**EXPERIMENT NO:** 14 DATE: 26-10-24

REGISTER NO: 231501057 NAME: HARISH KUMAR V

## **MONGO DB**

1. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which prepared dish except 'American' and 'Chinees' or restaurant's name begins with letter 'Wil'.

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 of survey dates..

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 9on 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 whichis 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 orderalong 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,

date: 2011-11-23T00:00:00.028Z,

date: 2011-03-10T00:00:00.028Z,

grade: 'A', score: 11

grade: 'A', score: 9

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: 2011-11-23T00:00:00.008Z,
  grade: 'B',
  score: 15
  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 alongwith 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 forthat 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: 'BBO Haven',
restaurant_id: 30075473
```

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

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

**9.** Write a MongoDB query which will select all documents in the restaurants collectionwhere 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

zipcode: '10462'

borough: 'Bronx', cuisine: 'Bakery',

},

grades: [

street: 'Morris Park Ave',

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
 1,
 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 forthose restaurants which returns 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 contains 'mon' as three letters somewhere in its name.

```
db.restaurants.find(
    {
        name: { $regex: /mon/i }
    },
    {
        name: 1,
        borough: 1,
        "address.coord.0": 1, // Longitude
        "address.coord.1": 1, // Latitude
        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 first three letters of its name.

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

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

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

SAMPLE OUTPUT:-
{
    _id: ObjectId('671b92d339ec8a9bc8b6588b'),
    address: {
        building: '1007',
    }
}
```

```
coord: [
  -73.856077,
  40.848447
 1,
 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 ascore 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 ascore 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, andtheir cuisine is not American.

```
db.restaurants.find(
    {
      "grades.score": { $lt: 5 },
      borough: { $in: ["Manhattan", "Brooklyn"] },
      cuisine: { $ne: "American" }
    }
}
```

```
_id: ObjectId('671b5d549d3d63480e0a64e6'),
address: {
    building: 5678,
    coord: [
        -73.856977,
        40.40847
        1,
        street: '2nd Avenue',
        zipcode: 10464
        },
    borough: 'Manhattan',
    cuisine: 'Chinese',
    grade: 'Chinese',
    grade: '81,
        score: 4
        },
        {
        date: 2014-03-03700:00:00.002Z,
        grade: 'A',
        score: 9
        },
        {
        date: 2013-09-11T00:00:00.002Z,
        grade: 'A',
        score: 10
        },
        {
        date: 2013-01-24T00:00:00.002Z,
        grade: 'A',
        score: 10
        },
        {
        core: 10
        }
}
```

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, andtheir 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.

```
{ $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.

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: [
            { $core: 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.

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.

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
  1,
  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
}
```

## **MOVIES COLLECTION**

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' collectionthat 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'
 1.
 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' collectionthat
have "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'
 1.
 runtime: 11,
 cast:
  'A.C. Abadie',
  "Gilbert M. 'Broncho Billy' Anderson",
  'George Barnes',
  'Justus D. Barnes'
 1.
 poster: 'https://m.media-
amazon.com/images/M/MV5BMTU3NjE5NzYtYTYyNS00MDVmLWIwYjg
tMmYwYWIxZDYyNzU2XkEyXkFqcGdeQXVyNzQzNzQxNzI@.\_V1\_SY1\\
000_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. Severalscenes have
color included - all hand tinted.",
 languages: [
  'English'
 1,
 released: 1903-12-01T00:00:00.000Z,
 directors: [ 'Edwin
  S. Porter'
 1,
 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'
 1,
 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 n the USA and include complete information for each movie.

```
db.movies.find({ countries: "USA" });
```

```
| distributed | description |
```

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 } });
```

```
_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/MV5BMTU3NjESNzYtYTTYyNS00MDVmLMIwYjgtMmYwYWIxZDYyNzU2XkEyXkFqcGdaQXVyNzQzNzQxNzI@._V1_SY1000
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 - i
languages: [
    'English'
],
released: 1903-12-01T00:00:00:00.000Z,
directors: [
    'Edwin S. Porter'
],
```

**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 } });
```

```
> db.movies.find(( "imdb.rating": { Sgt: 7 } ));

<{
    _id: ObjectId('573a1396f29313canbcd42e8'),
    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',
        "Gibrat M. 'Broncho Billy' Anderson",
        'George Barnes',
        'Justus D. Barnes'
    ],
    poster: 'https://m.media-amazon.com/images/M/MVSBMTU3NjESNzYtYTYyNS00MDVmLWIwYjgtMmYwYWIxZDYyNzU2XKEyXkFqcGdeQXVyNzQzNzQxNzIe._V1_SY1000
    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 - i
    languages: [
        'English'
    ],
    released: 1903-12-01700:00:00.0002,
    directors: [
        'Edwin S. Porter'
    ],
    rated: 'TV-G',
    awards: {
        vins: 1,
    }
}</pre>
```

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 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
    }
);
```

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

```
db.movies.find(
    { title: { $regex: /scene/i } },
    {
       title: 1,
       languages: 1,
```

```
released: 1,
directors: 1,
writers: 1,
countries: 1
}
);
```