

```
In [1]: #Import Dependencies
import pandas as pd
import requests
import json
import time
import numpy as np
```

```
In [2]: #Query API and Convert to DataFrame

#Read csv with proper encoding
path = "U.S. Released Movies_ 1972-2016.csv"
movies = pd.read_csv(path, encoding='latin1')
movies.head()
```

Out[2]:

	Position	Const	Created	Modified	Description	Title
0	1	tt0110912	4/23/2013	4/23/2013	NaN	Pulp Fiction https://www.imdb.com/title/tt0110912/
1	2	tt1872181	4/23/2013	4/23/2013	NaN	The Amazing Spider-Man 2 https://www.imdb.com/title/tt1872181/
2	3	tt0111161	4/23/2013	4/23/2013	NaN	The Shawshank Redemption https://www.imdb.com/title/tt0111161/
3	4	tt0076759	4/23/2013	4/23/2013	NaN	Star Wars https://www.imdb.com/title/tt0076759/
4	5	tt0088763	4/23/2013	4/23/2013	NaN	Back to the Future https://www.imdb.com/title/tt0088763/

```
In [3]: #Extract relevant columns
movies = movies[['Const', 'Title', 'Runtime (mins)', 'Year', 'Genres', 'Release Date', 'IMDb Rating']]
movies.head()
```

Out[3]:

	Const	Title	Runtime (mins)	Year	Genres	Release Date	IMDb Rating
0	tt0110912	Pulp Fiction	154.0	1994.0	Crime, Drama	5/21/1994	8.9
1	tt1872181	The Amazing Spider-Man 2	142.0	2014.0	Action, Adventure, Sci-Fi	4/10/2014	6.6
2	tt0111161	The Shawshank Redemption	142.0	1994.0	Drama	9/10/1994	9.3
3	tt0076759	Star Wars	121.0	1977.0	Action, Adventure, Fantasy, Sci-Fi	5/25/1977	8.6
4	tt0088763	Back to the Future	116.0	1985.0	Adventure, Comedy, Sci-Fi	7/3/1985	8.5

```
In [4]: #Rename Columns
movies = movies.rename(columns= {'Const': 'IMDb ID'})
movies.head()
```

Out[4]:

	IMDb ID	Title	Runtime (mins)	Year	Genres	Release Date	IMDb Rating
0	tt0110912	Pulp Fiction	154.0	1994.0	Crime, Drama	5/21/1994	8.9
1	tt1872181	The Amazing Spider-Man 2	142.0	2014.0	Action, Adventure, Sci-Fi	4/10/2014	6.6
2	tt0111161	The Shawshank Redemption	142.0	1994.0	Drama	9/10/1994	9.3
3	tt0076759	Star Wars	121.0	1977.0	Action, Adventure, Fantasy, Sci-Fi	5/25/1977	8.6
4	tt0088763	Back to the Future	116.0	1985.0	Adventure, Comedy, Sci-Fi	7/3/1985	8.5

```
In [5]: #Drop rows with incomplete data
movies = movies.dropna()

#Extract rows from years 2010 and later
movies = movies[movies.iloc[:,3] >= 2010]
movies = movies.set_index(['IMDb ID'])
movies.head()
```

Out[5]:

	Title	Runtime (mins)	Year	Genres	Release Date	IMDb Rating
IMDb ID						
tt1872181	The Amazing Spider-Man 2	142.0	2014.0	Action, Adventure, Sci-Fi	4/10/2014	6.6
tt1323594	Despicable Me	95.0	2010.0	Animation, Comedy, Family, Fantasy	6/20/2010	7.7
tt1375670	Grown Ups	102.0	2010.0	Comedy	6/24/2010	6.0
tt0892769	How to Train Your Dragon	98.0	2010.0	Animation, Action, Adventure, Family, Fantasy	3/18/2010	8.1
tt1375666	Inception	148.0	2010.0	Action, Adventure, Sci-Fi, Thriller	7/8/2010	8.8

```
In [6]: #Change Year and Runtime to integers
movies[['Year', 'Runtime (mins)']] = movies[['Year', 'Runtime (mins)']].applymap(
    np.int64)
movies.head()
```

Out[6]:

