

Basic Queries (Find/Search)

1] Find all movies directed by "Christopher Nolan"

sample_mflix.movies

STORAGE SIZE: 19.17MB LOGICAL DATA SIZE: 32.54MB TOTAL DOCUMENTS: 21349 INDEXES TOTAL SIZE: 17.04MB

Find Indexes Schema Anti-Patterns Aggregation Search Indexes

Generate queries from natural language in Compass [↗](#) INSERT DOCUMENT

Filter [↗](#) { directors: "Christopher Nolan" } Reset Apply Options ▶

QUERY RESULTS: 1-9 OF 9

```
{
  "_id": ObjectId('573a139df29313caabcf8dd4'),
  "fullplot": "An older man listens to Bill's story about being a callow writer who l...",
  "imdb": Object,
  "year": 1998,
  "plot": "A young writer who follows strangers for material meets a thief who ta...",
  "genres": Array (2),
  "rated": "R",
  "metacritic": 60,
  "title": "Following",
  "lastupdated": "2015-08-13 00:26:04.177000000",
  "languages": Array (1),
  "writers": Array (1),
  "type": "movie"
}
```

2] Find movies with "Batman" in the title.

sample_mflix.movies

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Find Indexes Schema Anti-Patterns Aggregation Search Indexes

Generate queries from natural language in Compass [↗](#) INSERT DOCUMENT

Filter [↗](#) { title: /Batman/i } Reset Apply Options ▶

QUERY RESULTS: 1-15 OF 15

```
{
  "_id": ObjectId('573a1395f29313caabce2b20'),
  "plot": "The Dynamic Duo faces four super-villains who plan to hold the world f...",
  "genres": Array (3),
  "runtime": 105,
  "rated": "PG",
  "cast": Array (4),
  "poster": "https://m.media-amazon.com/images/M/MV5BMM10GIzM2UtNThhZS00ZGNLLWI4Nz...",
  "title": "Batman: The Movie",
  "fullplot": "The arch-villains of the United Underworld - the Joker, the Penguin, t...",
  "languages": Array (1),
  "released": 1966-10-26T00:00:00.000+00:00,
  "directors": Array (1)
}
```

3] Find movies released in the year 2010.

sample_mflix.movies

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Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Generate queries from natural language in Compass [↗](#) INSERT DOCUMENT

Filter [↗](#) { year: 2010 } Reset Apply Options ▶

QUERY RESULTS: 1-20 OF MANY

```
{
  "_id": ObjectId('573a139cf29313caabcf6fb1'),
  "plot": "A lonely obese nurse, working at a hospital terminal ward, is reminded..."
  "genres": Array (1)
  "runtime": 136
  "cast": Array (4)
  "num_mflix_comments": 1
  "poster": "https://m.media-amazon.com/images/M/MV5BODNjZmM3MWYtYmUwZC00M2RjLTkyZm..."
}
```

4] Find all movies with an IMDb rating greater than 8.5.

sample_mflix.movies

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Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Generate queries from natural language in Compass [↗](#) INSERT DOCUMENT

Filter [↗](#) { "imdb.rating": { \$gt: 8.5 } } Reset Apply Options ▶

QUERY RESULTS: 1-20 OF MANY

```
{
  "_id": ObjectId('573a1391f29313caabcd9600'),
  "plot": "With the aid of a wealthy erratic tippler, a dewy-eyed tramp who has f..."
  "genres": Array (3)
  "runtime": 87
  "rated": "PASSED"
  "cast": Array (4)
  "poster": "https://m.media-amazon.com/images/M/MV5BY2I4MmM1N2EtM2YzOS00WUzLTkzYZ..."
  "title": "City Lights"
}
```

< PREVIOUS 1-20 of many results NEXT >

[💬](#)

5] Find movies where genre includes "Action" and "Sci-Fi".

sample_mflix.movies

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Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Generate queries from natural language in Compass [↗](#) INSERT DOCUMENT

Filter [↗](#) { genres: { \$all: ["Action", "Sci-Fi"] } } Reset Apply Options ▶

QUERY RESULTS: 1-20 OF MANY

```
{
  "_id": ObjectId('573a1392f29313caabdcacf0'),
  "plot": "Three earthlings visit the planet Mongo to thwart the evil schemes of ...",
  "genres": Array (3),
  "runtime": 245,
  "rated": "APPROVED",
  "cast": Array (4),
  "poster": "https://m.media-amazon.com/images/M/MV5BMjA5NDczNjM5Nl5BMl5BanBnXkFtZT...",
  "title": "Flash Gordon"
}
```

