03 01:00:00	0.842	0.851	1.105	1.619	1.451	...

	cons_T-162	cons_T-163	cons_T-164	cons_T-165	\
2019-01-01 00:00:00	0.0	0.0	0.0	0.0	
2019-01-01 01:00:00	0.0	0.0	0.0	0.0	
2019-01-01 02:00:00	0.0	0.0	0.0	0.0	
2019-01-01 03:00:00	0.0	0.0	0.0	0.0	
2019-01-01 04:00:00	0.0	0.0	0.0	0.0	
2019-01-01 05:00:00	0.0	0.0	0.0	0.0	
2019-01-01 06:00:00	0.0	0.0	0.0	0.0	
2019-01-01 07:00:00	0.0	0.0	0.0	0.0	
2019-01-01 08:00:00	0.0	0.0	0.0	0.0	

2019-01-01 09:00:00	0.0	0.0	0.0	0.0
2019-01-01 10:00:00	0.0	0.0	0.0	0.0
2019-01-01 11:00:00	0.0	0.0	0.0	0.0
2019-01-01 12:00:00	0.0	0.0	0.0	0.0
2019-01-01 13:00:00	0.0	0.0	0.0	0.0
2019-01-01 14:00:00	0.0	0.0	0.0	0.0
2019-01-01 15:00:00	0.0	0.0	0.0	0.0
2019-01-01 16:00:00	0.0	0.0	0.0	0.0
2019-01-01 17:00:00	0.0	0.0	0.0	0.0
2019-01-01 18:00:00	0.0	0.0	0.0	0.0
2019-01-01 19:00:00	0.0	0.0	0.0	0.0
2019-01-01 20:00:00	0.0	0.0	0.0	0.0
2019-01-01 21:00:00	0.0	0.0	0.0	0.0
2019-01-01 22:00:00	0.0	0.0	0.0	0.0
2019-01-01 23:00:00	0.0	0.0	0.0	0.0
2019-01-02 00:00:00	0.0	0.0	0.0	0.0
2019-01-02 01:00:00	0.0	0.0	0.0	0.0
2019-01-02 02:00:00	0.0	0.0	0.0	0.0
2019-01-02 03:00:00	0.0	0.0	0.0	0.0
2019-01-02 04:00:00	0.0	0.0	0.0	0.0
2019-01-02 05:00:00	0.0	0.0	0.0	0.0
2019-01-02 06:00:00	0.0	0.0	0.0	0.0
2019-01-02 07:00:00	0.0	0.0	0.0	0.0
2019-01-02 08:00:00	0.0	0.0	0.0	0.0
2019-01-02 09:00:00	0.0	0.0	0.0	0.0
2019-01-02 10:00:00	0.0	0.0	0.0	0.0
2019-01-02 11:00:00	0.0	0.0	0.0	0.0
2019-01-02 12:00:00	0.0	0.0	0.0	0.0
2019-01-02 13:00:00	0.0	0.0	0.0	0.0
2019-01-02 14:00:00	0.0	0.0	0.0	0.0
2019-01-02 15:00:00	0.0	0.0	0.0	0.0
2019-01-02 16:00:00	0.0	0.0	0.0	0.0
2019-01-02 17:00:00	0.0	0.0	0.0	0.0
2019-01-02 18:00:00	0.0	0.0	0.0	0.0
2019-01-02 19:00:00	0.0	0.0	0.0	0.0
2019-01-02 20:00:00	0.0	0.0	0.0	0.0
2019-01-02 21:00:00	0.0	0.0	0.0	0.0
2019-01-02 22:00:00	0.0	0.0	0.0	0.0
2019-01-02 23:00:00	0.0	0.0	0.0	0.0
2019-01-03 00:00:00	0.0	0.0	0.0	0.0
2019-01-03 01:00:00	0.0	0.0	0.0	0.0

	cons_T-166	cons_T-167	cons_T-168	day_mean	week_mean	\
2019-01-01 00:00:00	0.0	0.0	0.0	0.000000	0.000000	
2019-01-01 01:00:00	0.0	0.0	0.0	0.000000	0.000000	
2019-01-01 02:00:00	0.0	0.0	0.0	0.000000	0.000000	
2019-01-01 03:00:00	0.0	0.0	0.0	0.000000	0.000000	
2019-01-01 04:00:00	0.0	0.0	0.0	0.000000	0.000000	

