

Exercício 2

Sobre a base de dados

Neste laboratório você utilizará um dataset contendo informações sobre filmes e cinemas.

Collections:

- comments
- movies
- sessions
- theaters
- users

Veja um exemplo de documento de um dos filmes da collection `movies` e entenda a estrutura/schema:

```
{
  '_id': ObjectId('573a1390f29313caabcd4135'),
  'awards': {
    'nominations': 0,
    'text': '1 win.',
    'wins': 1
  },
  'cast': ['Charles Kayser', 'John Ott'],
  'countries': ['USA'],
  'directors': ['William K.L. Dickson'],
  'fullplot': 'A stationary camera looks at a large ...',
  'genres': ['Short'],
  'imdb': {
    'id': 5,
    'rating': 6.2,
    'votes': 1189
  },
  'lastupdated': '2015-08-26 00:03:50.133000000',
  'num_mflix_comments': 1,
  'plot': 'Three men hammer on an anvil and pass a bottle of beer around.',
  'rated': 'UNRATED',
  'released': datetime(1893, 5, 9, 0, 0),
  'runtime': 1,
  'title': 'Blacksmith Scene',
  'tomatoes': {
    'lastUpdated': datetime(2015, 6, 28, 18, 34, 9),
    'viewer': {
      'meter': 32,
      'numReviews': 184,
      'rating': 3.0
    }
  },
  'type': 'movie',
  'year': 1893,
}
```

Usando Python

In [1]:

```
from pymongo import MongoClient
from pprintpp import pprint
import warnings
warnings.filterwarnings('ignore')
mongoclient = MongoClient('localhost', 27017)
db = mongoclient.mflix
print(db)
```

```
Database(MongoClient(host=['localhost:27017'], document_class=dict,
tz_aware=False, connect=True), 'mflix')
```

In [2]:

```
db.movies.find({}).count()
```

Out[2]:

23539

Questões Exemplo

[Questão Exemplo A] Mostre um documento qualquer da coleção movies

In [3]:

```
result = db.movies.find({}).limit(1)
```

```
pprint( list(result) )
```

```
[
  {
    '_id': ObjectId('573a1390f29313caabcd4135'),
    'awards': {'nominations': 0, 'text': '1 win.', 'wins': 1},
    'cast': ['Charles Kayser', 'John Ott'],
    'countries': ['USA'],
    'directors': ['William K.L. Dickson'],
    'fullplot': 'A stationary camera looks at a large anvil with
a blacksmith behind it and one on either side. The smith in the midd
le draws a heated metal rod from the fire, places it on the anvil, a
nd all three begin a rhythmic hammering. After several blows, the me
tal goes back in the fire. One smith pulls out a bottle of beer, and
they each take a swig. Then, out comes the glowing metal and the ham
mering resumes.',
    'genres': ['Short'],
    'imdb': {'id': 5, 'rating': 6.2, 'votes': 1189},
    'lastupdated': '2015-08-26 00:03:50.133000000',
    'num_mflix_comments': 1,
    'plot': 'Three men hammer on an anvil and pass a bottle of b
eer around.',
    'rated': 'UNRATED',
    'released': datetime.datetime(1893, 5, 9, 0, 0),
    'runtime': 1,
    'title': 'Blacksmith Scene',
    'tomatoes': {
      'lastUpdated': datetime.datetime(2015, 6, 28, 18, 34,
9),
      'viewer': {'meter': 32, 'numReviews': 184, 'rating': 3.
0},
    },
    'type': 'movie',
    'year': 1893,
  },
]
```

[Questão Exemplo B] Encontre os diretores do filme "Inglourious Basterds"

In [4]:

```
result = db.movies.find({"title": "Inglourious Basterds"}, {"_id":0,"directors":1})

list(result)
```

Out[4]:

```
[{'directors': ['Quentin Tarantino', 'Eli Roth']}]
```

[Questão 1] Mostre o ano de lançamento de todos os filme que começam com "One Night"

In [5]:

```
result = db.movies.find({'title':{'$regex':'^One Night'}},
                        {'title':1,'year':1, '_id':0}
                        )

list(result)
```

Out[5]:

```
[{'title': 'One Night of Love', 'year': 1934},
 {'title': 'One Night Stand', 'year': 1997},
 {'title': 'One Night with the King', 'year': 2006},
 {'title': 'One Night in City', 'year': 2007}]
```

[Questão 2] Quantos filmes o diretor Quentin Tarantino dirigiu?

