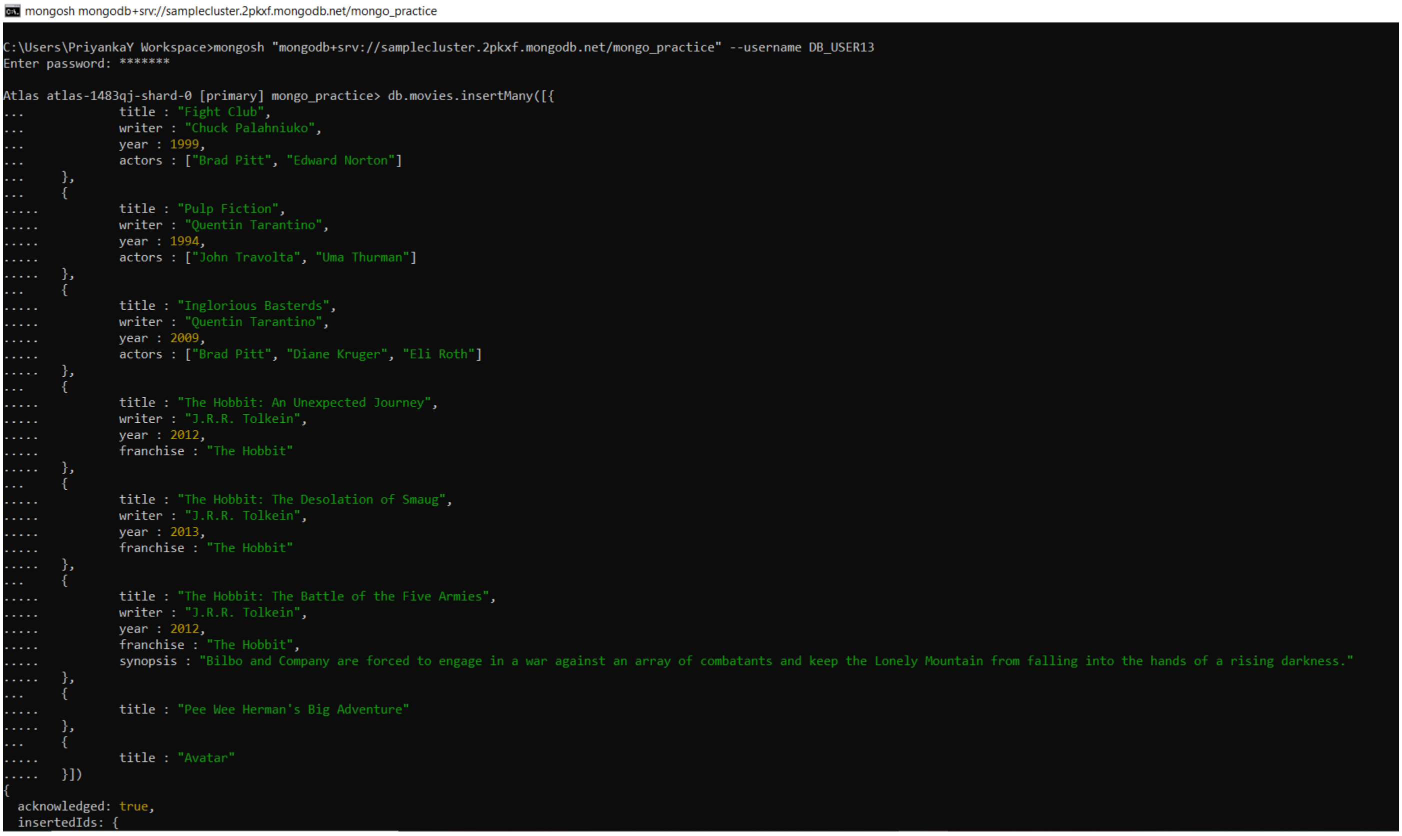
INSERT Query

- db.COLLECTION_NAME.insertone({document})
- **insertMany([{document},{document},...])**

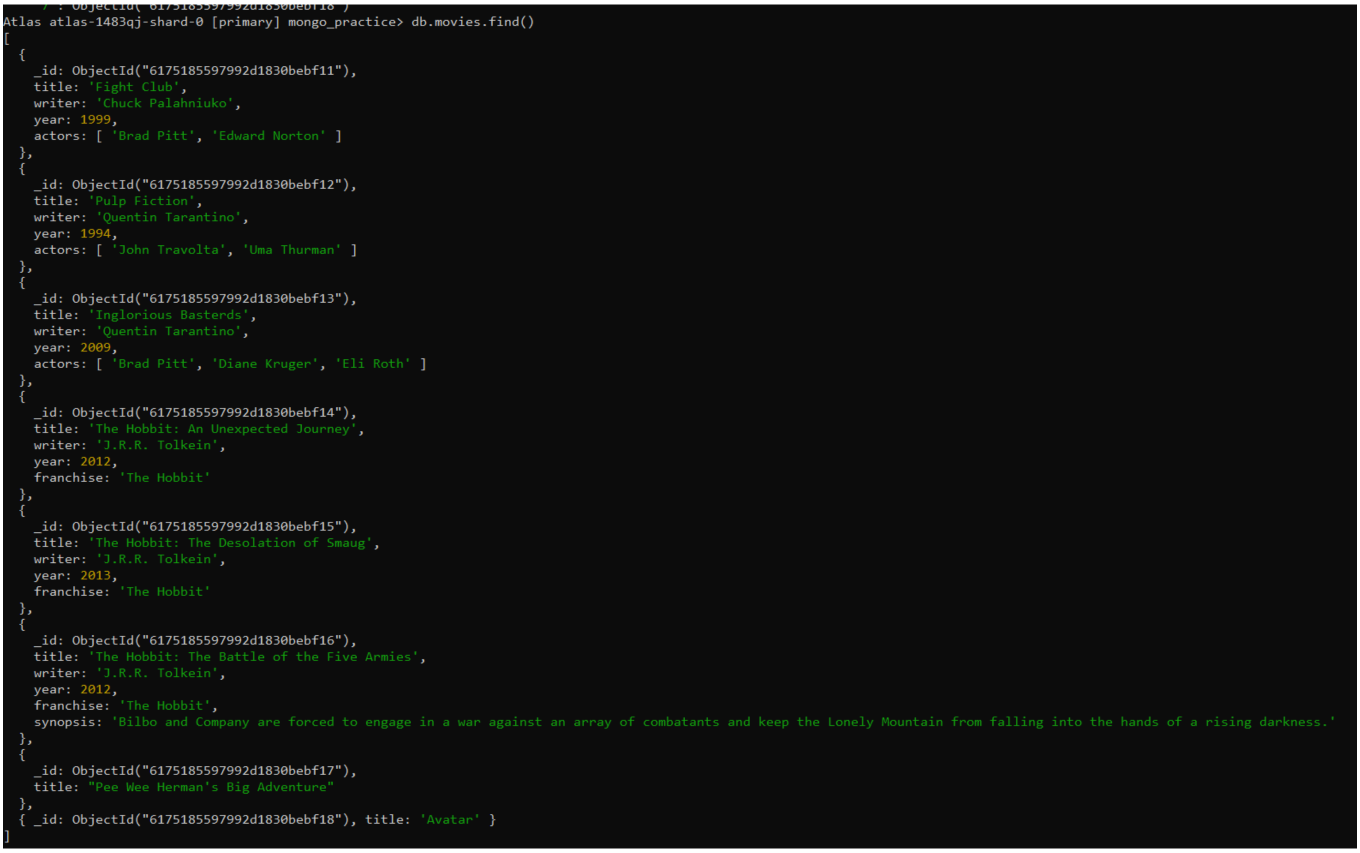


mongosh mongodb+srv://samplecluster.2pkxf.mongodb.net/mongo_practice

```
C:\Users\PriyankaY Workspace>mongosh "mongodb+srv://samplecluster.2pkxf.mongodb.net/mongo_practice" --username DB_USER13
Enter password: *******

Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.insertMany([{
...             title : "Fight Club",
...             writer : "Chuck Palahniuko",
...             year : 1999,
...             actors : ["Brad Pitt", "Edward Norton"]
...     },
...     {
.....           title : "Pulp Fiction",
.....           writer : "Quentin Tarantino",
.....           year : 1994,
.....           actors : ["John Travolta", "Uma Thurman"]
.....   },
...     {
.....           title : "Inglorious Basterds",
.....           writer : "Quentin Tarantino",
.....           year : 2009,
.....           actors : ["Brad Pitt", "Diane Kruger", "Eli Roth"]
.....   },
...     {
.....           title : "The Hobbit: An Unexpected Journey",
.....           writer : "J.R.R. Tolkein",
.....           year : 2012,
.....           franchise : "The Hobbit"
.....   },
...     {
.....           title : "The Hobbit: The Desolation of Smaug",
.....           writer : "J.R.R. Tolkein",
.....           year : 2013,
.....           franchise : "The Hobbit"
.....   },
...     {
.....           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."
.....   },
...     {
.....           title : "Pee Wee Herman's Big Adventure"
.....   },
...     {
.....           title : "Avatar"
.....   }])
{
  acknowledged: true,
  insertedIds: {
```