	Title	Runtime (mins)	Year	Genres	Release Date	IMDb Rating
IMDb ID						
tt1872181	The Amazing Spider-Man 2	142	2014	Action, Adventure, Sci-Fi	4/10/2014	6.6
tt1323594	Despicable Me	95	2010	Animation, Comedy, Family, Fantasy	6/20/2010	7.7
tt1375670	Grown Ups	102	2010	Comedy	6/24/2010	6.0
tt0892769	How to Train Your Dragon	98	2010	Animation, Action, Adventure, Family, Fantasy	3/18/2010	8.1
tt1375666	Inception	148	2010	Action, Adventure, Sci-Fi, Thriller	7/8/2010	8.8

```
In [7]: # Pull: Rating, Metascore, and BoxOffice from omdb
movies['Metascore'] = ''
movies['Rating'] = ''
movies['Box Office'] = ''
count=0

movies.head()
```

Out[7]:

	Title	Runtime (mins)	Year	Genres	Release Date	IMDb Rating	Metascore	Rating	Box Office
IMDb ID									
tt1872181	The Amazing Spider- Man 2	142	2014	Action, Adventure, Sci-Fi	4/10/2014	6.6			
tt1323594	Despicable Me	95	2010	Animation, Comedy, Family, Fantasy	6/20/2010	7.7			
tt1375670	Grown Ups	102	2010	Comedy	6/24/2010	6.0			
tt0892769	How to Train Your Dragon	98	2010	Animation, Action, Adventure, Family, Fantasy	3/18/2010	8.1			
tt1375666	Inception	148	2010	Action, Adventure, Sci-Fi, Thriller	7/8/2010	8.8			

```
In [8]: for imdb in movies.index:
        try:
            count += 1
            url = 'http://www.omdbapi.com/?i={0}&apikey=trilogy'.format(imdb)
            results = requests.get(url).json()
            movies.loc[imdb, 'Rating'] = results['Rated']
            movies.loc[imdb, 'Metascore'] = results['Metascore']
            movies.loc[imdb, 'Box Office'] = results['BoxOffice']
            print(f'{imdb} processed: {count} / {len(movies.index)}')
            time.sleep(.1)
        except:
            print(f'Error processing {imdb}, skipping: {count} / {len(movies.index)}')
```

tt1872181 processed: 1 / 1562
tt1323594 processed: 2 / 1562
tt1375670 processed: 3 / 1562
tt0892769 processed: 4 / 1562
tt1375666 processed: 5 / 1562
tt1228705 processed: 6 / 1562
tt1250777 processed: 7 / 1562
tt1245526 processed: 8 / 1562
tt1130884 processed: 9 / 1562
tt1104001 processed: 10 / 1562
tt0435761 processed: 11 / 1562
tt0780504 processed: 12 / 1562
tt1596343 processed: 13 / 1562
tt1201607 processed: 14 / 1562
tt1219289 processed: 15 / 1562
tt1298650 processed: 16 / 1562
tt1270798 processed: 17 / 1562
tt1568346 processed: 18 / 1562
tt1454029 processed: 19 / 1562
tt1637688 processed: 20 / 1562
tt1232829 processed: 21 / 1562
tt0948470 processed: 22 / 1562
tt1605630 processed: 23 / 1562
tt0848228 processed: 24 / 1562
tt1440129 processed: 25 / 1562
tt1194173 processed: 26 / 1562
tt1217209 processed: 27 / 1562
tt1259521 processed: 28 / 1562
tt1790886 processed: 29 / 1562
tt1371111 processed: 30 / 1562
tt1345836 processed: 31 / 1562
tt1077368 processed: 32 / 1562
tt1853728 processed: 33 / 1562
tt1343727 processed: 34 / 1562
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tt1764651 processed: 36 / 1562
tt1907668 processed: 37 / 1562
tt1694020 processed: 38 / 1562
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tt0401729 processed: 43 / 1562
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tt2073029 processed: 1164 / 1562
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tt2536846 processed: 1191 / 1562
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tt1679180 processed: 1197 / 1562

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tt1666642 processed: 1218 / 1562
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tt2305700 processed: 1267 / 1562
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tt2086853 processed: 1270 / 1562
tt1691338 processed: 1271 / 1562
tt2049576 processed: 1272 / 1562
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tt2421662 processed: 1275 / 1562
tt2346046 processed: 1276 / 1562
tt1686812 processed: 1277 / 1562
Error processing tt2670492, skipping: 1278 / 1562
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tt2426110 processed: 1284 / 1562
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tt1964418 processed: 1307 / 1562
tt1663202 processed: 1308 / 1562
tt1979388 processed: 1309 / 1562
tt2381249 processed: 1310 / 1562
tt1628841 processed: 1311 / 1562