In [6]:

```
db.movies.find({"directors": "Quentin Tarantino"}).count()
```

Out[6]:

```
14
```

[Questão 3] Quantos filmes do gênero "Drama" o diretor Quentin Tarantino dirigiu entre 1990 e 2005?

In [11]:

```
db.movies.find({ "$and": [
    { "year": { "$gte": 1990 } },
    { "year": { "$lte": 2005 } },
    {"directors": "Quentin Tarantino"},
    {"genres": "Drama"}
] }).count()
```

Out[11]:

```
3
```

[Questão 4] Qual filme do diretor Quentin Tarantino teve mais prêmios?

Dica: Sort em Pymongo https://www.w3schools.com/python/python_mongodb_sort.asp
(https://www.w3schools.com/python/python_mongodb_sort.asp)

In [13]:

```
result2 = db.movies.find( {"directors": "Quentin Tarantino"},  
                           {"_id": 0,  
                            "title": 1}  
                           ).sort("awards.wins", -1).limit(1)  
pprint(list(result2))  
[{'title': 'Inglourious Basterds'}]
```

[Questão Extra] Quais documentos (filmes) possuem mesmo nome e quantas vezes cada um se repete?

In [15]:

```
pipeline = [  
    {"$group": {"_id": "$title", "count": {"$sum": 1}}},  
    {"$match": {"count": {"$gt": 1}}},  
    {"$sort": {"count": -1}}  
]  
  
result = db.movies.aggregate(pipeline)  
list(result)
```

