'genre_ids': [18, 80], 'id': 278, 'original_language': 'en', 'original_title': 'The Shawshank Redemption', 'overview': 'Framed in the 1940s for the double murder of his wife and her lover, upstanding banker Andy Dufresne begins a new life at the Shawshank prison, where he puts his acc ounting skills to work for an amoral warden. During his long stretch in prison, Dufresne comes to be admired by the other inmates -- including an older prisoner named Red -- for hi s integrity and unquenchable sense of hope.', 'popularity': 92.161, 'poster_path': '/q6y0Go1tsGEsmtFryD0Jo3dEmqu.jpg', 'release_date': '1994-09-23', 'title': 'The Shawshank Redemption', 'video': False, 'vote_average': 8.7, 'vote_count': 21884}, {'adult': False, 'backdrop_path': '/90ez6Arvp08bvpyIngBuwX0qJm5.jpg', 'genre_ids': [35, 18, 10749], 'id': 19404, 'original_language': 'hi', 'original_title': 'दिलवाले दुल्हिनया ले जायेंगे', 'overview': 'Raj is a rich, carefree, happy-go-lucky second generation NRI. Simran is the daughter of Chaudhary Baldev Singh, who in spite of being an NRI is very strict about ad herence to Indian values. Simran has left for India to be married to her childhood fiancé. Raj leaves for India with a mission at his hands, to claim his lady love under the noses of her whole family. Thus begins a saga.', 'popularity': 27.861, 'poster_path': '/2CAL2433ZeIihfX1Hb2139CX0pW.jpg', 'release_date': '1995-10-19', 'title': 'Dilwale Dulhania Le Jayenge', 'video': False, 'vote_average': 8.7, 'vote_count': 3741}, {'adult': False, 'backdrop_path': '/AbgEQO2mneCSOc8CSnOMa8pBS8I.jpg', 'genre_ids': [18, 80], 'id': 238, 'original_language': 'en', 'original_title': 'The Godfather', 'overview': 'Spanning the years 1945 to 1955, a chronicle of the fictional Italian-American Corleone crime family. When organized crime family patriarch, Vito Corleone barely sur vives an attempt on his life, his youngest son, Michael steps in to take care of the would-be killers, launching a campaign of bloody revenge.', 'popularity': 77.666, 'poster_path': '/3bhkrj58Vtu7enYsRolD1fZdja1.jpg', 'release_date': '1972-03-14', 'title': 'The Godfather', 'video': False, 'vote_average': 8.7, 'vote_count': 16296}, {'adult': False, '/loRmRzQXZeqG78TqZuyvSlEQfZb.jpg', 'backdrop_path': 'genre_ids': [18, 36, 10752], 'id': 424, 'original_language': 'en', 'original_title': "Schindler's List", 'overview': 'The true story of how businessman Oskar Schindler saved over a thousand Jewish lives from the Nazis while they worked as slaves in his factory during World War II.', 'popularity': 45.895, 'poster_path': '/sF1U4EUQS8YHUYjNl3pMGNIQyr0.jpg', 'release_date': '1993-12-15', 'title': "Schindler's List", 'video': False, 'vote_average': 8.6, 'vote_count': 12971}, {'adult': False, 'backdrop_path': '/poec6RqOKY9iSiIUmfyfPfiLtvB.jpg', 'genre_ids': [18, 80], 'id': 240, 'original_language': 'en', 'original_title': 'The Godfather: Part II', 'overview': 'In the continuing saga of the Corleone crime family, a young Vito Corleone grows up in Sicily and in 1910s New York. In the 1950s, Michael Corleone attempts to expan d the family business into Las Vegas, Hollywood and Cuba.', 'popularity': 54.822, 'poster_path': '/hek3koDUyRQk7FIhPXsa6mT2Zc3.jpg', 'release_date': '1974-12-20', 'title': 'The Godfather: Part II', 'video': False, 'vote_average': 8.6, 'vote_count': 9822}, {'adult': False, 'backdrop_path': '/bxSBOAD8AuMHYMdW3jso9npAkgt.jpg', 'genre_ids': [10751, 18], 'id': 667257, 'original_language': 'es', 'original_title': 'Cosas imposibles', 'overview': 'Matilde is a woman who, after the death of her husband - a man who constantly abused her - finds her new best friend in Miguel, her young, insecure, disoriented and even dealer neighbor', 'popularity': 12.681, 'poster_path': '/t2Ew8NZ8Ci2kqmoecZUNQUFDJnQ.jpg', 'release_date': '2021-06-17', 'title': 'Impossible Things', 'video': False, 'vote_average': 8.6, 'vote_count': 256}, {'adult': False, 'backdrop_path': '/hZth9NCeXvv07Xi98d8q34e1Ier.jpg', 'genre_ids': [16, 10751, 14], 'id': 129, 'original_language': 'ja', 'original_title': '千と千尋の神隠し', 'overview': 'A young girl, Chihiro, becomes trapped in a strange new world of spirits. When her parents undergo a mysterious transformation, she must call upon the courage she ne ver knew she had to free her family.', 'popularity': 83.875, 'poster_path': '/39wmItIWsg5sZMyRUHLkWBcuVCM.jpg', 'release_date': '2001-07-20', 'title': 'Spirited Away',
'video': False, 'vote_average': 8.5, 'vote_count': 13108}, {'adult': False, 'backdrop_path': '/v5CEt88iDsuoMaW1Q5Msu9UZdEt.jpg', 'genre_ids': [10749, 18], 'id': 730154, 'original_language': 'ja', 'original_title': 'きみの瞳が問いかけている', 'overview': "A tragic accident lead to Kaori's blindness, but she clings to life and the smaller pleasures it can still afford her. She meets Rui and begins to talk to him. Rui w as once a promising kickboxer, but something happened in his past. Kaori's smile brings out a change in Rui. However, the two are connected in more than one way. Rui attempts to do what is right.", 'popularity': 62.569, 'poster_path': '/cVn8E3Fxbi8HzYYtaSfsblYC4gl.jpg', 'release_date': '2020-10-23', 'title': 'Your Eyes Tell',

