LOCHAN D

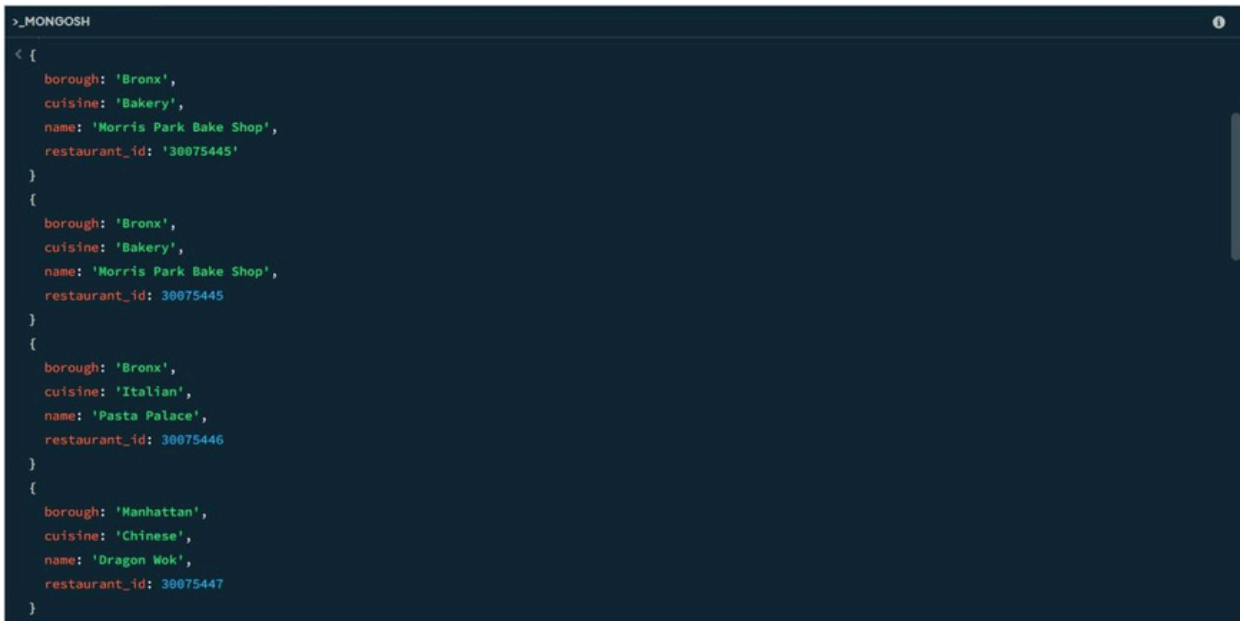
230701505

Ex.No.: 14		MONGODB
Date:	16.10.2024	

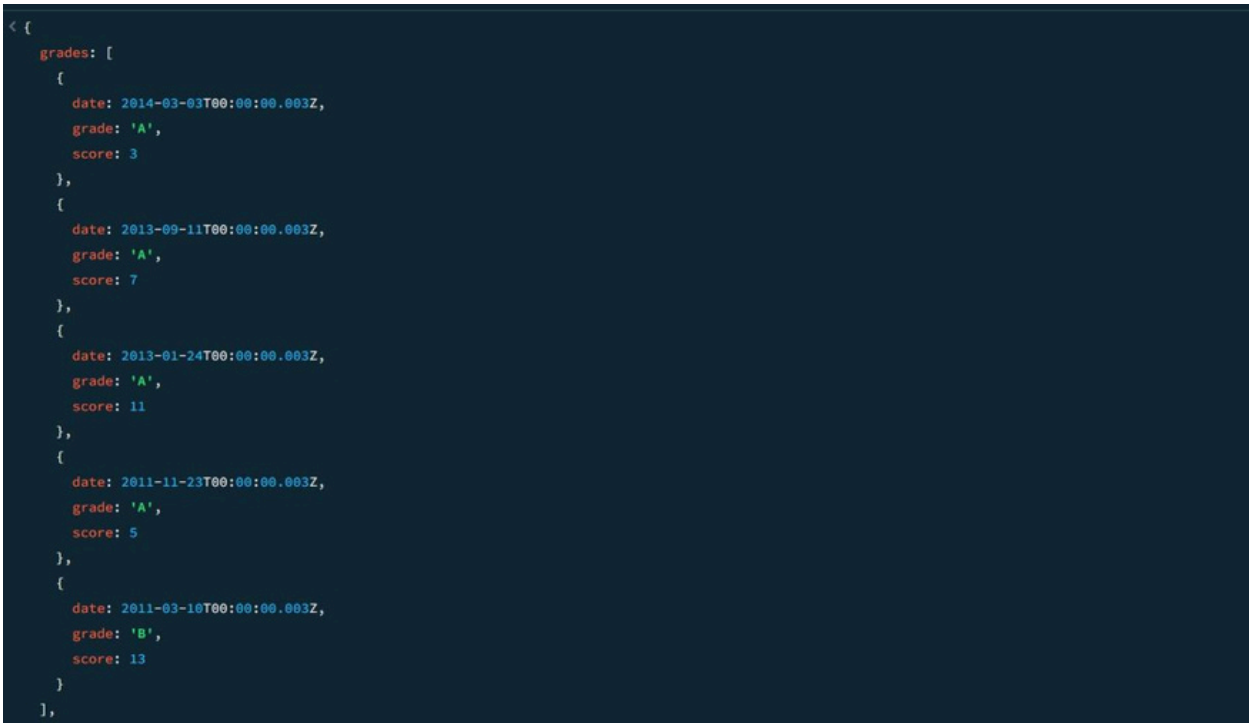
Structure of 'restaurants' collection:


```
{
"address": {
"building": "1007",
"coord": [ -73.856077, 40.848447 ],
"street": "Morris Park Ave",
"zipcode": "10462"
},
"borough": "Bronx",
"cuisine": "Bakery",
"grades": [
{ "date": { "$date": 1393804800000 }, "grade": "A", "score": 2 },
{ "date": { "$date": 1378857600000 }, "grade": "A", "score": 6 },
{ "date": { "$date": 1358985600000 }, "grade": "A", "score": 10 },
{ "date": { "$date": 1322006400000 }, "grade": "A", "score": 9 },
{ "date": { "$date": 1299715200000 }, "grade": "B", "score": 14 }
],
"name": "Morris Park Bake Shop",
"restaurant_id": "30075445"
}
```

1. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which prepare dishes except 'American' and 'Chinese' or restaurant's name begin with the letter 'Wil'.
   db.restaurants.find({ $or: [{ cuisine: { $nin: ["American", "Chinees"] } },{ name: { $regex: /^Wil/i } }]},{restaurant_id: 1,name: 1,borough: 1,cuisine: 1,_id: 0 });



2. Write a MongoDB query to find the restaurant Id, name, and grades for those restaurants which achieved a grade of "A" and scored 11 on an ISODate "2014-08-11T00:00:00Z" among many survey dates..
db.restaurants.find({ grades: {$elemMatch: {grade: "A", score: 11}}},{restaurant_id: 1,name: 1, grades: 1, _id: 0 });



3. Write a MongoDB query to find the restaurant Id, name and grades for those restaurants where the 2nd element of grades array contains a grade of "A" and score 9 on an ISODate "2014-08-11T00:00:00Z".

db.restaurants.find({ "grades.1": {$elemMatch: {grade: "A",score: 9}}},{restaurant_id: 1, name: 1, grades: 1, _id: 0 });

4. Write a MongoDB query to find the restaurant Id, name, address and geographical location for those restaurants where 2nd element of coord array contains a value which is more than 42 and upto 52..

db.restaurants.find({ "address.coord.1": { $gt: 42, $lte: 52 }},{restaurant_id: 1,name: 1,

address: 1, _id: 0 });

5. Write a MongoDB query to arrange the name of the restaurants in ascending order along with all the columns.

```
db.restaurants.find().sort({ name: 1 });
```

SAMPLE OUTPUT:-


```
{ _id: ObjectId('671b5e6d56ec9972ca8f5dc4'), address: { building: 5566, coord:
[-73.867377,40.854047 ] , street: '28th Avenue', zipcode: 10490 } ,
 borough: 'Bronx', cuisine: 'BBQ', grades: [{ date: 2014-03-03T00:00:00.028Z, grade: 'A',
score: 10 },
{ date: 2013-09-11T00:00:00.028Z, grade: 'A', score: 7},
{ date: 2013-01-24T00:00:00.028Z, grade: 'A', score: 11},
{ date: 2011-11-23T00:00:00.028Z, grade: 'A', score: 9},
{ date: 2011-03-10T00:00:00.028Z, grade: 'B', score: 15}],
 name: 'BBQ Haven', restaurant_id: 30075473 }
{ _id: ObjectId('671b5dab56ec9972ca8f5db0'), address: { building: 5566, coord: [ -73.859377,
40.850047
],
street: '8th Avenue',
zipcode: 10470
},
borough: 'Manhattan',
cuisine: 'French',
grades: [
{
date: 2014-03-03T00:00:00.008Z,
grade: 'A',
score: 7
},
{
date: 2013-09-11T00:00:00.008Z,
grade: 'A',
score: 9
},
{
date: 2013-01-24T00:00:00.008Z,
grade: 'A',
score: 10
},{
date: 2011-03-10T00:00:00.008Z,
grade: 'A',
score: 6
}], name: 'Bistro Belle',
restaurant_id: 30075453
}
```

6. Write a MongoDB query to arrange the name of the restaurants in descending along with all the columns.

```
db.restaurants.find().sort({ name: -1 });
```

SAMPLE OUTPUT:-


```
{
_id: ObjectId('671b5e9456ec9972ca8f5dc8'),
address: {
building: 9900,
coord: [
-73.868977,
40.854847
],
street: '32nd Avenue',
zipcode: 10494
},
borough: 'Manhattan',
cuisine: 'Russian',
grades: [
{
date: 2014-03-03T00:00:00.032Z,
grade: 'A',
score: 10
},
{
date: 2013-09-11T00:00:00.032Z,
grade: 'B',
score: 5
},
{
date: 2013-01-24T00:00:00.032Z,
grade: 'A',
score: 9
},
{
date: 2011-11-23T00:00:00.032Z,
grade: 'A',
score: 8
},
{
date: 2011-03-10T00:00:00.032Z,
grade: 'A',
score: 11
}
], name: "Tsar's Table",
```

restaurant_id: 30075477
}
{
_id: ObjectId('671b5e6d56ec9972ca8f5dbe'),
address: {
building: 9900,
coord: [
-73.864977,
40.852847
],
street: '22nd Avenue',
zipcode: 10484
},
borough: 'Bronx',
cuisine: 'Italian',
grades: [
{
date: 2014-03-03T00:00:00.022Z,
grade: 'A',
score: 8
},
{
date: 2013-09-11T00:00:00.022Z,
grade: 'B',
score: 5
},
{
date: 2013-01-24T00:00:00.022Z,
grade: 'A',
score: 12
},
{
date: 2011-11-23T00:00:00.022Z,
grade: 'A',
score: 9
},
{
date: 2011-03-10T00:00:00.022Z,
grade: 'A',
score: 14
}
], name: 'Trattoria Bella',
restaurant_id: 30075467
}

7. Write a MongoDB query to arrange the name of the cuisine in ascending order and for that the same cuisine borough should be in descending order.

```
db.restaurants.find().sort({ cuisine: 1, borough: -1 });
```

