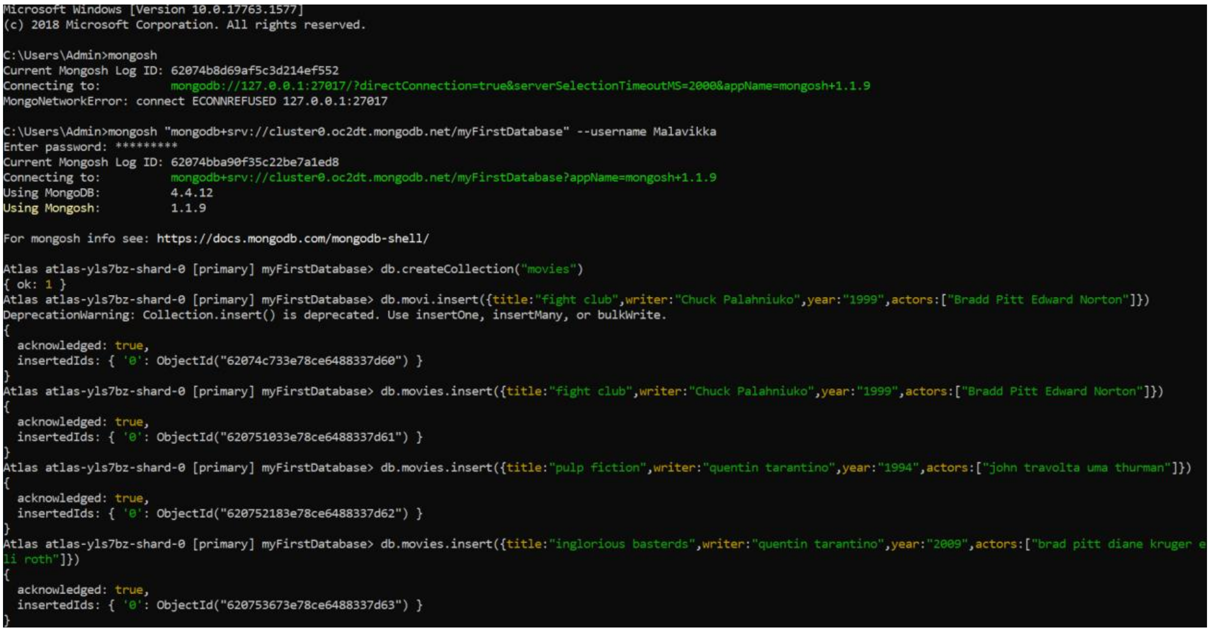
Malavikka Sokkalingam

MongoDB-Assignments1

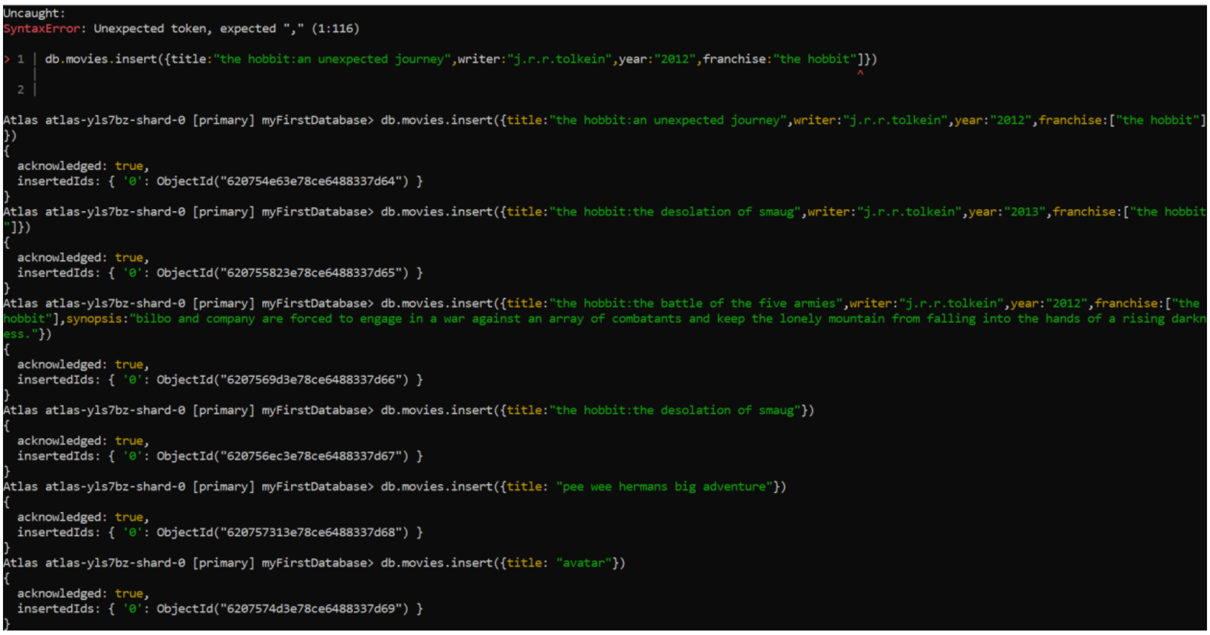
MongoDB Exercise in mongo shell

Insert Documents

Insert the following documents into a movies collection.



```
Microsoft Windows [Version 10.0.17763.1577]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Admin>mongosh
Current Mongosh Log ID: 62074b8d69af5c3d214ef552
Connecting to:          mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.1.9
MongoNetworkError: connect ECONNREFUSED 127.0.0.1:27017

C:\Users\Admin>mongosh "mongodb+srv://cluster0.oc2dt.mongodb.net/myFirstDatabase" --username Malavikka
Enter password: *********
Current Mongosh Log ID: 62074bba90f35c22be7a1ed8
Connecting to:          mongodb+srv://cluster0.oc2dt.mongodb.net/myFirstDatabase?appName=mongosh+1.1.9
Using MongoDB:          4.4.12
Using Mongosh:          1.1.9

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.createCollection("movies")
{ ok: 1 }
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movi.insert({title:"fight club",writer:"Chuck Palahniuko",year:"1999",actors:["Bradd Pitt Edward Norton"]})
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("62074c733e78ce6488337d60") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.insert({title:"fight club",writer:"Chuck Palahniuko",year:"1999",actors:["Bradd Pitt Edward Norton"]})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620751033e78ce6488337d61") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.insert({title:"pulp fiction",writer:"quentin tarantino",year:"1994",actors:["john travolta uma thurman"]})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620752183e78ce6488337d62") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.insert({title:"inglorious basterds",writer:"quentin tarantino",year:"2009",actors:["brad pitt diane kruger e
li roth"]})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620753673e78ce6488337d63") }
}
```



```
Uncaught:
SyntaxError: Unexpected token, expected "," (1:116)

> 1 | db.movies.insert({title:"the hobbit:an unexpected journey",writer:"j.r.r.tolkein",year:"2012",franchise:"the hobbit"]})
    |                                                                                                                     ^
  2 |

Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.insert({title:"the hobbit:an unexpected journey",writer:"j.r.r.tolkein",year:"2012",franchise:["the hobbit"]
})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620754e63e78ce6488337d64") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.insert({title:"the hobbit:the desolation of smaug",writer:"j.r.r.tolkein",year:"2013",franchise:["the hobbit
"]})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620755823e78ce6488337d65") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.insert({title:"the hobbit:the battle of the five armies",writer:"j.r.r.tolkein",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
ess."})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("6207569d3e78ce6488337d66") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.insert({title:"the hobbit:the desolation of smaug"})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620756ec3e78ce6488337d67") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.insert({title: "pee wee hermans big adventure"})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620757313e78ce6488337d68") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.insert({title: "avatar"})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("6207574d3e78ce6488337d69") }
}
```

