MongoDB Find Operations

1 Find the First 5 Movies Sorted by Year (Descending Order)

(Retrieve the latest movies based on release year)

Edit

```
db.movies.find()
  .sort({ "year": -1 })
  .limit(5)
```

```
> db.movies.find().sort({ "year": -1 }).limit(5)
< {
    _id: ObjectId('573a13eaf29313caabdcfbc1'),
    plot: 'A documentary that weaves together the stories of Theodore, Franklin and Eleanor Roosevelt, three members of one of the most prom
    genres: [
      'Documentary'
    ],
    countries: [
      'USA'
    ],
    cast: [
      'Meryl Streep',
      'Edward Herrmann',
      'Doris Kearns Goodwin',
      'Franklin D. Roosevelt'
    ],
    num_mflix_comments: 1,
    poster: 'https://m.media-amazon.com/images/M/MV5BMDNlZWM2MDUtOWRlYi00MGQ3LTgxOGEtY2UxYmMwYjIxYWYxXkEyXkFqcGdeQXVyMjExMjk0ODk@._V1_SY1000
    title: 'The Roosevelts: An Intimate History',
    fullplot: 'A documentary that weaves together the stories of Theodore, Franklin and Eleanor Roosevelt, three members of one of the most
    languages: [
      'English'
    ],
    released: 2014-09-14T00:00:00.000Z,
    awards: {
      wins: 3,
```

```
  released: 2014-09-14T00:00:00.000Z,
  awards: {
    wins: 3,
    nominations: 4,
    text: 'Nominated for 2 Primetime Emmys. Another 1 win & 4 nominations.'
  },
  lastupdated: '2015-08-23 00:10:24.657000000',
  year: '2014è',
  imdb: {
    rating: 8.8,
    votes: 682,
    id: 3400010
  },
  type: 'series'
}
{
  _id: ObjectId('573a13f1f29313caabddc613'),
  plot: 'While investigating terrorist activity on the distant colony world of Sedra, Jameson Locke and his team are caught in a horrific
  genres: [
    'Action',
    'Adventure',
    'Sci-Fi'
  ],
  runtime: 30,
  cast: [
    'Steven Waddington',
    'Siennah Buck',
```

```
    'Steven Waddington',
    'Siennah Buck',
    'Mike Colter',
    'Christian Contreras'
  ],
  num_mflix_comments: 0,
  poster: 'https://m.media-amazon.com/images/M/MV5BMTQ2NTQwNzU2OV5BMl5BanBnXkFtZTgwNzkxOTQ0MzE@._V1_SY1000_SX677_AL_.jpg',
  title: 'Halo: Nightfall',
  fullplot: "In the 28th Century, the prolonged war between humanity and the fanatical alien alliance the Covenant has ended with a tenuou
  languages: [
    'English'
  ],
  released: 2014-11-11T00:00:00.000Z,
  awards: {
    wins: 1,
    nominations: 0,
    text: '1 win.'
  },
  lastupdated: '2015-08-20 00:40:26.313000000',
  year: '2014è',
  imdb: {
    rating: 5.7,
    votes: 2640,
    id: 3804114
  },
  type: 'series'
}
```

```
{
  _id: ObjectId('573a13dbf29313caabdae27b'),
  countries: [
    'USA'
  ],
  genres: [
    'Documentary'
  ],
  cast: [
    'Cindy Roach',
    'Gerald Berenson',
    'Peter Katzmarzyk',
    'Stephanie Broyles'
  ],
  poster: 'https://m.media-amazon.com/images/M/MV5BMTQ3NjExNzk3Ml5BMl5BanBnXkFtZTgwMjYyNTAxMzE@._V1_SY1000_SX677_AL_.jpg',
  title: 'The Weight of the Nation',
  lastupdated: '2015-07-31 00:04:27.097000000',
  languages: [
    'English',
    'Spanish'
  ],
  released: 2012-05-14T00:00:00.000Z,
  awards: {
    wins: 0,
    nominations: 3,
    text: 'Nominated for 1 Primetime Emmy. Another 2 nominations.'
  },
```
```
  },
  year: '2012è',
  imdb: {
    rating: 7.4,
    votes: 86,
    id: 2327631
  },
  type: 'series',
  tomatoes: {
    website: 'http://theweightofthenation.hbo.com/films/bonus-shorts/the-quest-to-understand-t',
    viewer: {
      rating: 4.2,
      numReviews: 23
    },
    critic: {
      rating: 8.8,
      numReviews: 8,
      meter: 88
    },
    lastUpdated: 2015-08-18T19:35:13.000Z,
    rotten: 1,
    production: 'HBO',
    fresh: 7
  },
  num_mflix_comments: 0
}
{
```

```
{
  _id: ObjectId('573a13d9f29313caabda87b7'),
  plot: 'Follows the life of transgender contract killer Mia, who travels to West Yorkshire to seek out her ex girlfriend.',
  genres: [
    'Drama'
  ],
  title: 'Hit & Miss',
  num_mflix_comments: 2,
  poster: 'https://m.media-amazon.com/images/M/MV5BOWFiZjBmOWItMDVjYi00ZjI0LTgzODgtMmFkMTdlNDVmODY3XkEyXkFqcGdeQXVyMjM2Mzk0MDk@._V1_SY1000
  countries: [
    'UK'
  ],
  fullplot: 'Follows the life of transgender contract killer Mia, who travels to West Yorkshire to seek out her ex girlfriend.',
  languages: [
    'English'
  ],
  cast: [
    'Jonas Armstrong',
    'Chloè Sevigny',
    'Karla Crome',
    'Reece Noi'
  ],
  writers: [
    'Paul Abbott'
  ],
  awards: {
    wins: 0,
```

```
  awards: {
    wins: 0,
    nominations: 3,
    text: '3 nominations.'
  },
  lastupdated: '2015-08-27 00:12:50.697000000',
  year: '2012è',
  imdb: {
    rating: 7.9,
    votes: 3747,
    id: 2232345
  },
  type: 'series'
}
{
  _id: ObjectId('573a13d5f29313caabd9d89c'),
  plot: 'The murder of Emili, a young girl, leaves the inhabitants of a small Japanese village in shock. The body of Emily is found by the
  genres: [
    'Mystery'
  ],
  runtime: 270,
  metacritic: 58,
  cast: [
    'Hazuki Kimura',
    'Manatsu Kimura',
    'Kyèko Koizumi',
    'Asumi Kikuchi'
```

```
    ],
    num_mflix_comments: 0,
    poster: 'https://m.media-amazon.com/images/M/MV5BMTc0MDI0NTczMl5BMl5BanBnXkFtZTgwOTQyMTc5MjE@._V1_SY1000_SX677_AL_.jpg',
    title: 'Penance',
    fullplot: "The murder of Emili, a young girl, leaves the inhabitants of a small Japanese village in shock. The body of Emily is found by
    languages: [
      'Japanese'
    ],
    released: 2012-01-08T00:00:00.000Z,
    awards: {
      wins: 1,
      nominations: 1,
      text: '1 win & 1 nomination.'
    },
    lastupdated: '2015-08-27 00:20:32.947000000',
    year: '2012è',
    imdb: {
      rating: 7.2,
      votes: 570,
      id: 2043616
    },
    countries: [
      'Japan'
    ],
    type: 'series',
    tomatoes: {
      website: 'http://www.musicboxfilms.com/penance',
```

```
      viewer: {
        rating: 2.1,
        numReviews: 292,
        meter: 16
      },
      dvd: 2009-11-17T00:00:00.000Z,
      critic: {
        rating: 5.7,
        numReviews: 5,
        meter: 80
      },
      lastUpdated: 2015-07-26T18:00:11.000Z,
      rotten: 1,
      production: 'Doppelgènger Releasing',
      fresh: 4
    }
}
```