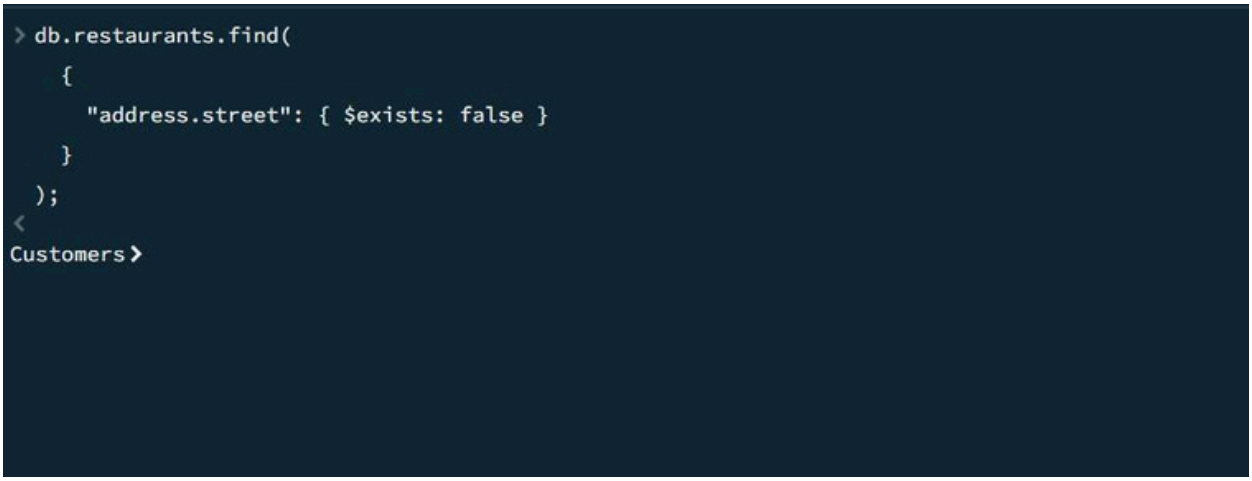
SAMPLE OUTPUT:-


```
{
_id: ObjectId('671b5d549d3d63480e0a64e9'),
address: {
building: 2233,
coord: [
-73.858177,
40.849447
],
street: '5th Avenue',
zipcode: 10467
},
borough: 'Bronx',
cuisine: 'American',
grades: [
{
date: 2014-03-03T00:00:00.005Z,
grade: 'A',
score: 10
},
{
date: 2013-09-11T00:00:00.005Z,
grade: 'A',
score: 6
},
{
date: 2013-01-24T00:00:00.005Z,
grade: 'B',
score: 12
},
{
date: 2011-11-23T00:00:00.005Z,
grade: 'A',
score: 9
},
{
date: 2011-03-10T00:00:00.005Z,
grade: 'A',
score: 14
}
```

], name: 'Burger Bistro',
restaurant_id: 30075450
}
{
_id: ObjectId('671b5e6d56ec9972ca8f5dc4'),
address: {
building: 5566,
coord: [
-73.867377,
40.854047
],
street: '28th Avenue',
zipcode: 10490
},
borough: 'Bronx',
cuisine: 'BBQ',
grades: [
{
date: 2014-03-03T00:00:00.028Z,
grade: 'A',
score: 10
},
{
date: 2013-09-11T00:00:00.028Z,
grade: 'A',
score: 7
},
{
date: 2013-01-24T00:00:00.028Z,
grade: 'A',
score: 11
},
{
date: 2011-11-23T00:00:00.028Z,
grade: 'A',
score: 9
},
{
date: 2011-03-10T00:00:00.028Z,
grade: 'B',
score: 15
}
], name: 'BBQ Haven',
restaurant_id: 30075473
}

8. Write a MongoDB query to know whether all the addresses contain the street or not.

db.restaurants.find({"address.street": { $exists: false }});



9. Write a MongoDB query which will select all documents in the restaurants collection where the coord field value is Double.

db.restaurants.find({ "address.coord": { $type: "double" }});

SAMPLE OUTPUT:- { _id: ObjectId('671b92d339ec8a9bc8b6588b'), address: { building: '1007', coord: [-73.856077, 40.848447], street: 'Morris Park Ave', zipcode: '10462' }, borough: 'Bronx', cuisine: 'Bakery', grades: [{ date: 2014-03-03T00:00:00.000Z, grade: 'A', score: 2 }, {

date: 2013-09-11T00:00:00.000Z, grade: 'A', score: 6 }, { date: 2013-01-24T00:00:00.000Z, grade: 'A', score: 10 }, { date: 2011-11-23T00:00:00.000Z, grade: 'A', score: 9 }, { date: 2011-03-10T00:00:00.000Z, grade: 'B', score: 14 }], name: 'Morris Park Bake Shop', restaurant_id: '30075445' } { _id: ObjectId('671b5d549d3d63480e0a64e5') , address: { building: 1234, coord: [-73.856577, 40.848647], street: '1st Avenue', zipcode: 10463 }, borough: 'Bronx', cuisine: 'Italian', grades: [{ date: 2014-03-03T00:00:00.001Z, grade: 'A', score: 5 }, { date: 2013-09-11T00:00:00.001Z, grade: 'A', score: 8 },

{
date: 2013-01-24T00:00:00.001Z,
grade: 'B',
score: 12
},
{
date: 2011-11-23T00:00:00.001Z,
grade: 'A',
score: 7
},
{
date: 2011-03-10T00:00:00.001Z,
grade: 'A',
score: 15
}
], name: 'Pasta Palace',
restaurant_id: 30075446
}

10. Write a MongoDB query which will select the restaurant Id, name and grades for those restaurants which return 0 as a remainder after dividing the score by 7.

db.restaurants.find({"grades.score": { $mod: [7, 0] }},{restaurant_id: 1,name: 1,grades: 1,

_id: 0});

SAMPLE OUTPUT:-

{
grades: [
{
date: 2014-03-03T00:00:00.000Z,
grade: 'A',
score: 2
},
{
date: 2013-09-11T00:00:00.000Z,
grade: 'A',
score: 6
},
{
date: 2013-01-24T00:00:00.000Z,
grade: 'A',
score: 10
},
{
date: 2011-11-23T00:00:00.000Z,

grade: 'A', score: 9 }, { date: 2011-03-10T00:00:00.000Z, grade: 'B', score: 14 }], name: 'Morris Park Bake Shop', restaurant_id: '30075445' } { grades: [{ date: 2014-03-03T00:00:00.001Z, grade: 'A', score: 5 }, { date: 2013-09-11T00:00:00.001Z, grade: 'A', score: 8 }, { date: 2013-01-24T00:00:00.001Z, grade: 'B', score: 12 }, { date: 2011-11-23T00:00:00.001Z, grade: 'A', score: 7 }, { date: 2011-03-10T00:00:00.001Z, grade: 'A', score: 15 }], name: 'Pasta Palace', restaurant_id: 30075446 }