Query / Find Documents

query the movies collection to

1. get all documents

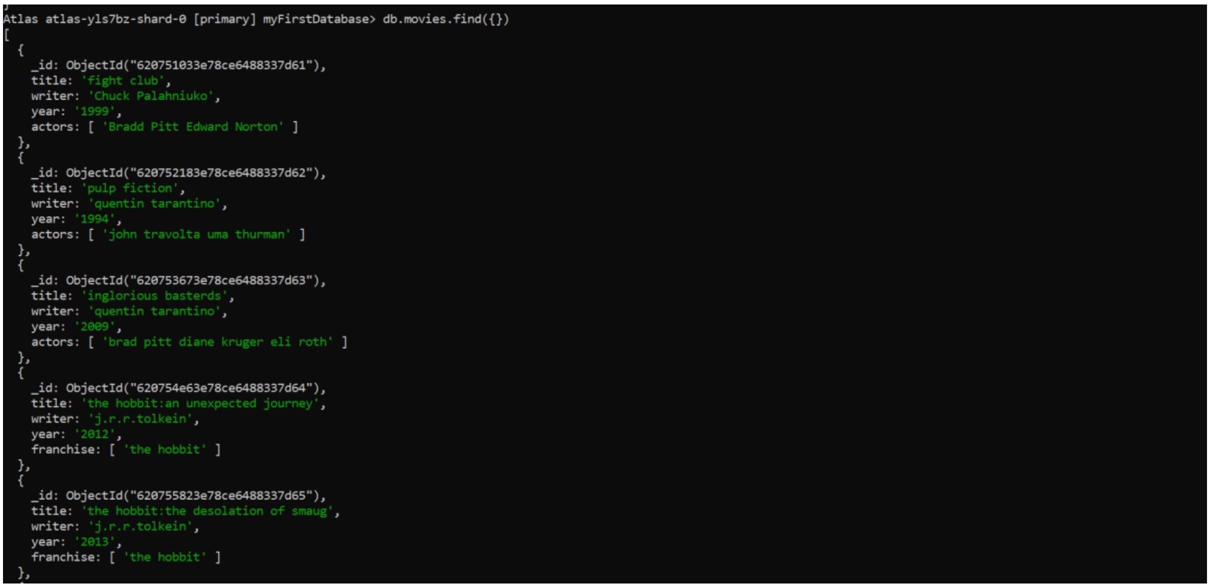
2. get all documents with writer set to "Quentin Tarantino"

3. get all documents where actors include "Brad Pitt"

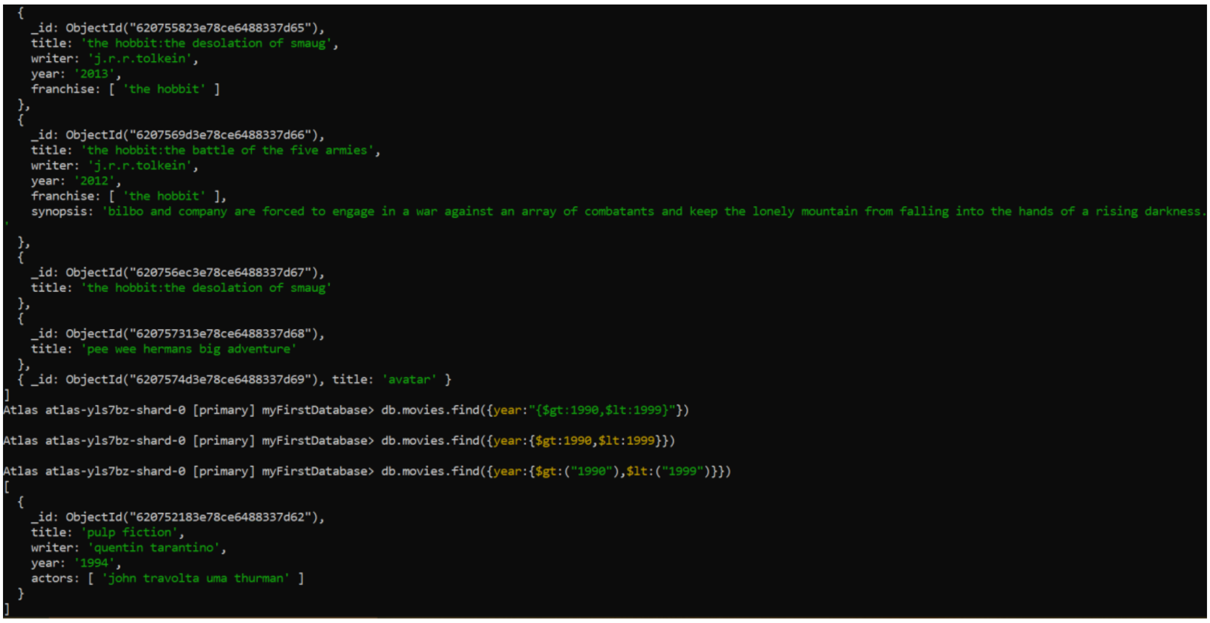
4. get all documents with franchise set to "The Hobbit"

5. get all movies released in the 90s

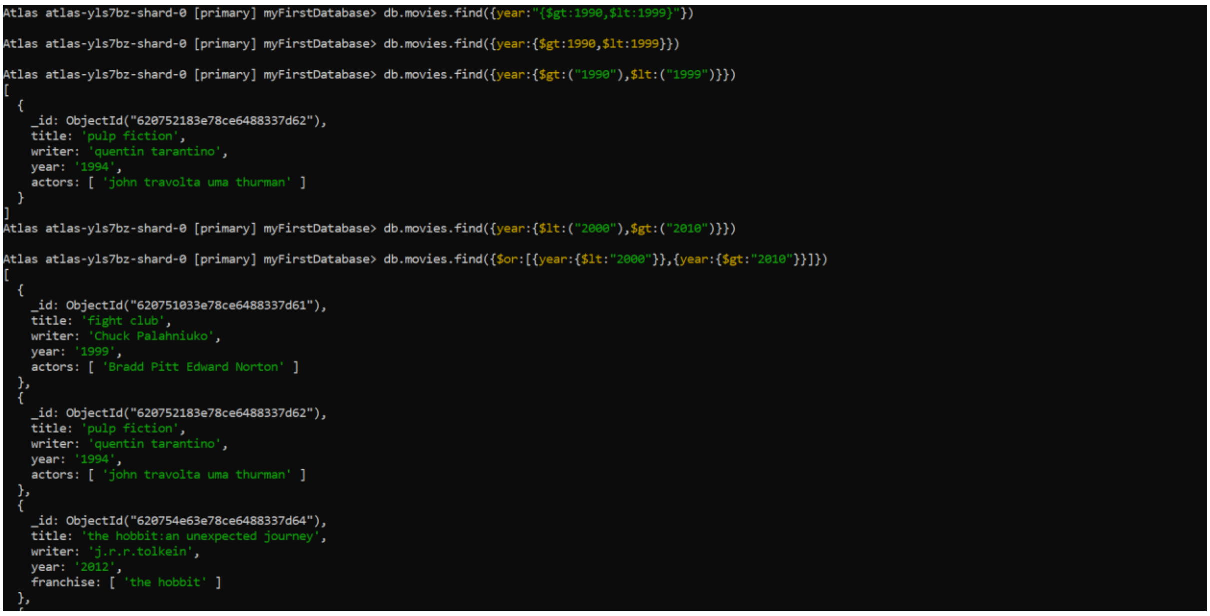
6. get all movies released before the year 2000 or after 2010