< PREVIOUS 1-20 of many results NEXT >

⌵

Filtering & Logical Queries

6] Find movies released between 2000 and 2010.

sample_mflix.movies

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Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Generate queries from natural language in Compass [↗](#) INSERT DOCUMENT

Filter [↗](#) { year: { \$gte: 2000, \$lte: 2010 } } Reset Apply Options ▶

QUERY RESULTS: 1-20 OF MANY

```
{
  "_id": ObjectId('573a1393f29313caabdcdb42'),
  "plot": "Kate and her actor brother live in N.Y. in the 21st Century. Her ex-bo...",
  "genres": Array (3),
  "runtime": 118,
  "metacritic": 44,
  "rated": "PG-13",
  "cast": Array (4),
  "poster": "https://m.media-amazon.com/images/M/MV5BNmNlN2VlOTctYTdhMS00NzUxLTg0ZG..."
}
```

< PREVIOUS 1-20 of many results NEXT >

⌵

7] Find movies that are either "Comedy" or "Horror".

sample_mflix.movies

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Find Indexes Schema Anti-Patterns Aggregation Search Indexes

Generate queries from natural language in Compass [↗](#) INSERT DOCUMENT

Filter [↗](#) { genres: { \$in: ["Comedy", "Horror"] } } Reset Apply Options ▶

QUERY RESULTS: 1-20 OF MANY

```
{
  "_id": ObjectId('573a1390f29313caabcd4803'),
  "plot": "Cartoon figures announce, via comic strip balloons, that they will mov...",
  "genres": Array (3)
  "runtime": 7
  "cast": Array (1)
  "num_mflix_comments": 0
  "poster": "https://m.media-amazon.com/images/M/MV5BYzg2NjNhNTctMjUxMi00ZWU4LWI3Zj...",
  "title": "Winsor McCay, the Famous Cartoonist of the N.Y. Herald and His Moving ..."
}
```

< PREVIOUS 1-20 of many results NEXT >

8] Find movies that are neither "Comedy" nor "Horror".

sample_mflix.movies

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Find Indexes Schema Anti-Patterns Aggregation Search Indexes

Generate queries from natural language in Compass [↗](#) INSERT DOCUMENT

Filter [↗](#) { genres: { \$nin: ["Comedy", "Horror"] } } Reset Apply Options ▶

```
{
  "released": 1903-12-01T00:00:00.000+00:00
  "directors": Array (1)
  "rated": "TV-G"
  "awards": Object
  "lastupdated": "2015-08-13 00:27:59.177000000"
  "year": 1903
  "imdb": Object
  "countries": Array (1)
  "type": "movie"
  "tomatoes": Object
  "num_mflix_comments": 0
}
```

< PREVIOUS 1-20 of many results NEXT >

9] Find movies with runtime between 90 and 91 minutes.

sample_mflix.movies

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Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Generate queries from natural language in Compass

INSERT DOCUMENT

Filter { runtime: { \$gte: 90, \$lte: 91 } }

Reset Apply Options

QUERY RESULTS: 1-20 OF MANY

```
{
  "_id": "ObjectId('573a1391f29313caabcd8de7')",
  "plot": "Joe May's sensual drama of life in the Berlin underworld is in many wa...",
  "genres": Array (1),
  "runtime": 90,
  "cast": Array (4),
  "num_mflix_comments": 0,
  "poster": "https://m.media-amazon.com/images/M/MV5BODM1ZjBkNzktMTMhYjYsO0NDNjLWFjYT...",
  "title": "Asphalt"
}
```

PREVIOUS 1-20 of many results NEXT

10] Find movies with at least 1000 votes and an IMDb rating above 7.

sample_mflix.movies

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Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Generate queries from natural language in Compass

INSERT DOCUMENT

Filter { "imdb.votes": { \$gte: 1000 }, "imdb.rating": { \$gt: 7 } }

Reset Apply Options

QUERY RESULTS: 1-20 OF MANY

```
{
  "_id": "ObjectId('573a1390f29313caabcd42e8')",
  "plot": "A group of bandits stage a brazen train hold-up, only to find a determ...",
  "genres": Array (2),
  "runtime": 111,
  "cast": Array (4),
  "poster": "https://m.media-amazon.com/images/M/MV5BMTU3NjE5ZyYtYTtyNS00MDVmLWIwYj...",
  "title": "The Great Train Robbery",
  "fullplot": "Among the earliest existing films in American cinema - notable as the ..."
}
```

