In [ ]:
```
🪠 Part 1 - Data Exploration (RedisInsight or Python)
```

In [1]:
```
!pip install redis
import redis

# Connect
r = redis.Redis(host='redis', port=6379, decode_responses=True)
r.ping()
```

```
Requirement already satisfied: redis in /opt/conda/lib/python3.11/site-packages (6.
0.0)
```

Out[1]:
```
True
```

In [2]:
```
r.hgetall('movie:1')
```

Out[2]:
```
{'plot': 'A group of intergalactic criminals must pull together to stop a fanatica
l warrior with plans to purge the universe.',
 'ibmdb_id': 'tt2015381',
 'genre': 'Action',
 'poster': 'https://m.media-amazon.com/images/M/MV5BMTAwMjU5OTgxNjZeQTJeQWpwZ15BbW
U4MDUxNDYxODEx._V1_SX300.jpg',
 'release_year': '2014',
 'votes': '704613',
 'title': 'Guardians of the Galaxy',
 'rating': '8.1'}
```

In [3]:
```
#How many actors and movies are stored in Redis?
act= r.keys('actor:*')
mov=r.keys('movie:*')

nb_act=len(r.keys("actor:*"))
nb_mov=len(r.keys("movie:*"))

print('Nb_movie:',nb_mov,'Nb_act:',nb_act)
```

```
Nb_movie: 922 Nb_act: 1319
```

In [ ]:
```
mov= r.keys('movie:*')
len(mov)
```

In [30]:
```
#act= r.keys('actor:*')

#act_final []
#for key in r.keys('actor:*')
# db=int(r.hget(key,'date_of_birth'))

#len(act)
#print(r.hgetall('actor:557'))
```

In [31]:
```
act_two=r.keys("date_of_birth:1980")
print(act_two)
```

```
[]
```

In [46]:
```
#List 5 actors born before 1980.

act_final = []

for key in r.scan_iter('actor:*'):
    db = int(r.hget(key, 'date_of_birth'))
    if db < 1980:
       act_final.append(r.hgetall(key))
    if (len(act_final)==5):
            break

print ('', act_final)
```

```
 [{'first_name': 'Andy', 'last_name': 'Garcia', 'date_of_birth': '1956'}, {'first_na
me': 'Sylvester', 'last_name': 'Stallone', 'date_of_birth': '1946'}, {'first_name':
'Diane', 'last_name': 'Kruger', 'date_of_birth': '1976'}, {'first_name': 'Tony', 'la
st_name': 'Way', 'date_of_birth': '1978'}, {'first_name': 'Tim', 'last_name': 'Rot
h', 'date_of_birth': '1961'}]
```

In [8]:
```
#List 5 actors born before 1980.
#date_of_birth=1980
act=r.keys("actor:*")
mov=r.keys("movie:*")

act_two=r.keys("date_of_birth:1980")
print(act_two)
#print(r.hgetall("actor:*")
#print (r.hget('date_of_birth':>1980))


#lenn = enumarate(act)
#nb_x=nb[0]
#nb_a=hlen(nb)
#value = r.key("movie")
#print(h)
```

```
[]
```

In [48]:
```
#Retrieve the genre and rating of the movie "The Imitation Game".
for key in r.scan_iter("movie*"):
    title = r.hget(key, "title")
    if title == "The Imitation Game":
        genre = r.hget(key, "genre")
        rating = r.hget(key, "rating")
        print("Genre:", genre,"Rating:", rating,"of the movie The Imitation Game")
        break
```

```
Genre: Biography Rating: 8.5 of  the movie The Imitation Game
```

In [64]:
```
#List the top 5 highest-rated movies.
movies = []
keys = r.keys("movie:*")
for key in keys:
    movie_data = r.hgetall(key)
    if movie_data.get('rating') :
        movies.append({
            'rating': float(movie_data['rating'])
```

```
        })

top_movies = sorted(movies, key=lambda x: x['rating'], reverse=True)[:5]

print("Les 5 films les mieux notés:", top_movies)
```

```
Les 5 films les mieux notés: [{'rating': 9.4}, {'rating': 9.4}, {'rating': 9.3}, {'r
ating': 9.2}, {'rating': 9.1}]
```