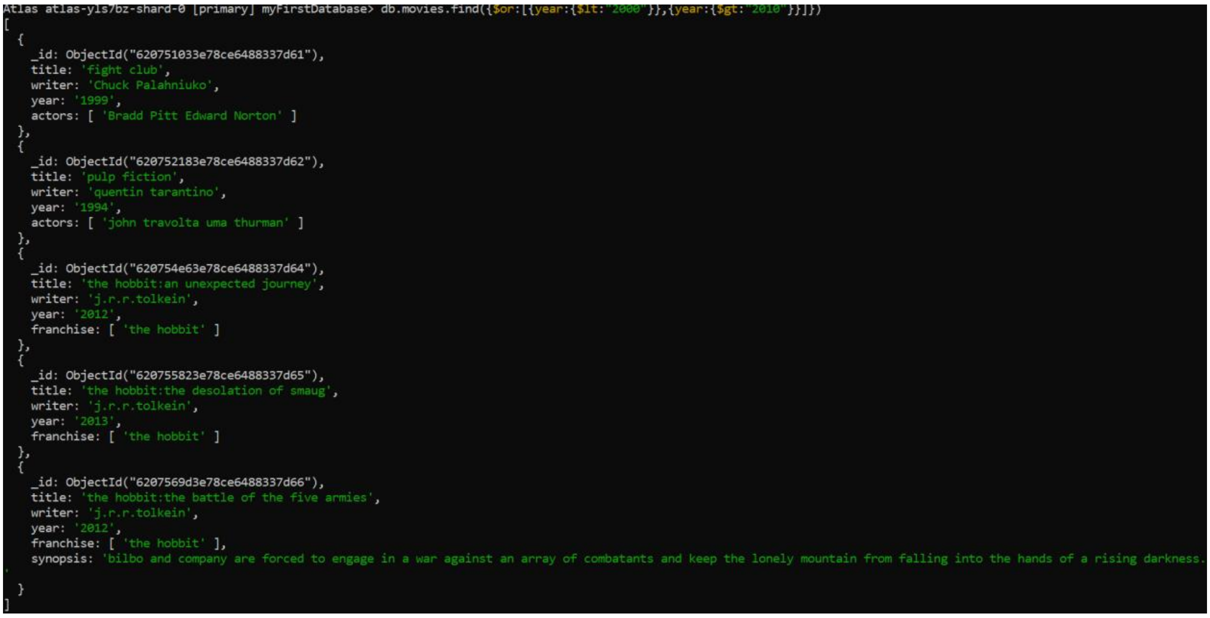
```
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.find({})
[
  {
    _id: ObjectId("620751033e78ce6488337d61"),
    title: 'fight club',
    writer: 'Chuck Palahniuko',
    year: '1999',
    actors: [ 'Bradd Pitt Edward Norton' ]
  },
  {
    _id: ObjectId("620752183e78ce6488337d62"),
    title: 'pulp fiction',
    writer: 'quentin tarantino',
    year: '1994',
    actors: [ 'john travolta uma thurman' ]
  },
  {
    _id: ObjectId("620753673e78ce6488337d63"),
    title: 'inglorious basterds',
    writer: 'quentin tarantino',
    year: '2009',
    actors: [ 'brad pitt diane kruger eli roth' ]
  },
  {
    _id: ObjectId("620754e63e78ce6488337d64"),
    title: 'the hobbit:an unexpected journey',
    writer: 'j.r.r.tolkein',
    year: '2012',
    franchise: [ 'the hobbit' ]
  },
  {
    _id: ObjectId("620755823e78ce6488337d65"),
    title: 'the hobbit:the desolation of smaug',
    writer: 'j.r.r.tolkein',
    year: '2013',
    franchise: [ 'the hobbit' ]
  },
```



```
  {
    _id: ObjectId("620755823e78ce6488337d65"),
    title: 'the hobbit:the desolation of smaug',
    writer: 'j.r.r.tolkein',
    year: '2013',
    franchise: [ 'the hobbit' ]
  },
  {
    _id: ObjectId("6207569d3e78ce6488337d66"),
    title: 'the hobbit:the battle of the five armies',
    writer: 'j.r.r.tolkein',
    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.
'
  },
  {
    _id: ObjectId("620756ec3e78ce6488337d67"),
    title: 'the hobbit:the desolation of smaug'
  },
  {
    _id: ObjectId("620757313e78ce6488337d68"),
    title: 'pee wee hermans big adventure'
  },
  { _id: ObjectId("6207574d3e78ce6488337d69"), title: 'avatar' }
]
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.find({year:"{$gt:1990,$lt:1999}"})

Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.find({year:{$gt:1990,$lt:1999}})

Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.find({year:{$gt:("1990"),$lt:("1999")}})
[
  {
    _id: ObjectId("620752183e78ce6488337d62"),
    title: 'pulp fiction',
    writer: 'quentin tarantino',
    year: '1994',
    actors: [ 'john travolta uma thurman' ]
  }
]
```



```
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.find({year:"{$gt:1990,$lt:1999}"})

Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.find({year:{$gt:1990,$lt:1999}})

Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.find({year:{$gt:("1990"),$lt:("1999")}})
[
  {
    _id: ObjectId("620752183e78ce6488337d62"),
    title: 'pulp fiction',
    writer: 'quentin tarantino',
    year: '1994',
    actors: [ 'john travolta uma thurman' ]
  }
]
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.find({year:{$lt:("2000"),$gt:("2010")}})

Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.find({$or:[{year:{$lt:"2000"}},{year:{$gt:"2010"}}]})
[
  {
    _id: ObjectId("620751033e78ce6488337d61"),
    title: 'fight club',
    writer: 'Chuck Palahniuko',
    year: '1999',
    actors: [ 'Bradd Pitt Edward Norton' ]
  },
  {
    _id: ObjectId("620752183e78ce6488337d62"),
    title: 'pulp fiction',
    writer: 'quentin tarantino',
    year: '1994',
    actors: [ 'john travolta uma thurman' ]
  },
  {
    _id: ObjectId("620754e63e78ce6488337d64"),
    title: 'the hobbit:an unexpected journey',
    writer: 'j.r.r.tolkein',
    year: '2012',
    franchise: [ 'the hobbit' ]
  },
```



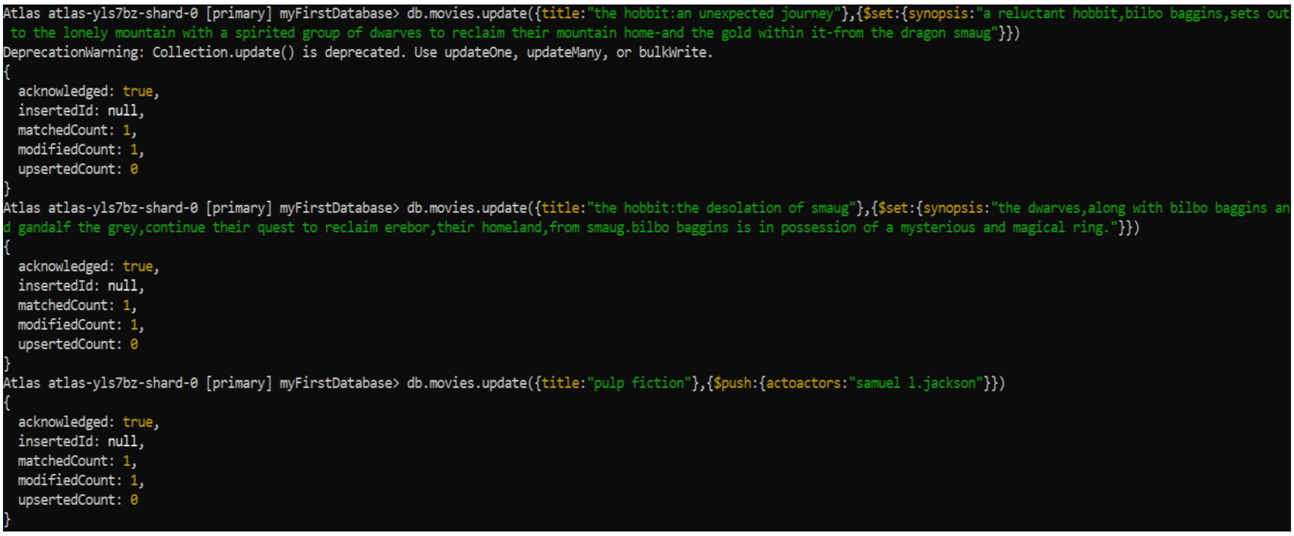
```
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.find({$or:[{year:{$lt:"2000"}},{year:{$gt:"2010"}}]})
[
  {
    _id: ObjectId("620751033e78ce6488337d61"),
    title: 'fight club',
    writer: 'Chuck Palahniuko',
    year: '1999',
    actors: [ 'Bradd Pitt Edward Norton' ]
  },
  {
    _id: ObjectId("620752183e78ce6488337d62"),
    title: 'pulp fiction',
    writer: 'quentin tarantino',
    year: '1994',
    actors: [ 'john travolta uma thurman' ]
  },
  {
    _id: ObjectId("620754e63e78ce6488337d64"),
    title: 'the hobbit:an unexpected journey',
    writer: 'j.r.r.tolkein',
    year: '2012',
    franchise: [ 'the hobbit' ]
  },
  {
    _id: ObjectId("620755823e78ce6488337d65"),
    title: 'the hobbit:the desolation of smaug',
    writer: 'j.r.r.tolkein',
    year: '2013',
    franchise: [ 'the hobbit' ]
  },
  {
    _id: ObjectId("6207569d3e78ce6488337d66"),
    title: 'the hobbit:the battle of the five armies',
    writer: 'j.r.r.tolkein',
    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.
'
  }
]
```

Update Documents

1. add a synopsis to "The Hobbit: An Unexpected Journey" : "A reluctant hobbit, Bilbo Baggins, sets out to the Lonely Mountain with a spirited group of dwarves to reclaim their mountain home - and the gold within it - from the dragon Smaug."