Out[15]:

```
[{'_id': 'The Terrorist', 'count': 6},
 {'_id': 'The Journey', 'count': 6},
 {'_id': 'Jane Eyre', 'count': 6},
 {'_id': 'The Hole', 'count': 6},
 {'_id': 'Hamlet', 'count': 6},
 {'_id': 'Peter Pan', 'count': 5},
 {'_id': 'The New Land', 'count': 5},
 {'_id': 'The Stranger', 'count': 5},
 {'_id': 'Love', 'count': 5},
 {'_id': 'Alice in Wonderland', 'count': 5},
 {'_id': 'First Love', 'count': 5},
 {'_id': 'The Emigrants', 'count': 5},
 {'_id': 'Madame Bovary', 'count': 5},
 {'_id': 'Mad As Hell', 'count': 5},
 {'_id': 'Les Misérables', 'count': 5},
 {'_id': 'Creature', 'count': 5},
 {'_id': 'Macbeth', 'count': 5},
 {'_id': 'Wolf', 'count': 5},
 {'_id': 'The Hound of the Baskervilles', 'count': 4},
 {'_id': 'Carrie', 'count': 4},
 {'_id': 'Caravaggio', 'count': 4},
 {'_id': 'Cleopatra', 'count': 4},
 {'_id': 'Bang', 'count': 4},
 {'_id': 'The Inheritance', 'count': 4},
 {'_id': 'Red Dust', 'count': 4},
 {'_id': 'Thirst', 'count': 4},
 {'_id': 'The Phantom of the Opera', 'count': 4},
 {'_id': 'The Hour of the Furnaces', 'count': 4},
 {'_id': 'The Silence', 'count': 4},
 {'_id': 'The Hurricane', 'count': 4},
 {'_id': 'Death of a Salesman', 'count': 4},
 {'_id': 'Wonderland', 'count': 4},
 {'_id': 'Beauty and the Beast', 'count': 4},
 {'_id': 'Trio', 'count': 4},
 {'_id': 'War and Peace', 'count': 4},
 {'_id': 'Great Expectations', 'count': 4},
 {'_id': 'Aftermath', 'count': 4},
 {'_id': 'The Hunters', 'count': 4},
 {'_id': 'Eden', 'count': 4},
 {'_id': 'Earth', 'count': 4},
 {'_id': 'Darling', 'count': 4},
 {'_id': 'Harvest', 'count': 4},
 {'_id': 'Pinocchio', 'count': 4},
 {'_id': 'Frankenstein', 'count': 4},
 {'_id': 'The River', 'count': 4},
 {'_id': 'Inside', 'count': 4},
 {'_id': 'Alice', 'count': 4},
 {'_id': 'The Collector', 'count': 4},
 {'_id': 'The Nun', 'count': 4},
 {'_id': 'Wuthering Heights', 'count': 4},
 {'_id': 'Romance', 'count': 4},
 {'_id': 'Quartet', 'count': 4},
 {'_id': 'Home', 'count': 4},
 {'_id': 'Journey to the Center of the Earth', 'count': 4},
 {'_id': 'The Incident', 'count': 4},
 {'_id': 'The Old Man and the Sea', 'count': 3},
 {'_id': 'Night of the Living Dead', 'count': 3},
 {'_id': 'Little Dieter Needs to Fly', 'count': 3},
 {'_id': 'Next of Kin', 'count': 3},
```



```
{ '_id': 'Butterfly', 'count': 3},
{ '_id': 'The Lost World', 'count': 3},
{ '_id': 'King Kong', 'count': 3},
{ '_id': 'Runaway', 'count': 3},
{ '_id': 'On Tour', 'count': 3},
{ '_id': 'In the Mood for Love', 'count': 3},
{ '_id': 'The Damned', 'count': 3},
{ '_id': 'Oxygen', 'count': 3},
{ '_id': 'The Beast', 'count': 3},
{ '_id': 'The Mummy', 'count': 3},
{ '_id': 'March of the Penguins', 'count': 3},
{ '_id': 'An Eye for an Eye', 'count': 3},
{ '_id': 'Cinderella', 'count': 3},
{ '_id': 'Oliver Twist', 'count': 3},
{ '_id': 'The Out-of-Towners', 'count': 3},
{ '_id': 'Sleeping Beauty', 'count': 3},
{ '_id': 'Pandora's Box', 'count': 3},
{ '_id': 'Oblivion', 'count': 3},
{ '_id': 'The Touch', 'count': 3},
{ '_id': 'Honey', 'count': 3},
{ '_id': 'The Fly', 'count': 3},
{ '_id': 'Ghost', 'count': 3},
{ '_id': 'The Whole Ten Yards', 'count': 3},
{ '_id': 'Boy Meets Girl', 'count': 3},
{ '_id': 'Captive', 'count': 3},
{ '_id': 'Death in Granada', 'count': 3},
{ '_id': 'Broken', 'count': 3},
{ '_id': 'The Suspect', 'count': 3},
{ '_id': 'Our Town', 'count': 3},
{ '_id': 'Grace', 'count': 3},