In [67]:
```
#How many movies have a rating above 7.5?
count = 0
keys = r.keys("movie:*")
for key in keys:
    movie_data = r.hgetall(key)
    if float(movie_data.get('rating')) > 7.5:
        count += 1

print("Nombre de films avec une note supérieure à 7.5 :" ,count)
```

```
Nombre de films avec une note supérieure à 7.5 : 183
```

In [68]:
```
keys = r.keys("movie:*")
for key in keys:
    movie_data = r.hgetall(key)
    if movie_data.get('title') == "The Imitation Game":
        r.hset(key, "rating", "8.5")
        print("Rating du film 'The Imitation Game' mis à jour à 8.5")
```

```
Rating du film 'The Imitation Game' mis à jour à 8.5
```

In [72]:
```
#Add a new actor: "Zendaya", born in 1996.
zendaya_data = {
    'first_name': 'Zendaya',
    'last_name': '',
    'date_of_birth': '1996'
}
actor_key ="actor:zendaya"
r.hset(actor_key, mapping=zendaya_data)
print(r.hgetall(actor_key))
```

```
{'first_name': 'Zendaya', 'last_name': '', 'date_of_birth': '1996'}
```

In [77]:
```
#Delete the movie with title "The Room".
keys = r.keys("movie:*")
for key in keys:
    movie_data = r.hgetall(key)
    if movie_data.get('title') == "The Room":
        r.delete(key)
print("Film 'The Room' supprimé avec la clé:",key)
```

```
Film 'The Room' supprimé avec la clé: movie:341
```

In [75]:
```
📌 Part 2 – Python Interaction
```

```
  Cell In[75], line 1
    📌 Part 2 – Python Interaction
    ^
SyntaxError: invalid character '📌' (U+1F4CC)
```

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```

In [79]:
```
# Comptage des acteurs dont le nom de famille commence par "P"
actor_keys = r.keys("actor:*")
last_name_count = 0

for key in actor_keys:
    actor_data = r.hgetall(key)
    if actor_data.get('last_name') and actor_data['last_name'].startswith('P'):
        last_name_count += 1

print("Nombre d'acteurs dont le nom de famille commence par 'P':",last_name_count)
```

```
Nombre d'acteurs dont le nom de famille commence par 'P': 64
```

In [111…
```
# Récupération des films sortis après 2010 avec plus de 100 000 votes
movie_keys = r.keys("movie:*")
recent_movies = []

for key in movie_keys:
    movie_data = r.hgetall(key)
    year = int(movie_data['release_year'])
    votes = int(movie_data['votes'])

    if year > 2010 and votes > 100000:
            recent_movies.append({
                'title': movie_data['title'],
                'year': year,
                'votes': votes
            })

print("Films sortis après 2010 avec plus de 100 000 votes:")
print(recent_movies)
```