2. add a synopsis to "The Hobbit: The Desolation of Smaug" : "The dwarves, along with Bilbo Baggins and Gandalf the Grey, continue their quest to reclaim Erebor, their homeland, from Smaug. Bilbo Baggins is in possession of a mysterious and magical ring."

3. add an actor named "Samuel L. Jackson" to the movie "Pulp Fiction"



```
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.update({title:"the hobbit:an unexpected journey"},{$set:{synopsis:"a reluctant hobbit,bilbo baggins,sets out
 to the lonely mountain with a spirited group of dwarves to reclaim their mountain home-and the gold within it-from the dragon smaug"}})
DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.update({title:"the hobbit:the desolation of smaug"},{$set:{synopsis:"the dwarves,along with bilbo baggins an
d gandalf the grey,continue their quest to reclaim erebor,their homeland,from smaug.bilbo baggins is in possession of a mysterious and magical ring."}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.update({title:"pulp fiction"},{$push:{actoactors:"samuel l.jackson"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

Text Search

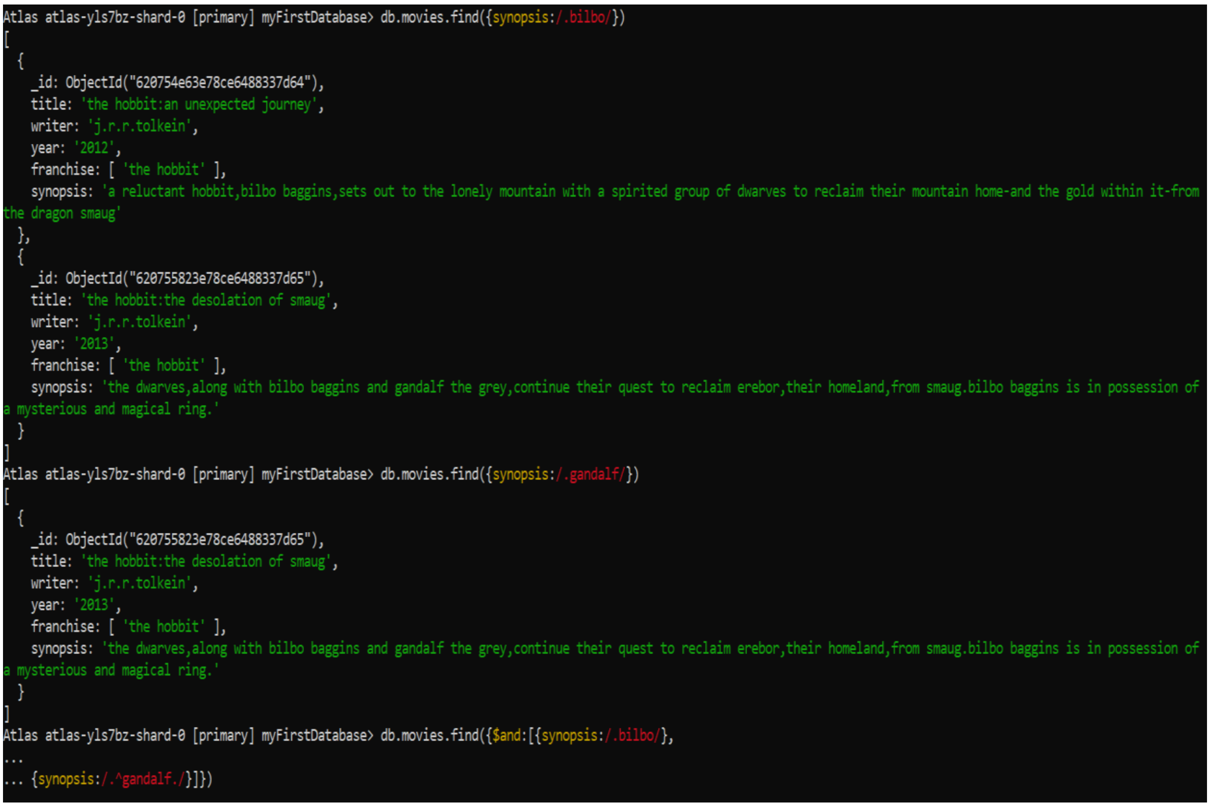
1. find all movies that have a synopsis that contains the word "Bilbo"

2. find all movies that have a synopsis that contains the word "Gandalf"

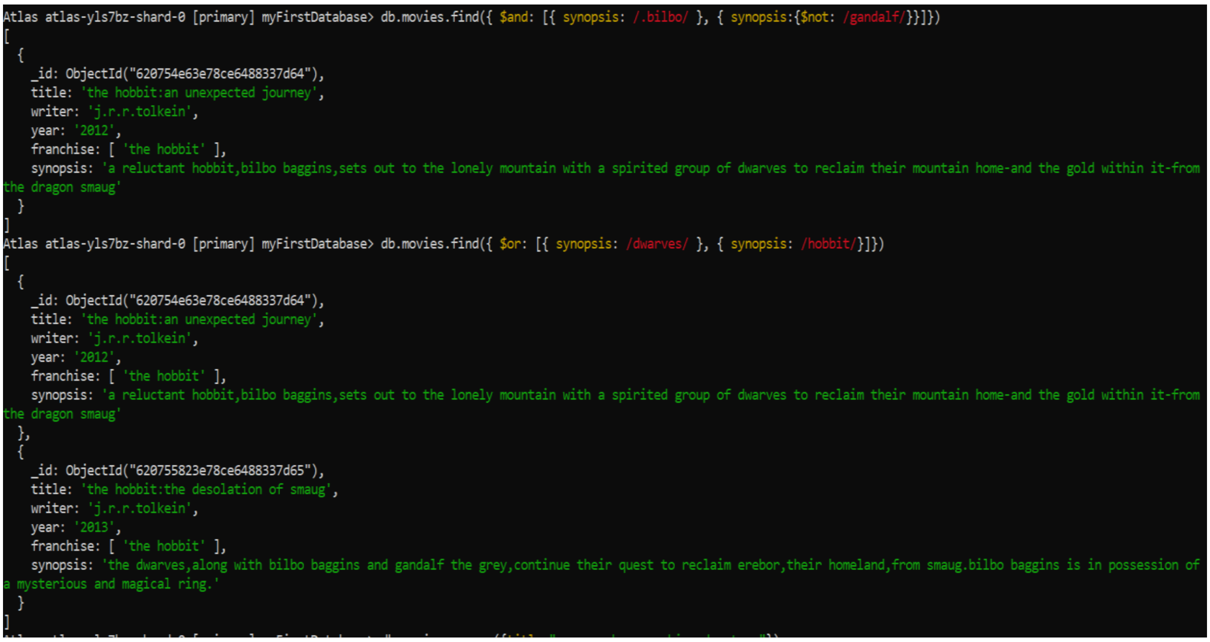
3. find all movies that have a synopsis that contains the word "Bilbo" and not the word "Gandalf"

4. find all movies that have a synopsis that contains the word "dwarves" or "hobbit"

find all movies that have a synopsis that contains the word "gold" and "dragon"