11. Write a MongoDB query to find the restaurant name, borough, longitude and attitude and cuisine for those restaurants which contain 'mon' as three letters somewhere in its name.

```
db.restaurants.find({name: { $regex: /mon/i }},{name: 1, borough: 1,"address.coord.0": 1,
"address.coord.1": 1, cuisine: 1, _id: 0});
```

12. Write a MongoDB query to find the restaurant name, borough, longitude and latitude and cuisine for those restaurants which contain 'Mad' as the first three letters of its name.

```
db.restaurants.find({name: { $regex: /^Mad/i }},{name: 1,borough: 1,"address.coord.0": 1,
"address.coord.1": 1, cuisine: 1,_id: 0});
```

13. Write a MongoDB query to find the restaurants that have at least one grade with a score of less than 5.

```
db.restaurants.find({"grades.score": { $lt: 5 }});
```

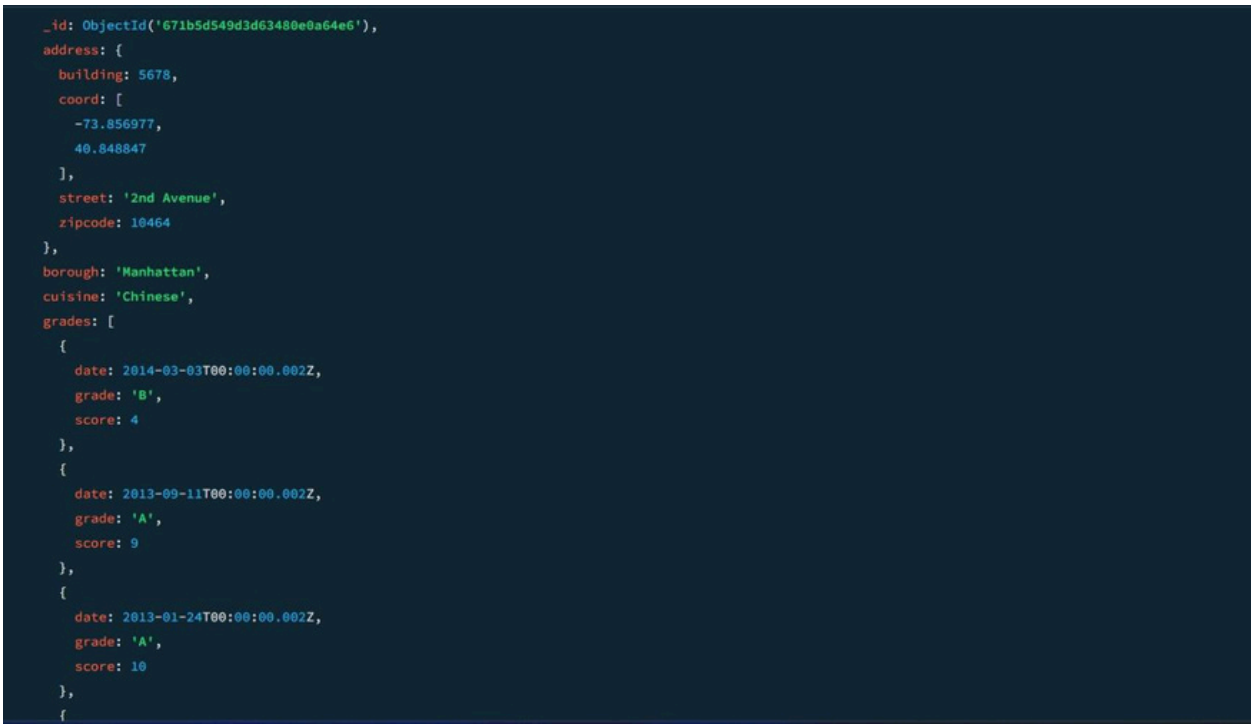
SAMPLE OUTPUT:-

```
{
_id: ObjectId('671b92d339ec8a9bc8b6588b'),
address: {
building: '1007',
coord: [
-73.856077,
40.848447
],
street: 'Morris Park Ave',
zipcode: '10462'
},
borough: 'Bronx',
cuisine: 'Bakery',
grades: [
{
date: 2014-03-03T00:00:00.000Z,
grade: 'A',
score: 2
},
{
date: 2013-09-11T00:00:00.000Z,
grade: 'A',
score: 6
},
{
date: 2013-01-24T00:00:00.000Z,
```

grade: 'A', score: 10 }, { date: 2011-11-23T00:00:00.000Z, grade: 'A', score: 9 }, { date: 2011-03-10T00:00:00.000Z, grade: 'B', score: 14 }], name: 'Morris Park Bake Shop', restaurant_id: '30075445' } { _id: ObjectId('671b5d549d3d63480e0a64e6') , address: { building: 5678, coord: [-73.856977, 40.848847], street: '2nd Avenue', zipcode: 10464 }, borough: 'Manhattan', cuisine: 'Chinese', grades: [{ date: 2014-03-03T00:00:00.002Z, grade: 'B', score: 4 }, { date: 2013-09-11T00:00:00.002Z, grade: 'A', score: 9 }, { date: 2013-01-24T00:00:00.002Z, grade: 'A', score: 10 }, {

