assignment 10 (old)

March 8, 2022

1 I ended up not using this data set in the end, as the correlations were very weak

[1]:
```
import pandas as pd
```

[2]:
```
import seaborn as sns
```

[3]:
```
df = pd.read_csv('steam.csv', sep=',')
```

[4]:
```
df.pop('appid')
# Convert english too boolean
df['english'] = df['english'].astype('bool')
# set release date to datetime
df['release_date'] = pd.to_datetime(df['release_date'])
# create 3 seperate platform fields instead of 1
df['windows'], df['mac'], df['linux'] = df['platforms'].apply(lambda x:␣
 ↪'windows' in x),df['platforms'].apply(lambda x: 'mac' in x),df['platforms'].
 ↪apply(lambda x: 'linux' in x)
df.drop(columns='platforms', inplace=True)
df['owners_low'] = df['owners'].apply(lambda x: x.split('-')[0]).astype('int')
df['owners_high'] = df['owners'].apply(lambda x: x.split('-')[1]).astype('int')
df['release_year'] = df['release_date'].dt.year
df.drop(columns='owners', inplace=True)
genres = df['genres'].apply(lambda x: x.split(';')[0])
```

[5]:
```
medianPlaytimeFilter = df['median_playtime']> 0.5
ownersFilter = df['owners_low'] > 20000 #lowest range above 0
reviewFilter = df['positive_ratings'] > 5
noFreeGameFilter = df['price'] > 0.1
```

[7]:
```
gameCorrelations = df.corr()
gameCorrelations.style.background_gradient(cmap='coolwarm', axis=None).
 ↪set_precision(2)
```

```
C:\Users\Stijn\AppData\Local\Temp/ipykernel_11924/4049258250.py:2:
FutureWarning: this method is deprecated in favour of
`Styler.format(precision=..)`
```

```
  gameCorrelations.style.background_gradient(cmap='coolwarm',
axis=None).set_precision(2)
```

[7]:
```
<pandas.io.formats.style.Styler at 0x29842e41100>
```

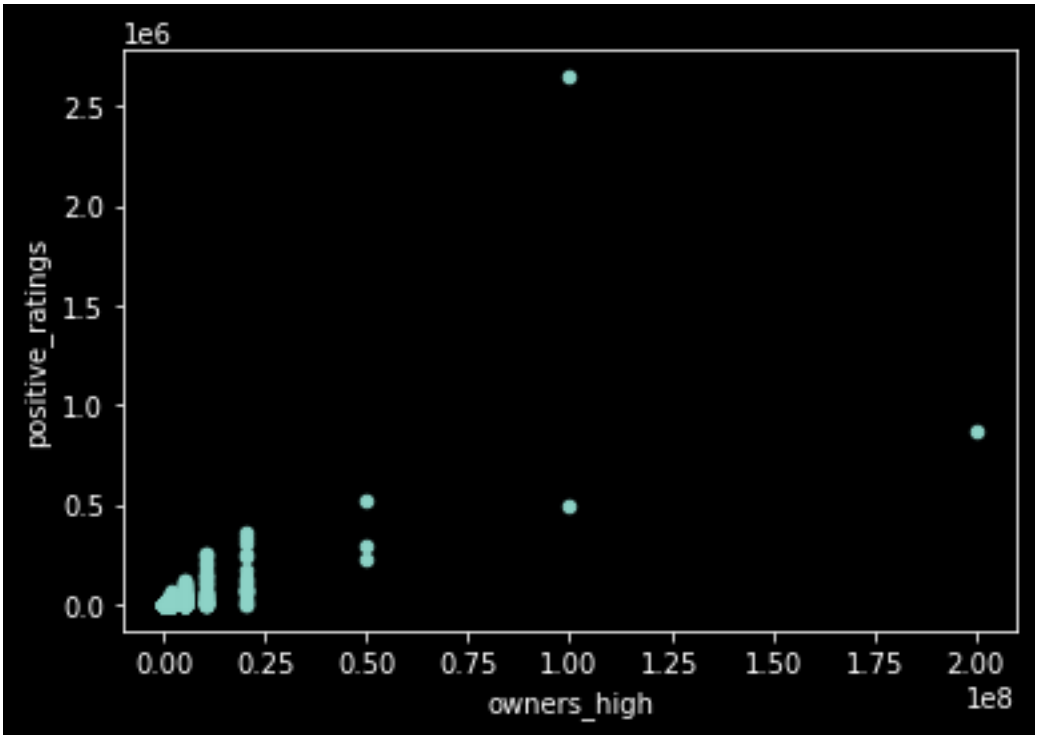
[14]:
```
correlation2 = df[['owners_high','positive_ratings']]
correlation2.corr()
```