PREVIOUS 1-20 of many results NEXT

11] Find movies that have exactly 3 genres.

sample_mflix.movies

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Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Generate queries from natural language in Compass [↗](#) INSERT DOCUMENT

Filter [↗](#) { genres: { \$size: 3 } } Reset Apply Options ▶

QUERY RESULTS: 1-20 OF MANY

```
{
  "_id": ObjectId('573a1390f29313caabcd4803'),
  "plot": "Cartoon figures announce, via comic strip balloons, that they will mov...",
  "genres": Array (3)
  "runtime": 7
  "cast": Array (1)
  "num_mflix_comments": 0
  "poster": "https://m.media-amazon.com/images/M/MV5BYzg2NjNhNTctMjUxMi00ZWU4LWI3Zj...",
  "title": "Winsor McCay, the Famous Cartoonist of the N.Y. Herald and His Moving ..."
}
```

< PREVIOUS 1-20 of many results NEXT >

[Chat](#)

12] Find movies that have "Avengers" in the title.

sample_mflix.movies

STORAGE SIZE: 19.17MB LOGICAL DATA SIZE: 32.54MB TOTAL DOCUMENTS: 21349 INDEXES TOTAL SIZE: 17.04MB

Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Generate queries from natural language in Compass [↗](#) INSERT DOCUMENT

Filter [↗](#) { title: /Avengers/i } Reset Apply Options ▶

QUERY RESULTS: 1-6 OF 6

```
{
  "_id": ObjectId('573a139af29313caabcf075d'),
  "plot": "Two British agents (John Steed and Emma Peel) team up to stop Sir Augu...",
  "genres": Array (3)
  "runtime": 89
  "metacritic": 12
  "rated": "PG-13"
  "cast": Array (4)
  "poster": "https://m.media-amazon.com/images/M/MV5BYWE1NTdjOWQtYTQ2Ny00Nzc5LWExYz...",
  "title": "The Avengers"
  "fullplot": "British Ministry agent John Steed, under direction from \"Mother\", inve..."
  "languages": Array (1)
  "released": 1998-08-14T00:00:00.000+00:00
  "directors": Array (1)
}
```

[Chat](#)

13] Get all movies with an IMDb rating between 1 and 2.

sample_mflix.movies

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Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Generate queries from natural language in Compass

INSERT DOCUMENT

Filter { "imdb.rating": { \$gte: 1, \$lte: 2 } }

Reset Apply Options

QUERY RESULTS: 1-9 OF 9

```
{
  "_id": ObjectId('573a13a5f29313caabd14377'),
  "fullplot": "In this high-adventure sequel the baby geniuses find themselves at the...",
  "imdb": Object,
  "year": 2004,
  "plot": "A group of smart-talking toddlers find themselves at the center of a m...",
  "genres": Array (3),
  "rated": "PG",
  "metacritic": 9,
  "title": "Superbabies: Baby Geniuses 2",
  "lastupdated": "2015-09-15 03:59:20.790000000",
  "languages": Array (1),
  "writers": Array (2),
  "type": "movie"
}
```

Sorting & Pagination

14] Get the top 5 highest-rated movies.

sample_mflix.movies

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Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Pipeline Sort Limit

+ CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT

Stage 1 \$sort

1 { "imdb.rating": -1 }

Output after \$sort stage (Sample of 10 documents)

```
{
  "_id": ObjectId('573a13b8f29313caabd4d540'),
  "plot": "The remarkable love story inspired by the lives of artists Lili Elbe a...",
  "num_mflix_comments": 1,
  "countries": Array (2),
  "writers": Array (2),
  "lastupdated": "2015-09-01 01:17:41.067000000",
  "runtime": 120,
  "cast": Array (4),
  "genres": Array (3),
  "writers": Array (1),
  "awards": Object,
  "lastupdated": "2015-09-01 01:17:41.067000000",
  "year": 2015,
  "_id": ObjectId('573a13b8f29313caabd4d540'),
  "runtime": 75,
  "title": "Catching Fire",
  "fullplot": "The second book in the Hunger Games series, Katniss Everdeen is now..."
}
```

sample_mflix.movies

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Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Pipeline **\$sort** **\$limit**