Films sortis après 2010 avec plus de 100 000 votes:
[{'title': 'The Maze Runner', 'year': 2014, 'votes': 318953}, {'title': 'The Amazing Spider-Man 2', 'year': 2014, 'votes': 402143}, {'title': 'The Lego Movie', 'year': 2014, 'votes': 251297}, {'title': 'Guardians of the Galaxy Vol. 2', 'year': 2017, 'votes': 531435}, {'title': '300: Rise of an Empire', 'year': 2014, 'votes': 229109}, {'title': 'Batman v Superman: Dawn of Justice', 'year': 2016, 'votes': 415255}, {'title': 'Sin City: A Dame to Kill For', 'year': 2014, 'votes': 114899}, {'title': 'The Fault in Our Stars', 'year': 2014, 'votes': 256899}, {'title': 'Birdman or (The Unexpected Virtue of Ignorance)', 'year': 2014, 'votes': 408054}, {'title': 'The Expendables 3', 'year': 2014, 'votes': 130394}, {'title': 'Last Vegas', 'year': 2013, 'votes': 124330}, {'title': 'X-Men: Days of Future Past', 'year': 2014, 'votes': 524078}, {'title': 'Bridge of Spies', 'year': 2015, 'votes': 192125}, {'title': 'Tomorrowland', 'year': 2015, 'votes': 132793}, {'title': 'Black Mass', 'year': 2015, 'votes': 123475}, {'title': 'Nightcrawler', 'year': 2014, 'votes': 304445}, {'title': 'Ex Machina', 'year': 2015, 'votes': 304335}, {'title': 'Spy', 'year': 2015, 'votes': 176403}, {'title': 'Chappie', 'year': 2015, 'votes': 177519}, {'title': 'Spectre', 'year': 2015, 'votes': 287494}, {'title': 'The Theory of Everything', 'year': 2014, 'votes': 275057}, {'title': 'The Girl on the Train', 'year': 2016, 'votes': 160200}, {'title': 'Room', 'year': 2015, 'votes': 182004}, {'title': 'Maleficent', 'year': 2014, 'votes': 257707}, {'title': 'Iron Man 3', 'year': 2013, 'votes': 726152}, {'title': 'Need for Speed', 'year': 2014, 'votes': 139153}, {'title': 'Insurgent', 'year': 2015, 'votes': 160386}, {'title': 'The Babadook', 'year': 2014, 'votes': 185189}, {'title': 'Maze Runner: The Scorch Trials', 'year': 2015, 'votes': 146153}, {'title': 'Gone Girl', 'year': 2014, 'votes': 589116}, {'title': 'Mission: Impossible - Rogue Nation', 'year': 2015, 'votes': 241599}, {'title': 'Noah', 'year': 2014, 'votes': 203170}, {'title': 'The Big Short', 'year': 2015, 'votes': 206783}, {'title': 'Mad Max: Fury Road', 'year': 2015, 'votes': 578046}, {'title': 'Everest', 'year': 2015, 'votes': 142142}, {'title': 'Creed', 'year': 2015, 'votes': 157387}, {'title': 'Jack Reacher: Never Go Back', 'year': 2016, 'votes': 130230}, {'title': 'Captain America: The Winter Soldier', 'year': 2014, 'votes': 510608}, {'title': 'The Equalizer', 'year': 2014, 'votes': 235859}, {'title': 'Spider-Man: Into the Spider-Verse', 'year': 2018, 'votes': 302962}, {'title': 'Minions', 'year': 2015, 'votes': 148448}, {'title': 'San Andreas', 'year': 2015, 'votes': 152249}, {'title': 'Ant-Man', 'year': 2015, 'votes': 535953}, {'title': 'Jupiter Ascending', 'year': 2015, 'votes': 142878}, {'title': 'Ted 2', 'year': 2015, 'votes': 123758}, {'title': 'Suicide Squad', 'year': 2016, 'votes': 249658}, {'title': 'Straight Outta Compton', 'year': 2015, 'votes': 127258}, {'title': 'A Million Ways to Die in the West', 'year': 2014, 'votes': 138651}, {'title': 'John Wick', 'year': 2014, 'votes': 503014}, {'title': 'Fifty Shades of Grey', 'year': 2015, 'votes': 224710}, {'title': 'Hercules', 'year': 2014, 'votes': 117904}, {'title': 'The Revenant', 'year': 2015, 'votes': 441653}, {'title': 'Guardians of the Galaxy', 'year': 2014, 'votes': 704613}, {'title': 'X-Men: Apocalypse', 'year': 2016, 'votes': 210509}, {'title': '1917', 'year': 2019, 'votes': 290813}, {'title': 'The Drop', 'year': 2014, 'votes': 109038}, {'title': 'The Interview', 'year': 2014, 'votes': 251910}, {'title': 'The Other Woman', 'year': 2014, 'votes': 106752}, {'title': 'Interstellar', 'year': 2014, 'votes': 961763}, {'title': 'The Hunger Games: Mockingjay - Part 2', 'year': 2015, 'votes': 179028}, {'title': 'Spider-Man: Homecoming', 'year': 2017, 'votes': 473931}, {'title': 'Steve Jobs', 'year': 2015, 'votes': 102485}, {'title': 'Ghostbusters', 'year': 2016, 'votes': 111399}, {'title': 'Cinderella', 'year': 2015, 'votes': 107389}, {'title': 'The Intern', 'year': 2015, 'votes': 142646}, {'title': 'Dawn of the Planet of the Apes', 'year': 2014, 'votes': 323652}, {'title': 'Jack Ryan: Shadow Recruit', 'year': 2014, 'votes': 100550}, {'title': 'Edge of Tomorrow', 'year': 2014, 'votes': 443643}, {'title': 'Star Wars: Episode IX - The Rise of Skywalker', 'year': 2019, 'votes': 295585}, {'title': 'Star Wars: Episode VII - The Force Awakens', 'year': 2015, 'votes': 831843}, {'title': 'The Hobbit: The Battle of the Five Armies', 'year': 2014, 'votes': 363557}, {'title': 'Boyhood', 'year': 2014, 'votes': 272604}, {'title': 'Horrible Bosses 2', 'year': 2014,