tt1790809 processed: 1312 / 1562
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tt1431045 processed: 1315 / 1562
tt2080374 processed: 1316 / 1562
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tt2379713 processed: 1318 / 1562
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Error processing tt2879552, skipping: 1537 / 1562
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tt2671706 processed: 1539 / 1562
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tt2397535 processed: 1543 / 1562
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tt2884018 processed: 1545 / 1562
tt2937898 processed: 1546 / 1562
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tt2180411 processed: 1548 / 1562
tt0790770 processed: 1549 / 1562
tt3829266 processed: 1550 / 1562
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tt3289728 processed: 1552 / 1562
tt2726552 processed: 1553 / 1562
tt1658801 processed: 1554 / 1562
tt3297330 processed: 1555 / 1562
tt3707106 processed: 1556 / 1562
tt3640424 processed: 1557 / 1562
tt2322517 processed: 1558 / 1562
tt3450900 processed: 1559 / 1562
tt0775440 processed: 1560 / 1562
tt3748172 processed: 1561 / 1562
tt4425200 processed: 1562 / 1562
```

In [9]: `movies`

Out[9]:

	Title	Runtime (mins)	Year	Genres	Release Date	IMDb Rating	Metascore	Rating	
IMDb ID									
tt1872181	The Amazing Spider-Man 2	142	2014	Action, Adventure, Sci-Fi	4/10/2014	6.6	53	PG-13	\$1
tt1323594	Despicable Me	95	2010	Animation, Comedy, Family, Fantasy	6/20/2010	7.7	72	PG	\$2
tt1375670	Grown Ups	102	2010	Comedy	6/24/2010	6.0	30	PG-13	\$1
tt0892769	How to Train Your Dragon	98	2010	Animation, Action, Adventure, Family, Fantasy	3/18/2010	8.1	74	PG	\$2
tt1375666	Inception	148	2010	Action, Adventure, Sci-Fi, Thriller	7/8/2010	8.8	74	PG-13	\$2
tt1228705	Iron Man 2	124	2010	Action, Adventure, Sci-Fi	4/26/2010	7.0	57	PG-13	\$3
tt1250777	Kick-Ass	117	2010	Action, Comedy	3/12/2010	7.6	66	R	\$
tt1245526	RED	111	2010	Action, Comedy, Crime, Thriller	9/29/2010	7.1	60	PG-13	\$
tt1130884	Shutter Island	138	2010	Mystery, Thriller	2/13/2010	8.1	63	R	\$1
tt1104001	Tron	125	2010	Action, Adventure, Fantasy, Sci-Fi	11/30/2010	6.8	49	PG	\$1
tt0435761	Toy Story 3	103	2010	Animation, Adventure, Comedy, Family, Fantasy	6/12/2010	8.3	92	G	\$4
tt0780504	Drive	100	2011	Crime, Drama	5/20/2011	7.8	78	R	\$
tt1596343	Fast Five	130	2011	Action, Crime, Thriller	4/15/2011	7.3	66	PG-13	\$2
tt1201607	Harry Potter and the Deathly Hallows: Part 2	130	2011	Adventure, Drama, Fantasy, Mystery	7/7/2011	8.1	87	PG-13	\$3
tt1219289	Limitless	105	2011	Mystery, Sci-Fi, Thriller	3/8/2011	7.4	59	PG-13	\$

	Title	Runtime (mins)	Year	Genres	Release Date	IMDb Rating	Metascore	Rating	
IMDb ID									
tt1298650	Pirates of the Caribbean: On Stranger Tides	136	2011	Action, Adventure, Fantasy	5/7/2011	6.6	45	PG-13	\$2
tt1270798	X: First Class	131	2011	Action, Adventure, Sci-Fi	5/25/2011	7.7	65	PG-13	\$1
tt1568346	The Girl with the Dragon Tattoo	158	2011	Crime, Drama, Mystery, Thriller	12/12/2011	7.8	71	R	\$1
tt1454029	The Help	146	2011	Drama	8/9/2011	8.1	62	PG-13	\$1
tt1637688	In Time	109	2011	Action, Crime, Drama, Sci-Fi, Thriller	10/20/2011	6.7	53	PG-13	\$
tt1232829	21 Jump Street	109	2012	Action, Comedy, Crime	3/12/2012	7.2	69	R	\$1
tt0948470	The Amazing Spider-Man	136	2012	Action, Adventure, Sci-Fi	6/13/2012	7.0	66	PG-13	\$2
tt1605630	American Reunion	113	2012	Comedy	4/4/2012	6.7	49	R	\$
