

Mongo dB Commands

Querying with find and findOne

```
movie> db.movie.find()
[
  {
    _id: ObjectId("64a5c043b062020dfb5b7e3e"),
    name: 'fast and furious',
    type: 'action',
    rate: 8.6,
    actors: [
      { name: 'van dezil', age: 40 },
      { name: 'Paul Walker', age: 35 }
    ]
  },
  {
    _id: ObjectId("64a5c11bb062020dfb5b7e3f"),
    name: 'Avatar',
    type: 'action',
    rate: 8.4,
    actors: [
      { name: 'Sam Worthington', age: 32 },
      { name: 'Zoe saladane', age: 28 }
    ]
  },
  {
    _id: ObjectId("64a5c499b062020dfb5b7e40"),
    name: 'Spider Man',
    type: 'action',
    rate: 7.4,
    publisher: 'Marvel comics',
    actors: [
      { name: 'Tom Holland', age: 32 },
      { name: 'Emma stone', age: 23 }
    ]
  },
  {
    _id: ObjectId("64a5c567b062020dfb5b7e41"),
    name: 'Stranger things',
    type: 'Horror',
    rate: 7.4,
    actors: [
      { name: 'Mille Bobby', age: 20 },
      { name: 'David Harbour', age: 41 }
    ]
  }
]
```

```
movie> db.movie.findOne({type: "action"})
{
  _id: ObjectId("64a5c043b062020dfb5b7e3e"),
  name: 'fast and furious',
  type: 'action',
  rate: 8.6,
  actors: [ { name: 'van dezil', age: 40 }, { name: 'Paul Walker', age: 35 } ]
}
```

Query limit, sort and skip

```
movie> db.movie.find().limit(2)
[
  {
    _id: ObjectId("64a5c043b062020dfb5b7e3e"),
    name: 'fast and furious',
    type: 'action',
    rate: 8.6,
    actors: [
      { name: 'van dezil', age: 40 },
      { name: 'Paul Walker', age: 35 }
    ]
  },
  {
    _id: ObjectId("64a5c11bb062020dfb5b7e3f"),
    name: 'Avatar',
    type: 'action',
    rate: 8.4,
    actors: [
      { name: 'Sam Worthington', age: 32 },
      { name: 'Zoe saladane', age: 28 }
    ]
  }
]
```

```
movie> db.movie.find().skip(3)
[
  {
    _id: ObjectId("64a5c567b062020dfb5b7e41"),
    name: 'Stranger things',
    type: 'Horror',
    rate: 7.4,
    actors: [
      { name: 'Mille Bobby', age: 20 },
      { name: 'David Harbour', age: 41 }
    ]
  },
  {
    _id: ObjectId("64a5c9f4b062020dfb5b7e42"),
    name: 'shameless',
    type: 'Comedy',
    rate: 5.4,
    producer: { _id: 'tt12569', firstName: 'john', lastName: 'well' },
    actors: [
      { name: 'Mille Bobby', age: 20 },
      { name: 'David Harbour', age: 41 }
    ]
  },
  {
    _id: ObjectId("64a5cdc07a6a5ba3db83b96f"),
    name: 'shameless',
    type: 'Comedy',
    rate: 5.4,
    producer: { _id: 'tt12569', firstName: 'john', lastName: 'well' },
    actors: [
      { name: 'Mille Bobby', age: 20 },
      { name: 'David Harbour', age: 41 }
    ]
  }
]
```

