

1.

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
sessionDb> db.movies.find().pretty()
[
  {
    _id: ObjectId("63887095a4f30cf354cb2fd8"),
    title: 'Fight Club',
    writer: 'Chuck Palahniuk',
    year: 1999,
    actors: [ 'Brad Pitt', 'Edward Norton' ]
  },
  {
    _id: ObjectId("638870b1a4f30cf354cb2fda"),
    title: 'Pulp Fiction',
    writer: 'Quentin Tarantino',
    year: 1994,
    actors: [ 'John Travolta', 'Uma Thurman' ]
  },
  {
    _id: ObjectId("638870d1a4f30cf354cb2fdc"),
    title: 'Inglorious Basterds',
    writer: 'Quentin Tarantino',
    year: 2009,
    actors: [ 'Brad Pitt', 'Diane Kruger', 'Eli Roth' ]
  },
  {
    _id: ObjectId("638870eca4f30cf354cb2fde"),
    title: 'The Hobbit: An Unexpected Journey',
    writer: 'J.R.R. Tolkien',
    year: 2012,
    franchise: 'The Hobbit'
  },
  {
    _id: ObjectId("63887103a4f30cf354cb2fe0"),
    title: 'The Hobbit: The Desolation of Smaug',
    writer: 'J.R.R. Tolkien',
    year: 2013,
    franchise: 'The Hobbit'
  },
  {
    _id: ObjectId("6388713fa4f30cf354cb2fe2"),
    title: 'The Hobbit: The Battle of the Five Armies',
    writer: 'J.R.R. Tolkien',
    year: 2012,
    franchise: 'The Hobbit',
    synopsis: 'Bilbo and Company are forced to engage in a war against an array of combatants and keep the Lonely Mountain from falling into the hands of a rising darkness.'
  }
]
```

2.

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
sessionDb> db.movies.find({writer:"Quentin Tarantino"}).pretty()
[
  {
    _id: ObjectId("638870b1a4f30cf354cb2fda"),
    title: 'Pulp Fiction',
    writer: 'Quentin Tarantino',
    year: 1994,
    actors: [ 'John Travolta', 'Uma Thurman' ]
  },
  {
    _id: ObjectId("638870d1a4f30cf354cb2fdc"),
    title: 'Inglorious Basterds',
    writer: 'Quentin Tarantino',
    year: 2009,
    actors: [ 'Brad Pitt', 'Diane Kruger', 'Eli Roth' ]
  }
]
sessionDb>
```

3.

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
sessionDb> db.movies.find({actors:{$in:["Brad Pitt"]}}).pretty()
[
  {
    _id: ObjectId("63887095a4f30cf354cb2fd8"),
    title: 'Fight Club',
    writer: 'Chuck Palahniuk',
    year: 1999,
    actors: [ 'Brad Pitt', 'Edward Norton' ]
  },
  {
    _id: ObjectId("638870d1a4f30cf354cb2fdc"),
    title: 'Inglorious Basterds',
    writer: 'Quentin Tarantino',
    year: 2009,
    actors: [ 'Brad Pitt', 'Diane Kruger', 'Eli Roth' ]
  }
]
sessionDb>
```

4.

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
sessionDb> db.movies.find({franchise:"The Hobbit"}).pretty()
[
  {
    _id: ObjectId("638870eca4f30cf354cb2fde"),
    title: 'The Hobbit: An Unexpected Journey',
    writer: 'J.R.R. Tolkien',
    year: 2012,
    franchise: 'The Hobbit'
  },
  {
    _id: ObjectId("63887103a4f30cf354cb2fe0"),
    title: 'The Hobbit: The Desolation of Smaug',
    writer: 'J.R.R. Tolkien',
    year: 2013,
    franchise: 'The Hobbit'
  },
  {
    _id: ObjectId("6388713fa4f30cf354cb2fe2"),
    title: 'The Hobbit: The Battle of the Five Armies',
    writer: 'J.R.R. Tolkien',
    year: 2012,
    franchise: 'The Hobbit',
    synopsis: 'Bilbo and Company are forced to engage in a war against an array of combatants and keep the Lonely Mountain from falling into the hands of a rising darkness.'
  }
]
sessionDb>
```

5.