{ '_id': 'Avalon', 'count': 3},
{ '_id': 'Blue', 'count': 3},
{ '_id': 'Robin Hood', 'count': 3},
{ '_id': 'A Streetcar Named Desire', 'count': 3},
{ '_id': 'Hunger', 'count': 3},
{ '_id': 'Princess', 'count': 3},
{ '_id': 'Dracula', 'count': 3},
{ '_id': 'Still Life', 'count': 3},
{ '_id': 'The Count of Monte Cristo', 'count': 3},
{ '_id': 'Doppelganger', 'count': 3},
{ '_id': 'Misunderstood', 'count': 3},
{ '_id': 'Suddenly', 'count': 3},
{ '_id': 'Julia', 'count': 3},
{ '_id': 'The Big Night', 'count': 3},
{ '_id': 'The Elephant Man', 'count': 3},
{ '_id': 'Helter Skelter', 'count': 3},
{ '_id': 'The Visit', 'count': 3},
{ '_id': 'Alone', 'count': 3},
{ '_id': 'Hostage', 'count': 3},
{ '_id': 'Taxi', 'count': 3},
{ '_id': 'The Fifth Day of Peace', 'count': 3},
{ '_id': 'King Lear', 'count': 3},
{ '_id': 'Crime and Punishment', 'count': 3},
{ '_id': 'Eros', 'count': 3},
{ '_id': 'The Warrior', 'count': 3},
{ '_id': 'Othello', 'count': 3},
{ '_id': 'Cargo', 'count': 3},
{ '_id': 'The King', 'count': 3},
{ '_id': 'Wilbur Wants to Kill Himself', 'count': 3},
{ '_id': 'Thief', 'count': 3},
{ '_id': 'Beautiful', 'count': 3},
```

```

{'_id': 'The Other', 'count': 3},
{'_id': 'King Solomon's Mines', 'count': 3},
{'_id': 'Annie', 'count': 3},
{'_id': 'Face', 'count': 3},
{'_id': 'The International', 'count': 3},
{'_id': 'Hotel', 'count': 3},
{'_id': 'Promise', 'count': 3},
{'_id': 'Hercules', 'count': 3},
{'_id': 'Dark Horse', 'count': 3},
{'_id': 'Coming Home', 'count': 3},
{'_id': 'Planet of the Apes', 'count': 3},
{'_id': 'The Insider', 'count': 3},
{'_id': 'The Unknown Soldier', 'count': 3},
{'_id': 'The Magician', 'count': 3},
{'_id': 'Brothers', 'count': 3},
{'_id': 'Blind', 'count': 3},
{'_id': 'Emma', 'count': 3},
{'_id': 'Restless', 'count': 3},
{'_id': 'Beat the Devil', 'count': 3},
{'_id': 'Ambush', 'count': 3},
{'_id': 'Hide and Seek', 'count': 3},
{'_id': 'Gloria', 'count': 3},
{'_id': 'The Hunter', 'count': 3},
{'_id': 'Xiu Xiu: The Sent-Down Girl', 'count': 3},
{'_id': 'Deliver Us from Evil', 'count': 3},
{'_id': 'Champion', 'count': 3},
{'_id': 'The Three Musketeers', 'count': 3},
{'_id': 'Barefoot', 'count': 3},
{'_id': 'The Fortunes and Misfortunes of Moll Flanders', 'count':
3},
{'_id': 'Innocence', 'count': 3},
{'_id': 'Eva', 'count': 3},
{'_id': 'Kiss Kiss Bang Bang', 'count': 3},
{'_id': 'The Hunchback of Notre Dame', 'count': 3},
{'_id': 'Under the Rainbow', 'count': 3},
{'_id': 'Four Rooms', 'count': 3},
{'_id': 'Out of the Blue', 'count': 3},
{'_id': 'The Bees', 'count': 3},
{'_id': 'Fear', 'count': 3},
{'_id': 'Titanic', 'count': 3},
{'_id': 'A Midsummer Night's Dream', 'count': 3},
{'_id': 'Happiness', 'count': 3},
{'_id': 'The Ceremony', 'count': 3},
{'_id': 'Bandits', 'count': 3},
{'_id': 'Iris', 'count': 3},
{'_id': 'Pulse', 'count': 3},
{'_id': 'The Borrowers', 'count': 3},
{'_id': 'The Town', 'count': 3},
{'_id': 'Jackpot', 'count': 3},
{'_id': 'Zena s krajolikom', 'count': 3},
{'_id': 'The Dinner', 'count': 3},
{'_id': 'The Garden', 'count': 3},
{'_id': 'Frozen', 'count': 3},
{'_id': 'Miss Julie', 'count': 3},
{'_id': 'Fallen', 'count': 3},
{'_id': 'Dead of Night', 'count': 3},
{'_id': 'Jack', 'count': 3},
{'_id': 'The Phantom', 'count': 3},
{'_id': 'The Best Man', 'count': 3},
{'_id': 'Abendland', 'count': 3},
{'_id': 'Looking for Jackie', 'count': 3},