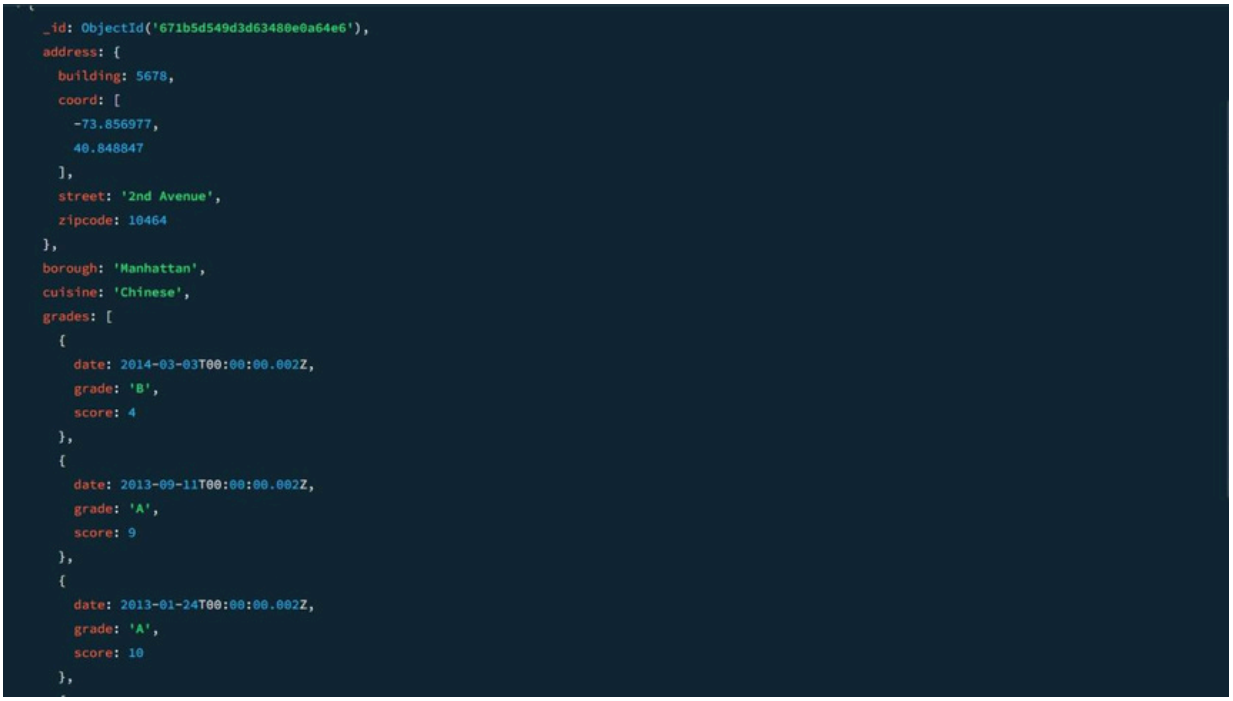
date: 2011-11-23T00:00:00.002Z,
grade: 'A',
score: 8
},
{
date: 2011-03-10T00:00:00.002Z,
grade: 'B',
score: 16
}
], name: 'Dragon Wok',
restaurant_id: 30075447
}

14. Write a MongoDB query to find the restaurants that have at least one grade with a score of less than 5 and that are located in the borough of Manhattan.
db.restaurants.find({"grades.score": { $lt: 5 },borough: "Manhattan"});

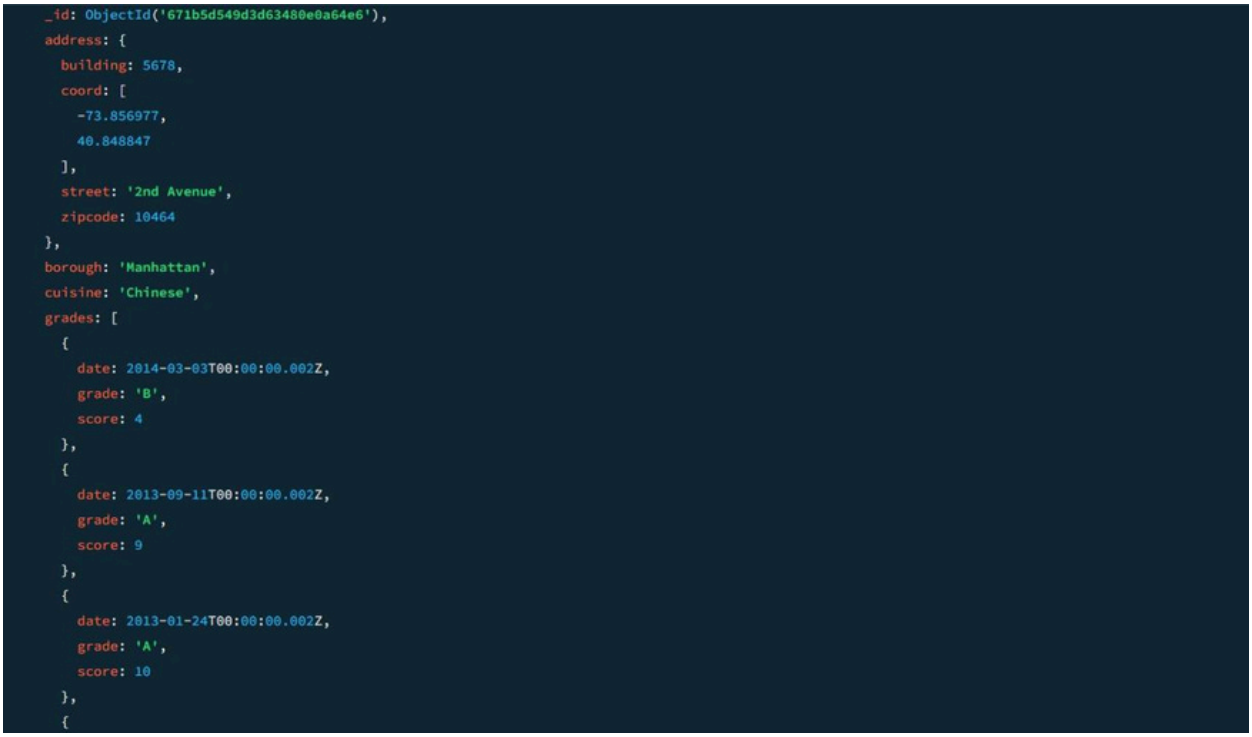


15. Write a MongoDB query to find the restaurants that have at least one grade with a score of less than 5 and that are located in the borough of Manhattan or Brooklyn.

