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Ex.No.: 14		MongoDP
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: { $nin: ['American', 'Chinese'] } // Cuisines other than 'American' and
'Chinese'
       },
          name: { $regex: '^Wil', $options: 'i' } // Restaurant names that begin with 'Wil'
(case-insensitive)
     ]
  },
     _id: 1,
                // Retrieve the restaurant ID
     name: 1,
                // Retrieve the restaurant name
     borough: 1, // Retrieve the borough
     cuisine: 1 // Retrieve the cuisine
  }
)
```

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 "2014-08-11 T00:00:00Z" among many of survey dates.

```
_id: 1, // Retrieve the restaurant ID name: 1, // Retrieve the restaurant name grades: 1 // Retrieve the grades
}
```

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 Id, name and grades for those restaurants which return 0 as a remainder after dividing the score by 7.

```
)
```

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)
  },
  {
                  // Retrieve the restaurant name
     name: 1,
     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.

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.



## **Movies Collection**

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.

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
     }
)
```