'votes': 117742}, {'title': 'Terminator Genisys', 'year': 2015, 'votes': 194182}, {'title': '22 Jump Street', 'year': 2014, 'votes': 265037}, {'title': 'It Follows', 'year': 2014, 'votes': 120440}, {'title': 'Teenage Mutant Ninja Turtles', 'year': 2014, 'votes': 172213}, {'title': 'The Imitation Game', 'year': 2014, 'votes': 489175}, {'title': 'Now You See Me 2', 'year': 2016, 'votes': 112664}, {'title': 'Exodus: Gods and Kings', 'year': 2014, 'votes': 131331}, {'title': 'Fantastic Four', 'year': 2015, 'votes': 114717}, {'title': 'Star Wars: Episode VIII - The Last Jedi', 'year': 2017, 'votes': 531361}, {'title': 'The Hunger Games: Mockingjay - Part 1', 'year': 2014, 'votes': 313261}, {'title': 'Zootopia', 'year': 2016, 'votes': 216939}, {'title': 'American Sniper', 'year': 2014, 'votes': 333228}, {'title': 'Transformers: Age of Extinction', 'year': 2014, 'votes': 246318}, {'title': 'The Conjuring 2', 'year': 2016, 'votes': 108550}, {'title': 'Deadpool', 'year': 2016, 'votes': 533503}, {'title': 'Inside Out', 'year': 2015, 'votes': 367848}, {'title': '10 Cloverfield Lane', 'year': 2016, 'votes': 149415}, {'title': 'Dracula Untold', 'year': 2014, 'votes': 141759}, {'title': 'Jurassic World', 'year': 2015, 'votes': 429565}, {'title': 'Spotlight', 'year': 2015, 'votes': 220052}, {'title': 'The Martian', 'year': 2015, 'votes': 506641}, {'title': 'Focus', 'year': 2015, 'votes': 155186}, {'title': 'Southpaw', 'year': 2015, 'votes': 154514}, {'title': 'Unbroken', 'year': 2014, 'votes': 106707}, {'title': 'Battle Los Angeles', 'year': 2011, 'votes': 169988}, {'title': 'Pitch Perfect 2', 'year': 2015, 'votes': 101190}, {'title': 'Divergent', 'year': 2014, 'votes': 412364}, {'title': 'Warcraft', 'year': 2016, 'votes': 154327}, {'title': 'The Hateful Eight', 'year': 2015, 'votes': 294908}, {'title': 'Furious Seven', 'year': 2015, 'votes': 284316}, {'title': 'Fury', 'year': 2014, 'votes': 312068}, {'title': 'Spider-Man: Far from Home', 'year': 2019, 'votes': 269287}, {'title': 'Predestination', 'year': 2014, 'votes': 172521}, {'title': 'Big Hero 6', 'year': 2014, 'votes': 288143}, {'title': 'Kingsman: The Secret Service', 'year': 2014, 'votes': 410076}, {'title': 'Neighbors', 'year': 2014, 'votes': 224378}, {'title': 'The Judge', 'year': 2014, 'votes': 140247}, {'title': 'The Grand Budapest Hotel', 'year': 2014, 'votes': 492158}, {'title': 'Whiplash', 'year': 2014, 'votes': 667323}, {'title': 'Captain America: Civil War', 'year': 2016, 'votes': 627228}, {'title': 'Non-Stop', 'year': 2014, 'votes': 242556}, {'title': 'The Nice Guys', 'year': 2016, 'votes': 116011}, {'title': 'The Jungle Book', 'year': 2016, 'votes': 151342}, {'title': 'Star Trek Beyond', 'year': 2016, 'votes': 111125}, {'title': 'Transcendence', 'year': 2014, 'votes': 176429}, {'title': 'Avengers: Age of Ultron', 'year': 2015, 'votes': 479512}, {'title': 'Sicario', 'year': 2015, 'votes': 212880}]