② Find Potential Sequel Candidates

(High ratings, large audience, released over 5 years ago)

Edit

```
db.movies.find({
  "imdb.rating": { $gt: 8 },
  "imdb.votes": { $gt: 100000 },
```

```
  "year": { $lt: 2018 }
})
```

```
    },
    lastupdated: '2015-08-30 00:04:41.663000000',
    year: 2000,
    imdb: {
      rating: 5.8,
      votes: 3758,
      id: 168856
    },
    countries: [
      'Germany',
      'Ireland',
      'Denmark'
    ],
    type: 'movie',
    tomatoes: {
      viewer: {
        rating: 2.9,
        numReviews: 6502,
        meter: 45
      },
      dvd: 2006-09-05T00:00:00.000Z,
      lastUpdated: 2015-09-12T19:18:01.000Z
    },
    num_mflix_comments: 0
  }
  Type "it" for more
```

---

3 Find Underutilized Directors

(Directors with few movies but high average ratings)

Edit
```
db.movies.find({
  "directors": { $size: 1 },
  "imdb.rating": { $gt: 8 }
})
```

```
    ],
    rated: 'G',
    awards: {
      wins: 7,
      nominations: 1,
      text: 'Won 1 Oscar. Another 6 wins & 1 nomination.'
    },
    lastupdated: '2015-09-15 03:57:58.743000000',
    year: 2000,
    imdb: {
      rating: 8.2,
      votes: 18236,
      id: 248808
    },
    type: 'movie',
    tomatoes: {
      viewer: {
        rating: 4.1,
        numReviews: 1759,
        meter: 89
      },
      production: 'Pixar Animation Studios',
      lastUpdated: 2015-09-12T18:50:43.000Z
    }
  }
Type "it" for more
Atlas atlas-14llsp-shard-0 [primary] sample_mflix>
```

---

4 Find Movies That Resonate with Global Audiences

(Movies produced in multiple countries with high ratings)

Edit

```
db.movies.find({
  $expr: { $gt: [{ $size: "$countries" }, 2] },
  "imdb.rating": { $gt: 7 }
})
```

```
      'USA'
    ],
    type: 'movie',
    tomatoes: {
      website: 'http://studio.go.com/movies/obrother/index.html',
      viewer: {
        rating: 3.7,
        numReviews: 254623,
        meter: 89
      },
      dvd: 2001-06-12T00:00:00.000Z,
      critic: {
        rating: 7.1,
        numReviews: 148,
        meter: 77
      },
      boxOffice: '$45.2M',
      consensus: "Though not as good as Coen brothers' classics such as Blood Simple, the delightfully loopy O Brother, Where Art Thou? is still a lot of
      rotten: 34,
      production: 'Buena Vista',
      lastUpdated: 2015-09-14T17:05:21.000Z,
      fresh: 114
    },
    num_mflix_comments: 0
  }
Type "it" for more
```