```
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.find({synopsis:/.bilbo/})
[
  {
    _id: ObjectId("620754e63e78ce6488337d64"),
    title: 'the hobbit:an unexpected journey',
    writer: 'j.r.r.tolkein',
    year: '2012',
    franchise: [ 'the hobbit' ],
    synopsis: 'a reluctant hobbit,bilbo baggins,sets out to the lonely mountain with a spirited group of dwarves to reclaim their mountain home-and the gold within it-from
the dragon smaug'
  },
  {
    _id: ObjectId("620755823e78ce6488337d65"),
    title: 'the hobbit:the desolation of smaug',
    writer: 'j.r.r.tolkein',
    year: '2013',
    franchise: [ 'the hobbit' ],
    synopsis: 'the dwarves,along with bilbo baggins and gandalf the grey,continue their quest to reclaim erebor,their homeland,from smaug.bilbo baggins is in possession of
a mysterious and magical ring.'
  }
]
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.find({synopsis:/.gandalf/})
[
  {
    _id: ObjectId("620755823e78ce6488337d65"),
    title: 'the hobbit:the desolation of smaug',
    writer: 'j.r.r.tolkein',
    year: '2013',
    franchise: [ 'the hobbit' ],
    synopsis: 'the dwarves,along with bilbo baggins and gandalf the grey,continue their quest to reclaim erebor,their homeland,from smaug.bilbo baggins is in possession of
a mysterious and magical ring.'
  }
]
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.find({$and:[{synopsis:/.bilbo/},
...
... {synopsis:/.^gandalf./}]})
```

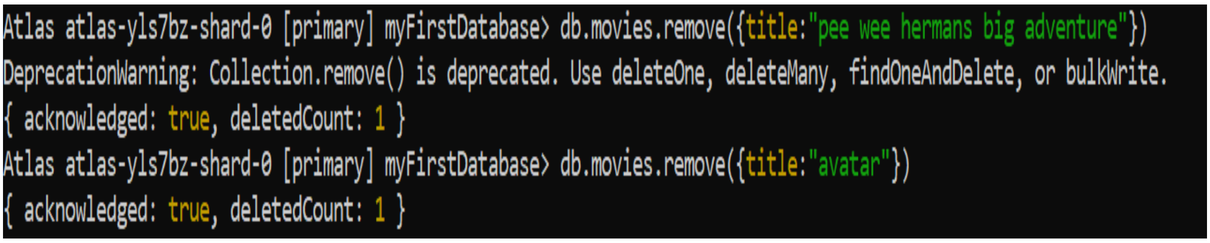


```
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.find({ $and: [{ synopsis: /.bilbo/ }, { synopsis:{$not: /gandalf/}}]})
[
  {
    _id: ObjectId("620754e63e78ce6488337d64"),
    title: 'the hobbit:an unexpected journey',
    writer: 'j.r.r.tolkein',
    year: '2012',
    franchise: [ 'the hobbit' ],
    synopsis: 'a reluctant hobbit,bilbo baggins,sets out to the lonely mountain with a spirited group of dwarves to reclaim their mountain home-and the gold within it-from
the dragon smaug'
  }
]
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.find({ $or: [{ synopsis: /dwarves/ }, { synopsis: /hobbit/}]})
[
  {
    _id: ObjectId("620754e63e78ce6488337d64"),
    title: 'the hobbit:an unexpected journey',
    writer: 'j.r.r.tolkein',
    year: '2012',
    franchise: [ 'the hobbit' ],
    synopsis: 'a reluctant hobbit,bilbo baggins,sets out to the lonely mountain with a spirited group of dwarves to reclaim their mountain home-and the gold within it-from
the dragon smaug'
  },
  {
    _id: ObjectId("620755823e78ce6488337d65"),
    title: 'the hobbit:the desolation of smaug',
    writer: 'j.r.r.tolkein',
    year: '2013',
    franchise: [ 'the hobbit' ],
    synopsis: 'the dwarves,along with bilbo baggins and gandalf the grey,continue their quest to reclaim erebor,their homeland,from smaug.bilbo baggins is in possession of
a mysterious and magical ring.'
  }
]
```

Delete Documents

1. delete the movie "Pee Wee Herman's Big Adventure"

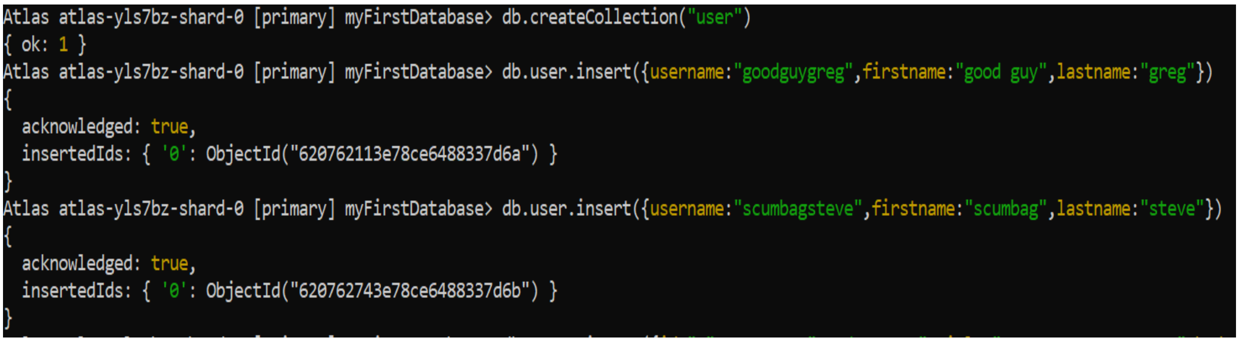
2. delete the movie "Avatar"



```
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.remove({title:"pee wee hermans big adventure"})
DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite.
{ acknowledged: true, deletedCount: 1 }
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.movies.remove({title:"avatar"})
{ acknowledged: true, deletedCount: 1 }
```

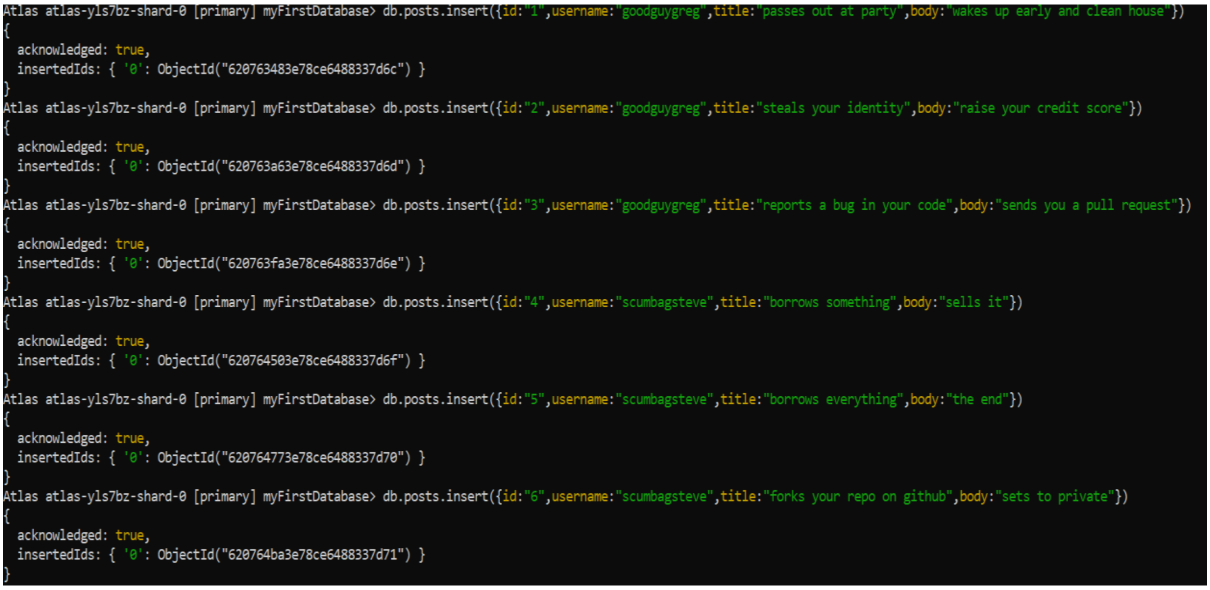
Relationships

Insert the following documents into a users collection



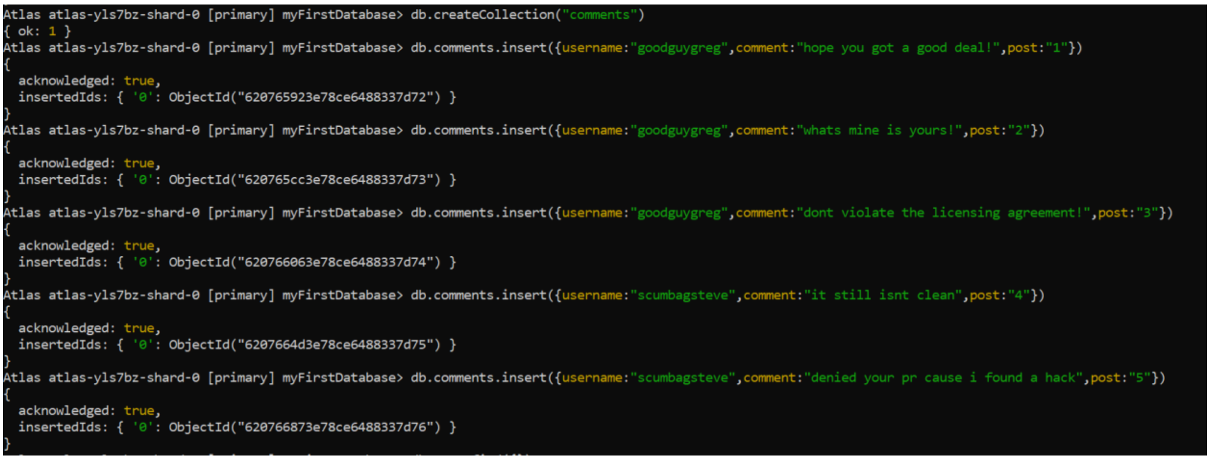
```
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.createCollection("user")
{ ok: 1 }
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.user.insert({username:"goodguygreg",firstname:"good guy",lastname:"greg"})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620762113e78ce6488337d6a") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.user.insert({username:"scumbagsteve",firstname:"scumbag",lastname:"steve"})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620762743e78ce6488337d6b") }
}
```

Insert the following documents into a posts collection