In [107…

```python
# Récupération des films sortis après 2010 avec plus de 100 000 votes
movie_keys = r.keys("movie:*")
recent_movies = []

for key in movie_keys:
    movie_data = r.hgetall(key)
    year = int(movie_data['release_year'])
    votes = int(movie_data['votes'])

    if year > 2010 and votes > 100000:
                recent_movies.append({
                    'title': movie_data['title'],
                    'year': year,
                    'votes': votes
            })

print("Films sortis après 2010 avec plus de 100 000 votes:")

print(recent_movies)
```

Films sortis après 2010 avec plus de 100 000 votes:
[{'title': 'The Maze Runner', 'year': 2014, 'votes': 318953}, {'title': 'The Amazing Spider-Man 2', 'year': 2014, 'votes': 402143}, {'title': 'The Lego Movie', 'year': 2014, 'votes': 251297}, {'title': 'Guardians of the Galaxy Vol. 2', 'year': 2017, 'votes': 531435}, {'title': '300: Rise of an Empire', 'year': 2014, 'votes': 229109}, {'title': 'Batman v Superman: Dawn of Justice', 'year': 2016, 'votes': 415255}, {'title': 'Sin City: A Dame to Kill For', 'year': 2014, 'votes': 114899}, {'title': 'The Fault in Our Stars', 'year': 2014, 'votes': 256899}, {'title': 'Birdman or (The Unexpected Virtue of Ignorance)', 'year': 2014, 'votes': 408054}, {'title': 'The Expendables 3', 'year': 2014, 'votes': 130394}, {'title': 'Last Vegas', 'year': 2013, 'votes': 124330}, {'title': 'X-Men: Days of Future Past', 'year': 2014, 'votes': 524078}, {'title': 'Bridge of Spies', 'year': 2015, 'votes': 192125}, {'title': 'Tomorrowland', 'year': 2015, 'votes': 132793}, {'title': 'Black Mass', 'year': 2015, 'votes': 123475}, {'title': 'Nightcrawler', 'year': 2014, 'votes': 304445}, {'title': 'Ex Machina', 'year': 2015, 'votes': 304335}, {'title': 'Spy', 'year': 2015, 'votes': 176403}, {'title': 'Chappie', 'year': 2015, 'votes': 177519}, {'title': 'Spectre', 'year': 2015, 'votes': 287494}, {'title': 'The Theory of Everything', 'year': 2014, 'votes': 275057}, {'title': 'The Girl on the Train', 'year': 2016, 'votes': 160200}, {'title': 'Room', 'year': 2015, 'votes': 182004}, {'title': 'Maleficent', 'year': 2014, 'votes': 257707}, {'title': 'Iron Man 3', 'year': 2013, 'votes': 726152}, {'title': 'Need for Speed', 'year': 2014, 'votes': 139153}, {'title': 'Insurgent', 'year': 2015, 'votes': 160386}, {'title': 'The Babadook', 'year': 2014, 'votes': 185189}, {'title': 'Maze Runner: The Scorch Trials', 'year': 2015, 'votes': 146153}, {'title': 'Gone Girl', 'year': 2014, 'votes': 589116}, {'title': 'Mission: Impossible - Rogue Nation', 'year': 2015, 'votes': 241599}, {'title': 'Noah', 'year': 2014, 'votes': 203170}, {'title': 'The Big Short', 'year': 