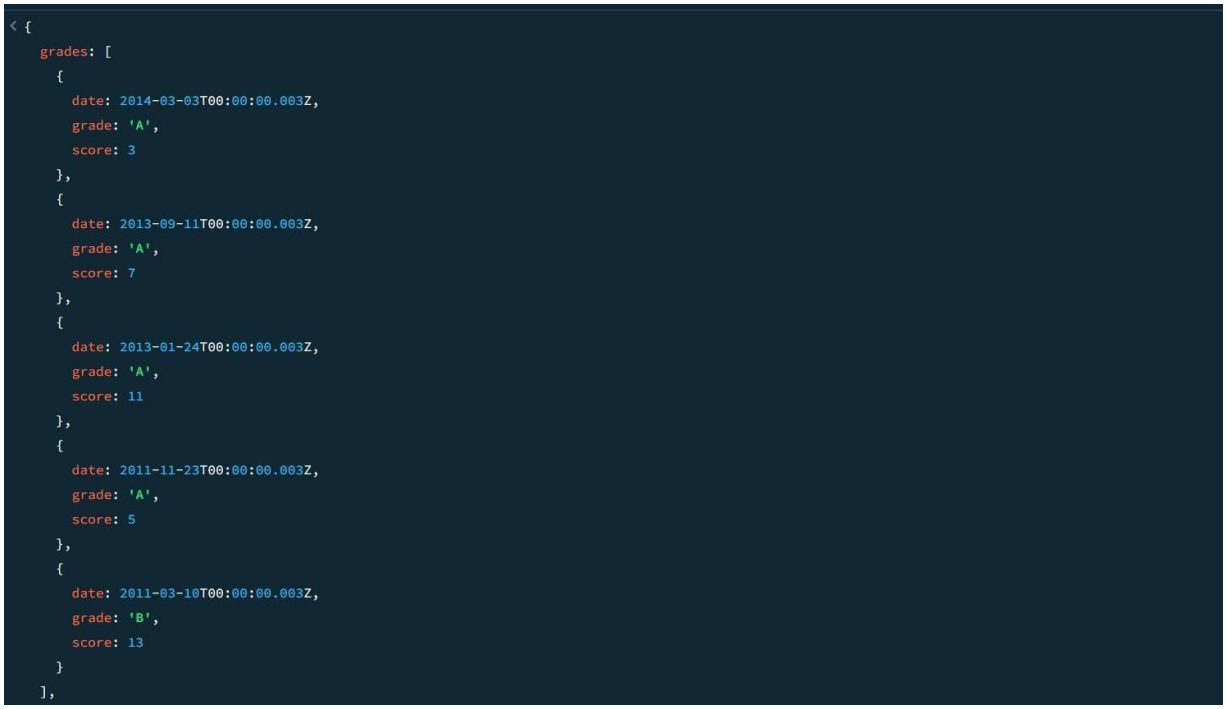
Ex.No.: 14		MONGO DB
Date:	25/09/2024	

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'.

```
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 of 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: 2011-11-23T00:00:00.008Z,
    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 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 same cuisine borough should be in descending order.

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

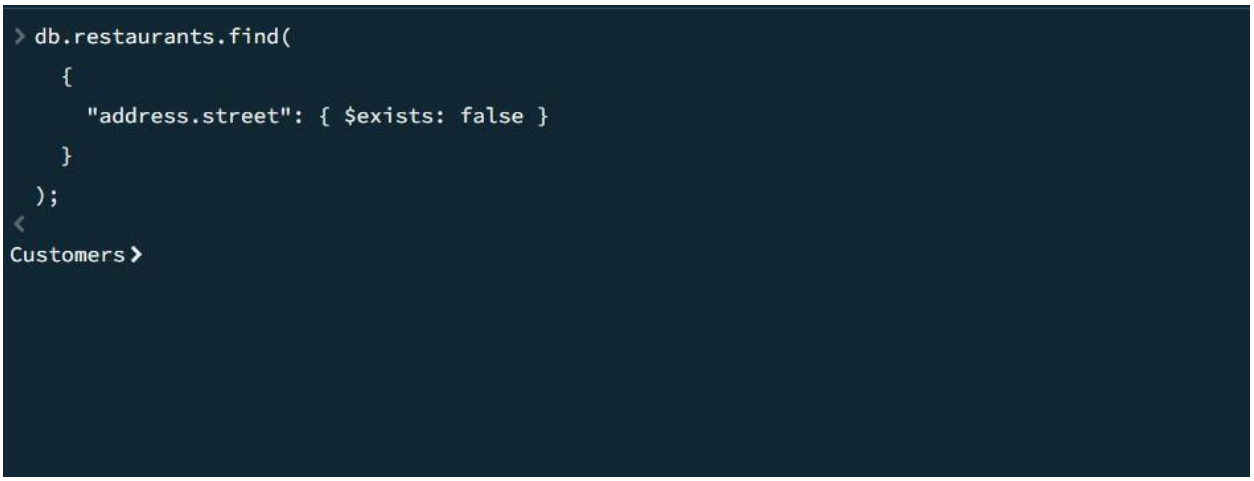
SAMPLE OUTPUT:-

```
{
 _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 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 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 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 a score of less than 5.