```

```
{ '_id': 'Little Women', 'count': 3},
{ '_id': 'The Debt', 'count': 3},
{ '_id': 'State Fair', 'count': 3},
{ '_id': 'The Cow', 'count': 3},
{ '_id': 'Stella', 'count': 3},
{ '_id': 'Chocolat', 'count': 3},
{ '_id': 'The Diary of Anne Frank', 'count': 3},
{ '_id': 'The Lighthouse', 'count': 3},
{ '_id': 'Brother', 'count': 3},
{ '_id': 'Robin Williams: An Evening at the Met', 'count': 3},
{ '_id': 'David and Lisa', 'count': 3},
{ '_id': 'The Goddess', 'count': 3},
{ '_id': 'Gravity', 'count': 3},
{ '_id': 'The Bridge', 'count': 3},
{ '_id': 'Leviathan', 'count': 3},
{ '_id': 'Jack and the Cuckoo-Clock Heart', 'count': 3},
{ '_id': 'Falling', 'count': 3},
{ '_id': 'The Girl', 'count': 3},
{ '_id': 'Oldboy', 'count': 3},
{ '_id': 'Sugar', 'count': 3},
{ '_id': 'Murder by Numbers', 'count': 3},
{ '_id': 'The Deep End', 'count': 3},
{ '_id': 'The Kingdom', 'count': 3},
{ '_id': 'Mother', 'count': 3},
{ '_id': 'Home of the Brave', 'count': 3},
{ '_id': 'Drive', 'count': 3},
{ '_id': 'Beautiful People', 'count': 3},
{ '_id': 'Lucky', 'count': 3},
{ '_id': 'The Island', 'count': 3},
{ '_id': 'The Wind in the Willows', 'count': 3},
{ '_id': 'No Good Deed', 'count': 3},
{ '_id': 'Survival Island', 'count': 3},
{ '_id': 'I Want You', 'count': 3},
{ '_id': 'The Kiss', 'count': 3},
{ '_id': 'A Star Is Born', 'count': 3},
{ '_id': 'Last Night', 'count': 3},
{ '_id': 'Four Shades of Brown', 'count': 3},
{ '_id': 'The Gambler', 'count': 3},
{ '_id': 'Bad Boys', 'count': 3},
{ '_id': 'Godzilla', 'count': 3},
{ '_id': 'The Miracle Worker', 'count': 3},
{ '_id': 'Kiki's Delivery Service', 'count': 3},
{ '_id': 'What a Girl Wants', 'count': 2},
{ '_id': 'Out on a Limb', 'count': 2},
{ '_id': 'The Day the Earth Stood Still', 'count': 2},
{ '_id': 'Bug', 'count': 2},
{ '_id': 'Girlhood', 'count': 2},
{ '_id': 'Little Fugitive', 'count': 2},
{ '_id': 'Miracle on 34th Street', 'count': 2},
{ '_id': 'Silence', 'count': 2},
{ '_id': 'Suicide Club', 'count': 2},
{ '_id': 'Rush', 'count': 2},
{ '_id': 'Two Weeks Notice', 'count': 2},
{ '_id': 'Rang De Basanti', 'count': 2},
{ '_id': 'Jerusalem', 'count': 2},
{ '_id': 'Antonio Gramsci: The Days of Prison', 'count': 2},
{ '_id': 'Total Recall', 'count': 2},
{ '_id': 'The Dark', 'count': 2},
{ '_id': 'MVP: Most Valuable Primate', 'count': 2},
{ '_id': 'City of Men', 'count': 2},
{ '_id': 'Hellsing Ultimate', 'count': 2},
```

```
{ '_id': 'Ayn Rand: A Sense of Life', 'count': 2},
{ '_id': 'The Personals', 'count': 2},
{ '_id': 'Panic', 'count': 2},
{ '_id': 'Around the World in 80 Days', 'count': 2},
{ '_id': 'The Jazz Singer', 'count': 2},
{ '_id': 'Act of Valor', 'count': 2},
{ '_id': 'The Wait', 'count': 2},
{ '_id': 'Chelsea Walls', 'count': 2},
{ '_id': 'Lord of the Flies', 'count': 2},
{ '_id': 'Seconds', 'count': 2},
{ '_id': 'Nayakan', 'count': 2},