'overview': 'Rihito Sajo, an honor student with a perfect score on the entrance exam and Hikaru Kusakabe, in a band and popular among girls, would have never crossed paths. Until one day they started talking at the practice for their school's upcoming chorus festival. After school, the two meet regularly, as Hikaru helps Rihito to improve his singing skill

'overview': 'High schoolers Mitsuha and Taki are complete strangers living separate lives. But one night, they suddenly switch places. Mitsuha wakes up in Taki's body, and he in

'overview': "The defense and the prosecution have rested and the jury is filing into the jury room to decide if a young Spanish-American is guilty or innocent of murdering his fa

'overview': "An intriguing and sinful exploration of seduction, forbidden love, and redemption, Gabriel's Inferno is a captivating and wildly passionate tale of one man's escape

'overview': "All unemployed, Ki-taek's family takes peculiar interest in the wealthy and glamorous Parks for their livelihood until they get entangled in an unexpected inciden

'overview': "A supernatural tale set on death row in a Southern prison, where gentle giant John Coffey possesses the mysterious power to heal people's ailments. When the cell blo

'overview': "Professor Gabriel Emerson finally learns the truth about Julia Mitchell's identity, but his realization comes a moment too late. Julia is done waiting for the well-r

'overview': 'Batman raises the stakes in his war on crime. With the help of Lt. Jim Gordon and District Attorney Harvey Dent, Batman sets out to dismantle the remaining criminal organizations that plague the streets. The partnership proves to be effective, but they soon find themselves prey to a reign of chaos unleashed by a rising criminal mastermind know

'overview': 'While the Civil War rages between the Union and the Confederacy, three men - a quiet loner, a ruthless hit man and a Mexican bandit - comb the American Southwest in

'overview': "A burger-loving hit man, his philosophical partner, a drug-addled gangster's moll and a washed-up boxer converge in this sprawling, comedic crime caper. Their advent

'overview': "Aragorn is revealed as the heir to the ancient kings as he, Gandalf and the other members of the broken fellowship struggle to save Gondor from Sauron's forces. Mean

'overview': "The final part of the film adaption of the erotic romance novel Gabriel's Inferno written by an anonymous Canadian author under the pen name Sylvain Reynard.",

Framed in the 1940s for the double murder of h...

Raj is a rich, carefree, happy-go-lucky second...

Spanning the years 1945 to 1955, a chronicle o...

In the continuing saga of the Corleone crime f...

Matilde is a woman who, after the death of her...

A young girl, Chihiro, becomes trapped in a st...

A tragic accident lead to Kaori's blindness, b..

Rihito Sajo, an honor student with a perfect s...