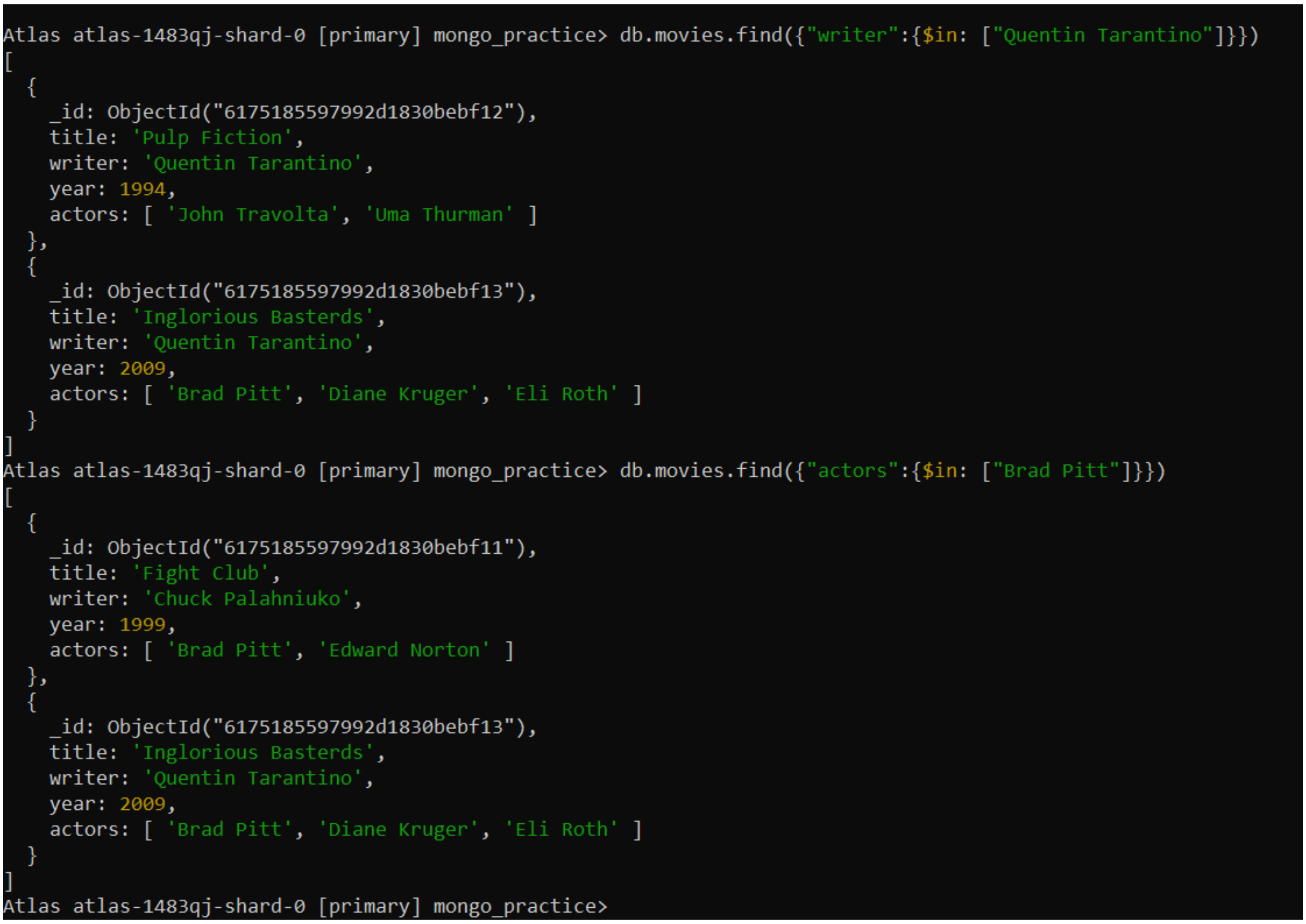
FIND Query

1. get all documents
   - ➢ db.movies.find()



```
    7 : ObjectId("6175185597992d1830bebf18")
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.find()
[
  {
    _id: ObjectId("6175185597992d1830bebf11"),
    title: 'Fight Club',
    writer: 'Chuck Palahniuko',
    year: 1999,
    actors: [ 'Brad Pitt', 'Edward Norton' ]
  },
  {
    _id: ObjectId("6175185597992d1830bebf12"),
    title: 'Pulp Fiction',
    writer: 'Quentin Tarantino',
    year: 1994,
    actors: [ 'John Travolta', 'Uma Thurman' ]
  },
  {
    _id: ObjectId("6175185597992d1830bebf13"),
    title: 'Inglorious Basterds',
    writer: 'Quentin Tarantino',
    year: 2009,
    actors: [ 'Brad Pitt', 'Diane Kruger', 'Eli Roth' ]
  },
  {
    _id: ObjectId("6175185597992d1830bebf14"),
    title: 'The Hobbit: An Unexpected Journey',
    writer: 'J.R.R. Tolkein',
    year: 2012,
    franchise: 'The Hobbit'
  },
  {
    _id: ObjectId("6175185597992d1830bebf15"),
    title: 'The Hobbit: The Desolation of Smaug',
    writer: 'J.R.R. Tolkein',
    year: 2013,
    franchise: 'The Hobbit'
  },
  {
    _id: ObjectId("6175185597992d1830bebf16"),
    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("6175185597992d1830bebf17"),
    title: "Pee Wee Herman's Big Adventure"
  },
  { _id: ObjectId("6175185597992d1830bebf18"), title: 'Avatar' }
]
```

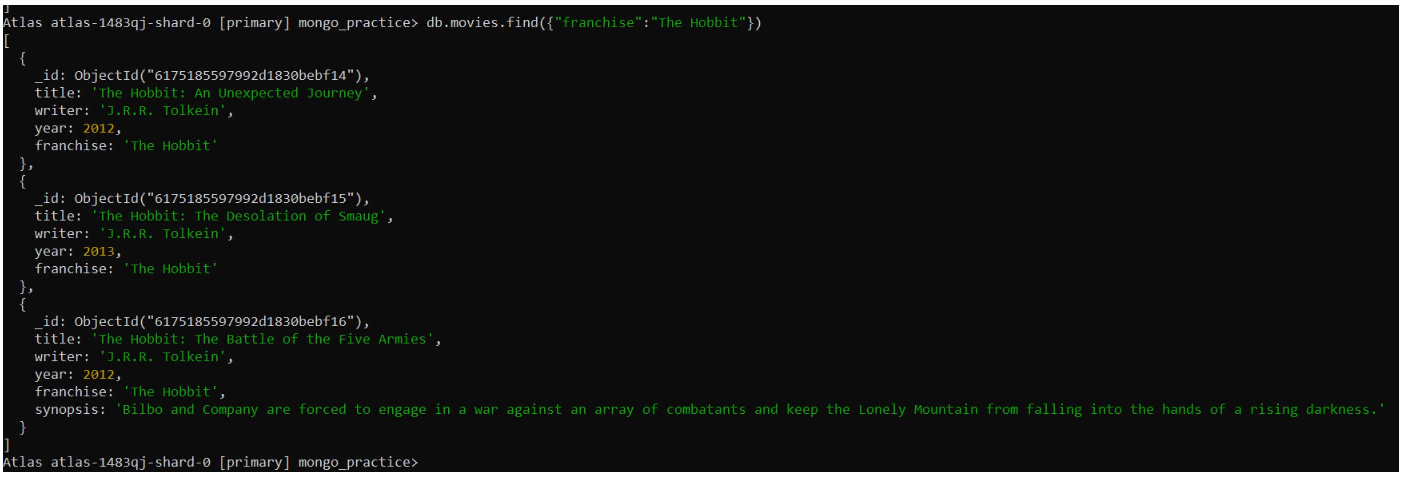
2. get all documents with writer set to "Quentin Tarantino"
   - ➢ db.movies.find({"writer":{$in: ["Quentin Tarantino"]}})
3. get all documents where actors include "Brad Pitt"
   - ➢ db.movies.find({"actors":{$in: ["Brad Pitt"]}})



```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.find({"writer":{$in: ["Quentin Tarantino"]}})
[
  {
    _id: ObjectId("6175185597992d1830bebf12"),
    title: 'Pulp Fiction',
    writer: 'Quentin Tarantino',
    year: 1994,
    actors: [ 'John Travolta', 'Uma Thurman' ]
  },
  {
    _id: ObjectId("6175185597992d1830bebf13"),
    title: 'Inglorious Basterds',
    writer: 'Quentin Tarantino',
    year: 2009,
    actors: [ 'Brad Pitt', 'Diane Kruger', 'Eli Roth' ]
  }
]
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.find({"actors":{$in: ["Brad Pitt"]}})
[
  {
    _id: ObjectId("6175185597992d1830bebf11"),
    title: 'Fight Club',
    writer: 'Chuck Palahniuko',
    year: 1999,
    actors: [ 'Brad Pitt', 'Edward Norton' ]
  },
  {
    _id: ObjectId("6175185597992d1830bebf13"),
    title: 'Inglorious Basterds',
    writer: 'Quentin Tarantino',
    year: 2009,
    actors: [ 'Brad Pitt', 'Diane Kruger', 'Eli Roth' ]
  }
]
Atlas atlas-1483qj-shard-0 [primary] mongo_practice>
```

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

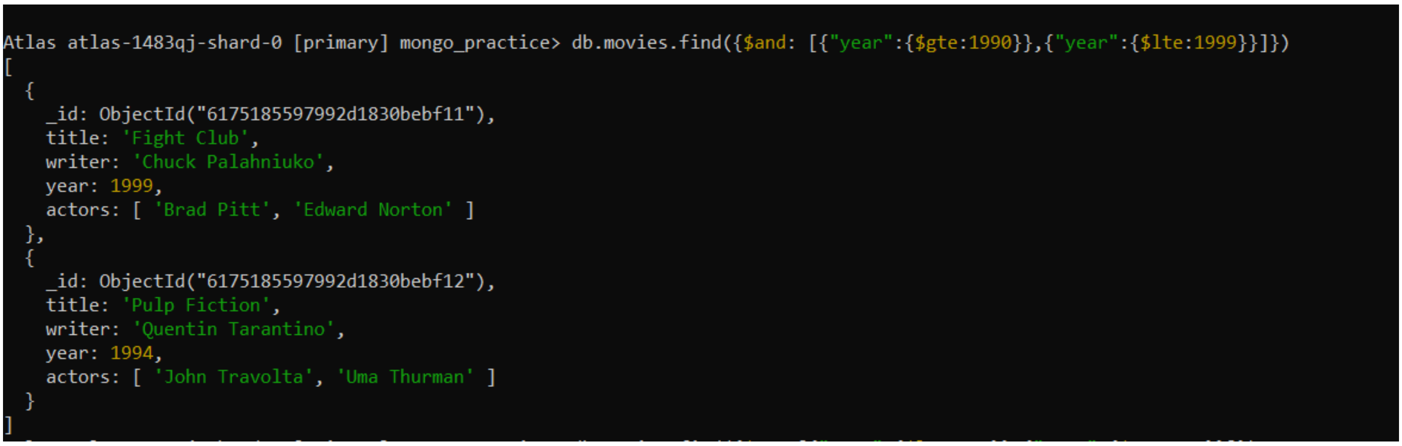
   ➢ db.movies.find({"franchise":"The Hobbit"})



```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.find({"franchise":"The Hobbit"})
[
  {
    _id: ObjectId("6175185597992d1830bebf14"),
    title: 'The Hobbit: An Unexpected Journey',
    writer: 'J.R.R. Tolkein',
    year: 2012,
    franchise: 'The Hobbit'
  },
  {
    _id: ObjectId("6175185597992d1830bebf15"),
    title: 'The Hobbit: The Desolation of Smaug',
    writer: 'J.R.R. Tolkein',
    year: 2013,
    franchise: 'The Hobbit'
  },
  {
    _id: ObjectId("6175185597992d1830bebf16"),
    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.'
  }
]
Atlas atlas-1483qj-shard-0 [primary] mongo_practice>
```