+ CREATE NEW EXPORT TO LANGUAGE PREVIEW

Stage 2 \$limit

1 /**
2 * Provide the number of documents to limit
3 */
4 5

Output after [\\$limit](#) stage (Sample of 5 documents)

```

poster : "https://m.media-
amazon.com/images/M/MV5BMjA0NjA4NjE2N...
languages : Array (1)
lastupdated : "2015-09-01 01:17:41.067000000"
imdb : Object
type : "movie"
_id : ObjectId('573a13b8f29313caabd4d540')
released : 2015-11-27T00:00:00.000+00:00
directors : Array (1)
cast : Array (4)
imdb : Object
type : "movie"
_id : ObjectId('57
genres : Array (1)
awards : Object
year : 1977
writers : Array (
title : "Landet sc

```

Atlas Blog Contact Sales

15] Find the most recent 3 movies added to the database.

sample_mflix.movies

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Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Pipeline **\$sort** **\$limit**

+ CREATE NEW EXPORT TO LANGUAGE PREVIEW

1 { "lastupdated": -1 }

Output after [\\$sort](#) stage (Sample of 10 documents)

```

title : "Drinking Buddies"
lastupdated : "2015-09-17 17:31:50.663000000"
writers : Array (1)
tomatoes : Object
poster : "https://m.media-
amazon.com/images/M/MV5BMjMwNDU1NzZM...
runtime : 90
_id : ObjectId('573a13ddf29313caabdb4a66')
genres : Array (3)
_id : ObjectId('57
runtime : 154
metacritic : 79
lastupdated : "20
type : "movie"
tomatoes : Object
genres : Array (3)
rated : "PG-13"
cast : Array (4)

```

Atlas Blog Contact Sales

sample_mflix.movies

STORAGE SIZE: 19.17MB LOGICAL DATA SIZE: 32.54MB TOTAL DOCUMENTS: 21349 INDEXES TOTAL SIZE: 17.04MB

Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Pipeline Sunwind Sgroup

+ CREATE NEW </> EXPORT TO LANGUAGE

PREVIEW {} STAGES </> TEXT

Stage 2 Sgroup

```
1 {
2   "_id": "$genres",
3   "average_rating": {
4     "$avg": "$imdb.rating"
5   }
6 }
```

Output after Sgroup stage (Sample of 10 documents)

_id: "Romance"
average_rating : 6.6564272782136396

_id: "Biography"
average_rating : 7.397402597402598

sample_mflix.movies

STORAGE SIZE: 19.17MB LOGICAL DATA SIZE: 32.54MB TOTAL DOCUMENTS: 21349 INDEXES TOTAL SIZE: 17.04MB

Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Pipeline Sunwind Sgroup Ssort

+ CREATE NEW </> EXPORT TO LANGUAGE

PREVIEW {} STAGES </> TEXT

Stage 3 Ssort

```
1 { "average_rating": -1 }
```

Output after Ssort stage (Sample of 10 documents)

_id: "Film-Noir"
average_rating : 7.397402597402598

_id: "Short"
average_rating : 7.397402597402598

17] Count the number of movies per year.

sample_mflix.movies

STORAGE SIZE: 19.17MB LOGICAL DATA SIZE: 32.54MB TOTAL DOCUMENTS: 21349 INDEXES TOTAL SIZE: 17.04MB

Find Indexes Schema Anti-Patterns **Aggregation** Search Indexes

Pipeline **\$project**

+ CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT

Stage 1 \$project

```
1 {
2   "year": { "$year": { "$toDate": "$rele:
3   }
```

Output after \$project stage (Sample of 10 documents)

year : 1903
_id: ObjectId('573a1390f29313caabcd42e8')

year : 1909
_id: ObjectId('57

sample_mflix.movies

STORAGE SIZE: 19.17MB LOGICAL DATA SIZE: 32.54MB TOTAL DOCUMENTS: 21349 INDEXES TOTAL SIZE: 17.04MB

Find Indexes Schema Anti-Patterns **Aggregation** Search Indexes

Pipeline **\$project** \$group \$sort

+ CREATE NEW EXPORT TO LANGUAGE PREVIEW STAGES TEXT

```
1 [
2   {
3     $project: {
4       year: {
5         $year: {
6           $toDate: "$released",
7         },
8       },
9     },
10  },
11  {
12    $group: {
13      _id: "$year",
14      // Group by the 'year' field
15      movie count: {
```

