Ex.No.: 14		M DD
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".

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)
  },
  {
     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
                // Exclude the restaurant ID from the results
     id: 0
  }
)
```

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.

```
db.restaurants.find(
    {
        "grades": {
            $elemMatch: {
                score: { $lt: 5 } // Score must be 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.

```
db.restaurants.find(
    {
        borough: "Manhattan", // Condition to filter by borough
        "grades": {
            $elemMatch: {
                 score: { $lt: 5 } // Condition to filter grades with score less than 5
            }
        }
    }
}
```

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.

```
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
    }
)
```