Homework - API

Top 20 Movies IMDb

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```python
# import libraries
import pandas as pd
import requests
import time
```

```python
# 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)
```

    [{"rank":1,"title":"The Shawshank Redemption","thumbnail":"https://m.media-amazon.com/images/M/MV5BMDFkYTc0MGEtZmNhMC00ZI

```python
# check status code
response.status_code # 200 Success!
```

    200

```python
# preview information for get-data coding
result = response.json() # Dictionary
result[0]
```

    {'rank': 1,
     'title': 'The Shawshank Redemption',
     'thumbnail': 'https://m.media-
    amazon.com/images/M/MV5BMDFkYTc0MGEtZmNhMC00ZDIzLWFmNTEtODM1ZmRlYWMwMWFmXkEyXkFqcGdeQXVyMTMxODk2OTU@._V1_UY67_CR0,0,45,67
     'rating': '9.3',
     'id': 'top1',
     'year': 1994,
     'image': 'https://m.media-
    amazon.com/images/M/MV5BMDFkYTc0MGEtZmNhMC00ZDIzLWFmNTEtODM1ZmRlYWMwMWFmXkEyXkFqcGdeQXVyMTMxODk2OTU@._V1_QL75_UX380_CR0,1
     'description': 'Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of
    common decency.',
     'trailer': 'https://www.youtube.com/embed/NmzuHjWmXOc',
     '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'

```python
# 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

	rank	titile	year	genre	rating
0	1	The Shawshank Redemption	1994	[Drama]	9.3
1	2	The Godfather	1972	[Crime, Drama]	9.2
2	3	The Dark Knight	2008	[Action, Crime, Drama]	9.0
3	4	The Godfather Part II	1974	[Crime, Drama]	9.0
4	5	12 Angry Men	1957	[Crime, Drama]	9.0
5	6	Schindler's List	1993	[Biography, Drama, History]	8.9
6	7	The Lord of the Rings: The Return of the King	2003	[Action, Adventure, Drama]	8.9
7	8	Pulp Fiction	1994	[Crime, Drama]	8.8
8	9	The Lord of the Rings: The Fellowship of the Ring	2001	[Action, Adventure, Drama]	8.8
9	10	The Good, the Bad and the Ugly	1966	[Adventure, Western]	8.8
10	11	Forrest Gump	1994	[Drama, Romance]	8.8
11	12	Fight Club	1999	[Drama]	8.7
12	13	Inception	2010	[Action, Adventure, Sci-Fi]	8.7
13	14	The Lord of the Rings: The Two Towers	2002	[Action, Adventure, Drama]	8.7
14	15	Star Wars: Episode V - The Empire Strikes Back	1980	[Action, Adventure, Fantasy]	8.7
15	16	The Matrix	1999	[Action, Sci-Fi]	8.7
16	17	Goodfellas	1990	[Biography, Crime, Drama]	8.7
17	18	One Flew Over the Cuckoo's Nest	1975	[Drama]	8.6
18	19	Se7en	1995	[Crime, Drama, Mystery]	8.6
19	20	Seven Samurai	1954	[Action, Drama]	8.6
20	21	It's a Wonderful Life	1946	[Drama, Family, Fantasy]	8.6