An intriguing and sinful exploration of seduct..

All unemployed, Ki-taek's family takes peculia...

A supernatural tale set on death row in a Sout...

Professor Gabriel Emerson finally learns the t...

Batman raises the stakes in his war on crime.

While the Civil War rages between the Union an...

A burger-loving hit man, his philosophical par...

Aragorn is revealed as the heir to the ancient..

The final part of the film adaption of the ero...

overview popularity

92.161

27.861

77.666

45.895

54.822

489.525

7.486

25.540

6.492

15.260

High schoolers Mitsuha and Taki are complete s...

The defense and the prosecution have rested an...

8.6 The true story of how businessman Oskar Schind...

overview popularity

92.161

27.861

77.666

45.895

54.822

12.681

83.875

62.569

12.911

161.144

23.178

12.222

67.367

61.997

10.823

85.751

36.404

67.171

129.783

54.901

ck's head guard, Paul Edgecomb, recognizes Coffey's miraculous gift, he tries desperately to help stave off the condemned man's execution.",

espected Dante specialist to remember her and wants nothing more to do with him. Can Gabriel win back her heart before she finds love in another's arms?",

ther. What begins as an open and shut case soon becomes a mini-drama of each of the jurors' prejudices and preconceptions about the trial, the accused, and each other.",

response = requests.get('https://api.themoviedb.org/3/movie/top_rated?api_key=8265bd1679663a7ea12ac168da84d2e8&language=en-US&page=1')

WEB SCRAPING USING AN API

'backdrop_path': '/kXfqcdQKsToOOOUXHcrrNCHDBzO.jpg',

IMPORTING THE REQUIRED LIBRARIES

SCRAPING PAGE 1 OF THE WEB

import pandas as pd
import requests

SENDING REQUEST

response.json()['results']

response

Out[4]: [{'adult': False,

<Response [200]>

'video': False,
'vote_average': 8.5,
'vote_count': 340},
{'adult': False,

'id': 372754,

'genre_ids': [10749, 16],

'original_language': 'ja', 'original_title': '同級生',

'release_date': '2016-02-20',

'genre_ids': [10749, 16, 18],

'release_date': '2016-08-26',

'original_language': 'ja', 'original_title': '君の名は。'

'popularity': 161.144,

'title': 'Your Name.',

'video': False,
'vote_average': 8.5,
'vote_count': 8905},

{'adult': False,

'id': 389,

'genre_ids': [18],

'popularity': 23.178,

'genre_ids': [10749],

'popularity': 12.222,

'original_language': 'en',

'release_date': '2020-05-29',
'title': "Gabriel's Inferno",

'genre_ids': [35, 53, 18],

'original_language': 'ko', 'original_title': '기생충',

'release_date': '2019-05-30',

'genre_ids': [14, 18, 80],

'original_language': 'en',

'release_date': '1999-12-10', 'title': 'The Green Mile',

'popularity': 61.997,

'genre_ids': [10749],

'popularity': 10.823,

'original_language': 'en',

'release_date': '2020-07-31',

'genre_ids': [18, 28, 80, 53],

'original_title': 'The Dark Knight',

'original_language': 'en',

'release_date': '2008-07-14',
'title': 'The Dark Knight',

'popularity': 85.751,

'vote_average': 8.5,
'vote_count': 27940},

'genre_ids': [37],

'popularity': 36.404,

'genre_ids': [53, 80],

'popularity': 67.171,

'video': False,
'vote_average': 8.5,
'vote_count': 23503},

{'adult': False,

'video': False,

{'adult': False,

'id': 761053,

'video': False,
'vote_average': 8.5,
'vote_count': 977}]

278

238

424

240

129

5 667257

7 730154

8 372754

11 696374

12

13

14

15

16

17

18

In [8]:

Out[9]:

0

1

3

4

8555

8557

8558

8559

In [10]

Out[10]:

In [11]:

Out[11]:

In [13]:

19404

238

424

240

829557

73499

12517

9384

8560 rows × 6 columns

id release_date

1995-10-19

1972-03-14

1993-12-15

1974-12-20

id release_date

2014-01-20

2011-10-27

2005-03-09

2004-03-05

8556 244783

df.head()

278

238

424

240

df.tail()

8555 829557

8556 244783

df.shape

73499

12517

9384

8557

8558

8559

Out[13]: (8560, 6)