tt0848228	The Avengers	143	2012	Action, Adventure, Sci-Fi	4/11/2012	8.1	69	PG-13	\$6
tt1440129	Battleship	131	2012	Action, Adventure, Sci-Fi, Thriller	4/3/2012	5.8	41	PG-13	\$
tt1194173	The Bourne Legacy	135	2012	Action, Adventure, Thriller	7/30/2012	6.7	61	PG-13	\$1
tt1217209	Brave	93	2012	Animation, Adventure, Comedy, Family, Fantasy	6/10/2012	7.1	69	PG	\$2
tt1259521	The Cabin in the Woods	95	2011	Comedy, Horror	12/11/2011	7.0	72	R	\$
tt1790886	The Campaign	85	2012	Comedy	8/4/2012	6.1	50	R	\$
tt1371111	Cloud Atlas	172	2012	Action, Drama, Mystery, Sci-Fi	9/8/2012	7.4	55	R	\$
...
tt2402927	Carol	118	2015	Drama, Romance	5/17/2015	7.2	95	R	

IMDb ID	Title	Runtime (mins)	Year	Genres	Release Date	IMDb Rating	Metascore	Rating	
tt2374684	Into the Rainbow	88	2017	Action, Adventure, Family, Fantasy	4/8/2017	6.6	N/A	N/A	
tt1703957	Genius	104	2016	Biography, Drama	2/16/2016	6.6	56	PG-13	
tt2494376	Justice League Dark	75	2017	Animation, Action, Fantasy, Horror, Sci-Fi	1/24/2017	7.1	N/A	R	
tt2879552	11.22.63	60	2016	Drama, Mystery, Sci-Fi, Thriller	2/15/2016	8.2	N/A	TV-MA	
tt2062700	Song to Song	129	2017	Drama, Music, Romance	3/10/2017	5.7	54	R	
tt2671706	Fences	139	2016	Drama	12/6/2016	7.2	79	PG-13	\$
tt2788710	The Interview	112	2014	Comedy	12/11/2014	6.5	52	R	
tt1754656	Le Petit Prince	108	2015	Animation, Adventure, Drama, Family, Fantasy	5/22/2015	7.7	70	PG	
tt2802144	Kingsman: The Secret Service	129	2014	Action, Adventure, Comedy, Thriller	12/13/2014	7.7	60	R	\$1
tt2397535	Predestination	97	2014	Drama, Mystery, Sci-Fi, Thriller	3/8/2014	7.5	69	R	
tt3353060	Stealing Cars	94	2015	Drama	6/13/2015	5.8	N/A	R	
tt2884018	Macbeth	113	2015	Drama, History, War	5/23/2015	6.6	71	R	
tt2937898	A Most Violent Year	125	2014	Crime, Drama, Thriller	11/6/2014	7.0	79	R	
tt3397884	Sicario	121	2015	Action, Crime, Drama, Mystery, Thriller	5/19/2015	7.6	82	R	
tt2180411	Into the Woods	125	2014	Adventure, Comedy, Drama, Fantasy, Musical	12/8/2014	6.0	69	PG	\$
tt0790770	Miles Ahead	100	2015	Biography, Drama, Music, Romance	10/10/2015	6.4	64	R	

IMDb ID	Title	Runtime (mins)	Year	Genres	Release Date	IMDb Rating	Metascore	Rating
tt3829266	The Predator	107	2018	Action, Adventure, Sci-Fi, Thriller	9/7/2018	5.4	48	R
tt2494362	Bone Tomahawk	132	2015	Adventure, Drama, Horror, Western	10/1/2015	7.1	72	Not Rated
tt3289728	Equals	101	2015	Drama, Romance, Sci-Fi	9/5/2015	6.1	43	PG-13
tt2726552	A Kind of Murder	95	2016	Crime, Drama, Thriller	4/17/2016	5.3	50	R
tt1658801	Freeheld	103	2015	Documentary, Biography, Drama, Romance	9/13/2015	6.5	50	PG-13
tt3297330	Good Kill	102	2014	Drama, Thriller, War	9/5/2014	6.4	63	R
tt3707106	By the Sea	122	2015	Drama, Romance	11/5/2015	5.3	44	R
tt3640424	Allied	124	2016	Action, Drama, Romance, Thriller, War	11/13/2016	7.1	60	R \$
tt2322517	Mojave	93	2015	Drama, Thriller	4/18/2015	5.2	41	R
tt3450900	The Sea of Trees	110	2015	Drama, Fantasy, Mystery	5/16/2015	6.0	23	PG-13
tt0775440	Cell	98	2016	Action, Drama, Horror, Sci-Fi, Thriller	5/19/2016	4.3	38	R
tt3748172	Gerald's Game	103	2017	Drama, Horror, Thriller	9/19/2017	6.6	77	TV-MA
tt4425200	John Wick: Chapter 2	122	2017	Action, Crime, Thriller	1/30/2017	7.5	75	R \$

1562 rows × 9 columns

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In [10]: #Clean df
movies = movies.dropna()
movies = movies[~movies['Box Office'].str.contains("N/A")]
movies = movies[~movies['Rating'].str.contains("N/A")]
movies = movies[~movies['Metascore'].str.contains("N/A")]

movies
```

