

MongoDB Queries for Restaurants and Movies Collections

Restaurants Collection Queries

1. Find restaurants that don't serve 'American' or 'Chinese' or whose names start with

```
'Wil': db.restaurants.find({
```

```
$or: [
```

```
{ cuisine: { $nin: ["American", "Chinese"] } },
```

```
{ name: { $regex: /^Wil/, $options: 'i' } }
```

```
]
```

```
}, { restaurant_id: 1, name: 1, borough: 1, cuisine: 1 });
```

2. Find restaurants with a grade of 'A' and score 11 on '2014-08-11':

```
db.restaurants.find({
```

```
"grades": { $elemMatch: { "grade": "A", "score": 11, "date": ISODate("2014-08-11T00:00:00Z") } }
```

```
}, { restaurant_id: 1, name: 1, grades: 1 });
```

3. Find restaurants where the 2nd element of grades contains a grade 'A' and score 9 on '2014-08-11':

```
db.restaurants.find({
```

```
"grades.1.grade": "A",
```

```
"grades.1.score": 9,
```

```
"grades.1.date": ISODate("2014-08-11T00:00:00Z")
```

```
}, { restaurant_id: 1, name: 1, grades: 1 });
```

4. Find restaurants where the 2nd element of `coord` array contains a value more than 42 and up to 52:

```
db.restaurants.find({
```

```
"address.coord.1": { $gt: 42, $lte: 52 }
```

```
}, { restaurant_id: 1, name: 1, address: 1, "address.coord": 1 });
```

5. Arrange restaurant names in ascending order with all

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

6. Arrange restaurant names in descending order with all

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

7. Arrange cuisine in ascending order and borough in descending

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

8. Check if all addresses contain the street field:

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

9. Select all documents where the `coord` field value is of type

```
Double: db.restaurants.find({ "address.coord": { $type: "double" } });
```

10. Find restaurants where score is divisible by 7:

```
db.restaurants.find(  
  { "grades": { $elemMatch: { "score": { $mod: [7, 0] } } }  
}, { restaurant_id: 1, name: 1, grades: 1 });
```

11. Find restaurants where name contains

```
'mon': db.restaurants.find({ name: {  
$regex: "mon", $options: "i" }  
}, { name: 1, borough: 1, "address.coord": 1, cuisine: 1 });
```

12. Find restaurants where name starts with

```
'Mad': db.restaurants.find({ name: { $regex:  
"^Mad", $options: "i" }  
}, { name: 1, borough: 1, "address.coord": 1, cuisine: 1 });
```

13. Find restaurants with at least one grade with a score less than 5:

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

14. Find restaurants with at least one grade with a score less than 5 and located in

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

15. Find restaurants with at least one grade with a score less than 5 in Manhattan or

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

16. Find restaurants with at least one grade with a score less than 5 in Manhattan or Brooklyn

```
and not American cuisine: db.restaurants.find({  
  "grades": { $elemMatch: { "score": { $lt: 5 } } },  
borough: { $in: ["Manhattan", "Brooklyn"] }, cuisine: {  
  $ne: "American" }  
});
```

17. Find restaurants with at least one grade with a score less than 5 in Manhattan or Brooklyn
and not American or Chinese cuisine:

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

18. Find restaurants with grades having a score of 2 and a score of 6:

```
db.restaurants.find({
  grades: { $all: [{ $elemMatch: { score: 2 } }, { $elemMatch: { score: 6 } } ] }
});
```

19. Find restaurants with grades having a score of 2 and a score of 6 in

```
Manhattan: db.restaurants.find({  grades: { $all: [{ $elemMatch: { score: 2 } },
{
$elemMatch: { score: 6 } } ] },    borough: "Manhattan"
});
```

20. Find restaurants with grades having a score of 2 and a score of 6 in Manhattan or

```
Brooklyn: db.restaurants.find({    grades: { $all: [{ $elemMatch: { score: 2 } }, {
$elemMatch: { score: 6 } } ] },    borough: { $in: ["Manhattan", "Brooklyn"] }
});
```

21. Find restaurants with grades having a score of 2 and a score of 6 in Manhattan or Brooklyn

```
and not American cuisine:                db.restaurants.find({    grades: { $all: [{
$elemMatch: { score: 2 } }, {
$elemMatch: { score: 6 } } ] },    borough: { $in: ["Manhattan", "Brooklyn"] },    cuisine: { $ne:
"American" }
});
```

22. Find restaurants with grades having a score of 2 and a score of 6 in Manhattan or Brooklyn
and not American or Chinese cuisine:

```
db.restaurants.find({    grades: { $all: [{ $elemMatch: { score: 2 } }, {
$elemMatch: { score: 6 } } ] },    borough: { $in: ["Manhattan", "Brooklyn"]
},    cuisine: { $nin: ["American", "Chinese"] }
});
```

23. Find restaurants with a grade of 2 or a grade of

```
6: db.restaurants.find({
  $or: [{ "grades.score": 2 }, { "grades.score": 6 } ]
});
```

Movies Collection Queries

1. Find movies released in 1893:

```
db.movies.find({  
year: 1893  
});
```

2. Find movies with runtime greater than 120 minutes:

```
db.movies.find({  
runtime: { $gt: 120 }  
});
```

3. Find movies with genre 'Short':

```
db.movies.find({  
genres: "Short"  
});
```

4. Find movies directed by 'William K.L. Dickson':

```
db.movies.find({ directors: "William  
K.L. Dickson"  
});
```

5) Find movies released in the USA:

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

6. Find movies released in the USA:

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

7. Find movies rated as 'UNRATED':

```
db.movies.find({
rated:
"UNRATED"
});
```

8. Find movies with more than 1000 votes on IMDb:

```
db.movies.find({
  "imdb.votes": { $gt: 1000 }
});
```

9. Find movies with IMDb rating higher than 7: db.movies.find({

```
  "imdb.rating": { $gt: 7 }
});
```

10. Find movies with viewer rating higher than 4 on Tomatoes:

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

11. Find movies that have received an award:

```
db.movies.find({
  "awards.wins": { $gt: 0 }
});
```

12. Find movies with 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 movies 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. Find movies 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 });
```

15. Find movies with 'scene' in the title: db.movies.find({ title: { \$regex: "scene", \$options: "i"
 }
 }, { title: 1, languages: 1, released: 1, directors: 1, writers: 1, countries: 1 });