PIPELINE OUTPUT
Sample of 10 documents

_id: 2016
movie_count : 10

_id: 2015
movie_count : 773

_id: 2014

18] Find the total number of movies directed by each director.

sample_mflix.movies

STORAGE SIZE: 19.17MB LOGICAL DATA SIZE: 32.54MB TOTAL DOCUMENTS: 21349 INDEXES TOTAL SIZE: 17.04MB

Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Pipeline ▾ \$unwind \$group \$sort

+ CREATE NEW </> EXPORT TO LANGUAGE PREVIEW STAGES </> TEXT ⚙

```
1 [
2   {
3     $unwind: {
4       path: "$directors",
5     },
6   },
7   {
8     $group: {
9       _id: "$directors",
10      // Group by the 'directors' field
11      movie_count: {
12        $sum: 1,
13      }, // Count the number of movies for each dire
14    },
15  }
16 ]
```

PIPELINE OUTPUT
Sample of 10 documents

OUTPUT OPTIONS ▾

- _id: "Woody Allen"
movie_count: 40
- _id: "Martin Scorsese"
movie_count: 32
- _id: "Takashi Miike"

19] Find the total number of movies for each MPAA rating (G, PG, PG-13, R).

sample_mflix.movies

STORAGE SIZE: 19.17MB LOGICAL DATA SIZE: 32.54MB TOTAL DOCUMENTS: 21349 INDEXES TOTAL SIZE: 17.04MB

Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Pipeline ▾ \$group \$sort

+ CREATE NEW </> EXPORT TO LANGUAGE PREVIEW STAGES </> TEXT ⚙

```
1 [
2   {
3     "$group": {
4       "_id": "$rated", // Group by the
5       "movie_count": { "$sum": 1 } // Count the n
6     },
7   },
8   {
9     "$sort": { "movie_count": -1 } // Sort by mov
10  }
11 ]
12
```

PIPELINE OUTPUT
Sample of 10 documents

OUTPUT OPTIONS ▾

- _id: null
movie_count: 9894
- _id: "R"
movie_count: 5537
- movie_count: 2321

Text Search & Indexing

20] Find all movies that have "war" in their title or description.

sample_mflix.movies

STORAGE SIZE: 19.17MB LOGICAL DATA SIZE: 32.54MB TOTAL DOCUMENTS: 21349 INDEXES TOTAL SIZE: 17.04MB

Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Pipeline \$match

+ CREATE NEW </> EXPORT TO LANGUAGE PREVIEW STAGES </> TEXT

```
1 [
2   {
3     "$match": {
4       "$or": [
5         { "title": { "$regex": "war", "$options": "i" } },
6         { "fullplot": { "$regex": "war", "$options": "i" } }
7       ]
8     }
9   }
10 ]
11
```

PIPELINE OUTPUT
Sample of 10 documents

OUTPUT OPTIONS

```
released : 1916-06-02T00:00:00.000+00:00
_id: ObjectId('573a1390f29313caabcd5a93')
runtime : 78
countries : Array (1)
poster : "https://m.media-amazon.com/images/M/MV5BMjAwNTIxMjE5N15BM..."
year : 1916
type : "movie"
plot : "Christ takes on the form of a pacifist..."
```

Joins & Lookups

21] Retrieve all movies along with their comments.

sample_mflix.movies

STORAGE SIZE: 19.17MB LOGICAL DATA SIZE: 32.54MB TOTAL DOCUMENTS: 21349 INDEXES TOTAL SIZE: 17.04MB

Find Indexes Schema Anti-Patterns 0 Aggregation Search Indexes

Pipeline \$lookup \$project

+ CREATE NEW </> EXPORT TO LANGUAGE PREVIEW STAGES </> TEXT

```
1 [
2   {
3     $lookup: {
4       from: "comments",
5       // Join with the 'comments' collection
6       localField: "_id",
7       // Match the '_id' from the movies collection
8       foreignField: "movie_id",
9       // With the 'movie_id' field from the comments
10      as: "movie_comments", // Create a new field 'm
11    },
12  },
13  {
14    $project: {
15      // Project relevant fields

```

PIPELINE OUTPUT
Sample of 10 documents

OUTPUT OPTIONS

```
_id: ObjectId('573a1390f29313caabcd42e8')
title: "The Great Train Robbery"
year: 1903
movie_comments: Array (empty)

_id: ObjectId('573a1390f29313caabcd446f')
title: "A Corner in Wheat"
year: 1909
```