Out[10]:

IMDb ID	Title	Runtime (mins)	Year	Genres	Release Date	IMDb Rating	Metascore	Rating	Bc
tt1872181	The Amazing Spider-Man 2	142	2014	Action, Adventure, Sci-Fi	4/10/2014	6.6	53	PG-13	\$183
tt1323594	Despicable Me	95	2010	Animation, Comedy, Family, Fantasy	6/20/2010	7.7	72	PG	\$251
tt1375670	Grown Ups	102	2010	Comedy	6/24/2010	6.0	30	PG-13	\$162
tt0892769	How to Train Your Dragon	98	2010	Animation, Action, Adventure, Family, Fantasy	3/18/2010	8.1	74	PG	\$216
tt1375666	Inception	148	2010	Action, Adventure, Sci-Fi, Thriller	7/8/2010	8.8	74	PG-13	\$292
tt1228705	Iron Man 2	124	2010	Action, Adventure, Sci-Fi	4/26/2010	7.0	57	PG-13	\$312
tt1250777	Kick-Ass	117	2010	Action, Comedy	3/12/2010	7.6	66	R	\$20
tt1245526	RED	111	2010	Action, Comedy, Crime, Thriller	9/29/2010	7.1	60	PG-13	\$88
tt1130884	Shutter Island	138	2010	Mystery, Thriller	2/13/2010	8.1	63	R	\$125
tt1104001	Tron	125	2010	Action, Adventure, Fantasy, Sci-Fi	11/30/2010	6.8	49	PG	\$172
tt0435761	Toy Story 3	103	2010	Animation, Adventure, Comedy, Family, Fantasy	6/12/2010	8.3	92	G	\$414
tt0780504	Drive	100	2011	Crime, Drama	5/20/2011	7.8	78	R	\$34
tt1596343	Fast Five	130	2011	Action, Crime, Thriller	4/15/2011	7.3	66	PG-13	\$209
tt1201607	Harry Potter and the Deathly Hallows: Part 2	130	2011	Adventure, Drama, Fantasy, Mystery	7/7/2011	8.1	87	PG-13	\$381
tt1219289	Limitless	105	2011	Mystery, Sci-Fi, Thriller	3/8/2011	7.4	59	PG-13	\$79