1 19404

372058

496243

724089

497

155

429

680

122

df = pd.DataFrame()

for i in range(1,429):

id release_date

1972-03-14

1993-12-15

1974-12-20

2022-04-27

2014-01-20

2011-10-27

2005-03-09

2004-03-05

1994-09-23 The Shawshank Redemption

2022-04-27 365 Days: This Day

CONVERTING THIS DATA INTO A CSV FILE

df.to_csv('tmdb top rated movies.csv')

Dilwale Dulhania Le Jayenge

The Godfather

Schindler's List

The Godfather: Part II

Song One

The Double

The Ordeal

Starsky & Hutch

19 761053

389

19404

In [6]:

Out[6]:

'vote_count': 19867},

'genre_ids': [10749, 35],

'original_language': 'en'

'release_date': '2020-11-19',

CREATING A DATAFRAME

id release_date adult

1994-09-23 False

1995-10-19 False

1972-03-14 False

1993-12-15 False

1974-12-20 False

2021-06-17 False

2001-07-20 False

2020-10-23 False

2016-02-20 False

2016-08-26 False

1957-04-10 False

2020-05-29 False

2019-05-30 False

1999-12-10 False

2020-07-31 False

2008-07-14 False

1966-12-23 False

1994-09-10 False

2003-12-01 False

2020-11-19 False

SCRAPING ALL PAGES OF THE PAGE

df = df.append(temp_df , ignore_index = True)

1994-09-23 The Shawshank Redemption

1995-10-19 Dilwale Dulhania Le Jayenge

'title': "Gabriel's Inferno: Part III",

'popularity': 54.901,

'id': 122,

'original_language': 'en',

'release_date': '1994-09-10',
'title': 'Pulp Fiction',

'genre_ids': [12, 14, 28],

'original language': 'en',

'release_date': '2003-12-01',

'original title': 'Pulp Fiction',

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'vote_count': 6754},

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'id': 680,

'original_language': 'it',

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'video': False,

{'adult': False,

'id': 429,

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'video': False,
'vote_average': 8.5,
'vote_count': 14179},

{'adult': False,

'id': 724089,

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'vote_average': 8.5,
'vote_count': 1421},

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'id': 155,

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'popularity': 67.367,

'title': 'Parasite',
'video': False,
'vote_average': 8.5,
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{'adult': False,

'id': 497,

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'video': False,
'vote_average': 8.5,
'vote_count': 6540},

{'adult': False,

'id': 696374,

'video': False,
'vote_average': 8.5,
'vote_count': 2262},

{'adult': False,

'id': 496243,

t.",

'original_language': 'en',

'release_date': '1957-04-10',
'title': '12 Angry Men',

'original_title': '12 Angry Men',

'title': 'Dou kyu sei - Classmates',

'popularity': 12.911,

'video': False,
'vote_average': 8.5,
'vote_count': 239},
{'adult': False,

'id': 372058,

'backdrop_path': '/3RMLbSEXOn1CzLoNT7xFeLfdxhq.jpg',

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'backdrop_path': '/mMtUybQ6hL24FXo0F3Z4j2KG7kZ.jpg',

'poster_path': '/q719jXXEz0oYaps6babgKn0N0NX.jpg',

'backdrop_path': '/tj6iPnz18hGfr0LKqWmG6Cp3ni0.jpg',

'poster_path': '/ppd84D2i9W8jXmsyInGyihiSyqz.jpg',

'backdrop_path': '/w2uGvCpMtvRqZg6waC1hvLyZoJa.jpg',

'poster_path': '/oyG9TL7FcRP4EZ9Vid6uKzwdndz.jpg',

'backdrop_path': '/TU9NIjwzjoKPwQHoHshkFcQUCG.jpg',

'poster_path': '/7IiTTgloJzvGI1TAYymCfbfl3vT.jpg',

'backdrop_path': '/l6hQWH9eDksNJNiXWYRkWqikOdu.jpg',

'poster_path': '/velWPhVMQeQKcxggNEU8YmIo52R.jpg',

'backdrop_path': '/jtAI60JIWLWiRItNSZoWjrsUtmi.jpg',

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'poster_path': '/x508cLZfEXMoZczTYWLrUo1P7UJ.jpg',