5. get all movies released in the 90s

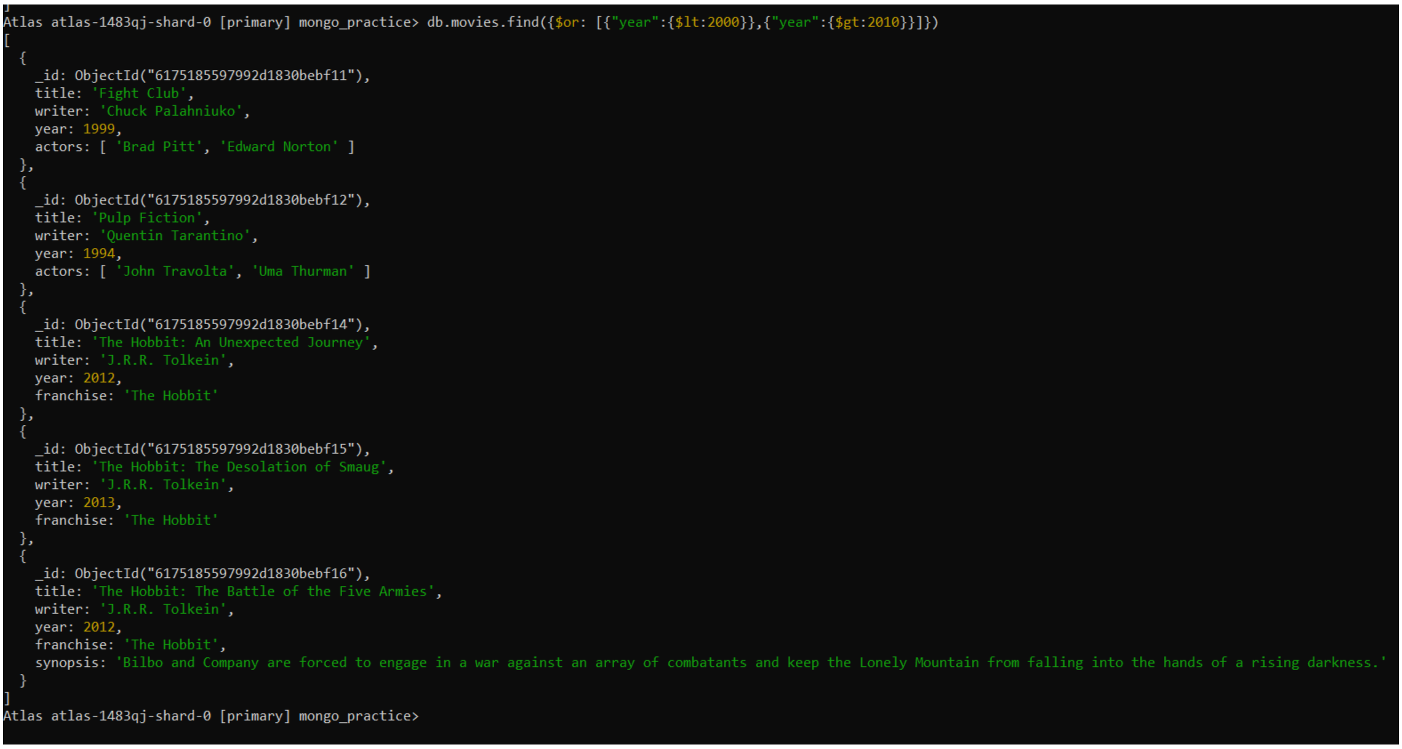
   ➢ db.movies.find({$and: [{"year":{$gte:1990}},{"year":{$lte:1999}}]})



```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.find({$and: [{"year":{$gte:1990}},{"year":{$lte:1999}}]})
[
  {
    _id: ObjectId("6175185597992d1830bebf11"),
    title: 'Fight Club',
    writer: 'Chuck Palahniuko',
    year: 1999,
    actors: [ 'Brad Pitt', 'Edward Norton' ]
  },
  {
    _id: ObjectId("6175185597992d1830bebf12"),
    title: 'Pulp Fiction',
    writer: 'Quentin Tarantino',
    year: 1994,
    actors: [ 'John Travolta', 'Uma Thurman' ]
  }
]
```

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

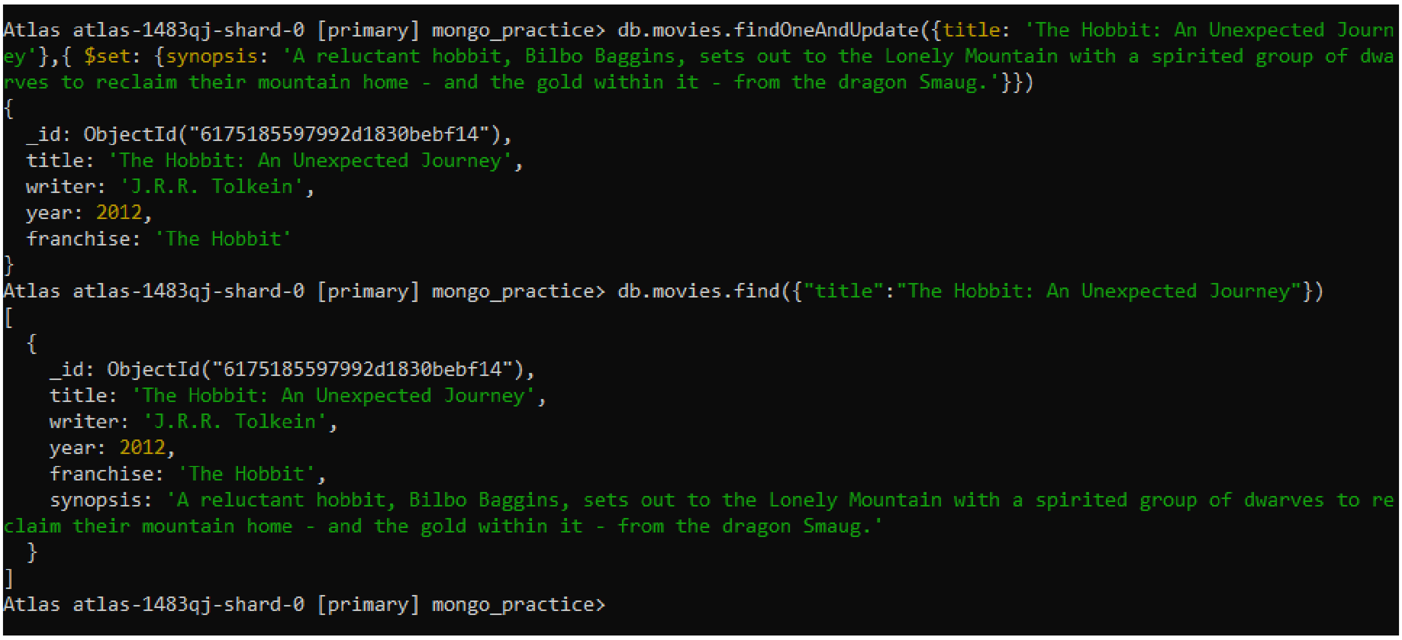
   ➢ db.movies.find({$or: [{"year":{$lt:2000}},{"year":{$gt:2010}}]})



```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.find({$or: [{"year":{$lt:2000}},{"year":{$gt:2010}}]})
[
  {
    _id: ObjectId("6175185597992d1830bebf11"),
    title: 'Fight Club',
    writer: 'Chuck Palahniuko',
    year: 1999,
    actors: [ 'Brad Pitt', 'Edward Norton' ]
  },
  {
    _id: ObjectId("6175185597992d1830bebf12"),
    title: 'Pulp Fiction',
    writer: 'Quentin Tarantino',
    year: 1994,
    actors: [ 'John Travolta', 'Uma Thurman' ]
  },
  {
    _id: ObjectId("6175185597992d1830bebf14"),
    title: 'The Hobbit: An Unexpected Journey',
    writer: 'J.R.R. Tolkein',
    year: 2012,
    franchise: 'The Hobbit'
  },
  {
    _id: ObjectId("6175185597992d1830bebf15"),
    title: 'The Hobbit: The Desolation of Smaug',
    writer: 'J.R.R. Tolkein',
    year: 2013,
    franchise: 'The Hobbit'
  },
  {
    _id: ObjectId("6175185597992d1830bebf16"),
    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.'
  }
]
Atlas atlas-1483qj-shard-0 [primary] mongo_practice>
```

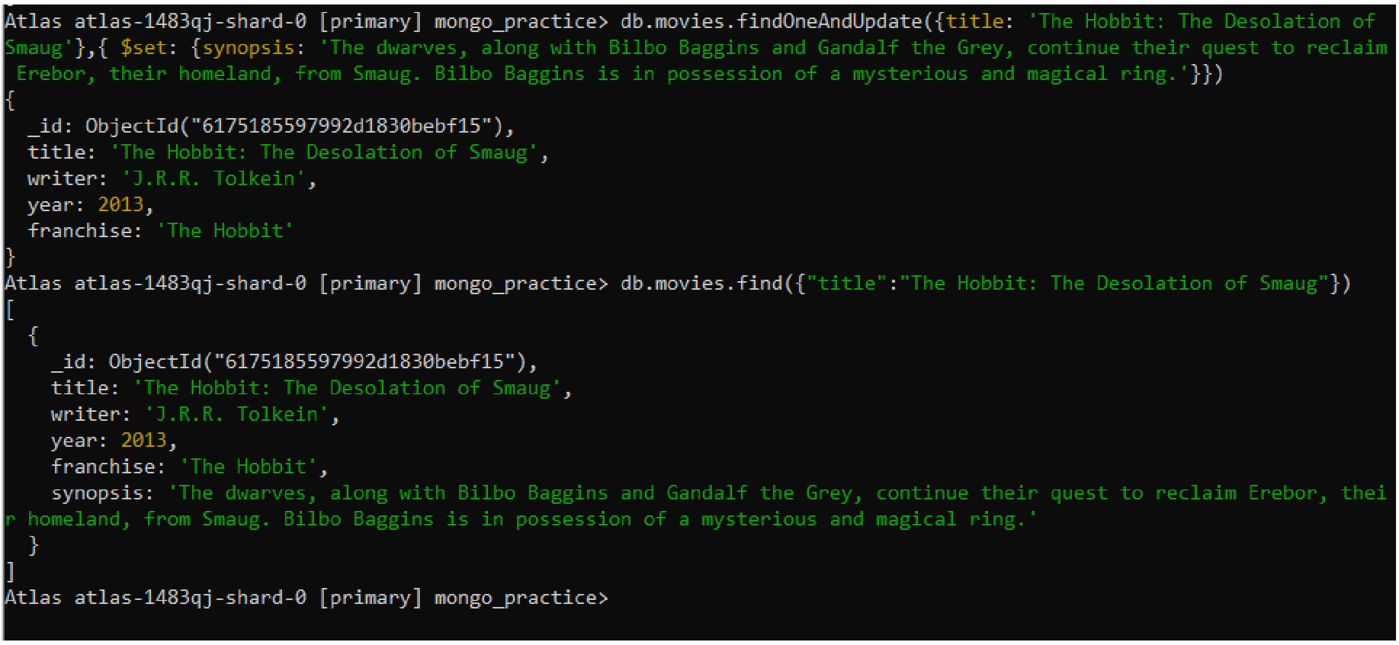
UPDATE Query

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."
   - ➢ db.movies.findOneAndUpdate({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.'}})