{ '_id': 'Tyrannosaur', 'count': 2},
{ '_id': 'To Write Love on Her Arms', 'count': 2},
{ '_id': 'Closet Land', 'count': 2},
{ '_id': 'Asylum', 'count': 2},
{ '_id': 'A Raisin in the Sun', 'count': 2},
{ '_id': 'The Nazis: A Warning from History', 'count': 2},
{ '_id': 'Cyrano de Bergerac', 'count': 2},
{ '_id': 'Transistor Love Story', 'count': 2},
{ '_id': 'The Happy Poet', 'count': 2},
{ '_id': 'Anna Karenina', 'count': 2},
{ '_id': 'The Crossing', 'count': 2},
{ '_id': 'The Adventures of Pinocchio', 'count': 2},
{ '_id': 'White Wedding', 'count': 2},
{ '_id': 'Paz!', 'count': 2},
{ '_id': 'Pirates', 'count': 2},
{ '_id': 'This Means War', 'count': 2},
{ '_id': 'Noah', 'count': 2},
{ '_id': 'Pull My Daisy', 'count': 2},
{ '_id': 'Proof', 'count': 2},
{ '_id': 'Tom and Huck', 'count': 2},
{ '_id': 'Audition', 'count': 2},
{ '_id': 'Project X', 'count': 2},
{ '_id': 'Wanted', 'count': 2},
{ '_id': 'Amour', 'count': 2},
{ '_id': 'The Settlement', 'count': 2},
{ '_id': 'The Jungle Book', 'count': 2},
{ '_id': 'Man of Steel', 'count': 2},
{ '_id': 'Long Day's Journey Into Night', 'count': 2},
{ '_id': 'White Night', 'count': 2},
{ '_id': 'Madagascar', 'count': 2},
{ '_id': 'Dad', 'count': 2},
{ '_id': 'Driven', 'count': 2},
{ '_id': 'The Reunion', 'count': 2},
{ '_id': 'Invasion', 'count': 2},
{ '_id': 'Breathing Room', 'count': 2},
{ '_id': 'Ra.One', 'count': 2},
{ '_id': 'A Long Walk', 'count': 2},
{ '_id': 'Two Deaths', 'count': 2},
{ '_id': 'Princess Mononoke', 'count': 2},
{ '_id': 'Children of Heaven', 'count': 2},
{ '_id': 'Mildred Pierce', 'count': 2},
{ '_id': 'Parents', 'count': 2},
{ '_id': 'Shadows', 'count': 2},
{ '_id': 'Alexander the Great', 'count': 2},
{ '_id': 'Jurassic Park III', 'count': 2},
{ '_id': 'The Manchurian Candidate', 'count': 2},
{ '_id': 'The Bow', 'count': 2},
{ '_id': 'Hungarian Rhapsody', 'count': 2},
{ '_id': 'The Revolution Will Not Be Televised', 'count': 2},
{ '_id': 'Paranoia', 'count': 2},
```

```

{'_id': 'Offside', 'count': 2},
{'_id': 'A Friend of the Deceased', 'count': 2},
{'_id': 'The Trench', 'count': 2},
{'_id': 'The Shaggy Dog', 'count': 2},
{'_id': 'Giant', 'count': 2},
{'_id': 'Poslednyaya skazka Rity', 'count': 2},
{'_id': 'Invaders from Mars', 'count': 2},
{'_id': 'A Farewell to Arms', 'count': 2},
{'_id': 'Loving', 'count': 2},
{'_id': 'Samoan Wedding', 'count': 2},
{'_id': 'The Pink Panther', 'count': 2},
{'_id': 'Persuasion', 'count': 2},
{'_id': 'The Wounds', 'count': 2},
{'_id': 'Enigma', 'count': 2},
{'_id': 'Fontan', 'count': 2},
{'_id': 'Asterix and the Vikings', 'count': 2},
{'_id': 'Middle of Nowhere', 'count': 2},
{'_id': 'Il Divo', 'count': 2},
{'_id': 'Victory', 'count': 2},
{'_id': 'Land of Plenty', 'count': 2},
{'_id': 'Revolution', 'count': 2},
{'_id': 'Beowulf', 'count': 2},
{'_id': 'Make Mine Music', 'count': 2},