	Title	Runtime (mins)	Year	Genres	Release Date	IMDb Rating	Metascore	Rating	Bc
IMDb ID									
tt1298650	Pirates of the Caribbean: On Stranger Tides	136	2011	Action, Adventure, Fantasy	5/7/2011	6.6	45	PG-13	\$241
tt1270798	X: First Class	131	2011	Action, Adventure, Sci-Fi	5/25/2011	7.7	65	PG-13	\$145
tt1568346	The Girl with the Dragon Tattoo	158	2011	Crime, Drama, Mystery, Thriller	12/12/2011	7.8	71	R	\$102
tt1454029	The Help	146	2011	Drama	8/9/2011	8.1	62	PG-13	\$169
tt1637688	In Time	109	2011	Action, Crime, Drama, Sci-Fi, Thriller	10/20/2011	6.7	53	PG-13	\$35
tt1232829	21 Jump Street	109	2012	Action, Comedy, Crime	3/12/2012	7.2	69	R	\$134
tt0948470	The Amazing Spider-Man	136	2012	Action, Adventure, Sci-Fi	6/13/2012	7.0	66	PG-13	\$262
tt1605630	American Reunion	113	2012	Comedy	4/4/2012	6.7	49	R	\$55
tt0848228	The Avengers	143	2012	Action, Adventure, Sci-Fi	4/11/2012	8.1	69	PG-13	\$623
tt1440129	Battleship	131	2012	Action, Adventure, Sci-Fi, Thriller	4/3/2012	5.8	41	PG-13	\$65
tt1194173	The Bourne Legacy	135	2012	Action, Adventure, Thriller	7/30/2012	6.7	61	PG-13	\$113
tt1217209	Brave	93	2012	Animation, Adventure, Comedy, Family, Fantasy	6/10/2012	7.1	69	PG	\$237
tt1259521	The Cabin in the Woods	95	2011	Comedy, Horror	12/11/2011	7.0	72	R	\$42
tt1790886	The Campaign	85	2012	Comedy	8/4/2012	6.1	50	R	\$86
tt1371111	Cloud Atlas	172	2012	Action, Drama, Mystery, Sci-Fi	9/8/2012	7.4	55	R	\$22
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	Title	Runtime (mins)	Year	Genres	Release Date	IMDb Rating	Metascore	Rating	Bc
IMDb ID									
tt1179933	10 Cloverfield Lane	103	2016	Drama, Horror, Mystery, Sci-Fi, Thriller	3/8/2016	7.2	76	PG-13	\$59
tt1126590	Big Eyes	106	2014	Biography, Crime, Drama, Romance	11/13/2014	7.0	62	PG-13	\$8
tt1648190	The Dark Tower	95	2017	Action, Adventure, Fantasy, Horror, Sci-Fi, We...	8/3/2017	5.7	34	PG-13	\$50
tt2378507	The Glass Castle	127	2017	Biography, Drama	8/11/2017	7.2	56	PG-13	\$17
tt1366338	Lowriders	98	2016	Adventure, Crime, Drama	6/1/2016	5.7	57	PG-13	\$6
tt1798603	Bad Santa 2	92	2016	Comedy, Crime, Drama	11/23/2016	5.6	38	R	\$17
tt0491203	Tulip Fever	105	2017	Drama, History, Romance	7/13/2017	6.2	38	R	\$2
tt0460890	The Only Living Boy in New York	89	2017	Drama	7/27/2017	6.3	33	R	\$
tt1791528	Inherent Vice	148	2014	Comedy, Crime, Drama, Mystery, Romance	10/4/2014	6.7	81	R	\$6
tt1374989	Pride and Prejudice and Zombies	108	2016	Action, Horror, Romance	1/21/2016	5.8	45	PG-13	\$8
tt1727824	Bohemian Rhapsody	134	2018	Biography, Drama, Music	10/23/2018	8.1	49	PG-13	
tt1365050	Beasts of No Nation	137	2015	Drama, War	9/3/2015	7.8	79	Not Rated	
tt2402101	Dark Places	113	2015	Action, Drama, Mystery, Thriller	3/31/2015	6.2	39	R	\$
tt2179136	American Sniper	133	2014	Action, Biography, Drama, War	11/11/2014	7.3	72	R	\$274

	Title	Runtime (mins)	Year	Genres	Release Date	IMDb Rating	Metascore	Rating	Bc
IMDb ID									
tt1355644	Passengers	116	2016	Drama, Romance, Sci-Fi, Thriller	12/14/2016	7.0	41	PG-13	\$100
tt1881002	Maggie	95	2015	Drama, Horror	4/22/2015	5.6	52	PG-13	\$
tt1469304	Baywatch	116	2017	Action, Comedy, Crime	5/12/2017	5.6	37	R	\$58
tt2402927	Carol	118	2015	Drama, Romance	5/17/2015	7.2	95	R	\$8
tt1703957	Genius	104	2016	Biography, Drama	2/16/2016	6.6	56	PG-13	\$1
tt2062700	Song to Song	129	2017	Drama, Music, Romance	3/10/2017	5.7	54	R	\$
tt2671706	Fences	139	2016	Drama	12/6/2016	7.2	79	PG-13	\$57
tt2788710	The Interview	112	2014	Comedy	12/11/2014	6.5	52	R	\$4
tt2802144	Kingsman: The Secret Service	129	2014	Action, Adventure, Comedy, Thriller	12/13/2014	7.7	60	R	\$119
tt2397535	Predestination	97	2014	Drama, Mystery, Sci-Fi, Thriller	3/8/2014	7.5	69	R	\$
tt2884018	Macbeth	113	2015	Drama, History, War	5/23/2015	6.6	71	R	\$1
tt2180411	Into the Woods	125	2014	Adventure, Comedy, Drama, Fantasy, Musical	12/8/2014	6.0	69	PG	\$89
tt3707106	By the Sea	122	2015	Drama, Romance	11/5/2015	5.3	44	R	\$
tt3640424	Allied	124	2016	Action, Drama, Romance, Thriller, War	11/13/2016	7.1	60	R	\$40
tt3450900	The Sea of Trees	110	2015	Drama, Fantasy, Mystery	5/16/2015	6.0	23	PG-13	
tt4425200	John Wick: Chapter 2	122	2017	Action, Crime, Thriller	1/30/2017	7.5	75	R	\$91