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

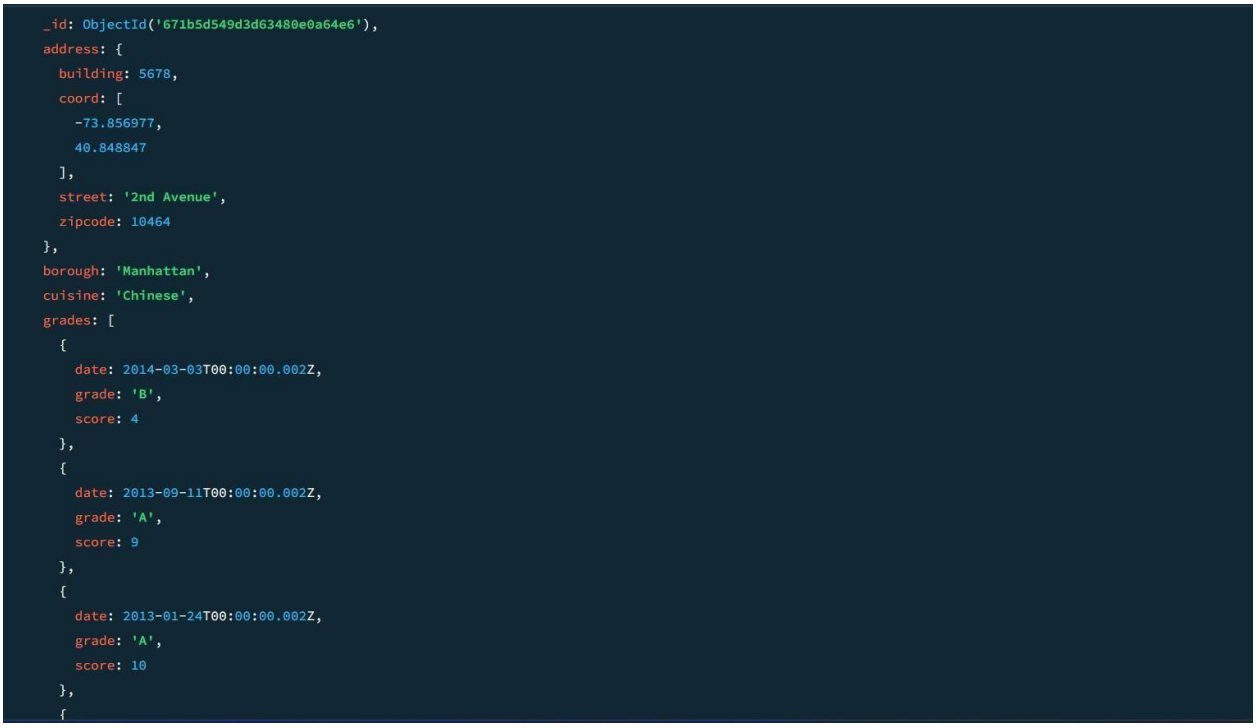
SAMPLE OUTPUT:-

```
{
  _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.

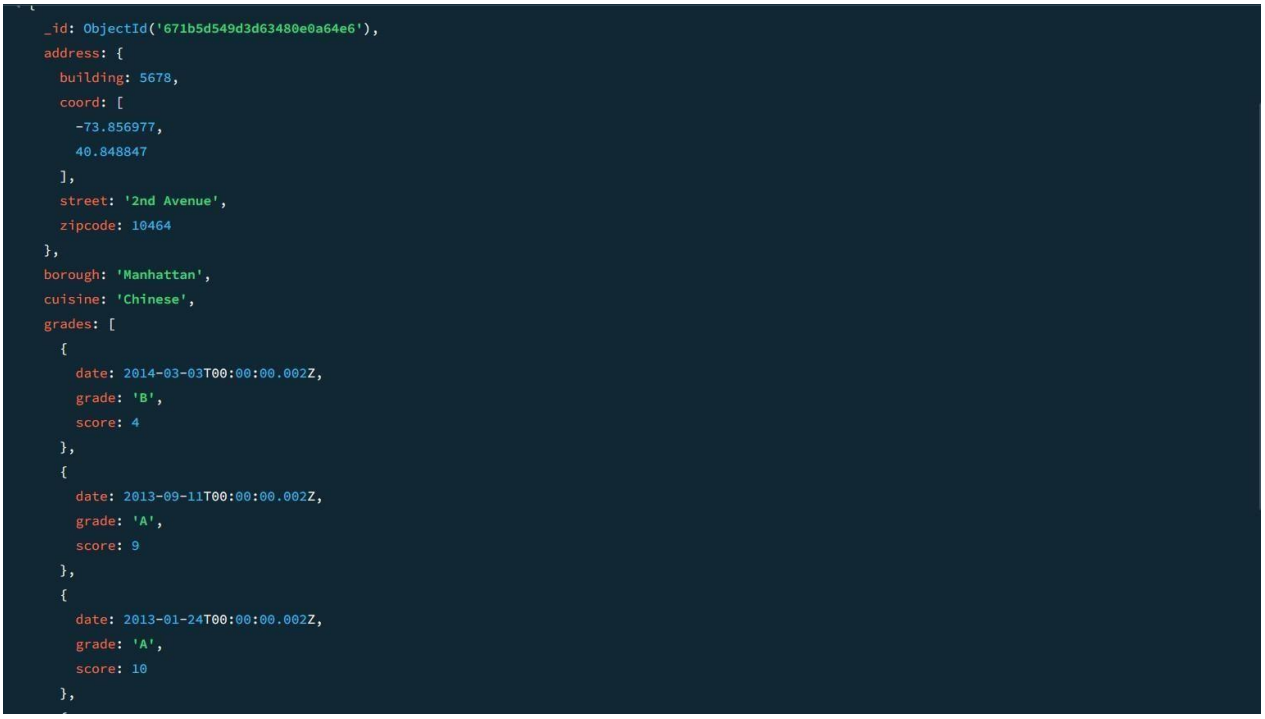
```
db.restaurants.find(
  {
    "grades.score": { $lt: 5 }, borough:
    "Manhattan"
  } );
```