2015, 'votes': 206783}, {'title': 'Mad Max: Fury Road', 'year': 2015, 'votes': 578046}, {'title': 'Everest', 'year': 2015, 'votes': 142142}, {'title': 'Creed', 'year': 2015, 'votes': 157387}, {'title': 'Jack Reacher: Never Go Back', 'year': 2016, 'votes': 130230}, {'title': 'Captain America: The Winter Soldier', 'year': 2014, 'votes': 510608}, {'title': 'The Equalizer', 'year': 2014, 'votes': 235859}, {'title': 'Spider-Man: Into the Spider-Verse', 'year': 2018, 'votes': 302962}, {'title': 'Minions', 'year': 2015, 'votes': 148448}, {'title': 'San Andreas', 'year': 2015, 'votes': 152249}, {'title': 'Ant-Man', 'year': 2015, 'votes': 535953}, {'title': 'Jupiter Ascending', 'year': 2015, 'votes': 142878}, {'title': 'Ted 2', 'year': 2015, 'votes': 123758}, {'title': 'Suicide Squad', 'year': 2016, 'votes': 249658}, {'title': 'Straight Outta Compton', 'year': 2015, 'votes': 127258}, {'title': 'A Million Ways to Die in the West', 'year': 2014, 'votes': 138651}, {'title': 'John Wick', 'year': 2014, 'votes': 503014}, {'title': 'Fifty Shades of Grey', 'year': 2015, 'votes': 224710}, {'title': 'Hercules', 'year': 2014, 'votes': 117904}, {'title': 'The Revenant', 'year': 2015, 'votes': 441653}, {'title': 'Guardians of the Galaxy', 'year': 2014, 'votes': 704613}, {'title': 'X-Men: Apocalypse', 'year': 2016, 'votes': 210509}, {'title': '1917', 'year': 2019, 'votes': 290813}, {'title': 'The Drop', 'year': 2014, 'votes': 109038}, {'title': 'The Interview', 'year': 2014, 'votes': 251910}, {'title': 'The Other Woman', 'year': 2014, 'votes': 106752}, {'title': 'Interstellar', 'year': 2014, 'votes': 961763}, {'title': 'The Hunger Games: Mockingjay - Part 2', 'year': 2015, 'votes': 179028}, {'title': 'Spider-Man: Homecoming', 'year': 2017, 'votes': 473931}, {'title': 'Steve Jobs', 'year': 2015, 'votes': 102485}, {'title': 'Ghostbusters', 'year': 2016, 'votes': 111399}, {'title': 'Cinderella', 'year': 2015, 'votes': 107389}, {'title': 'The Intern', 'year': 2015, 'votes': 142646}, {'title': 'Dawn of the Planet of the Apes', 'year': 2014, 'votes': 323652}, {'title': 'Jack Ryan: Shadow Recruit', 'year': 2014, 'votes': 100550}, {'title': 'Edge of Tomorrow', 'year': 2014, 'votes': 443643}, {'title': 'Star Wars: Episode IX - The Rise of Skywalker', 'year': 2019, 'votes': 295585}, {'title': 'Star Wars: Episode VII - The Force Awakens', 'year': 2015, 'votes': 831843}, {'title': 'The Hobbit: The Battle of the Five Armies', 'year': 2014, 'votes': 363557}, {'title': 'Boyhood', 'year': 2014, 'votes': 272604}, {'title': 'Horrible Bosses 2', 'year': 2014,

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In [ ]:

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