2019-01-01 05:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 06:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 07:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 08:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 09:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 10:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 11:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 12:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 13:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 14:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 15:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 16:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 17:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 18:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 19:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 20:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 21:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 22:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-01 23:00:00	0.0	0.0	0.0	0.000000	0.000000
2019-01-02 00:00:00	0.0	0.0	0.0	0.107000	0.107000
2019-01-02 01:00:00	0.0	0.0	0.0	0.087500	0.087500
2019-01-02 02:00:00	0.0	0.0	0.0	0.092667	0.092667
2019-01-02 03:00:00	0.0	0.0	0.0	0.100500	0.100500
2019-01-02 04:00:00	0.0	0.0	0.0	0.213200	0.213200
2019-01-02 05:00:00	0.0	0.0	0.0	0.262500	0.262500
2019-01-02 06:00:00	0.0	0.0	0.0	0.256857	0.256857
2019-01-02 07:00:00	0.0	0.0	0.0	0.232375	0.232375
2019-01-02 08:00:00	0.0	0.0	0.0	0.258333	0.258333
2019-01-02 09:00:00	0.0	0.0	0.0	0.290800	0.290800
2019-01-02 10:00:00	0.0	0.0	0.0	0.276273	0.276273
2019-01-02 11:00:00	0.0	0.0	0.0	0.369333	0.369333
2019-01-02 12:00:00	0.0	0.0	0.0	0.385154	0.385154
2019-01-02 13:00:00	0.0	0.0	0.0	0.380214	0.380214
2019-01-02 14:00:00	0.0	0.0	0.0	0.462867	0.462867
2019-01-02 15:00:00	0.0	0.0	0.0	0.459000	0.459000
2019-01-02 16:00:00	0.0	0.0	0.0	0.450824	0.450824
2019-01-02 17:00:00	0.0	0.0	0.0	0.456833	0.456833
2019-01-02 18:00:00	0.0	0.0	0.0	0.505421	0.505421
2019-01-02 19:00:00	0.0	0.0	0.0	0.588300	0.588300
2019-01-02 20:00:00	0.0	0.0	0.0	0.572000	0.572000
2019-01-02 21:00:00	0.0	0.0	0.0	0.554409	0.554409
2019-01-02 22:00:00	0.0	0.0	0.0	0.534870	0.534870
2019-01-02 23:00:00	0.0	0.0	0.0	0.517500	0.517500
2019-01-03 00:00:00	0.0	0.0	0.0	0.499680	0.499680
2019-01-03 01:00:00	0.0	0.0	0.0	0.500280	0.485154

	Is_Peak
2019-01-01 00:00:00	0.0

2019-01-01 01:00:00	0.0
2019-01-01 02:00:00	0.0
2019-01-01 03:00:00	0.0
2019-01-01 04:00:00	1.0
2019-01-01 05:00:00	0.0
2019-01-01 06:00:00	0.0
2019-01-01 07:00:00	0.0
2019-01-01 08:00:00	0.0
2019-01-01 09:00:00	0.0
2019-01-01 10:00:00	0.0
2019-01-01 11:00:00	1.0
2019-01-01 12:00:00	0.0
2019-01-01 13:00:00	0.0
2019-01-01 14:00:00	0.0
2019-01-01 15:00:00	0.0
2019-01-01 16:00:00	0.0
2019-01-01 17:00:00	0.0
2019-01-01 18:00:00	0.0
2019-01-01 19:00:00	1.0
2019-01-01 20:00:00	0.0
2019-01-01 21:00:00	0.0
2019-01-01 22:00:00	0.0
2019-01-01 23:00:00	0.0
2019-01-02 00:00:00	0.0
2019-01-02 01:00:00	0.0
2019-01-02 02:00:00	0.0
2019-01-02 03:00:00	0.0
2019-01-02 04:00:00	0.0
2019-01-02 05:00:00	0.0
2019-01-02 06:00:00	0.0
2019-01-02 07:00:00	0.0
2019-01-02 08:00:00	0.0
2019-01-02 09:00:00	0.0
2019-01-02 10:00:00	0.0
2019-01-02 11:00:00	1.0
2019-01-02 12:00:00	0.0
2019-01-02 13:00:00	0.0
2019-01-02 14:00:00	0.0
2019-01-02 15:00:00	0.0
2019-01-02 16:00:00	0.0
2019-01-02 17:00:00	0.0
2019-01-02 18:00:00	0.0
2019-01-02 19:00:00	0.0
2019-01-02 20:00:00	0.0
2019-01-02 21:00:00	0.0
2019-01-02 22:00:00	0.0
2019-01-02 23:00:00	0.0
2019-01-03 00:00:00	0.0

```
2019-01-03 01:00:00      0.0
```

```
[50 rows x 172 columns]
```

```
[ ]:
```

```
[12]: df.to_pickle('House_'+str(Housenr))
```