1017 rows × 9 columns


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In [12]: #Convert Box Office column to int
movies['Box Office'] = movies[movies.columns[8:]].replace('[\$,]', '', regex=True).astype(float)
movies['Box Office'] = movies['Box Office'].astype(int)
movies
```

Out[12]:

IMDb ID	Title	Runtime (mins)	Year	Genres	Release Date	IMDb Rating	Metascore	Rating	Box
tt1872181	The Amazing Spider-Man 2	142	2014	Action, Adventure, Sci-Fi	4/10/2014	6.6	53	PG-13	1832
tt1323594	Despicable Me	95	2010	Animation, Comedy, Family, Fantasy	6/20/2010	7.7	72	PG	2514
tt1375670	Grown Ups	102	2010	Comedy	6/24/2010	6.0	30	PG-13	1620
tt0892769	How to Train Your Dragon	98	2010	Animation, Action, Adventure, Family, Fantasy	3/18/2010	8.1	74	PG	2169
tt1375666	Inception	148	2010	Action, Adventure, Sci-Fi, Thriller	7/8/2010	8.8	74	PG-13	2925
tt1228705	Iron Man 2	124	2010	Action, Adventure, Sci-Fi	4/26/2010	7.0	57	PG-13	3120
tt1250777	Kick-Ass	117	2010	Action, Comedy	3/12/2010	7.6	66	R	200
tt1245526	RED	111	2010	Action, Comedy, Crime, Thriller	9/29/2010	7.1	60	PG-13	889
tt1130884	Shutter Island	138	2010	Mystery, Thriller	2/13/2010	8.1	63	R	1250
tt1104001	Tron	125	2010	Action, Adventure, Fantasy, Sci-Fi	11/30/2010	6.8	49	PG	1720
tt0435761	Toy Story 3	103	2010	Animation, Adventure, Comedy, Family, Fantasy	6/12/2010	8.3	92	G	4149
tt0780504	Drive	100	2011	Crime, Drama	5/20/2011	7.8	78	R	343
tt1596343	Fast Five	130	2011	Action, Crime, Thriller	4/15/2011	7.3	66	PG-13	2098
tt1201607	Harry Potter and the Deathly Hallows: Part 2	130	2011	Adventure, Drama, Fantasy, Mystery	7/7/2011	8.1	87	PG-13	3810
tt1219289	Limitless	105	2011	Mystery, Sci-Fi, Thriller	3/8/2011	7.4	59	PG-13	792

	Title	Runtime (mins)	Year	Genres	Release Date	IMDb Rating	Metascore	Rating	Box
IMDb ID									
tt1298650	Pirates of the Caribbean: On Stranger Tides	136	2011	Action, Adventure, Fantasy	5/7/2011	6.6	45	PG-13	2410
tt1270798	X: First Class	131	2011	Action, Adventure, Sci-Fi	5/25/2011	7.7	65	PG-13	1453
tt1568346	The Girl with the Dragon Tattoo	158	2011	Crime, Drama, Mystery, Thriller	12/12/2011	7.8	71	R	1025
tt1454029	The Help	146	2011	Drama	8/9/2011	8.1	62	PG-13	1697
tt1637688	In Time	109	2011	Action, Crime, Drama, Sci-Fi, Thriller	10/20/2011	6.7	53	PG-13	359
tt1232829	21 Jump Street	109	2012	Action, Comedy, Crime	3/12/2012	7.2	69	R	1340
tt0948470	The Amazing Spider-Man	136	2012	Action, Adventure, Sci-Fi	6/13/2012	7.0	66	PG-13	2620
tt1605630	American Reunion	113	2012	Comedy	4/4/2012	6.7	49	R	553
tt0848228	The Avengers	143	2012	Action, Adventure, Sci-Fi	4/11/2012	8.1	69	PG-13	6232
tt1440129	Battleship	131	2012	Action, Adventure, Sci-Fi, Thriller	4/3/2012	5.8	41	PG-13	651
tt1194173	The Bourne Legacy	135	2012	Action, Adventure, Thriller	7/30/2012	6.7	61	PG-13	1131
tt1217209	Brave	93	2012	Animation, Adventure, Comedy, Family, Fantasy	6/10/2012	7.1	69	PG	2372
tt1259521	The Cabin in the Woods	95	2011	Comedy, Horror	12/11/2011	7.0	72	R	420