[14]:

	owners_high	positive_ratings
owners_high	1.000000	0.712447
positive_ratings	0.712447	1.000000

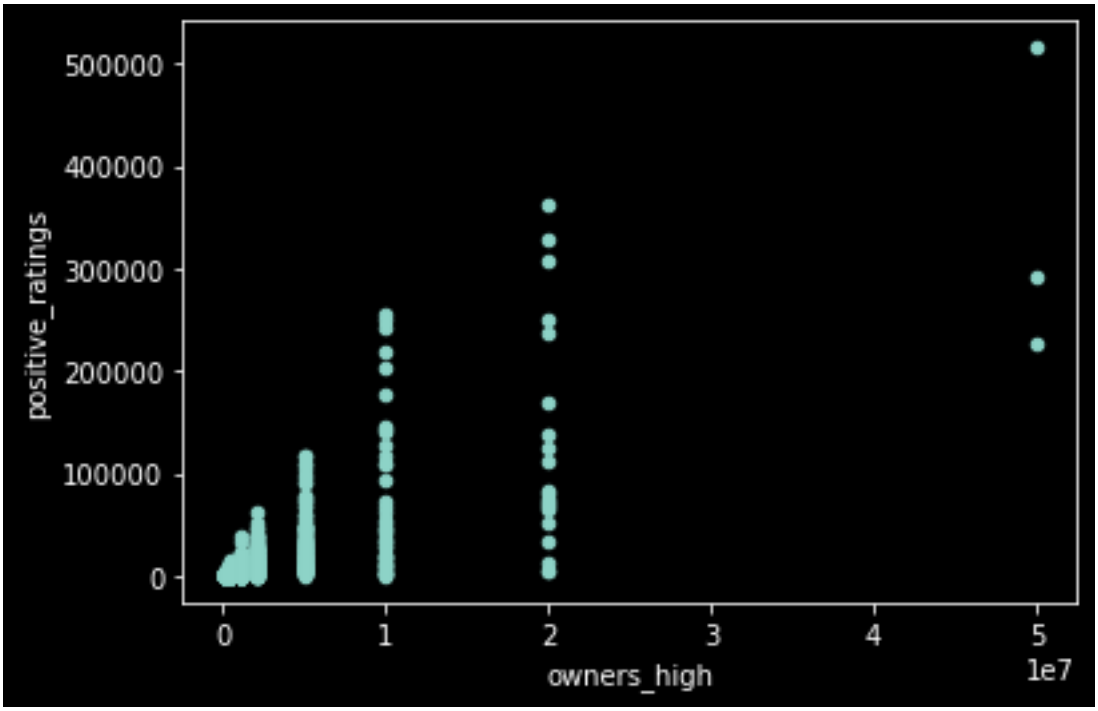
[11]:
```
df.plot(kind='scatter', x='owners_high',y='positive_ratings')
```

[11]:
```
<AxesSubplot:xlabel='owners_high', ylabel='positive_ratings'>
```



[10]:
```
df[df['owners_high'] < 100000000].plot(kind='scatter',␣
↪x='owners_high',y='positive_ratings')
```

[10]:
```
<AxesSubplot:xlabel='owners_high', ylabel='positive_ratings'>
```



It does match my expectation, as you will have more (positive) reviews if more people play your game