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
sessionDb> db.movies.find({year:{$lt:2000}})
[
  {
    _id: ObjectId("63887095a4f30cf354cb2fd8"),
    title: 'Fight Club',
    writer: 'Chuck Palahniuk',
    year: 1999,
    actors: [ 'Brad Pitt', 'Edward Norton' ]
  },
  {
    _id: ObjectId("638870b1a4f30cf354cb2fda"),
    title: 'Pulp Fiction',
    writer: 'Quentin Tarantino',
    year: 1994,
    actors: [ 'John Travolta', 'Uma Thurman' ]
  }
]
sessionDb>
```

6.

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
sessionDb> db.movies.find({$or:[{year:{$lt:2000}},{year:{$gt:2010}}]})
[
  {
    _id: ObjectId("63887095a4f30cf354cb2fd8"),
    title: 'Fight Club',
    writer: 'Chuck Palahniuk',
    year: 1999,
    actors: [ 'Brad Pitt', 'Edward Norton' ]
  },
  {
    _id: ObjectId("638870b1a4f30cf354cb2fda"),
    title: 'Pulp Fiction',
    writer: 'Quentin Tarantino',
    year: 1994,
    actors: [ 'John Travolta', 'Uma Thurman' ]
  },
  {
    _id: ObjectId("638870eca4f30cf354cb2fde"),
    title: 'The Hobbit: An Unexpected Journey',
    writer: 'J.R.R. Tolkien',
    year: 2012,
    franchise: 'The Hobbit'
  },
  {
    _id: ObjectId("63887103a4f30cf354cb2fe0"),
    title: 'The Hobbit: The Desolation of Smaug',
    writer: 'J.R.R. Tolkien',
    year: 2013,
    franchise: 'The Hobbit'
  },
  {
    _id: ObjectId("6388713fa4f30cf354cb2fe2"),
    title: 'The Hobbit: The Battle of the Five Armies',
    writer: 'J.R.R. Tolkien',
    year: 2014,
    franchise: 'The Hobbit',
    synopsis: 'Bilbo and Company are forced to engage in a war against an array of combatants and keep the Lonely Mountain from falling into the hands of a rising darkness.'
  }
]
sessionDb>
```

7.

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
sessionDb> db.movies.find().count("writer")
6
sessionDb>
```

8.

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
sessionDb> db.movies.update({title:"Pulp Fiction"},{$set:{actors:"Samuel L. Jackson"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
sessionDb> db.movies.find({title:"Pulp Fiction"})
[
  {
    _id: ObjectId("638870b1a4f30cf354cb2fda"),
    title: 'Pulp Fiction',
    writer: 'Quentin Tarantino',
    year: 1994,
    actors: 'Samuel L. Jackson'
  }
]
sessionDb>
```

9.

10.

```

mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
sessionDb> db.movies.find().sort({year:-1}).pretty()
[
  {
    _id: ObjectId("63887103a4f30cf354cb2fe0"),
    title: 'The Hobbit: The Desolation of Smaug',
    writer: 'J.R.R. Tolkien',
    year: 2013,
    franchise: 'The Hobbit'
  },
  {
    _id: ObjectId("638870eca4f30cf354cb2fde"),
    title: 'The Hobbit: An Unexpected Journey',
    writer: 'J.R.R. Tolkien',
    year: 2012,
    franchise: 'The Hobbit'
  },
  {
    _id: ObjectId("6388713fa4f30cf354cb2fe2"),
    title: 'The Hobbit: The Battle of the Five Armies',
    writer: 'J.R.R. Tolkien',
    year: 2012,
    franchise: 'The Hobbit',
    synopsis: 'Bilbo and Company are forced to engage in a war against an array of combatants and keep the Lonely Mountain from falling into the hands of a rising darkn
  },
  {
    _id: ObjectId("638870d1a4f30cf354cb2fdc"),
    title: 'Inglorious Basterds',
    writer: 'Quentin Tarantino',
    year: 2009,
    actors: [ 'Brad Pitt', 'Diane Kruger', 'Eli Roth' ]
  },
  {
    _id: ObjectId("63887095a4f30cf354cb2fd8"),
    title: 'Fight Club',
    writer: 'Chuck Palahniuk',
    year: 1999,
    actors: [ 'Brad Pitt', 'Edward Norton' ]
  },
  {
    _id: ObjectId("638870b1a4f30cf354cb2fda"),
    title: 'Pulp Fiction',
    writer: 'Quentin Tarantino',
    year: 1994,
    actors: 'Samuel L. Jackson'
  }
]

```

11.

```

mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000

-----
The server generated these startup warnings when booting
2022-11-29T22:24:13.846+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----

Enable MongoDB's free cloud-based monitoring service, which will then receive and display
metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you
and anyone you share the URL with. MongoDB may use this information to make product
improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
-----

test> show dbs
admin          40.00 KiB
config         108.00 KiB
employeeDB     56.00 KiB
local          72.00 KiB
sampleDb       120.00 KiB
sessionDb      72.00 KiB
test> use sessionDb
switched to db sessionDb
sessionDb> show collections
movies
sessionDb> db.movies.find().sort({year:-1}).limit(2)
[
  {
    _id: ObjectId("63887103a4f30cf354cb2fe0"),
    title: 'The Hobbit: The Desolation of Smaug',
    writer: 'J.R.R. Tolkien',
    year: 2013,
    franchise: 'The Hobbit'
  },
  {
    _id: ObjectId("638870eca4f30cf354cb2fde"),
    title: 'The Hobbit: An Unexpected Journey',
    writer: 'J.R.R. Tolkien',
    year: 2012,
    franchise: 'The Hobbit'
  }
]
sessionDb>

```