EXP NO: 14 MONGO DB

Restaurants Collection Queries

1. Find restaurants with cuisine not 'American' or 'Chinese' OR name starting with 'Wil':\*\*

```javascript 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 grade 'A', score 11, and specific ISODate:\*\*

```javascript db.restaurants.find(

{

grades: {

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

}

}

},

{ restaurant\_id: 1, name: 1, grades: 1 }

);

```

3. \*\*Find restaurants where 2nd grade element is 'A', score 9, and specific ISODate:\*\*

```javascript db.restaurants.find(

{

"grades.1": { grade: "A", score: 9, date: ISODate("2014-08-11T00:00:00Z")

}

},

{ restaurant\_id: 1, name: 1, grades: 1 }

);

```

1. \*\*Find restaurants with 2nd `coord` array element between 42 and 52:\*\*

```javascript db.restaurants.find(

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

{ restaurant\_id: 1, name: 1, address: 1, "address.coord": 1 }

);

```

1. \*\*Arrange restaurants in ascending order by name:\*\*

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

```

1. \*\*Arrange restaurants in descending order by name:\*\*

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

```

1. \*\*Arrange cuisine ascending and borough descending:\*\*

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

```

1. \*\*Check if all addresses contain a street field:\*\* ```javascript db.restaurants.find({ "address.street": { $exists: true } });

```

1. \*\*Select documents where `coord` field contains Double values:\*\*

```javascript db.restaurants.find(

{ "address.coord": { $type: "double" } }

);

```

1. \*\*Find restaurants where score is divisible by 7:\*\*

```javascript db.restaurants.find( {

grades: { $elemMatch: { score: { $mod: [7, 0] } } }

},

{ restaurant\_id: 1, name: 1, grades: 1 }

);

```

1. \*\*Find restaurants with 'mon' in their name:\*\* ```javascript db.restaurants.find(

{ name: { $regex: "mon", $options: "i" } },

{ name: 1, borough: 1, "address.coord": 1, cuisine: 1 }

);

```

1. \*\*Find restaurants where name starts with 'Mad':\*\*

```javascript db.restaurants.find(

{ name: { $regex: "^Mad", $options: "i" } },

{ name: 1, borough: 1, "address.coord": 1, cuisine: 1 }

);

```

13-17. \*\*Find restaurants with grade score < 5 with borough or cuisine filters:\*\*

```javascript

// Example for Manhattan and Brooklyn, not American or Chinese cuisine: db.restaurants.find(

{

grades: { $elemMatch: { score: { $lt: 5 } } }, borough: { $in: ["Manhattan", "Brooklyn"] }, cuisine: { $nin: ["American", "Chinese"] }

}

);

```

18-22. \*\*Find restaurants with specific grade scores and borough or cuisine filters:\*\*

```javascript db.restaurants.find(

{

grades: {

$all: [

{ $elemMatch: { score: 2 } },

{ $elemMatch: { score: 6 } }

]

},

borough: { $in: ["Manhattan", "Brooklyn"] }, cuisine: { $nin: ["American", "Chinese"] }

}

);

```

23. \*\*Find restaurants with grade score 2 OR 6:\*\*

```javascript db.restaurants.find(

{

grades: { $elemMatch: { score: { $in: [2, 6] } } }

}

);

```

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### Movies Collection Queries

1. \*\*Find movies released in 1893:\*\*

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

```

1. \*\*Find movies with runtime > 120 minutes:\*\*

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

```

1. \*\*Find movies with "Short" genre:\*\*

```javascript

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

```

1. \*\*Find movies directed by "William K.L. Dickson":\*\*

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

```

1. \*\*Find movies released in the USA:\*\*

```javascript

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

```

1. \*\*Find movies rated as "UNRATED":\*\*

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

```

1. \*\*Find movies with more than 1000 IMDb votes:\*\*

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

```

1. \*\*Find movies with IMDb rating > 7:\*\*

```javascript

db.movies.find({ "imdb.rating": { $gt: 7 } });

```

1. \*\*Find movies with viewer rating > 4 on Tomatoes:\*\*

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

```

1. \*\*Find movies that received awards:\*\*

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

```

11-13. \*\*Find movies with nominations or specific cast:\*\*

```javascript db.movies.find({ "awards.nominations": { $gt: 0 } }); db.movies.find({ cast: "Charles Kayser" });

```

1. \*\*Find movies released on May 9, 1893:\*\*

```javascript db.movies.find({ released: ISODate("1893-05-09T00:00:00Z") });

```

1. \*\*Find movies with 'scene' in the title:\*\* ```javascript db.movies.find({ title: { $regex: "scene", $options: "i" } });

```