

```
In [5]: import json
import pandas as pd
import numpy as np
from tqdm import tqdm_notebook as tqdm
from tqdm import trange
import os
import datetime
import time
```

```
In [26]: file = 'Hot Stuff.csv'
filedir = 'data/'
path = filedir + file
with open(path, 'r', encoding='cp850', errors = 'ignore') as f:
    df = pd.read_csv(f)
df.columns
```

```
Out[26]: Index(['url', 'WeekID', 'Week Position', 'Song', 'Performer', 'SongID',
               'Instance', 'Previous Week Position', 'Peak Position',
               'Weeks on Chart'],
              dtype='object')
```

```
In [27]: df.drop(['url', 'Previous Week Position', 'Peak Position', 'Weeks on Chart',
                 'Instance'], axis = 1, inplace = True)
```

```
In [65]: no1s_df = df[df['Week Position'] == 1].copy()
no1s_df.columns=no1s_df.columns.str.strip()
no1s_df.columns
no1s_df.WeekID = pd.to_datetime(no1s_df.WeekID)
```

```
In [71]: no1s_df.sort_values(by='WeekID',axis = 0, inplace=True)
no1s_df
```

Out[71]:

	WeekID	Week Position	Song	Performer	SongID
464	1958-08-02	1	Poor Little Fool	Ricky Nelson	Poor Little FoolRicky Nelson
119198	1958-08-09	1	Poor Little Fool	Ricky Nelson	Poor Little FoolRicky Nelson
27513	1958-08-16	1	Nel Blu Dipinto Di Blu (Volar  ®)	Domenico Modugno	Nel Blu Dipinto Di Blu (Volar  ®)Domenico Modugno
79105	1958-08-23	1	Little Star	The Elegants	Little StarThe Elegants
7092	1958-08-30	1	Nel Blu Dipinto Di Blu (Volar  ®)	Domenico Modugno	Nel Blu Dipinto Di Blu (Volar  ®)Domenico Modugno
...	...	...	...	...	...
22674	2019-05-25	1	Old Town Road	Lil Nas X Featuring Billy Ray Cyrus	Old Town RoadLil Nas X Featuring Billy Ray Cyrus
45997	2019-06-01	1	Old Town Road	Lil Nas X Featuring Billy Ray Cyrus	Old Town RoadLil Nas X Featuring Billy Ray Cyrus
89548	2019-06-08	1	Old Town Road	Lil Nas X Featuring Billy Ray Cyrus	Old Town RoadLil Nas X Featuring Billy Ray Cyrus
93671	2019-06-15	1	Old Town Road	Lil Nas X Featuring Billy Ray Cyrus	Old Town RoadLil Nas X Featuring Billy Ray Cyrus
97370	2019-06-22	1	Old Town Road	Lil Nas X Featuring Billy Ray Cyrus	Old Town RoadLil Nas X Featuring Billy Ray Cyrus

3178 rows × 5 columns

```
In [72]: no1s_df.to_csv(index=False, path_or_buf = 'weekly_no1s.csv')
```