▼ Homework - API

Top 20 Movies IMDb

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```
# import libraries
import pandas as pd
import requests
import time
# get url , write requests to get response
import requests
url = "https://imdb-top-100-movies.p.rapidapi.com"
headers = {
  "X-RapidAPI-Key": "5b20f42c14msh9b99103b7928c3ap1589f2jsnd362faea1461",
  "X-RapidAPI-Host": "imdb-top-100-movies.p.rapidapi.com"
}
response = requests.request("GET", url, headers=headers)
print(response.text)
Table 1: "The Shawshank Redemption", "thumbnail": "https://m.media-amazon.com/images/M/MV5BMDFkYTc0MGEtZmNhMC00ZI
# check status code
response.status_code # 200 Success!
    200
# preview information for get-data coding
result = response.json() # Dictionary
result[0]
     {'rank': 1,
      'title': 'The Shawshank Redemption',
      'thumbnail': '<a href="https://m.media-">https://m.media-</a>
     amazon.com/images/M/MV5BMDFkYTc0MGEtZmNhMC00ZDIzLWFmNTEtODM1ZmRlYWMwMWFmXkEyXkFqcGdeOXVyMTMxODk2OTU@._V1_UY67_CR0,0,45,67
      'rating': '9.3',
      'id': 'top1',
      'year': 1994,
      'image': 'https://m.media-
     amazon.com/images/M/MV5BMDFkYTc0MGetZmNhMC00ZDIzLWFmNTEtODM1ZmR1YWMwMWFmXkEyXkFqcGdeOXVyMTMxODk2OTU@. V1 OL75 UX380 CR0, J
      'description': 'Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of
     common decency.'.
      'trailer': '<a href="https://www.youtube.com/embed/NmzuHjWmXOc"">https://www.youtube.com/embed/NmzuHjWmXOc</a>,
       genre': ['Drama'],
      'director': ['Frank Darabont'],
      'writers': ['Stephen King (based on the short novel "Rita Hayworth and the Shawshank Redemption" by)',
       'Frank Darabont (screenplay by)'],
      'imdbid': 'tt0111161'}
     9.3
# get data
```

get data
rank = []
title = []
rating = []
year = []
genre = []

for i in range(0,21):
 rank.append(result[i]['rank'])
 title.append(result[i]['title'])
 rating.append(result[i]['rating'])
 year.append(result[i]['year'])
 genre.append(result[i]['genre'])
 time.sleep(1)

print("Success!")

Success!

```
# create DataFrame
df_top20_imdb = pd.DataFrame({
    "rank": rank,
    "titile": title,
    "year": year,
    "genre": genre,
    "rating": rating,
})
```

df_top20_imdb

		_	genre	rating
1	The Shawshank Redemption	1994	[Drama]	9.3
2	The Godfather	1972	[Crime, Drama]	9.2
3	The Dark Knight	2008	[Action, Crime, Drama]	9.0
4	The Godfather Part II	1974	[Crime, Drama]	9.0
5	12 Angry Men	1957	[Crime, Drama]	9.0
6	Schindler's List	1993	[Biography, Drama, History]	8.9
7	The Lord of the Rings: The Return of the King	2003	[Action, Adventure, Drama]	8.9
8	Pulp Fiction	1994	[Crime, Drama]	8.8
9	The Lord of the Rings: The Fellowship of the Ring	2001	[Action, Adventure, Drama]	8.8
10	The Good, the Bad and the Ugly	1966	[Adventure, Western]	8.8
11	Forrest Gump	1994	[Drama, Romance]	8.8
12	Fight Club	1999	[Drama]	8.7
13	Inception	2010	[Action, Adventure, Sci-Fi]	8.7
14	The Lord of the Rings: The Two Towers	2002	[Action, Adventure, Drama]	8.7
15	Star Wars: Episode V - The Empire Strikes Back	1980	[Action, Adventure, Fantasy]	8.7
16	The Matrix	1999	[Action, Sci-Fi]	8.7
17	Goodfellas	1990	[Biography, Crime, Drama]	8.7
18	One Flew Over the Cuckoo's Nest	1975	[Drama]	8.6
19	Se7en	1995	[Crime, Drama, Mystery]	8.6
20	Seven Samurai	1954	[Action, Drama]	8.6
21	It's a Wonderful Life	1946	[Drama, Family, Fantasy]	8.6
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	The Godfather The Dark Knight The Dark Knight The Godfather Part II The Godfather Part II The Godfather Part II The Godfather Part II The Lord of the Rings: The Return of the King Pulp Fiction The Lord of the Rings: The Fellowship of the Ring The Lord of the Rings: The Fellowship of the Ring The Good, the Bad and the Ugly The Good the Rings: The Two Towers Star Wars: Episode V - The Empire Strikes Back The Matrix The Goodfellas One Flew Over the Cuckoo's Nest Se7en Seven Samurai	2 The Godfather 1972 3 The Dark Knight 2008 4 The Godfather Part II 1974 5 12 Angry Men 1957 6 Schindler's List 1993 7 The Lord of the Rings: The Return of the King 2003 8 Pulp Fiction 1994 9 The Lord of the Rings: The Fellowship of the Ring 2001 10 The Good, the Bad and the Ugly 1966 11 Forrest Gump 1994 12 Fight Club 1999 13 Inception 2010 14 The Lord of the Rings: The Two Towers 2002 15 Star Wars: Episode V - The Empire Strikes Back 1980 16 The Matrix 1999 17 Goodfellas 1990 18 One Flew Over the Cuckoo's Nest 1975 19 Se7en 1995 20 Seven Samurai 1954	The Godfather 1972 [Crime, Drama] The Dark Knight 2008 [Action, Crime, Drama] The Godfather Part II 1974 [Crime, Drama] The Godfather Part II 1974 [Crime, Drama] The Godfather Part II 1974 [Crime, Drama] The Lord of the Rings: The Return of the King 2003 [Action, Adventure, Drama] The Lord of the Rings: The Fellowship of the Ring 2001 [Action, Adventure, Drama] The Lord of the Rings: The Fellowship of the Ring 2001 [Action, Adventure, Drama] The Good, the Bad and the Ugly 1966 [Adventure, Western] The Good, the Bad and the Ugly 1994 [Drama, Romance] Fight Club 1999 [Drama] Inception 2010 [Action, Adventure, Sci-Fi] The Lord of the Rings: The Two Towers 2002 [Action, Adventure, Drama] Star Wars: Episode V - The Empire Strikes Back 1980 [Action, Adventure, Fantasy] Goodfellas 1990 [Biography, Crime, Drama] Cone Flew Over the Cuckoo's Nest 1975 [Drama] Seven Samurai 1954 [Action, Drama, Mystery]