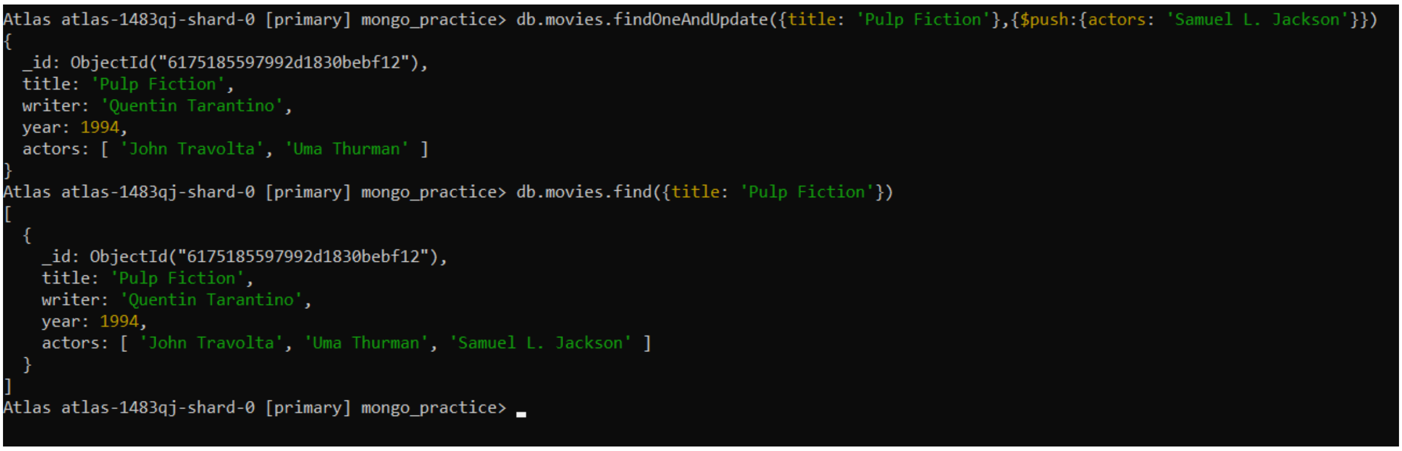
```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.findOneAndUpdate({title: 'The Hobbit: An Unexpected Journ
ey'},{ $set: {synopsis: 'A reluctant hobbit, Bilbo Baggins, sets out to the Lonely Mountain with a spirited group of dwa
rves to reclaim their mountain home - and the gold within it - from the dragon Smaug.'}})
{
  _id: ObjectId("6175185597992d1830bebf14"),
  title: 'The Hobbit: An Unexpected Journey',
  writer: 'J.R.R. Tolkein',
  year: 2012,
  franchise: 'The Hobbit'
}
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.find({"title":"The Hobbit: An Unexpected Journey"})
[
  {
    _id: ObjectId("6175185597992d1830bebf14"),
    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 re
claim their mountain home - and the gold within it - from the dragon Smaug.'
  }
]
Atlas atlas-1483qj-shard-0 [primary] mongo_practice>
```

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."
   - ➢ db.movies.findOneAndUpdate({title: 'The Hobbit: The Desolation of Smaug'},{ $set: {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-1483qj-shard-0 [primary] mongo_practice> db.movies.findOneAndUpdate({title: 'The Hobbit: The Desolation of
Smaug'},{ $set: {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.'}})
{
  _id: ObjectId("6175185597992d1830bebf15"),
  title: 'The Hobbit: The Desolation of Smaug',
  writer: 'J.R.R. Tolkein',
  year: 2013,
  franchise: 'The Hobbit'
}
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.find({"title":"The Hobbit: The Desolation of Smaug"})
[
  {
    _id: ObjectId("6175185597992d1830bebf15"),
    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, thei
r homeland, from Smaug. Bilbo Baggins is in possession of a mysterious and magical ring.'
  }
]
Atlas atlas-1483qj-shard-0 [primary] mongo_practice>
```

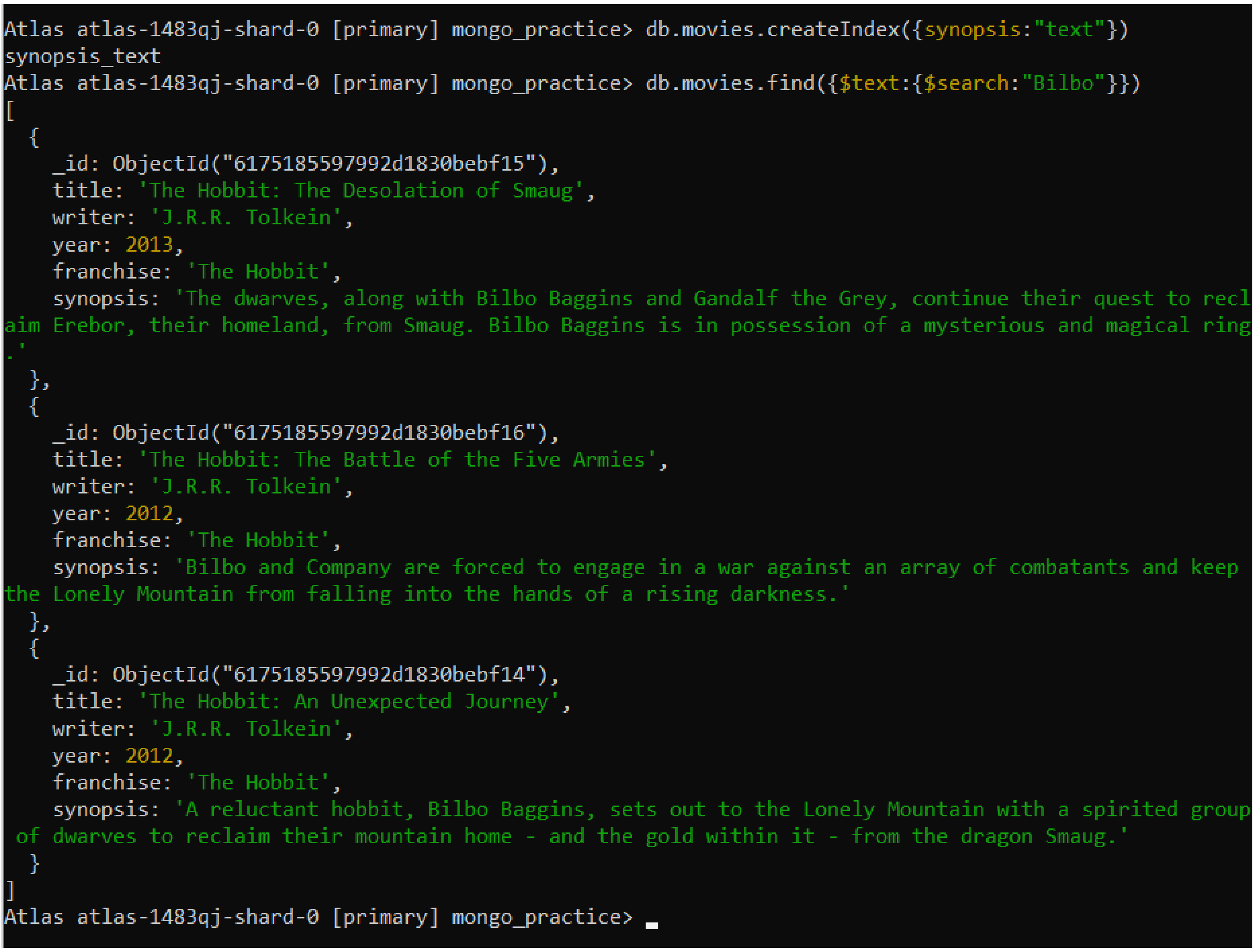
3. add an actor named "Samuel L. Jackson" to the movie "Pulp Fiction"
   db.movies.findOneAndUpdate({title: 'Pulp Fiction'},{$push:{actors: 'Samuel L. Jackson'}})