```
_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
  },
  {
```

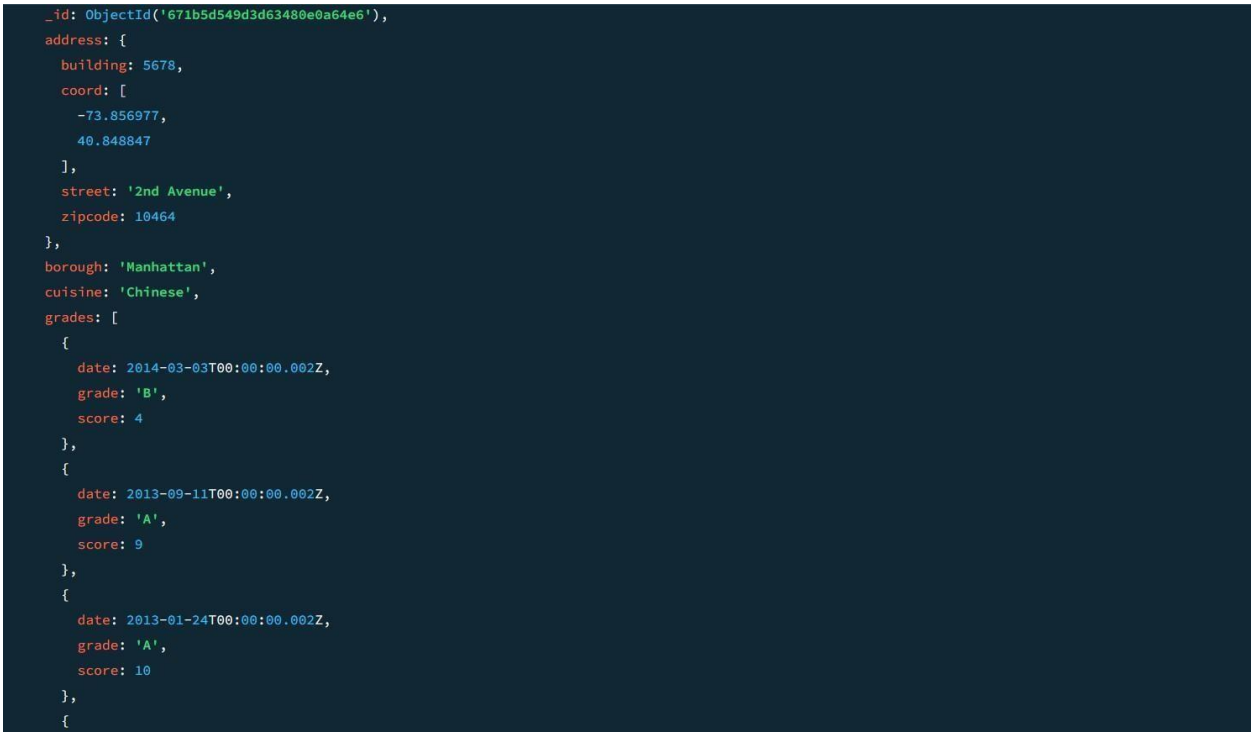
15. Write a MongoDB query to find the restaurants that have at least one grade with a score of less than 5 and that are located in the borough of Manhattan or Brooklyn.