tt1790886	The Campaign	85	2012	Comedy	8/4/2012	6.1	50	R	868
tt1371111	Cloud Atlas	172	2012	Action, Drama, Mystery, Sci-Fi	9/8/2012	7.4	55	R	221
...

IMDb ID	Title	Runtime (mins)	Year	Genres	Release Date	IMDb Rating	Metascore	Rating	Box
tt1179933	10 Cloverfield Lane	103	2016	Drama, Horror, Mystery, Sci-Fi, Thriller	3/8/2016	7.2	76	PG-13	594
tt1126590	Big Eyes	106	2014	Biography, Crime, Drama, Romance	11/13/2014	7.0	62	PG-13	80
tt1648190	The Dark Tower	95	2017	Action, Adventure, Fantasy, Horror, Sci-Fi, We...	8/3/2017	5.7	34	PG-13	506
tt2378507	The Glass Castle	127	2017	Biography, Drama	8/11/2017	7.2	56	PG-13	172
tt1366338	Lowriders	98	2016	Adventure, Crime, Drama	6/1/2016	5.7	57	PG-13	61
tt1798603	Bad Santa 2	92	2016	Comedy, Crime, Drama	11/23/2016	5.6	38	R	176
tt0491203	Tulip Fever	105	2017	Drama, History, Romance	7/13/2017	6.2	38	R	23
tt0460890	The Only Living Boy in New York	89	2017	Drama	7/27/2017	6.3	33	R	6
tt1791528	Inherent Vice	148	2014	Comedy, Crime, Drama, Mystery, Romance	10/4/2014	6.7	81	R	61
tt1374989	Pride and Prejudice and Zombies	108	2016	Action, Horror, Romance	1/21/2016	5.8	45	PG-13	86
tt1727824	Bohemian Rhapsody	134	2018	Biography, Drama, Music	10/23/2018	8.1	49	PG-13	
tt1365050	Beasts of No Nation	137	2015	Drama, War	9/3/2015	7.8	79	Not Rated	
tt2402101	Dark Places	113	2015	Action, Drama, Mystery, Thriller	3/31/2015	6.2	39	R	1
tt2179136	American Sniper	133	2014	Action, Biography, Drama, War	11/11/2014	7.3	72	R	2743

	Title	Runtime (mins)	Year	Genres	Release Date	IMDb Rating	Metascore	Rating	Box
IMDb ID									
tt1355644	Passengers	116	2016	Drama, Romance, Sci-Fi, Thriller	12/14/2016	7.0	41	PG-13	1000
tt1881002	Maggie	95	2015	Drama, Horror	4/22/2015	5.6	52	PG-13	1
tt1469304	Baywatch	116	2017	Action, Comedy, Crime	5/12/2017	5.6	37	R	580
tt2402927	Carol	118	2015	Drama, Romance	5/17/2015	7.2	95	R	85
tt1703957	Genius	104	2016	Biography, Drama	2/16/2016	6.6	56	PG-13	13
tt2062700	Song to Song	129	2017	Drama, Music, Romance	3/10/2017	5.7	54	R	4
tt2671706	Fences	139	2016	Drama	12/6/2016	7.2	79	PG-13	576
tt2788710	The Interview	112	2014	Comedy	12/11/2014	6.5	52	R	45
tt2802144	Kingsman: The Secret Service	129	2014	Action, Adventure, Comedy, Thriller	12/13/2014	7.7	60	R	1194
tt2397535	Predestination	97	2014	Drama, Mystery, Sci-Fi, Thriller	3/8/2014	7.5	69	R	2
tt2884018	Macbeth	113	2015	Drama, History, War	5/23/2015	6.6	71	R	17
tt2180411	Into the Woods	125	2014	Adventure, Comedy, Drama, Fantasy, Musical	12/8/2014	6.0	69	PG	897
tt3707106	By the Sea	122	2015	Drama, Romance	11/5/2015	5.3	44	R	3
tt3640424	Allied	124	2016	Action, Drama, Romance, Thriller, War	11/13/2016	7.1	60	R	400
tt3450900	The Sea of Trees	110	2015	Drama, Fantasy, Mystery	5/16/2015	6.0	23	PG-13	
tt4425200	John Wick: Chapter 2	122	2017	Action, Crime, Thriller	1/30/2017	7.5	75	R	919

1017 rows × 9 columns

```
In [13]: # Save Data to csv  
movies.to_csv("Movie_Data.csv")
```