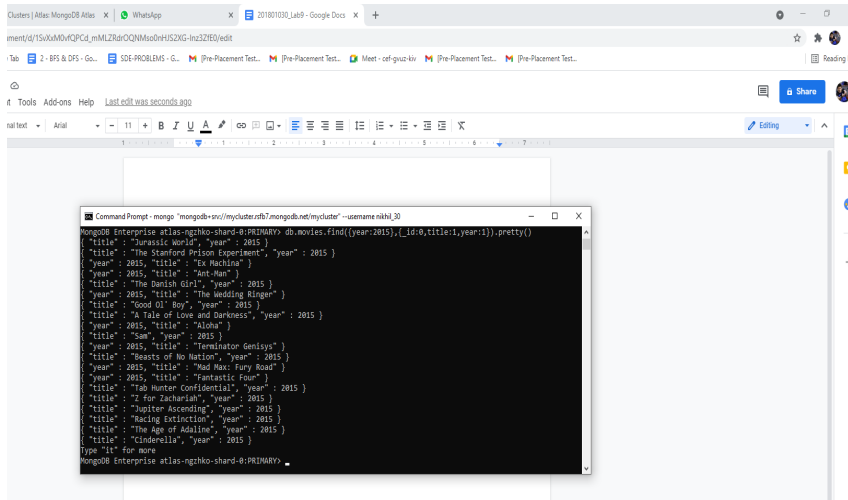


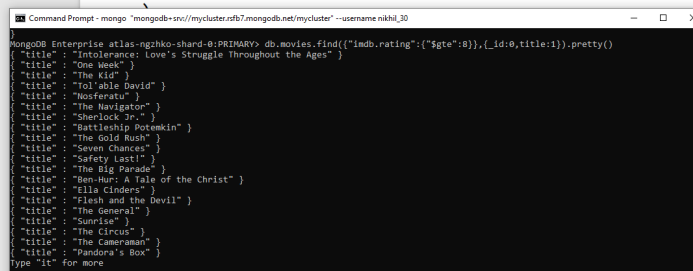
## 1. db.movies.find({year:2015},{\_id:0,title:1,year:1}).pretty()



```
Command Prompt - mongo "mongodb+srv://mycluster.rsf7.mongodb.net/mycluster" --username nikhi_30
MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY> db.movies.find({year:2015},{_id:0,title:1,year:1}).pretty()
{
  "title": "Jurassic World", "year": 2015 }
{
  "title": "The Stanford Prison Experiment", "year": 2015 }
{
  "year": 2015, "title": "Ex Machina" }
{
  "year": 2015, "title": "Ben-Hur" }
{
  "title": "The Danish Girl", "year": 2015 }
{
  "year": 2015, "title": "The Wedding Ringer" }
{
  "title": "Good Old Boy", "year": 2015 }
{
  "title": "A Tale of Love and Darkness", "year": 2015 }
{
  "year": 2015, "title": "Alpha" }
{
  "title": "Sam", "year": 2015 }
{
  "year": 2015, "title": "Terminator Genisys" }
{
  "title": "Beasts of No Nation", "year": 2015 }
{
  "year": 2015, "title": "Mad Max: Fury Road" }
{
  "year": 2015, "title": "Fantastic Four" }
{
  "title": "Z for Zachariah", "year": 2015 }
{
  "title": "Fah Hunter Confidential", "year": 2015 }
{
  "title": "Z for Zachariah", "year": 2015 }
{
  "title": "Jupiter Ascending", "year": 2015 }
{
  "title": "Racing Extinction", "year": 2015 }
{
  "title": "The Age of Adaline", "year": 2015 }
{
  "title": "Cinderella", "year": 2015 }
Type 'it' for more
MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY>
```

## 2. db.movies.find({"imdb.rating":{"\$gte":8}},{\_id:0,title:1}).pretty()

```
db.inventory.find(
  { "size.h": { $lt: 15 }, "size.uom": "in",
    status: "D" }
```



```
Command Prompt - mongo "mongodb+srv://mycluster.rsf7.mongodb.net/mycluster" --username nikhi_30
MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY> db.movies.find({"imdb.rating":{"$gte":8}},{_id:0,title:1}).pretty()
{
  "title": "Intolerance: Love's Struggle Throughout the Ages" }
{
  "title": "One Week" }
{
  "title": "The Kid" }
{
  "title": "Tollable David" }
{
  "title": "Nosferatu" }
{
  "title": "The Navigator" }
{
  "title": "Sherlock Jr." }
{
  "title": "Battleship Potemkin" }
{
  "title": "The Gold Rush" }
{
  "title": "Seven Chances" }
{
  "title": "Safety Last!" }
{
  "title": "The Big Parade" }
{
  "title": "Ben-Hur: A Tale of the Christ" }
{
  "title": "Ella Cinders" }
{
  "title": "Flash and the Devil" }
{
  "title": "The General" }
{
  "title": "Sunrise" }
{
  "title": "The Circus" }
{
  "title": "The Cameraman" }
{
  "title": "Pandora's Box" }
Type 'it' for more
```



Array Field in FIND

3. `db.movies.find({"tomatoes.website":{"exists:true"}}).count()`

```
MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY> db.movies.find({"tomatoes.website":{"exists:true"}}).count()
2152
MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY> _
```

4. `db.movies.distinct("type")`

in Atlas

Atlas

sts

ngs

Dataset

Dataset

Dataset

Dataset

four

```
    },
    "num_mflix_comments": {
      "$numberInt": "1"
    }
  }
}
```

sample\_mflix.movies

sample\_mflix.sessions

sample\_mflix.theaters

sample\_mflix.users

Command Prompt - mongo "mongodb+srv://mycluster:rf67.mongodb.net/mycluster" --username nikhil\_30

MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY> db.movies.distinct("type")

MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY> \_

sample\_mflix.movies

sample\_mflix.sessions

sample\_mflix.theaters

sample\_mflix.users

user\_id\_1

{ "user\_id" : 1 }

Ascending index on the user\_id field

Unique

Sample Document

5. `db.movies.find({"year":2015,"languages":{"$in":["English"]},"languages.1":{"$exists":true}},{_id:0,title:1,year:1,languages:1})`

```

MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY> db.movies.find({"year":2015,"languages":{"$in":["English"]},"languages.1":{"$exists":true}},{_id:0,title:1,year:1,languages:1})
{"year":2015,"title":"Mad Max: Fury Road","languages":["English","Russian"],"year":2015}
{"title":"Jupiter Ascending","languages":["English","Russian"],"year":2015}
{"title":"The Age of Adaline","languages":["English","Portuguese","Italian"],"year":2015}
{"title":"Eisenstein in Guanajuato","languages":["English","Spanish"],"year":2015}
{"title":"Queen of the Desert","languages":["English","Arabic","Turkish"],"year":2015}
{"title":"Tomorrowland","languages":["English","French","Japanese"],"year":2015}
{"title":"The 37","languages":["English","Spanish"],"year":2015}
{"title":"Jupiter Ascending","languages":["English","Russian"],"year":2015}
{"title":"McFarland, USA","languages":["English","Spanish"],"year":2015}
{"year":2015,"title":"Hearts of Courage","languages":["English","German"]}
{"title":"In Sommer wohnt er unten","languages":["German","French","English"],"year":2015}
{"title":"Landmine Goes Click","languages":["English","Georgian","Russian"],"year":2015}
{"title":"Louder Than Bombs","languages":["English","French"],"year":2015}
{"year":2015,"title":"True Story","languages":["English","Dob"]}
{"title":"All Eyes and Ears","languages":["English","Chinese"],"year":2015}
{"title":"Admiral","languages":["Dutch","English","French"],"year":2015}
{"title":"Seoul Searching","languages":["English","Korean","German"],"year":2015}
{"year":2015,"title":"Blackhat","languages":["English","Mandarin","Spanish"]}
{"title":"Nobody Wants the Alps","languages":["English","Industriell"],"year":2015}
{"title":"Cash Only","languages":["English","Albanian"],"year":2015}
Type '!' for more
MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY>
```

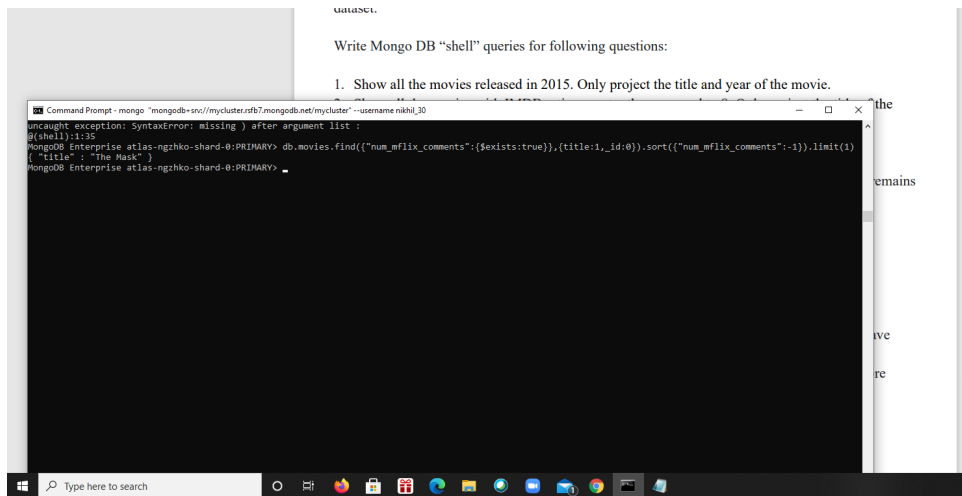
6. `db.movies.find({"languages":{"$nin":["English"]}}, {year:1,title:1,_id:0})`

Here you are given a movies dataset (description is available at the page <https://docs.atlas.mongodb.com/sample-data/sample-mflix/>). While there are a few collections here,

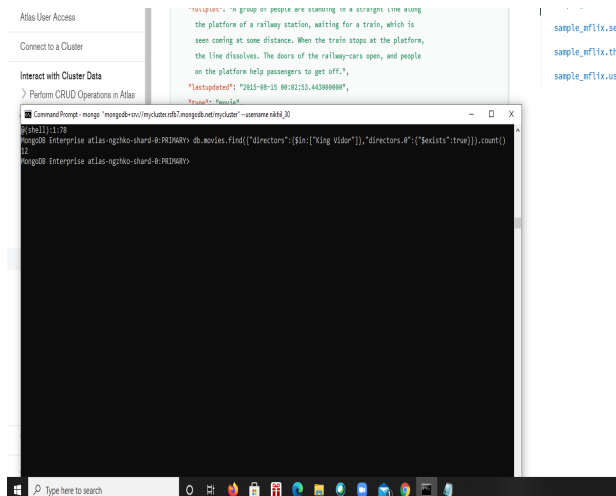
```

MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY> db.movies.find({"languages":{"$nin":["English"]}}, {year:1,title:1,_id:0})
{"title":"Blacksmith Scene","year":1893}
{"title":"The Birth of a Nation","year":1915}
{"title":"Civilization","year":1916}
{"title":"Les vampires","year":1915}
{"title":"Intolerance: Love's Struggle Throughout the Ages","year":1916}
{"title":"Broken Blossom or The Yellow Man and the Girl","year":1919}
{"title":"The Ace of Hearts","year":1921}
{"title":"The Four Horsemen of the Apocalypse","year":1921}
{"title":"The Signpost","year":1920}
{"title":"Miss Lulu Bett","year":1921}
{"title":"Within Our Gates","year":1920}
{"title":"The Signpost","year":1921}
{"title":"Nosferatu","year":1922}
{"title":"The Hunchback of Notre Dame","year":1923}
{"title":"The Navigator","year":1924}
{"title":"Peter Pan","year":1924}
{"title":"Sherlock Jr.","year":1924}
{"title":"The Thief of Bagdad","year":1924}
{"title":"Three Ages","year":1923}
{"title":"Battleship Potemkin","year":1925}
Type '!' for more
MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY>
```

7. `db.movies.find({"num_mflix_comments":{"$exists:true"}},{title:1,_id:0}).sort({"num_mflix_comments":-1}).limit(1)`



8. `db.movies.find({"directors":{"$in":["King Vidor"]},"directors.0":{"$exists":true}}).count()`



## 9. db.movies.aggregate([{"\$group":{"\_id":"\$year","total":{"\$sum":1}}})

is English.

- List non-English movies. Only project the title and year of the movie.
- Determine the movie with the greatest number of comments.

```

Command Prompt - mongo 'mongodb+srv://mycluster.rfb7.mongodb.net/mycluster' --username nikhil_30
MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY> db.movies.aggregate([{"$group":{"_id":"$year","total":{"$sum":1}}})
Type "it" for more
{ "_id" : 1972, "total" : 131 }
{ "_id" : 1925, "total" : 13 }
{ "_id" : 1949, "total" : 63 }
{ "_id" : 1980, "total" : 244 }
{ "_id" : 1987, "total" : 458 }
{ "_id" : 1921, "total" : 6 }
{ "_id" : 1941, "total" : 31 }
{ "_id" : 1998, "total" : 1 }
{ "_id" : 1969, "total" : 117 }
{ "_id" : 1958, "total" : 92 }
{ "_id" : 2018, "total" : 970 }
{ "_id" : 1893, "total" : 1 }
{ "_id" : 1983, "total" : 172 }
{ "_id" : 1915, "total" : 51 }
{ "_id" : 1896, "total" : 2 }
{ "_id" : 1959, "total" : 89 }
{ "_id" : 1918, "total" : 1 }
{ "_id" : 1968, "total" : 93 }
{ "_id" : 1977, "total" : 134 }
{ "_id" : 1963, "total" : 99 }
Type "it" for more
MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY> it
{ "_id" : 1913, "total" : 1 }
{ "_id" : 1993, "total" : 292 }
{ "_id" : 2003, "total" : 652 }
{ "_id" : 1975, "total" : 112 }
{ "_id" : 1989, "total" : 1 }
{ "_id" : 1934, "total" : 12 }
{ "_id" : 1980, "total" : 176 }
{ "_id" : 1937, "total" : 48 }
{ "_id" : 1917, "total" : 31 }
{ "_id" : 1962, "total" : 98 }
{ "_id" : 1898, "total" : 2 }
{ "_id" : 2012, "total" : 1180 }
{ "_id" : 1952, "total" : 58 }
{ "_id" : 1930, "total" : 44 }
{ "_id" : 1912, "total" : 21 }
{ "_id" : 2013, "total" : 1221 }
{ "_id" : 2014, "total" : 2 }
{ "_id" : 2000, "total" : 618 }
{ "_id" : 1928, "total" : 19 }
{ "_id" : 1894, "total" : 1 }
Type "it" for more
MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY>

```

ovies they have

ting 8 or more

## 10. db.movies.aggregate([{"\$unwind":"\$genres"},{"\$group":{"\_id":"\$genres","total":{"\$sum":1}}})

input values.

```

Command Prompt - mongo 'mongodb+srv://mycluster.rfb7.mongodb.net/mycluster' --username nikhil_30
MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY> db.movies.aggregate([{"$unwind":"$genres"},{"$group":{"_id":"$genres","total":{"$sum":1}}})
Type "it" for more
{ "_id" : "Drama", "total" : 13789 }
{ "_id" : "Family", "total" : 1111 }
{ "_id" : "Sports", "total" : 398 }
{ "_id" : "Musical", "total" : 487 }
{ "_id" : "Sci-Fi", "total" : 1834 }
{ "_id" : "History", "total" : 999 }
{ "_id" : "Adventure", "total" : 2045 }
{ "_id" : "War", "total" : 794 }
{ "_id" : "Short", "total" : 478 }
{ "_id" : "Fantasy", "total" : 1153 }
{ "_id" : "Talk-Show", "total" : 1 }
{ "_id" : "Western", "total" : 274 }
{ "_id" : "Documentary", "total" : 2129 }
{ "_id" : "Animation", "total" : 921 }
{ "_id" : "Thriller", "total" : 2658 }
{ "_id" : "Action", "total" : 2539 }
{ "_id" : "Film-Noir", "total" : 145 }
{ "_id" : "Horror", "total" : 1703 }
{ "_id" : "Music", "total" : 848 }
{ "_id" : "News", "total" : 51 }
Type "it" for more
MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY>

```

11. `db.movies.aggregate([{"$unwind":"$directors"}, {"$group":{"_id":"$directors", "total":{"$sum":"1"}}}, {"$sort:{total:-1}}, {"$limit:10}])`

```

Command Prompt - mongo "mongodb+srv://mycluster.rfb7.mongodb.net/mycluster" --username nikhil_30
MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY> db.movies.aggregate([{"$unwind":"$directors"}, {"$group":{"_id":"$directors", "total":{"$sum":"1"}}}, {"$sort:{total:-1}}, {"$limit:10}])
{"_id":"Woody Allen", "total":40}
{"_id":"John Ford", "total":35}
{"_id":"John Huston", "total":34}
{"_id":"Akashi Kishi", "total":34}
{"_id":"Werner Herzog", "total":33}
{"_id":"Martin Scorsese", "total":32}
{"_id":"Alfred Hitchcock", "total":31}
{"_id":"Sidney Lumet", "total":30}
{"_id":"George Cukor", "total":29}
{"_id":"Steven Spielberg", "total":29}
MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY>

```

12. `db.movies.find({$or:[{"imdb.rating":{$gte:8}}, {"$and:[{genres:{$all:["comedies", "drama"]}}]}], {"_id":0, "title":1})`

- Query `db.inventory.find( { tags: { $all: [ "red", "blank" ] } } )` shall look for document that have this array (i.e. ["red", "blank"]) as subset of elements in tags attributes.

```

Command Prompt - mongo "mongodb+srv://mycluster.rfb7.mongodb.net/mycluster" --username nikhil_30
MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY> db.movies.find({$or:[{"imdb.rating":{$gte:8}}, {"$and:[{genres:{$all:["comedies", "drama"]}}]}], {"_id":0, "title":1})
{"title": "Intolerance: Love's Struggle Throughout the Ages" }
{"title": "One Week" }
{"title": "The Kid" }
{"title": "Tolable David" }
{"title": "Nosferatu" }
{"title": "The Navigator" }
{"title": "Sherlock Jr." }
{"title": "Battleship Potemkin" }
{"title": "The Gold Rush" }
{"title": "Seven Chances" }
{"title": "Safety Last!" }
{"title": "The Big Parade" }
{"title": "Ben-Hur: A Tale of the Christ" }
{"title": "Ella Cinders" }
{"title": "Flesh and the Devil" }
{"title": "The General" }
{"title": "Sunrise" }
{"title": "The Circus" }
{"title": "The Cameraman" }
{"title": "Pandora's Box" }
Type "it" for more
MongoDB Enterprise atlas-ngzhko-shard-0:PRIMARY>

```