'backdrop_path': '/nMKdUUepR0i5zn0y1T4CsSB5chy.jpg',

n to the terrified citizens of Gotham as the Joker.',

'poster_path': '/qJ2tW6WMUDux911r6m7haRef0WH.jpg',

'backdrop_path': '/x4biAVdPVCghBlsVIzB6NmbghIz.jpg',

'original_title': 'Il buono, il brutto, il cattivo',

'poster_path': '/bX2xnavhMYjWDoZp1VM6VnU1xwe.jpg',

'backdrop_path': '/suaE0tk1N1sgg2MTM7oZd2cfVp3.jpg',

'poster_path': '/d5iIlFn5s0ImszYzBPb8JPIfbXD.jpg',

'backdrop_path': '/a7p3RuCocDAwurgu2bJbAEhJagf.jpg',

'popularity': 129.783,
'poster_path': '/rCzpDGLbOoPwLjy3OAm5NUPOTrC.jpg',

'backdrop_path': '/fQq1FWp1rC89xDrRMuyFJdFUdMd.jpg',

'original_title': "Gabriel's Inferno: Part III",

'poster_path': '/uqmTxOP3gNl5MWRt1wlrUnzTphM.jpg',

'title': 'The Lord of the Rings: The Return of the King',

ures unfurl in three stories that ingeniously trip back and forth in time.",

'original title': 'The Lord of the Rings: The Return of the King',

while, Frodo and Sam take the ring closer to the heart of Mordor, the dark lord's realm.",

df = pd.DataFrame(response.json()['results'])[['id', 'release_date', 'adult', 'title', 'vote_average', 'overview', 'popularity']]

title vote_average

8.7

8.6

8.6

8.5

8.5

8.5

8.5

8.5

8.5

8.5

8.5

8.5

8.5

8.5

8.5

temp_df = pd.DataFrame(response.json()['results'])[['id', 'release_date', 'title', 'vote_average', 'overview', 'popularity']]

response = requests.get('https://api.themoviedb.org/3/movie/top_rated?api_key=8265bd1679663a7ea12ac168da84d2e8&language=en-US&page={}'.format(i))

Framed in the 1940s for the double murder of h..

Raj is a rich, carefree, happy-go-lucky second..

Spanning the years 1945 to 1955, a chronicle o...

In the continuing saga of the Corleone crime f...

The true story of how businessman Oskar Schind..

Laura and Massimo are back and hotter than eve...

Estranged from her family, Franny returns home...

The mysterious murder of a US senator bearing ...

A few days before Christmas, traveling enterta...

Join uptight David Starsky and laid-back Ken "...

Framed in the 1940s for the double murder of h...

Raj is a rich, carefree, happy-go-lucky second...

Spanning the years 1945 to 1955, a chronicle o...

In the continuing saga of the Corleone crime f...

The true story of how businessman Oskar Schind...

5.8 Laura and Massimo are back and hotter than eve...

Estranged from her family, Franny returns home..

The mysterious murder of a US senator bearing ...

A few days before Christmas, traveling enterta...

Join uptight David Starsky and laid-back Ken "...

overview

popularity

92.161

27.861

77.666

45.895

54.822

popularity

489.525

7.486

25.540

6.492

15.260

overview

The Shawshank Redemption

Dilwale Dulhania Le Jayenge

The Godfather

Schindler's List

The Godfather: Part II

Dou kyu sei – Classmates

Impossible Things

Spirited Away

Your Eyes Tell

Your Name.

12 Angry Men

Parasite

Gabriel's Inferno

The Green Mile

The Dark Knight

Pulp Fiction

Gabriel's Inferno: Part II

Gabriel's Inferno: Part III

title vote_average

8.7

8.7

8.6

5.8

5.8

5.8

The Good, the Bad and the Ugly

The Lord of the Rings: The Return of the King

CREAT LOOP TO SCRAPE PAGES ONE BY ONE OF THE WEB

The Godfather

Schindler's List

The Godfather: Part II

365 Days: This Day

Song One

The Double

The Ordeal

title vote_average

title vote_average

5.8

5.8

5.8

5.8

8.7

8.7

Starsky & Hutch

'title': 'The Good, the Bad and the Ugly',

search of a strongbox containing \$200,000 in stolen gold.',

from his own personal hell as he tries to earn the impossible--forgiveness and love.",

s. While they listen to each other's voice and harmonize, their hearts start to beat together.',

hers. This bizarre occurrence continues to happen randomly, and the two must adjust their lives around each other.',

In [1]:

In [2]: