

EXERCISE 20

```
{
  _id: ObjectId("573a1390f29313caabcd42e8"),
  plot: 'A group of bandits stage a brazen train hold-up, only to find a determined
  posse hot on their heels.',
  genres: [ 'Short', 'Western' ],
  runtime: 11,
  cast: [
    'A.C. Abadie',
    "Gilbert M. 'Broncho Billy' Anderson",
    'George Barnes',
    'Justus D. Barnes'
  ],

  poster: 'https://m.media-
  amazon.com/images/M/MV5BMTU3NjE5NzYtYTYyNS00MDVmLWIwYjgtMmYwYWl0Z
  DYYnZU2XkEyXkFqcGdeQXVyNzQzNzQxNzI@._V1_SY1000_SX677_AL_.jpg',
  title: 'The Great Train Robbery',
  fullplot: "Among the earliest existing films in American cinema - notable as the first
  film that presented a narrative story to tell - it depicts a group of cowboy outlaws
  who hold up a train and rob the passengers. They are then pursued by a Sheriff's
  posse. Several scenes have color included - all hand tinted.",
  languages: [ 'English' ],
  released: ISODate("1903-12-01T00:00:00.000Z"),
  directors: [ 'Edwin S. Porter' ],
  rated: 'TV-G',
  awards: { wins: 1, nominations: 0, text: '1 win.' },
  lastupdated: '2015-08-13 00:27:59.177000000',
  year: 1903,
  imdb: { rating: 7.4, votes: 9847, id: 439 },

  countries: [ 'USA' ],
  type: 'movie',
  tomatoes: {
    viewer: { rating: 3.7, numReviews: 2559, meter: 75 },
    fresh: 6,
    critic: { rating: 7.6, numReviews: 6, meter: 100 },
    rotten: 0,
    lastUpdated: ISODate("2015-08-08T19:16:10.000Z")
  }
}
```

1. Find all movies with full information from the 'movies' collection that released in the year 1893.

```
db.movies.find(  
  { year: 1893 }  
)
```

2. Find all movies with full information from the 'movies' collection that have a runtime greater than 120 minutes.

```
db.movies.find(  
  { runtime: { $gt: 120 } }  
)
```

3. Find all movies with full information from the 'movies' collection that have "Short" Genre.

```
db.movies.find(  
  { genres: "Short" }  
)
```

4. Retrieve all movies from the 'movies' collection that were directed by "William K.L. Dickson" and include complete information for each movie.

```
db.movies.find(  
  { directors: "William K.L. Dickson" }  
)
```

5. Retrieve all movies from the 'movies' collection that were released in the USA and include complete information for each movie.

```
db.movies.find(  
  { countries: "USA" }  
)
```

6. Retrieve all movies from the 'movies' collection that have complete information and are rated as "UNRATED".

```
db.movies.find(  
  { rated: "UNRATED" }  
)
```

7. Retrieve all movies from the 'movies' collection that have complete information and have received more than 1000 votes on IMDb.

```
db.movies.find(  
  { "imdb.votes": { $gt: 1000 } }  
)
```

8. Retrieve all movies from the 'movies' collection that have complete information and have an IMDb rating higher than 7.

```
db.movies.find(  
  { "imdb.rating": { $gt: 7 } }  
)
```

9. Retrieve all movies from the 'movies' collection that have complete information and have a viewer rating higher than 4 on Tomatoes.

```
db.movies.find(  
  { "tomatoes.viewer.rating": { $gt: 4 } }  
)
```

10. Retrieve all movies from the 'movies' collection that have received an award.

```
db.movies.find(  
  { "awards.wins": { $gt: 0 } }  
)
```

11. Find all movies with title, languages, released, directors, writers, awards, year, genres, runtime, cast, countries from the 'movies' collection in MongoDB that have at least one nomination.

```
db.movies.find(  
  { "awards.nominations": { $gt: 0 } },  
  { title, languages, released, directors, writers, awards, year, genres, runtime, cast, countries }  
)
```

12. Find all movies with title, languages, released, directors, writers, awards, year, genres, runtime, cast, countries from the 'movies' collection in MongoDB with cast including "Charles Kayser".

```
db.movies.find(  
  { cast: "Charles Kayser" },  
  { title, languages, released, directors, writers, awards, year, genres, runtime, cast, countries }  
)
```

13. Retrieve all movies with title, languages, released, directors, writers, countries from the 'movies' collection in MongoDB that released on May 9, 1893.

```
db.movies.find(  
  { released: ISODate("1893-05-09T00:00:00Z") },  
  { title, languages, released, directors, writers, countries }  
)
```

14. Retrieve all movies with title, languages, released, directors, writers, countries from the 'movies' collection in MongoDB that have a word "scene" in the title.

```
db.movies.find(  
  { title: { $regex: /scene/i } },  
  { title, languages, released, directors, writers, countries }  
)
```