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
movie> db.movie.find().sort("rate")
[
  {
    _id: ObjectId("64a5c9f4b062020dfb5b7e42"),
    name: 'shameless',
    type: 'Comedy',
    rate: 5.4,
    producer: { _id: 'tt12569', firstName: 'john', lastName: 'well' },
    actors: [
      { name: 'Mille Bobby', age: 20 },
      { name: 'David Harbour', age: 41 }
    ]
  },
  {
    _id: ObjectId("64a5cdc07a6a5ba3db83b96f"),
    name: 'shameless',
    type: 'Comedy',
    rate: 5.4,
    producer: { _id: 'tt12569', firstName: 'john', lastName: 'well' },
    actors: [
      { name: 'Mille Bobby', age: 20 },
      { name: 'David Harbour', age: 41 }
    ]
  },
  {
    _id: ObjectId("64a5c499b062020dfb5b7e40"),
    name: 'Spider Man',
    type: 'action',
    rate: 7.4,
    publisher: 'Marvel comics',
    actors: [
      { name: 'Tom Holland', age: 32 },
      { name: 'Emma stone', age: 23 }
    ]
  },
  {
    _id: ObjectId("64a5c567b062020dfb5b7e41"),
    name: 'Stranger things',
    type: 'Horror',
    rate: 7.4,
    actors: [
      { name: 'Mille Bobby', age: 20 },
      { name: 'David Harbour', age: 41 }
    ]
  }
]
```

Equality query

```
movie> db.movie.find({rate : {$eq: 8.4}})
[
  {
    _id: ObjectId("64a5c11bb062020dfb5b7e3f"),
    name: 'Avatar',
    type: 'action',
    rate: 8.4,
    actors: [
      { name: 'Sam Worthington', age: 32 },
      { name: 'Zoe saladane', age: 28 }
    ]
  }
]
```

Count

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
{
  "_id": ObjectId("64a5c043b062020dfb5b7e3e"),
  "name": "Fast and Furious",
  "type": "action",
  "rate": 8.6,
  "actors": [
    { name: 'van deZill', age: 40 },
    { name: 'Paul Walker', age: 35 }
  ]
},
{
  "_id": ObjectId("64a5c11bb062020dfb5b7e3f"),
  "name": "Avatar",
  "type": "action",
  "rate": 8.4,
  "actors": [
    { name: 'Sam Worthington', age: 32 },
    { name: 'Zoe Saldana', age: 28 }
  ]
},
{
  "_id": ObjectId("64a5c499b062020dfb5b7e40"),
  "name": "Spider-Man",
  "type": "action",
  "rate": 7.4,
  "publisher": "Marvel comics",
  "actors": [
    { name: 'Tom Holland', age: 32 },
    { name: 'Emma Stone', age: 23 }
  ]
},
{
  "_id": ObjectId("64a5c567b062020dfb5b7e41"),
  "name": "Stranger things",
  "type": "Horror",
  "rate": 7.4,
  "actors": [
    { name: 'Mille Bobby', age: 20 },
    { name: 'David Harbour', age: 41 }
  ]
}
]
movie> db.movie.find().count()
4
movie>
```

Embedded documents

```
{ acknowledged: true, deletedCount: 0 }
movie> db.movie.insertOne({name:"shameless" , type: "Comedy", rate: 5.4 ,producer:{_id: "tt12569", firstName: "john", lastName: "well"} , actors: [{name: "Mille Bobby"}]}
movie>
{
  acknowledged: true,
  insertedId: ObjectId("64a5d10d7a6a5ba3db83b971")
}
```

```
movie> db.movie.find({name: "shameless"})
[
  {
    cknowledged: true,
    _id: ObjectId("64a5d10d7a6a5ba3db83b971"),71")
    name: 'shameless',
    type: 'Comedy',
    rate: 5.4,
    producer: { _id: 'tt12569', firstName: 'john', lastName: 'well' },
    actors: [
      { name: 'Mille Bobby', age: 20 },
      { name: 'David Harbour', age: 41 }
    ]
  }
]
```