```
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
}
```

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' 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 "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/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. 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" });`

```
_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_
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
languages: [
  'English'
],
released: 1903-12-01T00:00:00.000Z,
directors: [
```

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.

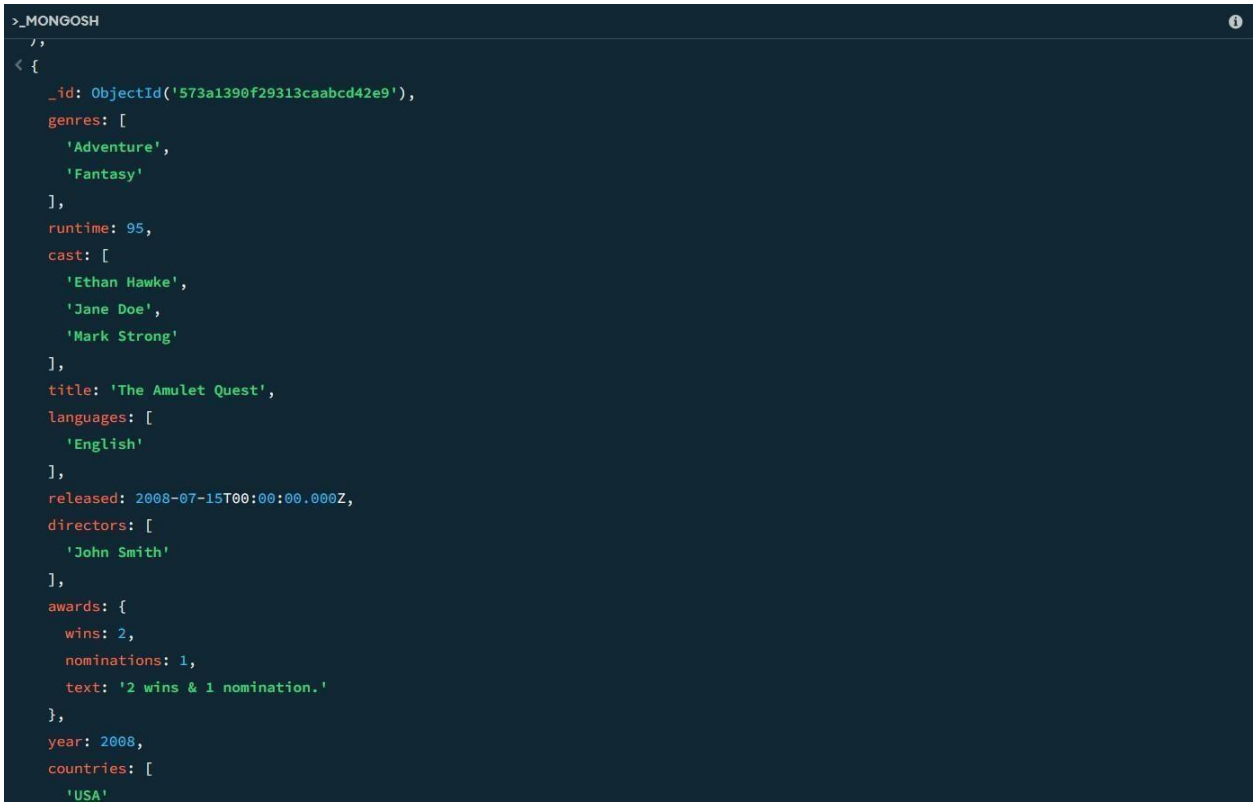
db.movies.find({ "tomatoes.viewer.rating": { $gt: 4 } });

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 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 a word "scene" in the title.

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