```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.findOneAndUpdate({title: 'Pulp Fiction'},{$push:{actors: 'Samuel L. Jackson'}})
{
  _id: ObjectId("6175185597992d1830bebf12"),
  title: 'Pulp Fiction',
  writer: 'Quentin Tarantino',
  year: 1994,
  actors: [ 'John Travolta', 'Uma Thurman' ]
}
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.find({title: 'Pulp Fiction'})
[
  {
    _id: ObjectId("6175185597992d1830bebf12"),
    title: 'Pulp Fiction',
    writer: 'Quentin Tarantino',
    year: 1994,
    actors: [ 'John Travolta', 'Uma Thurman', 'Samuel L. Jackson' ]
  }
]
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> _
```

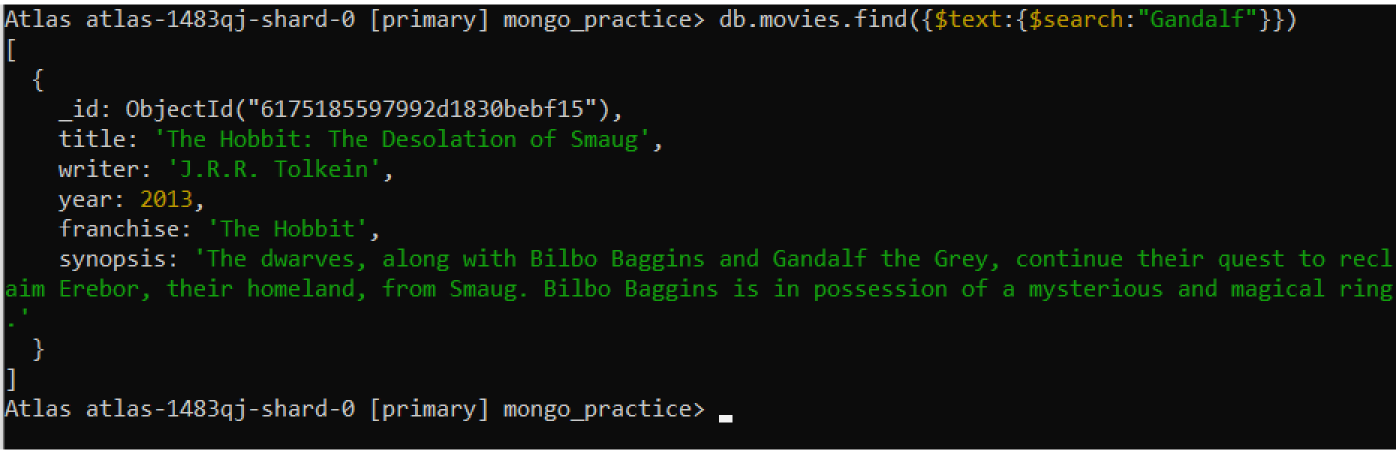
Text Search

1. find all movies that have a synopsis that contains the word "Bilbo"
   - db.movies.createIndex({synopsis:"text"})
   - db.movies.find({$text:{$search:"Bilbo"}})



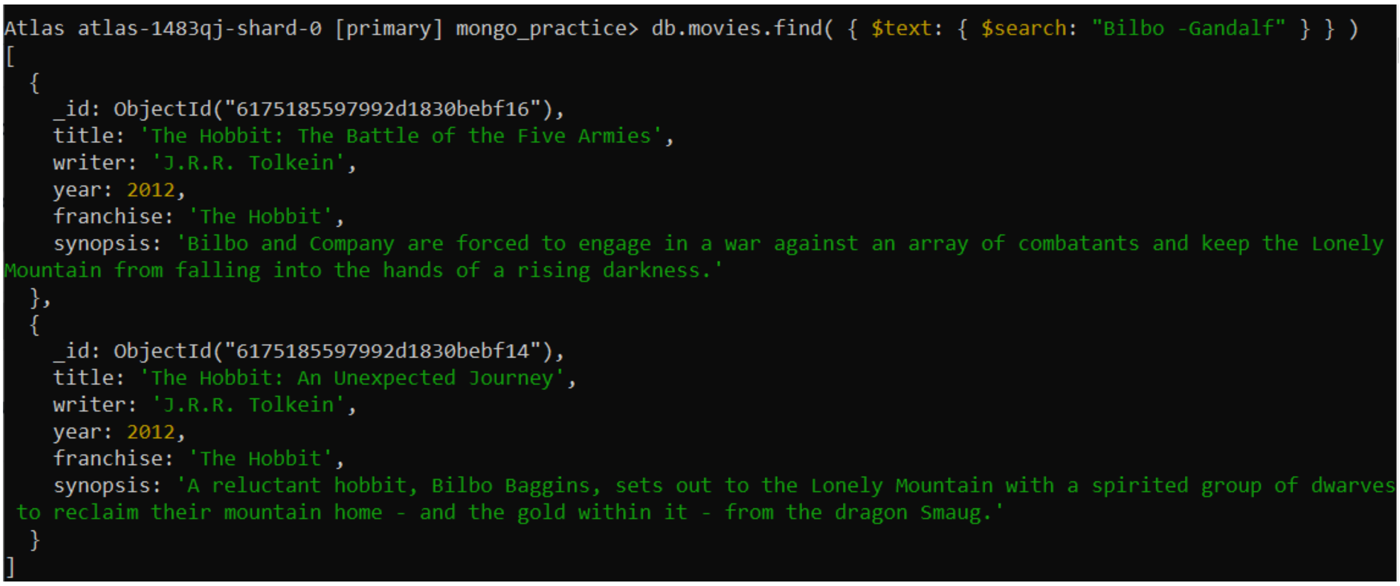
```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.createIndex({synopsis:"text"})
synopsis_text
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.find({$text:{$search:"Bilbo"}})
[
  {
    _id: ObjectId("6175185597992d1830bebf15"),
    title: 'The Hobbit: The Desolation of 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 recl
aim Erebor, their homeland, from Smaug. Bilbo Baggins is in possession of a mysterious and magical ring
.'
  },
  {
    _id: ObjectId("6175185597992d1830bebf16"),
    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("6175185597992d1830bebf14"),
    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-1483qj-shard-0 [primary] mongo_practice> _
```

2. find all movies that have a synopsis that contains the word "Gandalf"
   - ➢ db.movies.find({$text:{$search:" Gandalf "}})



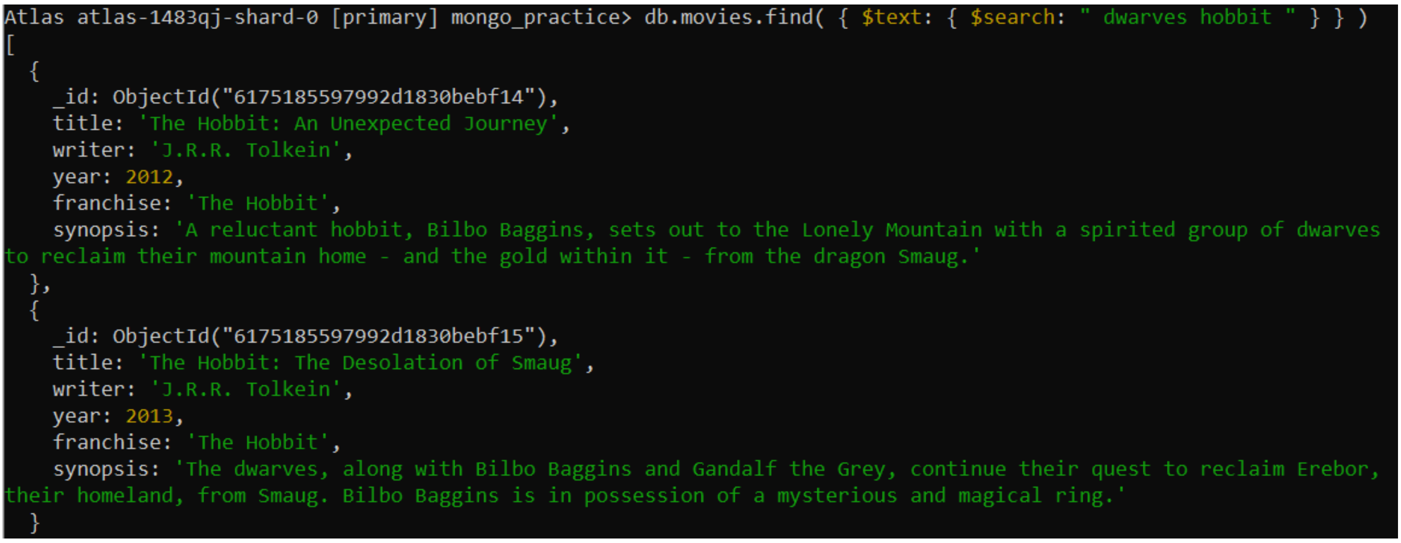
```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.find({$text:{$search:"Gandalf"}})
[
  {
    _id: ObjectId("6175185597992d1830bebf15"),
    title: 'The Hobbit: The Desolation of Smaug',
    writer: 'J.R.R. Tolkein',
    year: 2013,
    franchise: 'The Hobbit',
    synopsis: 'The dwarves, along with Bilbo Baggins and Gandalf the Grey, continue their quest to recl
aim Erebor, their homeland, from Smaug. Bilbo Baggins is in possession of a mysterious and magical ring
.'
  }
]
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> _
```

3. find all movies that have a synopsis that contains the word "Bilbo" and not the word "Gandalf"
   - ➢ db.movies.find({ $text: { $search: "Bilbo -Gandalf" } })



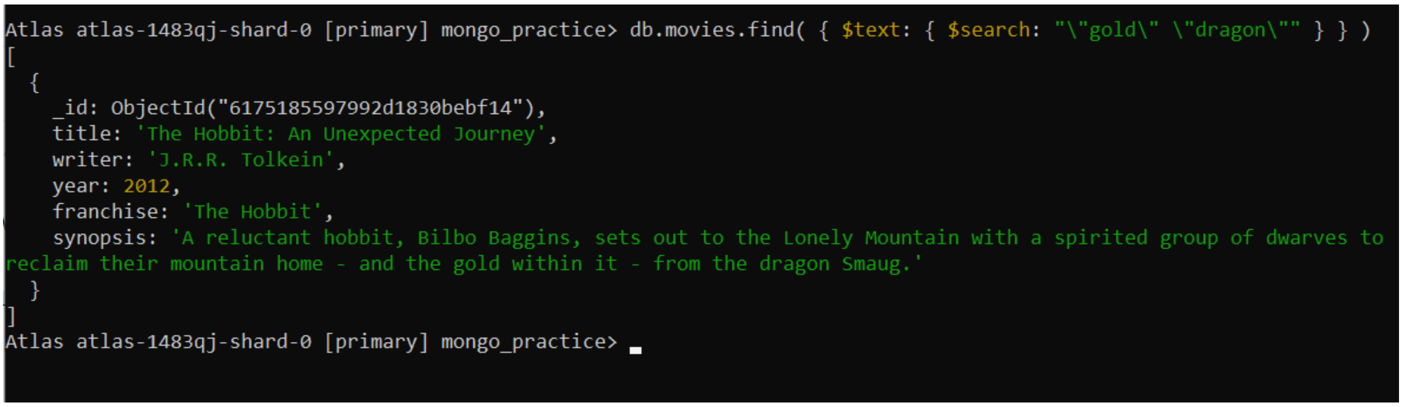
```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.find( { $text: { $search: "Bilbo -Gandalf" } } )
[
  {
    _id: ObjectId("6175185597992d1830bebf16"),
    title: 'The Hobbit: The Battle of the Five Armies',
    writer: 'J.R.R. Tolkein',
    year: 2012,
    franchise: 'The Hobbit',
    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("6175185597992d1830bebf14"),
    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.'
  }
]
```

4. find all movies that have a synopsis that contains the word "dwarves" or "hobbit"
   - ➢ db.movies.find({ $text: { $search: " dwarves hobbit " } })
   - ➢ db.movies.find({$or:[{synopsis:{$regex:"dwarves"}}, {synopsis:{$regex:"hobbit"}}]})



```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.find( { $text: { $search: " dwarves hobbit " } } )
[
  {
    _id: ObjectId("6175185597992d1830bebf14"),
    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("6175185597992d1830bebf15"),
    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.'
  }
```

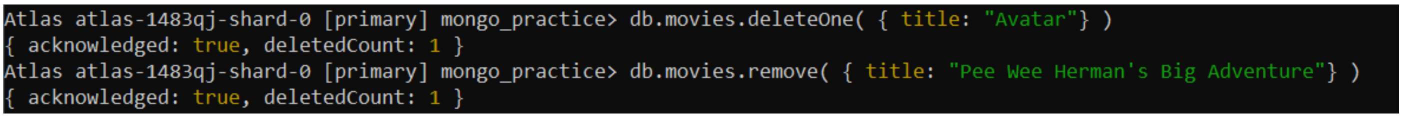
5. find all movies that have a synopsis that contains the word "gold" and "dragon"
   - db.movies.find({ $text: { $search: "\"gold\" \"dragon\"" } })



```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.find( { $text: { $search: "\"gold\" \"dragon\"" } } )
[
  {
    _id: ObjectId("6175185597992d1830bebf14"),
    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-1483qj-shard-0 [primary] mongo_practice> 
```

Delete Documents

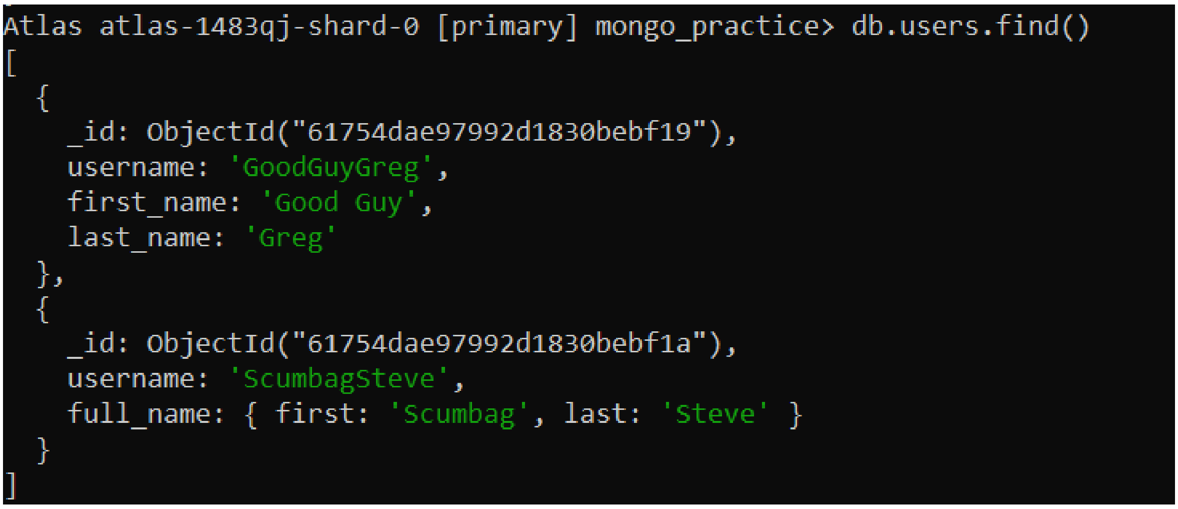
1. delete the movie "Avatar"
   - db.movies.deleteOne({ title: "Avatar"})
2. delete the movie "Pee Wee Herman's Big Adventure"
   - db.movies.deleteOne({ title: " Pee Wee Herman's Big Adventure "})