db.restaurants.find({"grades.score": { $lt: 5 },borough: { $in: ["Manhattan", "Brooklyn"] }});



16. Write a MongoDB query to find the restaurants that have at least one grade with a score of less than 5 and that are located in the borough of Manhattan or Brooklyn, and their cuisine is not American.
db.restaurants.find({"grades.score": { $lt: 5 },borough: { $in: ["Manhattan", "Brooklyn"]}, cuisine: { $ne: "American" }});



17. Write a MongoDB query to find the restaurants that have at least one grade with a score of less than 5 and that are located in the borough of Manhattan or Brooklyn, and their cuisine is not American or Chinese.

db.restaurants.find({"grades.score": { $lt: 5 },borough: { $in: ["Manhattan", "Brooklyn"] },cuisine: { $nin: ["American", "Chinese"] }});

18. Write a MongoDB query to find the restaurants that have a grade with a score of 2 and a grade with a score of 6.

```
db.restaurants.find({grades: {$all: [{ $elemMatch: { score: 2 } },{ $elemMatch: { score: 6 } }]}});
```

SAMPLE OUTPUT:-

{ _id: ObjectId('671b92d339ec8a9bc8b6588b'), address: { building: '1007', coord: [-73.856077, 40.848447], street: 'Morris Park Ave', zipcode: '10462' }, borough: 'Bronx', cuisine: 'Bakery', grades: [{ date: 2014-03-03T00:00:00.000Z, grade: 'A', score: 2 }, { date: 2013-09-11T00:00:00.000Z, grade: 'A', score: 6 }, { date: 2013-01-24T00:00:00.000Z, grade: 'A', score: 10 }, { date: 2011-11-23T00:00:00.000Z, grade: 'A', score: 9 }, { date: 2011-03-10T00:00:00.000Z, grade: 'B', score: 14

}], name: 'Morris Park Bake Shop', restaurant_id: '30075445' } { _id: ObjectId('671b5c5f9d3d63480e0a64e4'), address: { building: 1007, coord: [-73.856077, 40.848447], street: 'Morris Park Ave', zipcode: 10462 }, borough: 'Bronx', cuisine: 'Bakery', grades: [{ date: 2014-03-03T00:00:00.000Z, grade: 'A', score: 2 }, { date: 2013-09-11T00:00:00.000Z, grade: 'A', score: 6 }, { date: 2013-01-24T00:00:00.000Z, grade: 'A', score: 10 }, { date: 2011-11-23T00:00:00.000Z, grade: 'A', score: 9 }, { date: 2011-03-10T00:00:00.000Z, grade: 'B', score: 14 }], name: 'Morris Park Bake Shop', restaurant_id: 30075445 }

19. Write a MongoDB query to find the restaurants that have a grade with a score of 2 and a grade with a score of 6 and are located in the borough of Manhattan.

```
db.restaurants.find({borough: "Manhattan",grades: {$all: [{ $elemMatch: { score: 2 } },{ $elemMatch: { score: 6 }}]}});
```

20. Write a MongoDB query to find the restaurants that have a grade with a score of 2 and a grade with a score of 6 and are located in the borough of Manhattan or Brooklyn.

```
db.restaurants.find({borough: { $in: ["Manhattan", "Brooklyn"] },grades: {$all: [
{ $elemMatch: { score: 2 } },{ $elemMatch: { score: 6 }}]}});
```

21. Write a MongoDB query to find the restaurants that have a grade with a score of 2 and a grade with a score of 6 and are located in the borough of Manhattan or Brooklyn, and their cuisine is not American.

```
db.restaurants.find({borough: { $in: ["Manhattan", "Brooklyn"] },grades: {$all: [{ $elemMatch: { score: 2 }},{ $elemMatch: { score: 6 }}]},cuisine: { $ne: "American" }});
```

22. Write a MongoDB query to find the restaurants that have a grade with a score of 2 and a grade with a score of 6 and are located in the borough of Manhattan or Brooklyn, and their cuisine is not American or Chinese.

```
db.restaurants.find({borough: { $in: ["Manhattan", "Brooklyn"] },grades: {$all: [
{ $elemMatch: { score: 2 } },{ $elemMatch: { score: 6 }}]},cuisine: { $nin: ["American", "Chinese"] }});
```

23. Write a MongoDB query to find the restaurants that have a grade with a score of 2 or a grade with a score of 6.

```
db.restaurants.find({$or: [{ "grades.score": 2 },{ "grades.score": 6 }]});
```

SAMPLE OUTPUT:-


```
{
_id: ObjectId('671b5d549d3d63480e0a64e9'),
address: {
building: 2233,
coord: [
-73.858177,
40.849447
],
street: '5th Avenue',
zipcode: 10467
},
borough: 'Bronx',
cuisine: 'American',
grades: [
{
date: 2014-03-03T00:00:00.005Z,
grade: 'A',
score: 10
},
{
date: 2013-09-11T00:00:00.005Z,
grade: 'A',
score: 6
},
{
date: 2013-01-24T00:00:00.005Z,
grade: 'B',
score: 12
},
{
date: 2011-11-23T00:00:00.005Z,
grade: 'A',
score: 9
},
{
date: 2011-03-10T00:00:00.005Z,
grade: 'A',
score: 14
```

}
], name: 'Burger Bistro',
restaurant_id: 30075450
}
{
_id: ObjectId('671b5dab56ec9972ca8f5daf'),
address: {
building: 4455,
coord: [
-73.858977,
40.849847
],
street: '7th Avenue',
zipcode: 10469
},
borough: 'Bronx',
cuisine: 'Thai',
grades: [
{
date: 2014-03-03T00:00:00.007Z,
grade: 'A',
score: 9
},
{
date: 2013-09-11T00:00:00.007Z,
grade: 'B',
score: 6
},
{
date: 2013-01-24T00:00:00.007Z,
grade: 'A',
score: 12
},
{
date: 2011-11-23T00:00:00.007Z,
grade: 'A',
score: 8
},
{
date: 2011-03-10T00:00:00.007Z,
grade: 'B',
score: 14
}
], name: 'Thai Delight',
restaurant_id: 30075452
}

