

Data were munged [here](https://github.com/TheOregonian/long-term-care-db/blob/master/notebooks/transformation/mung-3-29-scrape.ipynb) (<https://github.com/TheOregonian/long-term-care-db/blob/master/notebooks/transformation/mung-3-29-scrape.ipynb>).

```
In [3]: import pandas as pd
import numpy as np
from IPython.core.display import display, HTML
display(HTML("<style>.container { width:100% !important; }</style>"))
```

```
In [4]: df = pd.read_csv('../data/processed/complaints-3-29-scrape.csv')
owners = pd.read_csv('../data/raw/APD_HistOwner.csv')
```

First: Prep ownership history table

```
In [5]: owners.rename(columns={'HOW_IdNumber': 'owner_id', 'HOW_CcmuNumber': 'fac_ccmunu
mber', 'HOW_DateActive': 'license_date'}, inplace=True)
owners['license_date'] = pd.to_datetime(owners['license_date'])
```

```
In [6]: owners = owners[['fac_ccmunumber', 'license_date', 'owner_id']]
```

When did River Grove open, when did the last owners take over, and how many companies have owned the facility?

```
In [7]: #Last ownership change
owners[owners['fac_ccmunumber'] == '50M132']
```

```
Out[7]:
```

	fac_ccmunumber	license_date	owner_id
570	50M132	2000-05-25	264
571	50M132	2005-05-07	1396
572	50M132	2008-09-19	1900
573	50M132	2009-07-01	1989
574	50M132	2015-04-01	2841

How many visible complaints have there been under the current ownership?

```
In [8]: #Slice of public River Grove complaints
rg = df[(df['facility_id'] == '50M132') & (df['public'] == 'online')]
```

```
In [9]: rg[rg['incident_date'] >= '2015-04-01'].count()[0]
```

```
Out[9]: 2
```

How many online complaints have there been under previous ownership?

```
In [10]: rg[rg['incident_date']<'2015-04-01'].count()[0]
```

```
Out[10]: 31
```

How many complaints occurred in the two years before the current owners took over?

```
In [11]: rg[(rg['incident_date']<'2015-04-01') & (rg['incident_date']>'2013-04-01')].count()[0]
```

```
Out[11]: 17
```

What are the names River Grove is listed under on the public-facing website, and in what historical order?

```
In [12]: rg[['incident_date','online_fac_name']].drop_duplicates(subset='online_fac_name', keep='first').sort_values('incident_date', ascending=False)
```

```
Out[12]:
```

	incident_date	online_fac_name
5308	2015-04-20	RIVER GROVE MEMORY CARE
5284	2014-11-02	SANTA CLARA SPECIAL CARE COMMUNITY
5338	2005-08-03	SIERRA OAKS OF SANTA CLARA
5337	2005-02-14	SANTA CLARA RESIDENTIAL INN

DONE