```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.deleteOne( { title: "Avatar"} )
{ acknowledged: true, deletedCount: 1 }
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.remove( { title: "Pee Wee Herman's Big Adventure"} )
{ acknowledged: true, deletedCount: 1 }
```

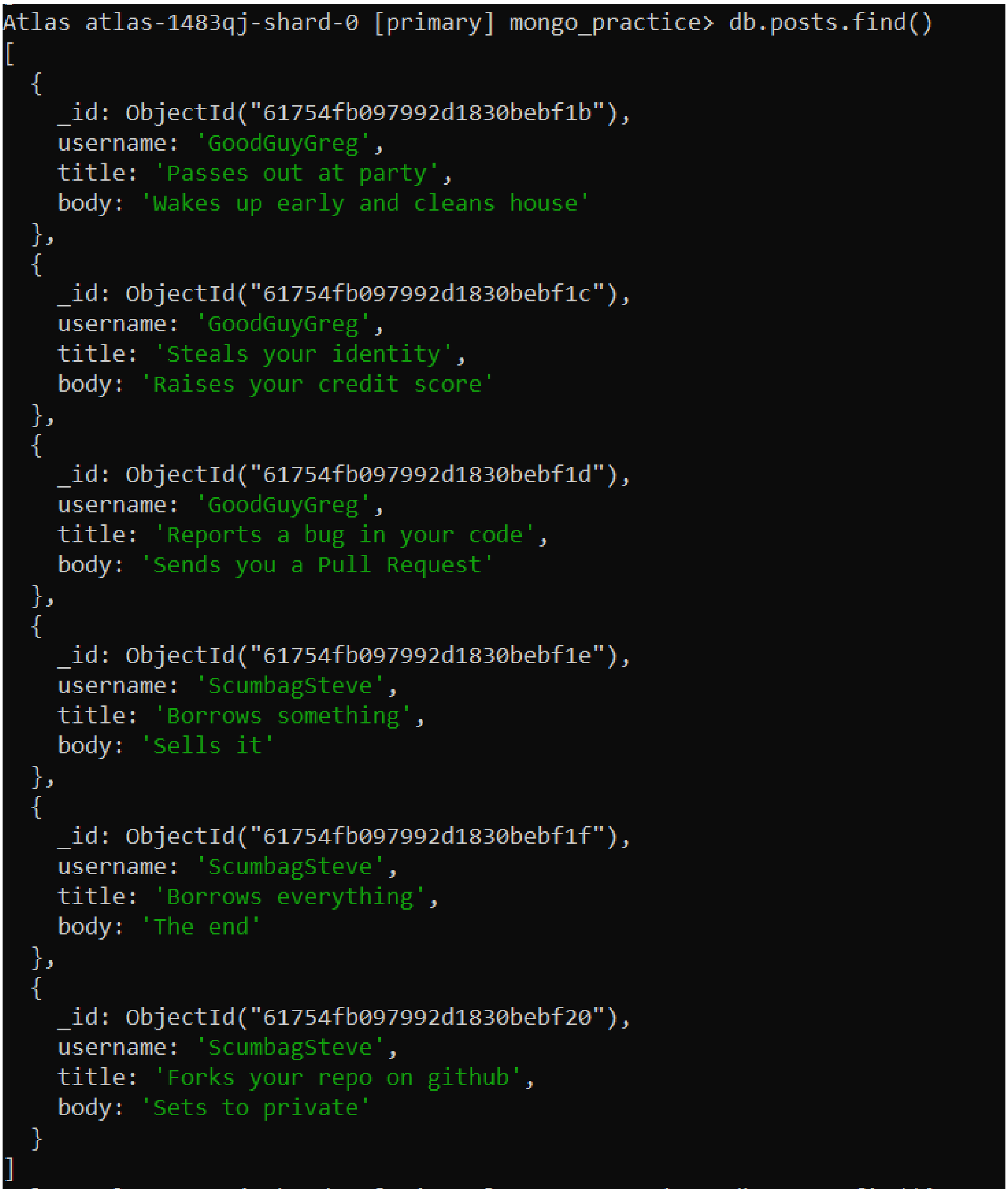
Relationships

1. find all users
   - db.users.find()



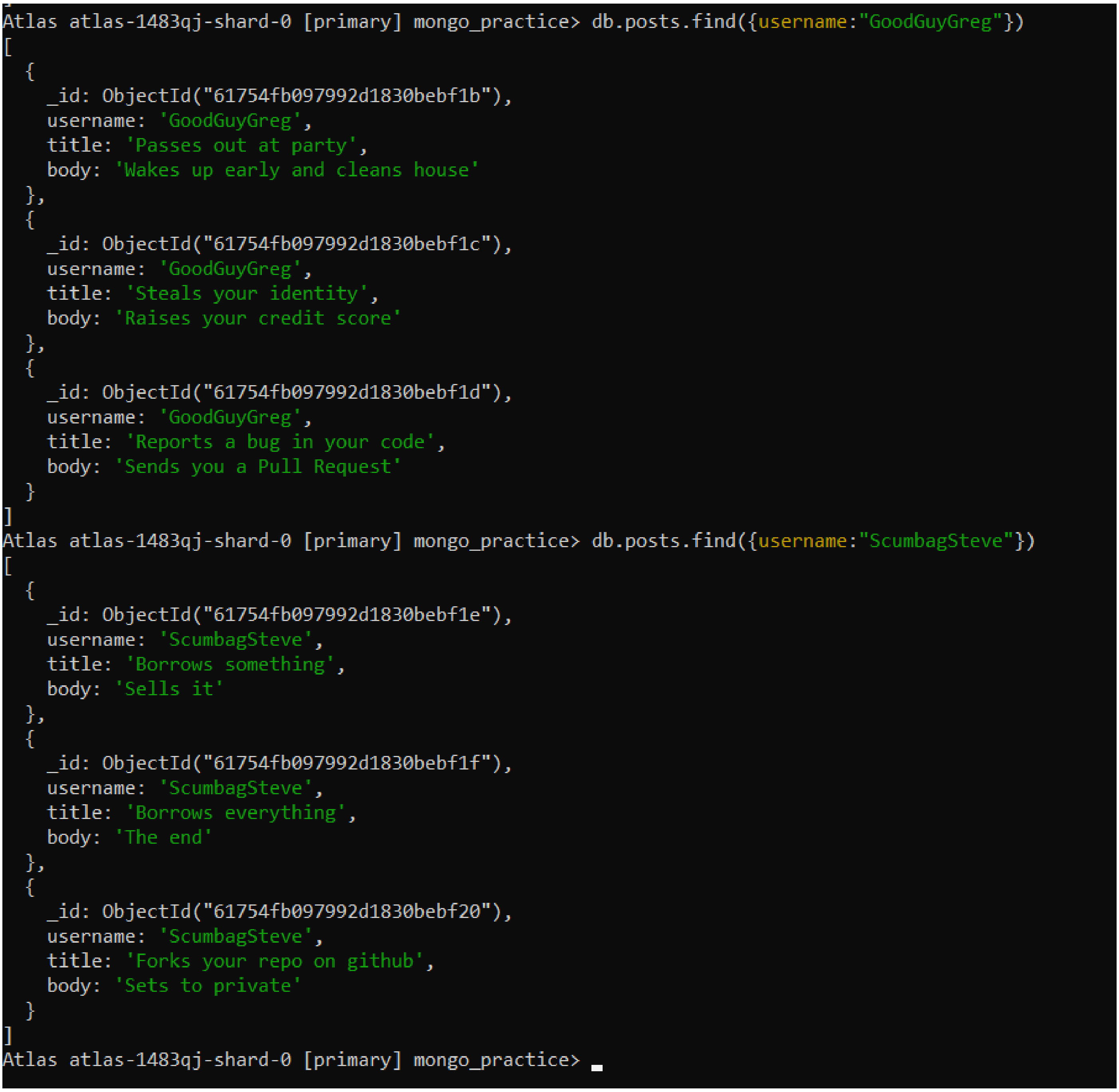
```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.users.find()
[
  {
    _id: ObjectId("61754dae97992d1830bebf19"),
    username: 'GoodGuyGreg',
    first_name: 'Good Guy',
    last_name: 'Greg'
  },
  {
    _id: ObjectId("61754dae97992d1830bebf1a"),
    username: 'ScumbagSteve',
    full_name: { first: 'Scumbag', last: 'Steve' }
  }
]
```

2. find all posts
   - db.posts.find()



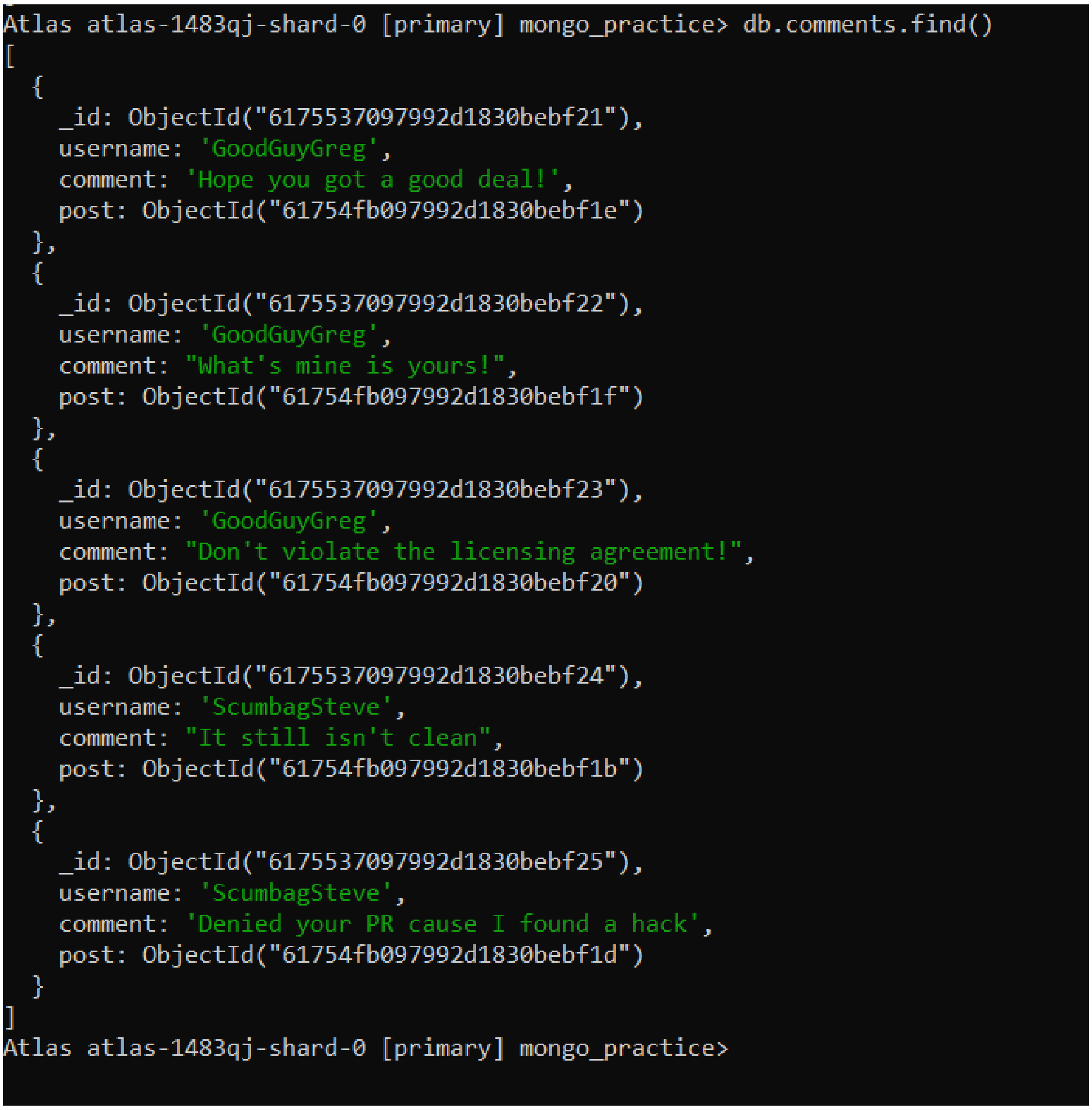
```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.posts.find()
[
  {
    _id: ObjectId("61754fb097992d1830bebf1b"),
    username: 'GoodGuyGreg',
    title: 'Passes out at party',
    body: 'Wakes up early and cleans house'
  },
  {
    _id: ObjectId("61754fb097992d1830bebf1c"),
    username: 'GoodGuyGreg',
    title: 'Steals your identity',
    body: 'Raises your credit score'
  },
  {
    _id: ObjectId("61754fb097992d1830bebf1d"),
    username: 'GoodGuyGreg',
    title: 'Reports a bug in your code',
    body: 'Sends you a Pull Request'
  },
  {
    _id: ObjectId("61754fb097992d1830bebf1e"),
    username: 'ScumbagSteve',
    title: 'Borrows something',
    body: 'Sells it'
  },
  {
    _id: ObjectId("61754fb097992d1830bebf1f"),
    username: 'ScumbagSteve',
    title: 'Borrows everything',
    body: 'The end'
  },
  {
    _id: ObjectId("61754fb097992d1830bebf20"),
    username: 'ScumbagSteve',
    title: 'Forks your repo on github',
    body: 'Sets to private'
  }
]
```

3. find all posts that was authored by "GoodGuyGreg"
   - db.posts.find({username:"GoodGuyGreg"})
4. find all posts that was authored by "ScumbagSteve"
   - db.posts.find({username:"ScumbagSteve"})



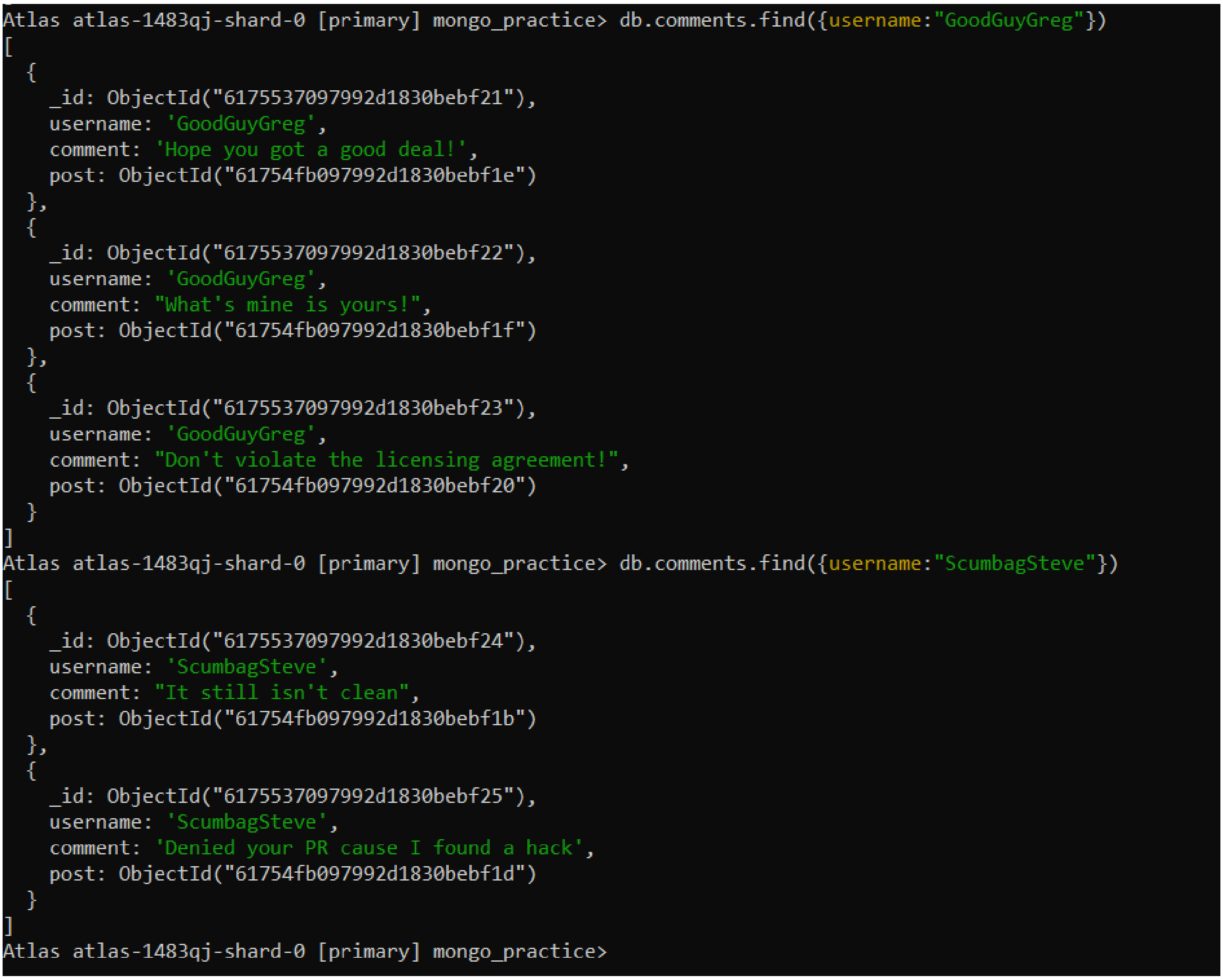
```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.posts.find({username:"GoodGuyGreg"})
[
  {
    _id: ObjectId("61754fb097992d1830bebf1b"),
    username: 'GoodGuyGreg',
    title: 'Passes out at party',
    body: 'Wakes up early and cleans house'
  },
  {
    _id: ObjectId("61754fb097992d1830bebf1c"),
    username: 'GoodGuyGreg',
    title: 'Steals your identity',
    body: 'Raises your credit score'
  },
  {
    _id: ObjectId("61754fb097992d1830bebf1d"),
    username: 'GoodGuyGreg',
    title: 'Reports a bug in your code',
    body: 'Sends you a Pull Request'
  }
]
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.posts.find({username:"ScumbagSteve"})
[
  {
    _id: ObjectId("61754fb097992d1830bebf1e"),
    username: 'ScumbagSteve',
    title: 'Borrows something',
    body: 'Sells it'
  },
  {
    _id: ObjectId("61754fb097992d1830bebf1f"),
    username: 'ScumbagSteve',
    title: 'Borrows everything',
    body: 'The end'
  },
  {
    _id: ObjectId("61754fb097992d1830bebf20"),
    username: 'ScumbagSteve',
    title: 'Forks your repo on github',
    body: 'Sets to private'
  }
]
Atlas atlas-1483qj-shard-0 [primary] mongo_practice>
```

5. find all comments
   - db.comments.find()



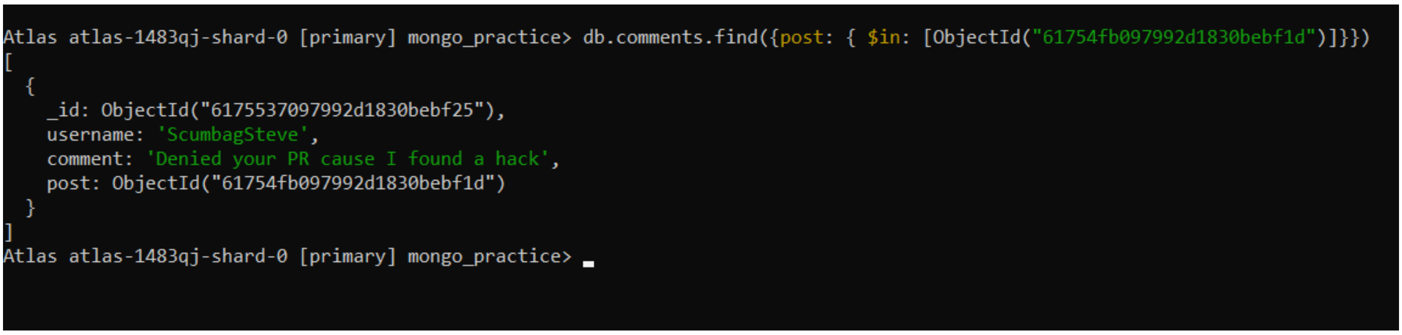
```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.comments.find()
[
  {
    _id: ObjectId("6175537097992d1830bebf21"),
    username: 'GoodGuyGreg',
    comment: 'Hope you got a good deal!',
    post: ObjectId("61754fb097992d1830bebf1e")
  },
  {
    _id: ObjectId("6175537097992d1830bebf22"),
    username: 'GoodGuyGreg',
    comment: "What's mine is yours!",
    post: ObjectId("61754fb097992d1830bebf1f")
  },
  {
    _id: ObjectId("6175537097992d1830bebf23"),
    username: 'GoodGuyGreg',
    comment: "Don't violate the licensing agreement!",
    post: ObjectId("61754fb097992d1830bebf20")
  },
  {
    _id: ObjectId("6175537097992d1830bebf24"),
    username: 'ScumbagSteve',
    comment: "It still isn't clean",
    post: ObjectId("61754fb097992d1830bebf1b")
  },
  {
    _id: ObjectId("6175537097992d1830bebf25"),
    username: 'ScumbagSteve',
    comment: 'Denied your PR cause I found a hack',
    post: ObjectId("61754fb097992d1830bebf1d")
  }
]
Atlas atlas-1483qj-shard-0 [primary] mongo_practice>
```

6. find all comments that was authored by "GoodGuyGreg"
   ➢ db.comments.find({username:"GoodGuyGreg"})
7. find all comments that was authored by "ScumbagSteve"
   ➢ db.comments.find({username:"ScumbagSteve"})