{'_id': 'La Ciudad (The City)', 'count': 2},
{'_id': 'The Midnight Meat Train', 'count': 2},
{'_id': 'The Charge of the Light Brigade', 'count': 2},
{'_id': '12 Angry Men', 'count': 2},
{'_id': 'Heartbreak Hotel', 'count': 2},
{'_id': 'Carnal Knowledge', 'count': 2},
{'_id': 'My Soul to Take', 'count': 2},
{'_id': 'Kingdom of Heaven', 'count': 2},
{'_id': 'Deadly Advice', 'count': 2},
{'_id': 'Lemonade Joe', 'count': 2},
{'_id': 'The Piano Teacher', 'count': 2},
{'_id': 'The Milky Way', 'count': 2},
{'_id': 'The Grand Maneuver', 'count': 2},
{'_id': 'The Cherry Orchard', 'count': 2},
{'_id': 'Taken', 'count': 2},
{'_id': 'Some Girl', 'count': 2},
{'_id': 'Izo', 'count': 2},
{'_id': 'Slap Shot 2: Breaking the Ice', 'count': 2},
{'_id': 'Piranha', 'count': 2},
{'_id': 'Certified Copy', 'count': 2},
{'_id': 'The Trap', 'count': 2},
{'_id': 'The Eye 2', 'count': 2},
{'_id': 'The Good Shepherd', 'count': 2},
{'_id': 'The Killers', 'count': 2},
{'_id': 'Night Train', 'count': 2},
{'_id': 'How to Succeed in Business Without Really Trying', 'count': 2},
{'_id': 'A Knight's Tale', 'count': 2},
{'_id': 'The Amityville Horror', 'count': 2},
{'_id': 'Barbara', 'count': 2},
{'_id': 'Commando', 'count': 2},
{'_id': 'Ronja Robbersdaughter', 'count': 2},
{'_id': 'Assault on Precinct 13', 'count': 2},
{'_id': 'Beloved/Friend', 'count': 2},
{'_id': 'Aftershock: Earthquake in New York', 'count': 2},
{'_id': 'The South', 'count': 2},
{'_id': 'Hush!', 'count': 2},
{'_id': 'Dragon Inn', 'count': 2},

```

```

{'_id': 'Teenage Mutant Ninja Turtles', 'count': 2},
{'_id': 'Titus', 'count': 2},
{'_id': 'The Idlers of the Fertile Valley', 'count': 2},
{'_id': 'In the Shadow', 'count': 2},
{'_id': 'Gleason', 'count': 2},
{'_id': 'Edie & Pen', 'count': 2},
{'_id': 'The Avengers', 'count': 2},
{'_id': 'Pride and Prejudice', 'count': 2},
{'_id': 'Tormented', 'count': 2},
{'_id': 'The Matador', 'count': 2},
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[Questão Extra] Quantos filmes cada diretor participou da direção? (ignore filmes repetidos)

In [14]:

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result = db.movies.aggregate(pipeline)  
list(result)
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Out[14]:

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[Questão Extra] Qual a somatória de prêmios recebidos pelos filmes para cada diretor? (ignore filmes repetidos)

In [16]:

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pipeline = [  
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    {"$group": {"_id": "$directors", "count": {"$sum": "$awards.wins"  
}}},  
    {"$sort": {"count": -1}}  
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result = db.movies.aggregate(pipeline)  
list(result)
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Out[16]:

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