#### **FILTER OPERATIONS**

### 1 Find Unexpected Audience Hits

(Poor critic ratings but high audience scores)

```
db.movies.find({ $and: [{ "cast": { $exists: true } }, { $expr: { $gt: [{ $size: "$genres" }, 2] } }, { "imdb.rating": { $gt: 7.5 } }] })

di. ObjectId('573a1391f29313caabcd70b4'),
plot: 'An extended family split up in France and Germany find themselves on opposing sides of the battlefield during World War I.',
genres: [
    'Drama',
    'Romance',
    'War'
],
runtime: 150,
rated: 'PASSED',
cast: [
    'Pomeroy Cannon',
    'Josef Swickard',
    'Bridgetta Clark',
    'Rudolph Valentino'
],
rum_mflix_comments: 1,
poster: 'https://m.media-amazon.com/images/M/MY5BOTU10DQyYTct0DhkNy00YWRmLWE2YzYtMTQ5ZjA3OTNiN2QyXkEyXkFqcGdeQXVyMzE8MjY5DDAe._V1_SY1800
title: 'The Four Horsemen of the Apocalypse',
fullplot: 'Julio Madariaga is the Argentine patriarch of a wealthy family. He has two daughters, the elder wed to a Frenchman and the ot countries: [
    'USA'
```

```
released: 1923-03-31T00:00:00.000Z,

directors: [
    'Rex Ingram'
],
writers: [
    'Vicente Blasco Ibèèez (novel)',
    'June Mathis (written for the screen by)'
],
awards: {
    wins: 1,
    nominations: 0,
    text: '1 win.'
},
lastupdated: '2015-08-24 00:59:30.43000000',
year: 1921,
imdb: {
    rating: 7.9,
    votes: 2475,
    id: 12190
},
type: 'movie',
tomatoes: {
    viewer: {
    rating: 3.9,
    }
```

```
1,
type: 'movie',
tomatoes: {
    viewer: {
        rating: 3.6,
        numReviews: 659,
        meter: 70
    },
    dvd: 2004-02-03T00:00:00.000Z,
    critic: {
        rating: 8.4,
        numReviews: 8,
        meter: 100
    },
    lastUpdated: 2015-07-14T18:21:21.000Z,
    rotten: 0,
    fresh: 8
}
}
{
cid: ObjectId('573a1391f29313cambcd7b98'),
    plot: 'A bitter clown endeavors to rescue the young woman he loves from the lecherous count who once betrayed him.',
    genres: [
        'Drama',
        'Romance',
        'Romance',
```

```
fullplot: "Amid big-budget medieval pageantry, King Richard goes on the Crusades leaving his brother Prince John as regent, who promptly languages: [
    'English'
],
    released: 1922-10-18700:00:00.000Z,
    directors: [
    'Allan Dwan'
],
    writers: [
    'Douglas Fairbanks (story)'
],
    awards: {
    wins: 1,
    nominations: 0,
    text: '1 win.'
},
    lastupdated: '2015-08-11 00:29:16.047000000',
    year: 1922,
    imdb: {
        rating: 7.7,
        votes: 1460,
        id: 13556
},
    countries: [
    'USA'
```

```
},
poster: 'https://m.media-amazon.com/images/M/MV5BMTUGNzYGNTYSOF5BML5BanBnXkFtZTcwODY3MDEwMg@g._V1_SY1000_SX677_AL_.jpg',
num_mflix_comments: 0,
released: 2008-12-19T00:00:00.000Z,
awards: {
    wins: 5,
    nominations: 6,
    text: '5 wins & 6 nominations.'
},
countries: [
    'USA'
],
cast: [
    Will Smith',
    'Rosario Dawson',
    'Woody Harrelson',
    'Hichael Ealy'
],
directors: [
    'Gabriele Muccino'
],
runtime: 123
}
```

#### 2 Find Potentially Undervalued International Content

(High-rated but low-vote non-USA films)

# 3 Find Projects with Strong Director-Actor Chemistry

(Frequent collaborations with high ratings)

```
'Tom Hardy'
```

```
production: 'Warner Bros. Pictures',
lastUpdated: 2015-09-12T17:13:32.000Z,
'Leonardo DiCaprio',
```

# 4 Identify Content for Specific Streaming Demographics

(Short, high-rated documentaries & biographies)

```
{ "imdb.rating": { $gt: 7 } }
]
})
```

```
lastupdated: '2015-08-15 00:02:00.380000000',
```

```
released: 1934-02-09T00:00:00.000Z.
 'S.N. Behrman (dialogue)'
'Ted Sears (screenplay)'
```

## 5 Find Genre-Blending Innovations with Audience Appeal

(Movies with 3+ genres and strong ratings)

```
db.movies.find({
    $and: [
        { $expr: { $gte: [{ $size: "$genres" }, 3] } },
        { "imdb.rating": { $gt: 7.5 } }
]
```

```
awards: {
    wins: 5,
    nominations: 1,
    text: 's wins & 1 nomination.'
    },
    lastupdated: '2015-08-26 01:14:49.383000000',
    year: 1935,
    indot: {
        rating: 7.6,
        votes: 831,
        id: 26564
    },
    countries: {
        'France',
        'Germany'
    ],
    type: 'movie',
    tomatoes: {
        viewer: {
            rating: 4,
            numBeviewe: 191,
            meter: 88
        },
        production: 'Criterion Collection',
        lastUpdated: 2015-07-04T19:21:41.000Z
    }
}
Type "it" for more
```

## 6 Find Potential Licensing Targets for Game Adaptations

(Action, Fantasy, Sci-Fi films without existing games)

```
indb: {
    rating: 7.7,
    votes: 4079,
    id: 33712
},
countries: [
    "usa"
],
type: 'movie',
tomatose: {
    viewer: {
        rating: 3.9,
        numReviews: 1837,
        meter: 83
},
dvd: 2007-02-06T00:00100.0002,
    critic: {
        rating: 7.4,
        numReviews: 15,
        meter: 100
},
lastUpdated: 2015-09-10T19:10:19.0002,
    rotten: 0,
    production: 'Sony Pictures Entertainment',
    fresh: 15
}
Type "it" for more
```

# 7 Find Potential Documentary Series Expansions

(Highly rated, long documentaries)

**8** Identify Unique Audience Segments via Niche Content

(Highly rated family-friendly animated musicals)