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Ex.No.: 14		
Date:	30/10/24	MongoDB

## **Restaurant Collection**

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

```
db.restaurants.find({ $or: [ { cuisine: 'Chinese' }, { cuisine: { $nin: ['American', 'Chinese'] }, name: { $regex: '^Wil', $options: 'i' } } ] }, { _id: 1, name: 1, borough: 1, cuisine: 1 })
```

2. Write a mongoDB query to find the restaurant ld, name, and grades for those restaurants which achieved a grade of "A" and scored 11 on an ISODate "2014-08-11 T00:00:00Z" among many of survey dates.

```
db.restaurants.find({ "grades": { $elemMatch: { "grade": "A", "score": 11, "date": ISODate("2014-08-11T00:00:00Z") } } }, { _id: 1, name: 1, grades: 1 })
```

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": { // Accessing the 2nd element (index 1) of the grades array
       "grade": "A", // Grade must be "A"
       "score": 9.
                                    // Score must be 9
       "date": ISODate("2014-08-11T00:00:00Z") // Date must match the specified
ISODate
    }
  }, {
            // Retrieve the restaurant ID
     id: 1,
     name: 1, // Retrieve the restaurant name
     grades: 1
                  // Retrieve the
    grades
  }
```

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

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 })
```

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

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

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 })
```

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({
   "coord": { $type: "double" } // or you can use $type: 1
})
```

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

```
db.restaurants.find(
{
    "grades": {
```

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 } // Regex to find 'mon' anywhere in the
name (case-insensitive)
  },
     name: 1, // Retrieve the restaurant
     name borough: 1,
                                     // Retrieve
     the borough
     "coord.0": 1, // Retrieve longitude (assuming longitude is the first element in the
coord array)
     "coord.1": 1, // Retrieve latitude (assuming latitude is the second element in the
coord array) cuisine: 1, // Retrieve the cuisine
     id: 0
               // Exclude the restaurant ID from the results
  }
)
```

12. Write a mongodb query to find the restaurant name, borough, longitude and attitude and cuisine for those restaurants which contains 'Mad' as first three letters in its name.

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

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.

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.

1. Find all movies with full information from the 'movies' collection that released in the year 1893.

```
db.movies.find(
    {
        releaseYear: 1893 // Assuming the field for the release year is named 'releaseYear'
    }
)
```

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 } // Assuming the field for runtime is named 'runtime'
     }
)
```

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

```
db.movies.find(
    {
        genres: "Short" // Assuming the field for genres is an array named 'genres'
    }
)
```

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(
     {
          director: "William K. L. Dickson" // Assuming the field for the director is named
'director' }
)
```

5. Retrieve all movies from the 'movies' collection that were released in the USA and include complete information for each movie.

```
db.movies.find({
```

```
country: "USA" // Assuming the field for the release country is named 'country'
```

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

```
db.movies.find(
    {
       rating: "UNRATED" // Assuming the field for the rating is named 'rating'
    }
)
```

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

```
db.movies.find(
    {
       votes: { $gt: 1000 } // Assuming the field for votes is named 'votes'
    }
)
```

8. Retrieve all movies from the 'movies' collection that have complete information and have an IMDb rating higher than 7.

```
db.movies.find(
    {
        imdbRating: { $gt: 7 } // Assuming the field for IMDb rating is named 'imdbRating'
    }
)
```

9. 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: { $gt: 4 } } // Assuming the viewer rating is nested within a 'tomatoes' object
    }
)
```