```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.comments.find({username:"GoodGuyGreg"})
[
  {
    _id: ObjectId("6175537097992d1830bebf21"),
    username: 'GoodGuyGreg',
    comment: 'Hope you got a good deal!',
    post: ObjectId("61754fb097992d1830bebf1e")
  },
  {
    _id: ObjectId("6175537097992d1830bebf22"),
    username: 'GoodGuyGreg',
    comment: "What's mine is yours!",
    post: ObjectId("61754fb097992d1830bebf1f")
  },
  {
    _id: ObjectId("6175537097992d1830bebf23"),
    username: 'GoodGuyGreg',
    comment: "Don't violate the licensing agreement!",
    post: ObjectId("61754fb097992d1830bebf20")
  }
]
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.comments.find({username:"ScumbagSteve"})
[
  {
    _id: ObjectId("6175537097992d1830bebf24"),
    username: 'ScumbagSteve',
    comment: "It still isn't clean",
    post: ObjectId("61754fb097992d1830bebf1b")
  },
  {
    _id: ObjectId("6175537097992d1830bebf25"),
    username: 'ScumbagSteve',
    comment: 'Denied your PR cause I found a hack',
    post: ObjectId("61754fb097992d1830bebf1d")
  }
]
Atlas atlas-1483qj-shard-0 [primary] mongo_practice>
```

8. find all comments belonging to the post "Reports a bug in your code"
   ➢ db.comments.find({post: { $in: [ObjectId("61754fb097992d1830bebf1d")]}})

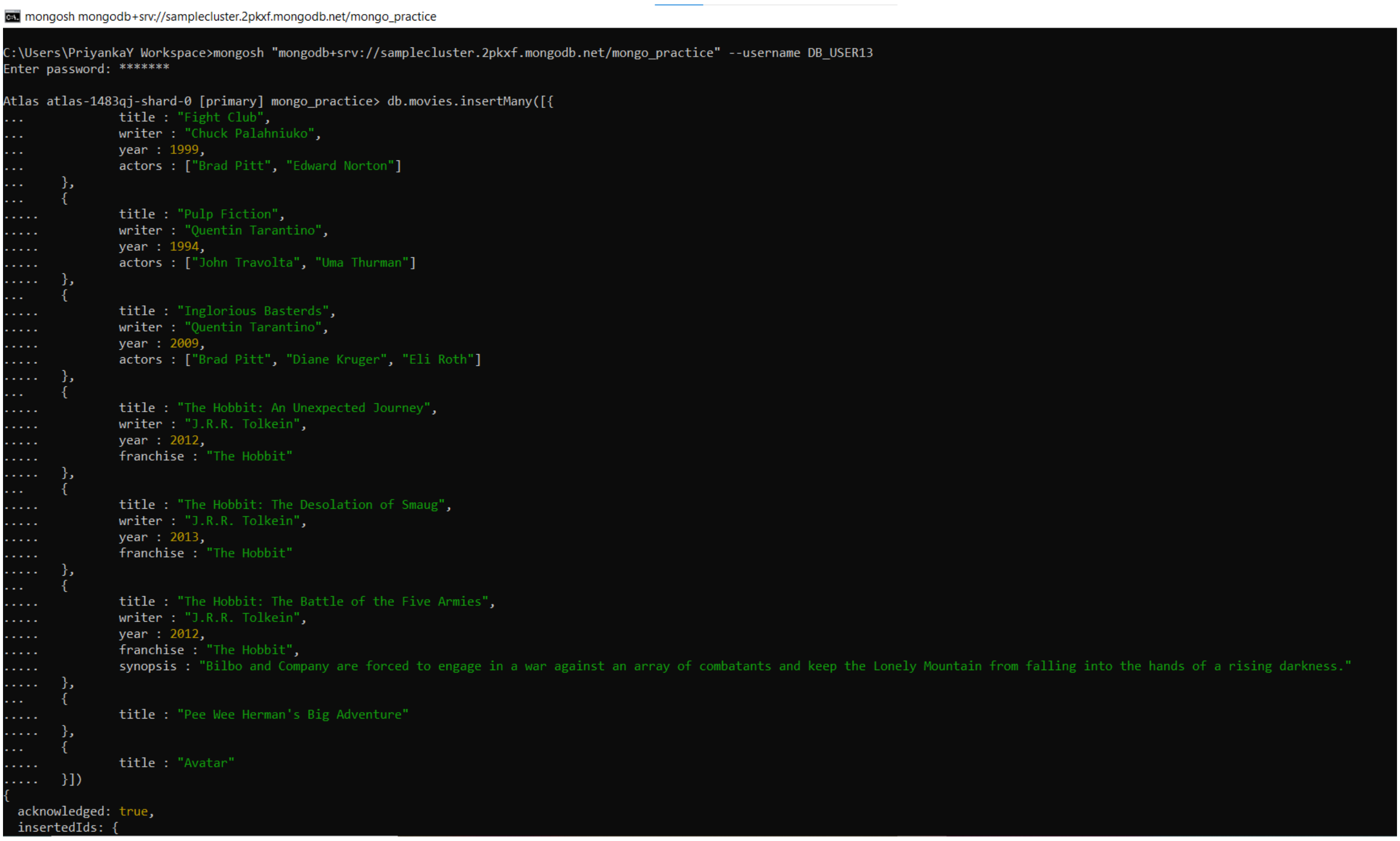


