

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/MV5BMDNlZWZMDUUtOWRlYi00MGQ3LTgxOGEtY2UxYmMwYjIxYWYxXkEyXkFqcGdeQXVyMjExMjk0ODk@._V1_SV1000  
  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/MV5BMTQ2NTQwNzU2OV5BMT5BanBnXkFtZTgwNzkxOTQ0MzE@._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: '2012',
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
}
{

```



```

    ],
    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: 'Doppelgänger 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 }
})

```

mongosh: cluster0.vjlrp.mongodb.net

```
'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
```