```
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.posts.insert({id:"1",username:"goodguygreg",title:"passes out at party",body:"wakes up early and clean house"})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620763483e78ce6488337d6c") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.posts.insert({id:"2",username:"goodguygreg",title:"steals your identity",body:"raise your credit score"})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620763a63e78ce6488337d6d") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.posts.insert({id:"3",username:"goodguygreg",title:"reports a bug in your code",body:"sends you a pull request"})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620763fa3e78ce6488337d6e") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.posts.insert({id:"4",username:"scumbagsteve",title:"borrows something",body:"sells it"})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620764503e78ce6488337d6f") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.posts.insert({id:"5",username:"scumbagsteve",title:"borrows everything",body:"the end"})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620764773e78ce6488337d70") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.posts.insert({id:"6",username:"scumbagsteve",title:"forks your repo on github",body:"sets to private"})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620764ba3e78ce6488337d71") }
}
```

Insert the following documents into a comments collection



```
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.createCollection("comments")
{ ok: 1 }
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.comments.insert({username:"goodguygreg",comment:"hope you got a good deal!",post:"1"})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620765923e78ce6488337d72") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.comments.insert({username:"goodguygreg",comment:"whats mine is yours!",post:"2"})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620765cc3e78ce6488337d73") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.comments.insert({username:"goodguygreg",comment:"dont violate the licensing agreement!",post:"3"})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620766063e78ce6488337d74") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.comments.insert({username:"scumbagsteve",comment:"it still isnt clean",post:"4"})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("6207664d3e78ce6488337d75") }
}
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.comments.insert({username:"scumbagsteve",comment:"denied your pr cause i found a hack",post:"5"})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("620766873e78ce6488337d76") }
}
```

Querying related collections

1. find all users

2. find all posts

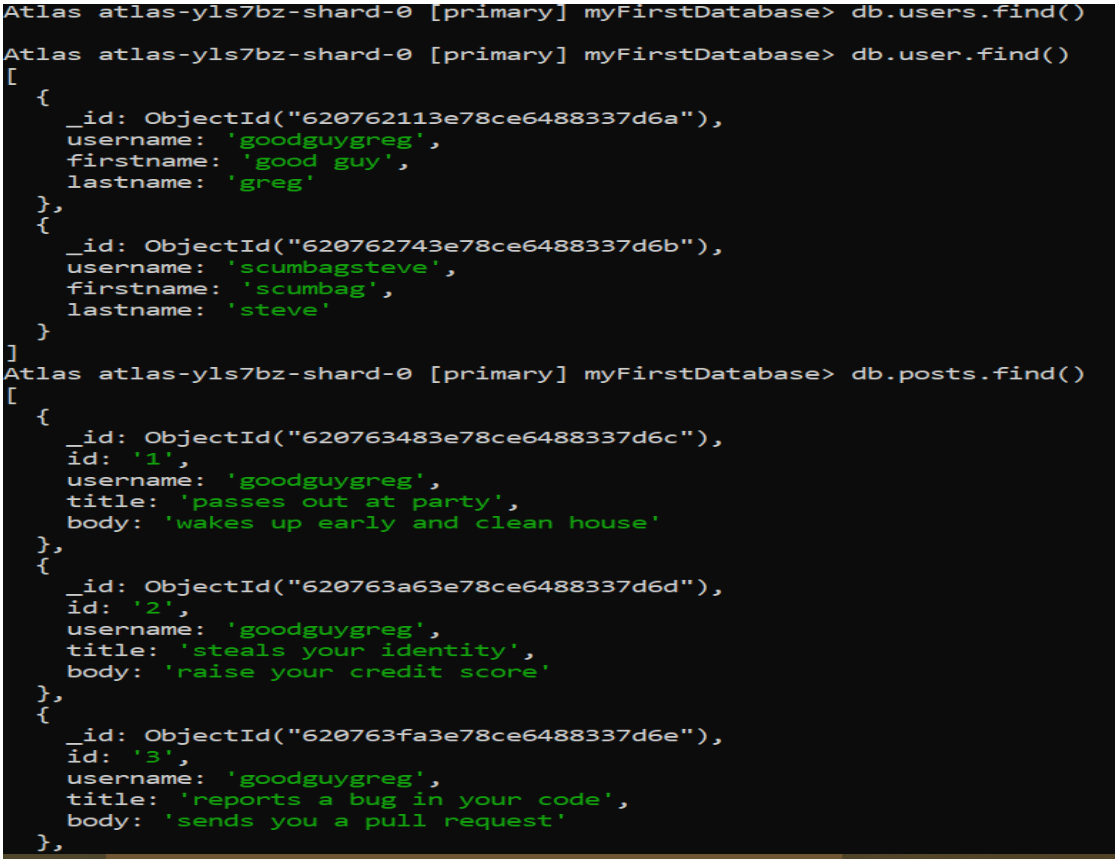
3. find all posts that was authored by "GoodGuyGreg"

4. find all posts that was authored by "ScumbagSteve"

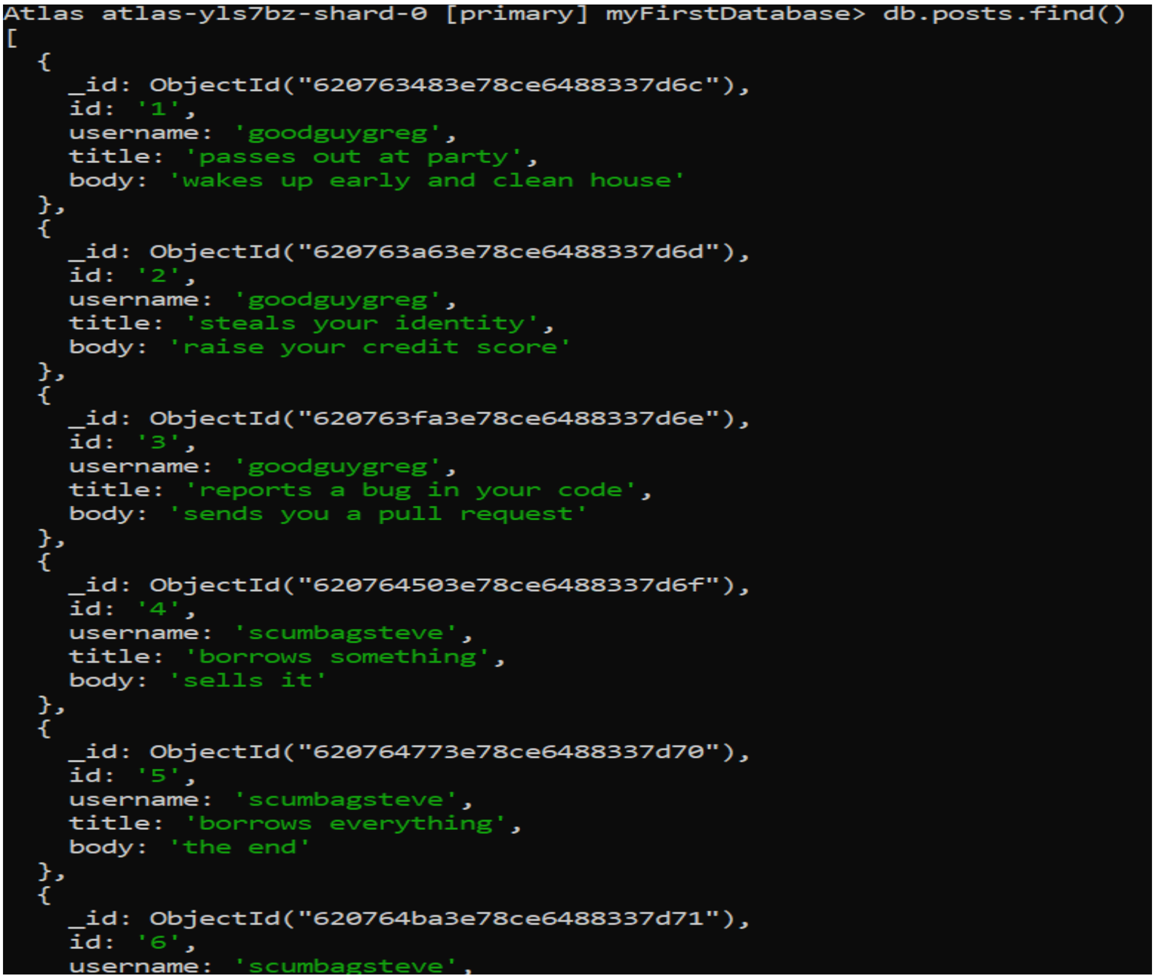
5. find all comments

6. find all comments that was authored by "GoodGuyGreg"

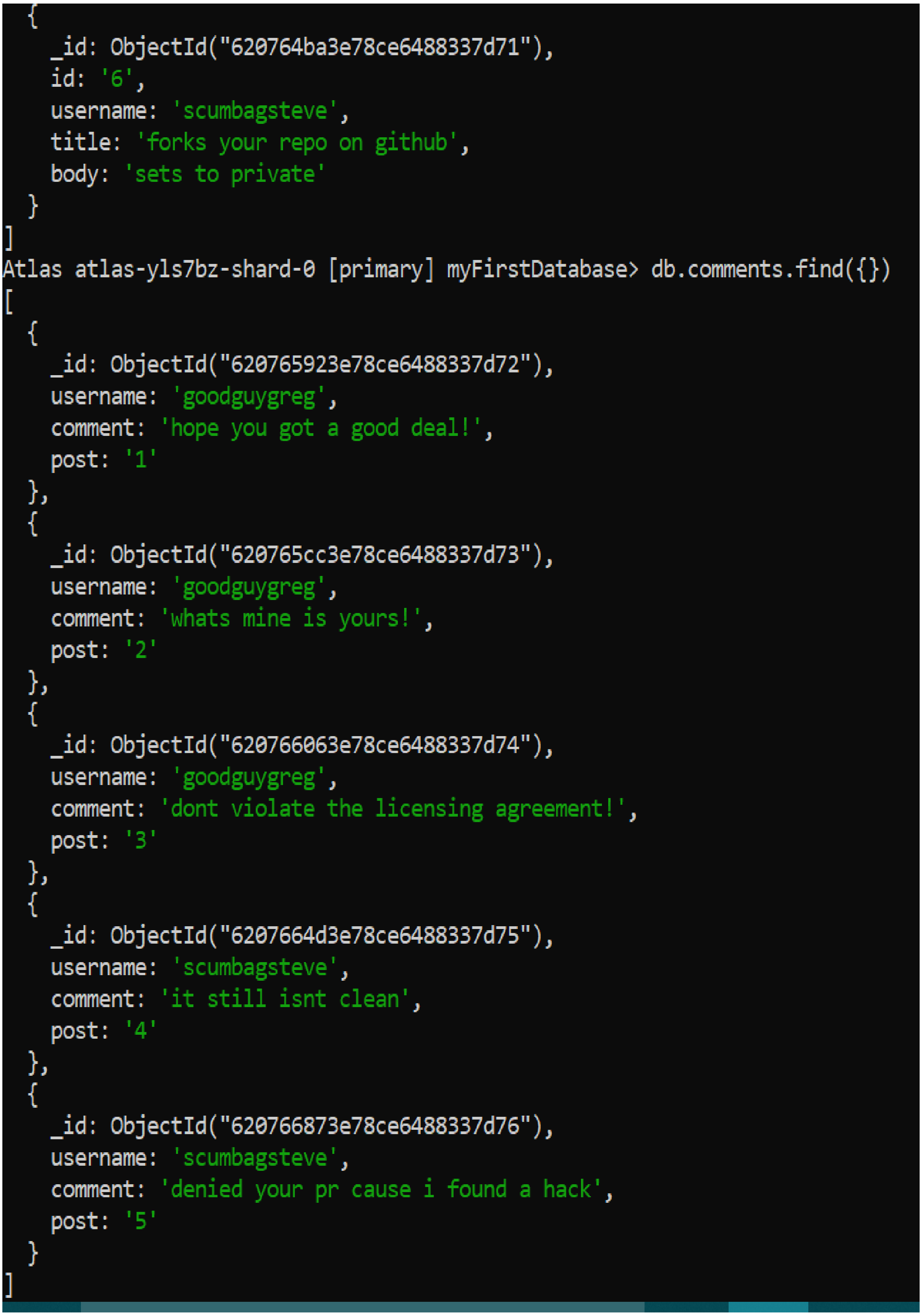
7. find all comments that was authored by "ScumbagSteve" 8. find all comments belonging to the post "Reports a bug in your code"



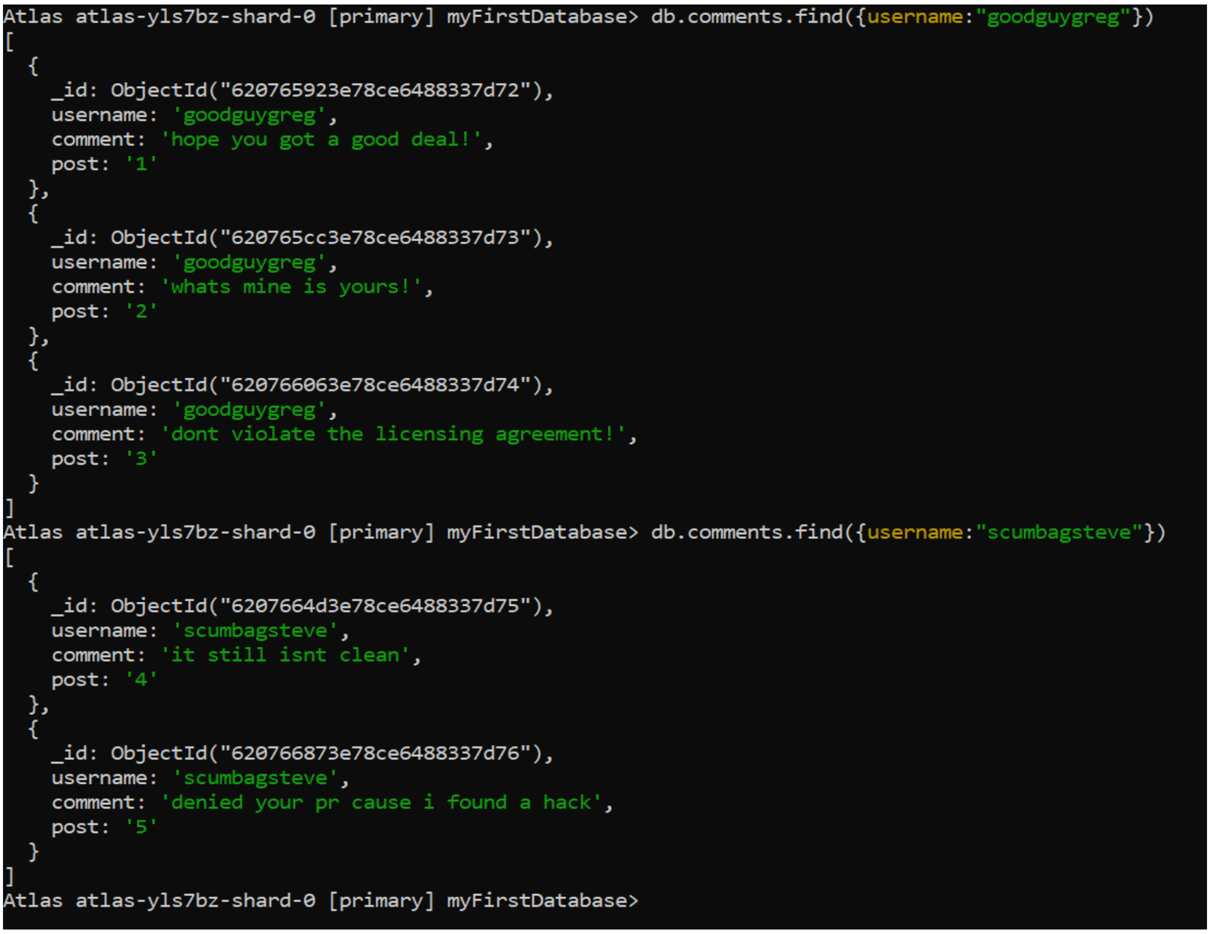
```
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.users.find()

Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.user.find()
[
  {
    _id: ObjectId("620762113e78ce6488337d6a"),
    username: 'goodguygreg',
    firstname: 'good guy',
    lastname: 'greg'
  },
  {
    _id: ObjectId("620762743e78ce6488337d6b"),
    username: 'scumbagsteve',
    firstname: 'scumbag',
    lastname: 'steve'
  }
]
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.posts.find()
[
  {
    _id: ObjectId("620763483e78ce6488337d6c"),
    id: '1',
    username: 'goodguygreg',
    title: 'passes out at party',
    body: 'wakes up early and clean house'
  },
  {
    _id: ObjectId("620763a63e78ce6488337d6d"),
    id: '2',
    username: 'goodguygreg',
    title: 'steals your identity',
    body: 'raise your credit score'
  },
  {
    _id: ObjectId("620763fa3e78ce6488337d6e"),
    id: '3',
    username: 'goodguygreg',
    title: 'reports a bug in your code',
    body: 'sends you a pull request'
  },
```



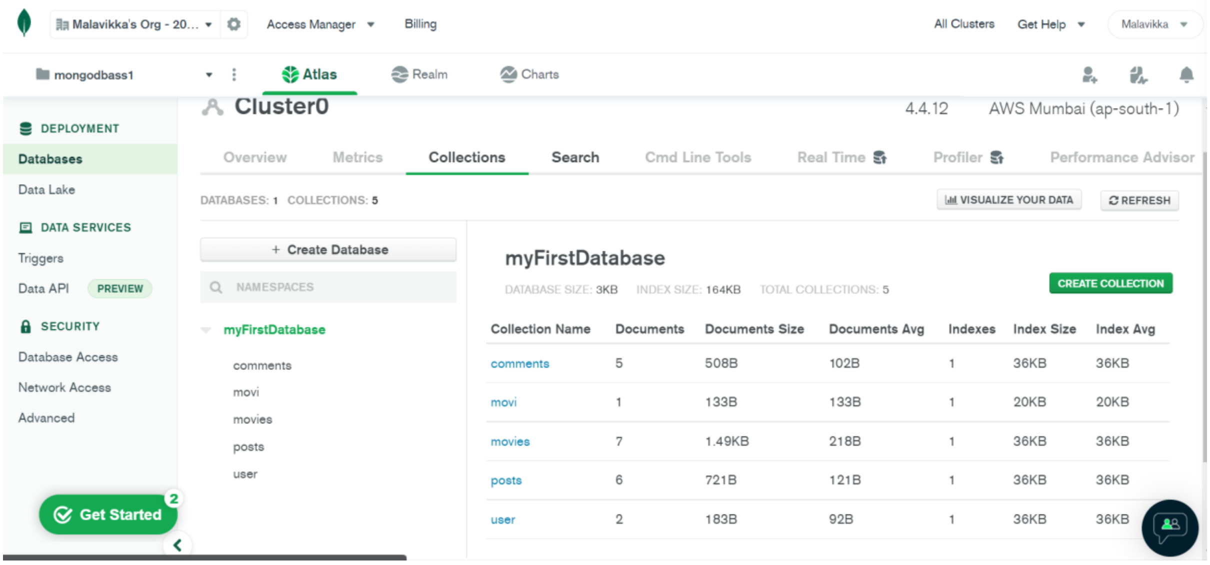
```
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.posts.find()
[
  {
    _id: ObjectId("620763483e78ce6488337d6c"),
    id: '1',
    username: 'goodguygreg',
    title: 'passes out at party',
    body: 'wakes up early and clean house'
  },
  {
    _id: ObjectId("620763a63e78ce6488337d6d"),
    id: '2',
    username: 'goodguygreg',
    title: 'steals your identity',
    body: 'raise your credit score'
  },
  {
    _id: ObjectId("620763fa3e78ce6488337d6e"),
    id: '3',
    username: 'goodguygreg',
    title: 'reports a bug in your code',
    body: 'sends you a pull request'
  },
  {
    _id: ObjectId("620764503e78ce6488337d6f"),
    id: '4',
    username: 'scumbagsteve',
    title: 'borrows something',
    body: 'sells it'
  },
  {
    _id: ObjectId("620764773e78ce6488337d70"),
    id: '5',
    username: 'scumbagsteve',
    title: 'borrows everything',
    body: 'the end'
  },
  {
    _id: ObjectId("620764ba3e78ce6488337d71"),
    id: '6',
    username: 'scumbagsteve',
```



```
  {
    _id: ObjectId("620764ba3e78ce6488337d71"),
    id: '6',
    username: 'scumbagsteve',
    title: 'forks your repo on github',
    body: 'sets to private'
  }
]
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.comments.find({})
[
  {
    _id: ObjectId("620765923e78ce6488337d72"),
    username: 'goodguygreg',
    comment: 'hope you got a good deal!',
    post: '1'
  },
  {
    _id: ObjectId("620765cc3e78ce6488337d73"),
    username: 'goodguygreg',
    comment: 'whats mine is yours!',
    post: '2'
  },
  {
    _id: ObjectId("620766063e78ce6488337d74"),
    username: 'goodguygreg',
    comment: 'dont violate the licensing agreement!',
    post: '3'
  },
  {
    _id: ObjectId("6207664d3e78ce6488337d75"),
    username: 'scumbagsteve',
    comment: 'it still isnt clean',
    post: '4'
  },
  {
    _id: ObjectId("620766873e78ce6488337d76"),
    username: 'scumbagsteve',
    comment: 'denied your pr cause i found a hack',
    post: '5'
  }
]
```



```
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.comments.find({username:"goodguygreg"})
[
  {
    _id: ObjectId("620765923e78ce6488337d72"),
    username: 'goodguygreg',
    comment: 'hope you got a good deal!',
    post: '1'
  },
  {
    _id: ObjectId("620765cc3e78ce6488337d73"),
    username: 'goodguygreg',
    comment: 'whats mine is yours!',
    post: '2'
  },
  {
    _id: ObjectId("620766063e78ce6488337d74"),
    username: 'goodguygreg',
    comment: 'dont violate the licensing agreement!',
    post: '3'
  }
]
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase> db.comments.find({username:"scumbagsteve"})
[
  {
    _id: ObjectId("6207664d3e78ce6488337d75"),
    username: 'scumbagsteve',
    comment: 'it still isnt clean',
    post: '4'
  },
  {
    _id: ObjectId("620766873e78ce6488337d76"),
    username: 'scumbagsteve',
    comment: 'denied your pr cause i found a hack',
    post: '5'
  }
]
Atlas atlas-yls7bz-shard-0 [primary] myFirstDatabase>
```



Cluster0

4.4.12 AWS Mumbai (ap-south-1)

DATABASES: 1 COLLECTIONS: 5

myFirstDatabase
- comments
- movi
- movies
- posts
- user

myFirstDatabase

DATABASE SIZE: 3KB INDEX SIZE: 164KB TOTAL COLLECTIONS: 5

Collection Name	Documents	Documents Size	Documents Avg	Indexes	Index Size	Index Avg
comments	5	508B	102B	1	36KB	36KB
movi	1	133B	133B	1	20KB	20KB
movies	7	1.49KB	218B	1	36KB	36KB
posts	6	721B	121B	1	36KB	36KB
user	2	183B	92B	1	36KB	36KB