And, or and not

```
movie> db.movie.find({$and: [{rate: {$lt: 8}}, {type: "action"}]})
[
  {
    _id: ObjectId("64a5c499b062020dfb5b7e40"),
    name: 'Spider Man',
    type: 'action',
    rate: 7.4,
    publisher: 'Marvel comics',
    actors: [
      { name: 'Tom Holland', age: 32 },
      { name: 'Emma stone', age: 23 }
    ]
  }
]
```

```
movie> db.movie.find({$or:[{rate: {$gt: 8}}, {type : "Horror"}]})
[
  {
    _id: ObjectId("64a5c043b062020dfb5b7e3e"),
    name: 'fast and furious',
    type: 'action',
    rate: 8.6,
    actors: [
      { name: 'van dezil', age: 40 },
      { name: 'Paul Walker', age: 35 }
    ]
  },
  {
    _id: ObjectId("64a5c11bb062020dfb5b7e3f"),
    name: 'Avatar',
    type: 'action',
    rate: 8.4,
    actors: [
      { name: 'Sam Worthington', age: 32 },
      { name: 'Zoe saladane', age: 28 }
    ]
  },
  {
    _id: ObjectId("64a5c567b062020dfb5b7e41"),
    name: 'Stranger things',
    type: 'Horror',
    rate: 7.4,
    actors: [
      { name: 'Mille Bobby', age: 20 },
      { name: 'David Harbour', age: 41 }
    ]
  }
]
```

```
movie> db.movie.find({rate: {$not: {$gt: 8}}})
[
  {
    _id: ObjectId("64a5c499b062020dfb5b7e40"),
    name: 'Spider Man',
    type: 'action',
    rate: 7.4,
    publisher: 'Marvel comics',
    actors: [
      { name: 'Tom Holland', age: 32 },
      { name: 'Emma stone', age: 23 }
    ]
  },
  {
    _id: ObjectId("64a5c567b062020dfb5b7e41"),
    name: 'Stranger things',
    type: 'Horror',
    rate: 7.4,
    actors: [
      { name: 'Mille Bobby', age: 20 },
      { name: 'David Harbour', age: 41 }
    ]
  },
  {
    _id: ObjectId("64a5d10d7a6a5ba3db83b971"),
    name: 'shameless',
    type: 'Comedy',
    rate: 5.4,
    producer: { _id: 'tt12569', firstName: 'john', lastName: 'well' },
    actors: [
      { name: 'Mille Bobby', age: 20 },
      { name: 'David Harbour', age: 41 }
    ]
  }
]
movie>
```

All and size

```
movie> db.movie.find({actors: {$all: [{name:"Mille Bobby", age: 20},{name: "David Harbour", age: 41}]}})
[
  {
    _id: ObjectId("64a5c567b062020dfb5b7e41"),
    name: 'Stranger things',
    type: 'Horror',
    rate: 7.4,
    actors: [
      { name: 'Mille Bobby', age: 20 },
      { name: 'David Harbour', age: 41 }
    ]
  },
  {
    _id: ObjectId("64a5d10d7a6a5ba3db83b971"),
    name: 'shameless',
    type: 'Comedy',
    rate: 5.4,
    producer: { _id: 'tt12569', firstName: 'john', lastName: 'well' },
    actors: [
      { name: 'Mille Bobby', age: 20 },
      { name: 'David Harbour', age: 41 }
    ]
  }
]
```

```
movie> db.movie.find({$size: 2})
[
  {
    _id: ObjectId("64a5c043b062020dfb5b7e3e"),
    name: 'fast and furious',
    type: 'action',
    rate: 8.6,
    actors: [
      { name: 'van dezil', age: 40 },
      { name: 'Paul Walker', age: 35 }
    ]
  },
  {
    _id: ObjectId("64a5c11bb062020dfb5b7e3f"),
    name: 'Avatar',
    type: 'action',
    rate: 8.4,
    actors: [
      { name: 'Sam Worthington', age: 32 },
      { name: 'Zoe saladane', age: 28 }
    ]
  },
  {
    _id: ObjectId("64a5c499b062020dfb5b7e40"),
    name: 'Spider Man',
    type: 'action',
    rate: 7.4,
    publisher: 'Marvel comics',
    actors: [
      { name: 'Tom Holland', age: 32 },
      { name: 'Emma stone', age: 23 }
    ]
  },
  {
    _id: ObjectId("64a5c567b062020dfb5b7e41"),
    name: 'Stranger things',
    type: 'Horror',
    rate: 7.4,
    actors: [
      { name: 'Mille Bobby', age: 20 },
      { name: 'David Harbour', age: 41 }
    ]
  }
]
```