Sample document of 'movies' collection

{
_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/MV5BMTU3NjE5NzYtYTYyNS00MDVmLWIwYjgtMmYwYWIxZDYyNzU2XkEyXkFqcGdeQXVyNzQzNzQxNzI@._V1_SY1000_SX677_AL_.jpg',
title: 'The Great Train Robbery',
full plot: "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 } });
```

SAMPLE OUTPUT:-

{ _id: ObjectId('573a1390f29313caabcd42ec'), plot: 'An astronaut stranded on Mars must survive alone.', genres: ['Sci-Fi', 'Drama'], runtime: 135, cast: ['Matt Damon', 'Jessica Chastain'], poster: 'https://m.media-amazon.com/images/poster4.jpg', title: 'Mars Alone', fullplot: 'An astronaut, left alone on Mars, struggles to survive with limited resources while awaiting rescue.', languages: ['English'], released: 2015-10-02T00:00:00.000Z, directors: ['Ridley Scott'], rated: 'PG-13', awards: { wins: 8, nominations: 6, text: '8 wins & 6 nominations.' }, lastupdated: '2021-08-09 17:22:30.000000000', year: 2015, imdb: {
rating: 8,
votes: 25650,

id: 443 }, countries: ['USA'], type: 'movie', tomatoes: { viewer: { rating: 4.5, numReviews: 2201, meter: 93 }, fresh: 18, critic: { rating: 8.5, numReviews: 25, meter: 96 }, rotten: 1, lastUpdated: 2021-07-19T21:20:55.000Z } }

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

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

SAMPLE OUTPUT:-

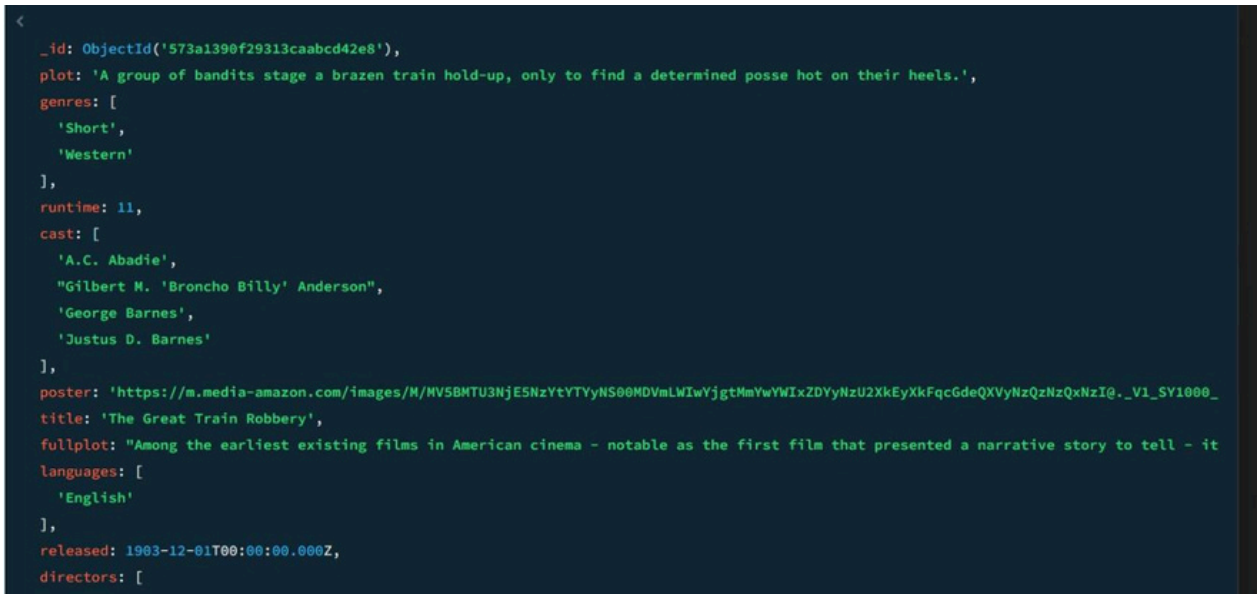

```
{
_id: ObjectId('573a1390f29313caabcd42e8'),
plot: 'A group of bandits stage a brazen train hold-up, only to find a
determined posse hot on their heels.',
genres: [
'Short',
'Western'
],
runtime: 11,
cast: [
'A.C. Abadie',
"Gilbert M. 'Broncho Billy' Anderson",
'George Barnes',
'Justus D. Barnes'
], poster:
'https://m.media-amazon.com/images/M/MV5BMTU3NjE5NzYtYTYyNS
00MDVmLWIwYjgtMmYwYWIxZDYyNzU2XkEyXkFqcGdeQXVyNzQzNz
QxNzI@._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: 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: 2015-08-08T19:16:10.000Z } }

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" });
```

6. 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" });



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

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

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

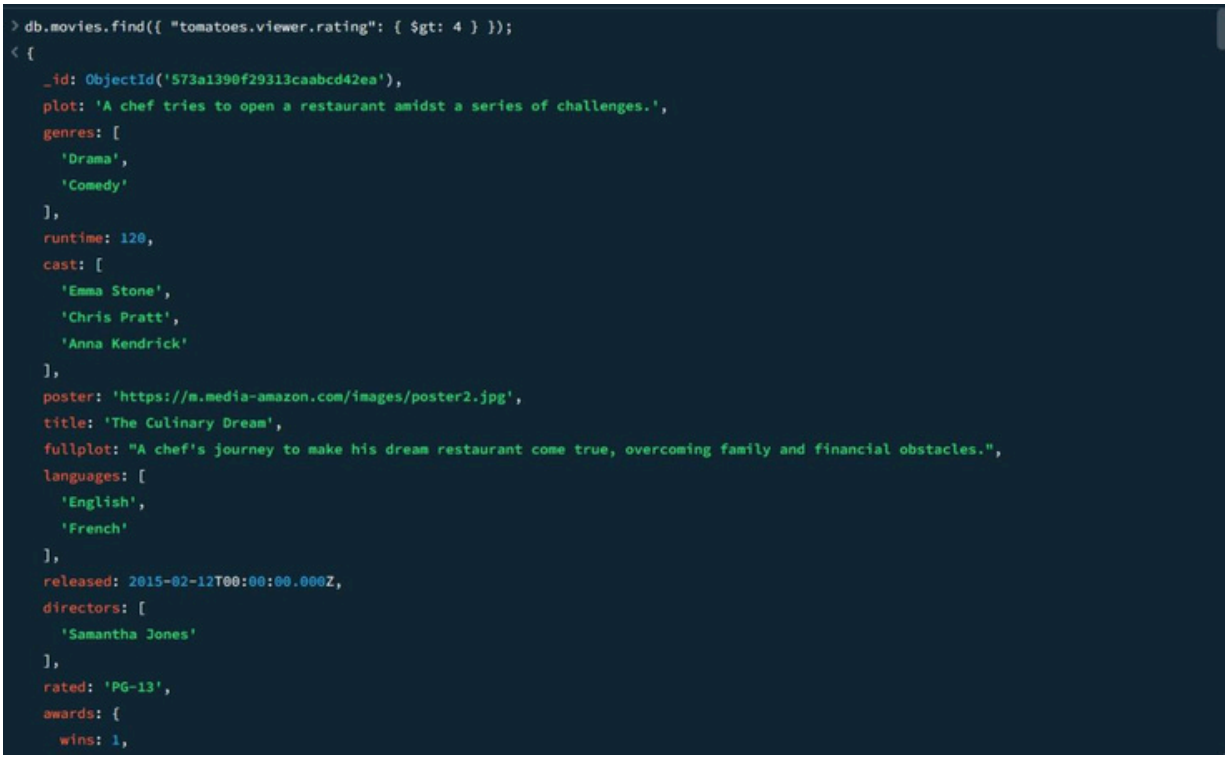
db.movies.find({ "imdb.votes": { $gt: 1000 } });

9. 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 } });

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

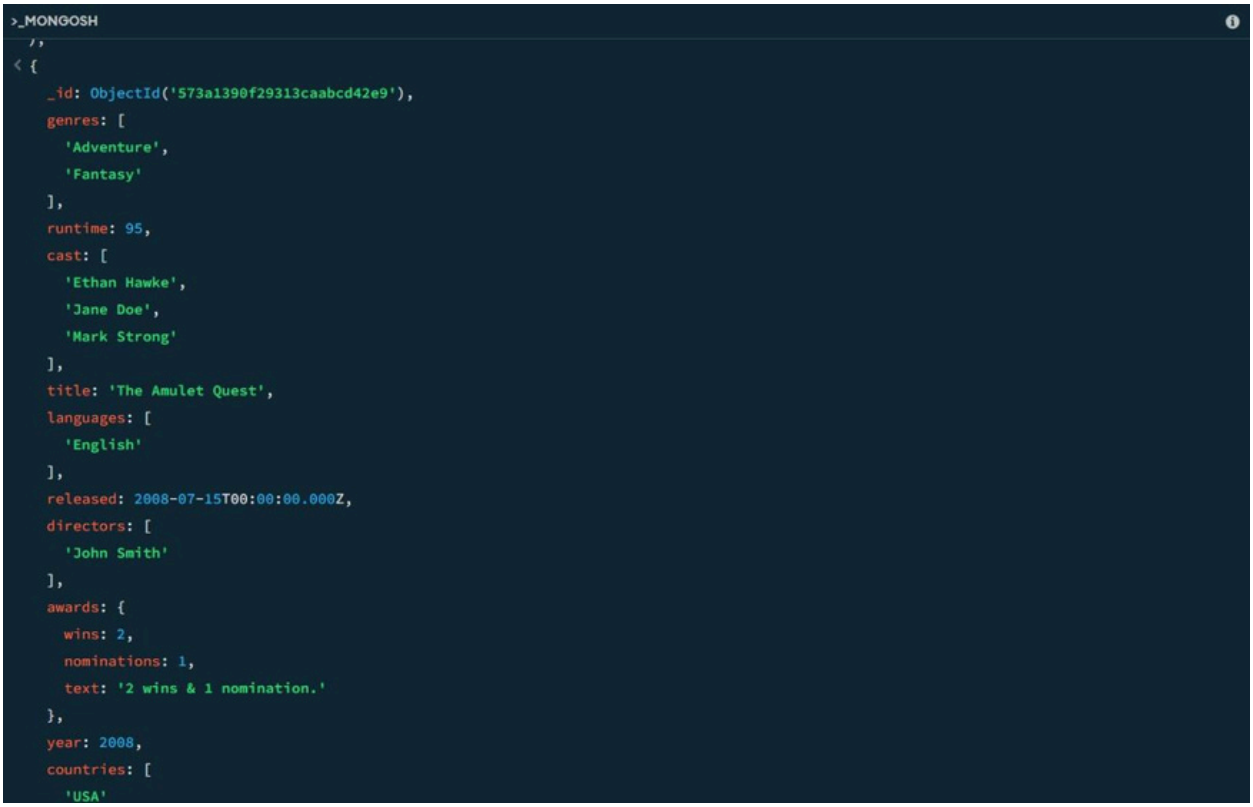
db.movies.find({ "tomatoes.viewer.rating": { $gt: 4 } });



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

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

12. 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: 1,languages: 1,released: 1, directors: 1, writers: 1,awards: 1,year: 1,genres: 1,runtime: 1,cast: 1,countries: 1});



13. 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: 1,languages: 1,released: 1,directors: 1,writers: 1,awards: 1,year: 1,genres: 1,runtime: 1,cast: 1,countries: 1});

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

```
db.movies.find({ released: ISODate("1893-05-09T00:00:00Z") },{title: 1,languages:
1,released: 1,directors: 1,writers: 1,countries: 1});
```

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

```
db.movies.find(
{ title: { $regex: /scene/i } },{title: 1,languages: 1,released: 1,directors: 1,writers: 1,
countries: 1});
```