```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.comments.find({post: { $in: [ObjectId("61754fb097992d1830bebf1d")]}})
[
  {
    _id: ObjectId("6175537097992d1830bebf25"),
    username: 'ScumbagSteve',
    comment: 'Denied your PR cause I found a hack',
    post: ObjectId("61754fb097992d1830bebf1d")
  }
]
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> _
```

mongo_practice //database

movies //collection

```
([
        {
                title : "Fight Club",
                writer : "Chuck Palahniuko",
                year : 1999,
                actors : ["Brad Pitt", "Edward Norton"]
        },
        {
                title : "Pulp Fiction",
                writer : "Quentin Tarantino",
                year : 1994,
                actors : ["John Travolta", "Uma Thurman"]
        },
        {
                title : "Inglorious Basterds",
                writer : "Quentin Tarantino",
                year : 2009,
                actors : ["Brad Pitt", "Diane Kruger", "Eli Roth"]
        },
        {
                title : "The Hobbit: An Unexpected Journey",
                writer : "J.R.R. Tolkein",
                year : 2012,
                franchise : "The Hobbit"
        },
        {
                title : "The Hobbit: The Desolation of Smaug",
                writer : "J.R.R. Tolkein",
                year : 2013,
                franchise : "The Hobbit"
        },
        {
                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."

        },

        {

                title : "Pee Wee Herman's Big Adventure"

        },

        {

                title : "Avatar"

        }

])
```

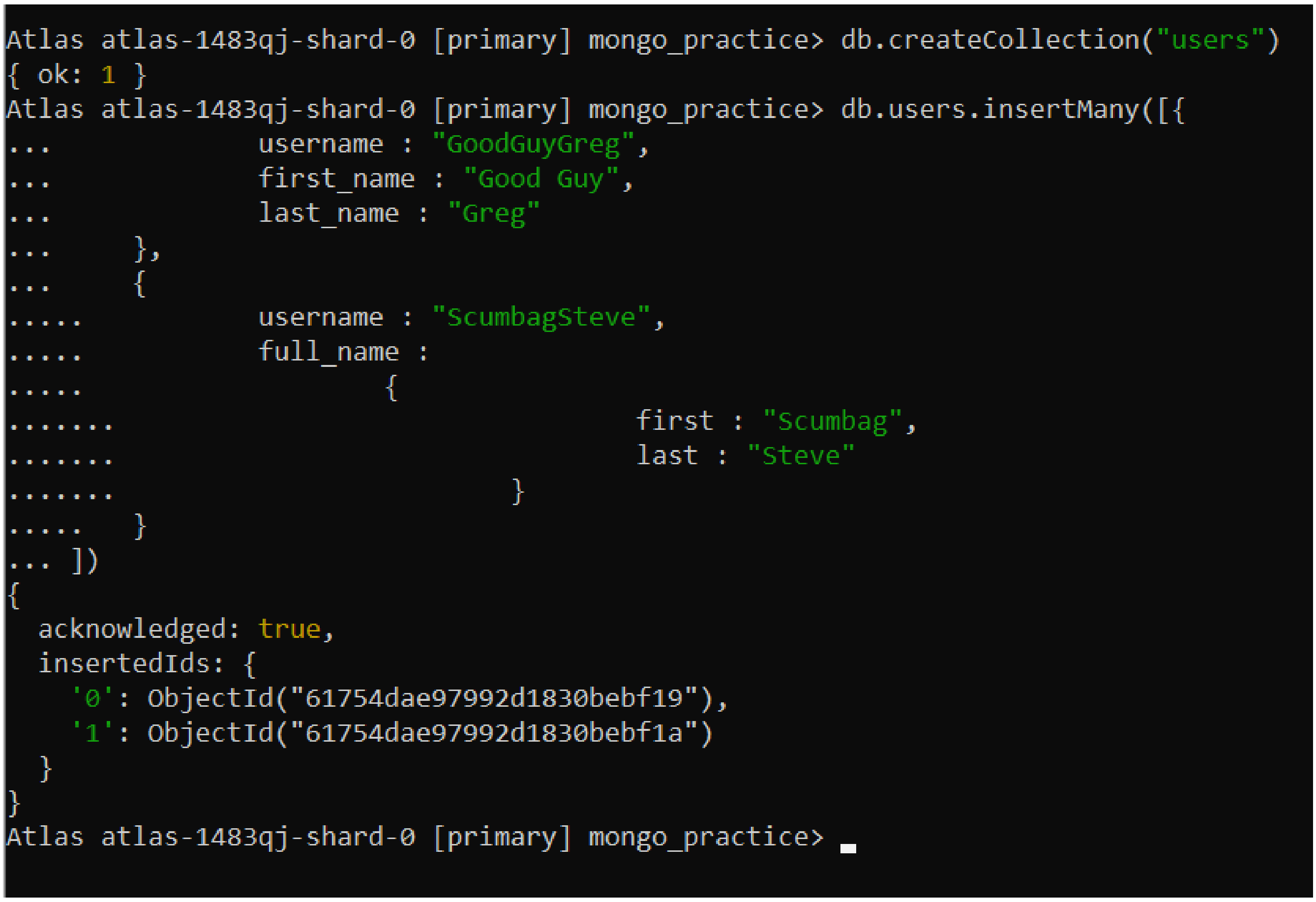


mongosh mongodb+srv://samplecluster.2pkxf.mongodb.net/mongo_practice

```
C:\Users\PriyankaY Workspace>mongosh "mongodb+srv://samplecluster.2pkxf.mongodb.net/mongo_practice" --username DB_USER13
Enter password: *******

Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.movies.insertMany([{
...             title : "Fight Club",
...             writer : "Chuck Palahniuko",
...             year : 1999,
...             actors : ["Brad Pitt", "Edward Norton"]
...     },
...     {
.....           title : "Pulp Fiction",
.....           writer : "Quentin Tarantino",
.....           year : 1994,
.....           actors : ["John Travolta", "Uma Thurman"]
.....   },
...     {
.....           title : "Inglorious Basterds",
.....           writer : "Quentin Tarantino",
.....           year : 2009,
.....           actors : ["Brad Pitt", "Diane Kruger", "Eli Roth"]
.....   },
...     {
.....           title : "The Hobbit: An Unexpected Journey",
.....           writer : "J.R.R. Tolkein",
.....           year : 2012,
.....           franchise : "The Hobbit"
.....   },
...     {
.....           title : "The Hobbit: The Desolation of Smaug",
.....           writer : "J.R.R. Tolkein",
.....           year : 2013,
.....           franchise : "The Hobbit"
.....   },
...     {
.....           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."
.....   },
...     {
.....           title : "Pee Wee Herman's Big Adventure"
.....   },
...     {
.....           title : "Avatar"
.....   }])
{
  acknowledged: true,
  insertedIds: {
```

Users //collection

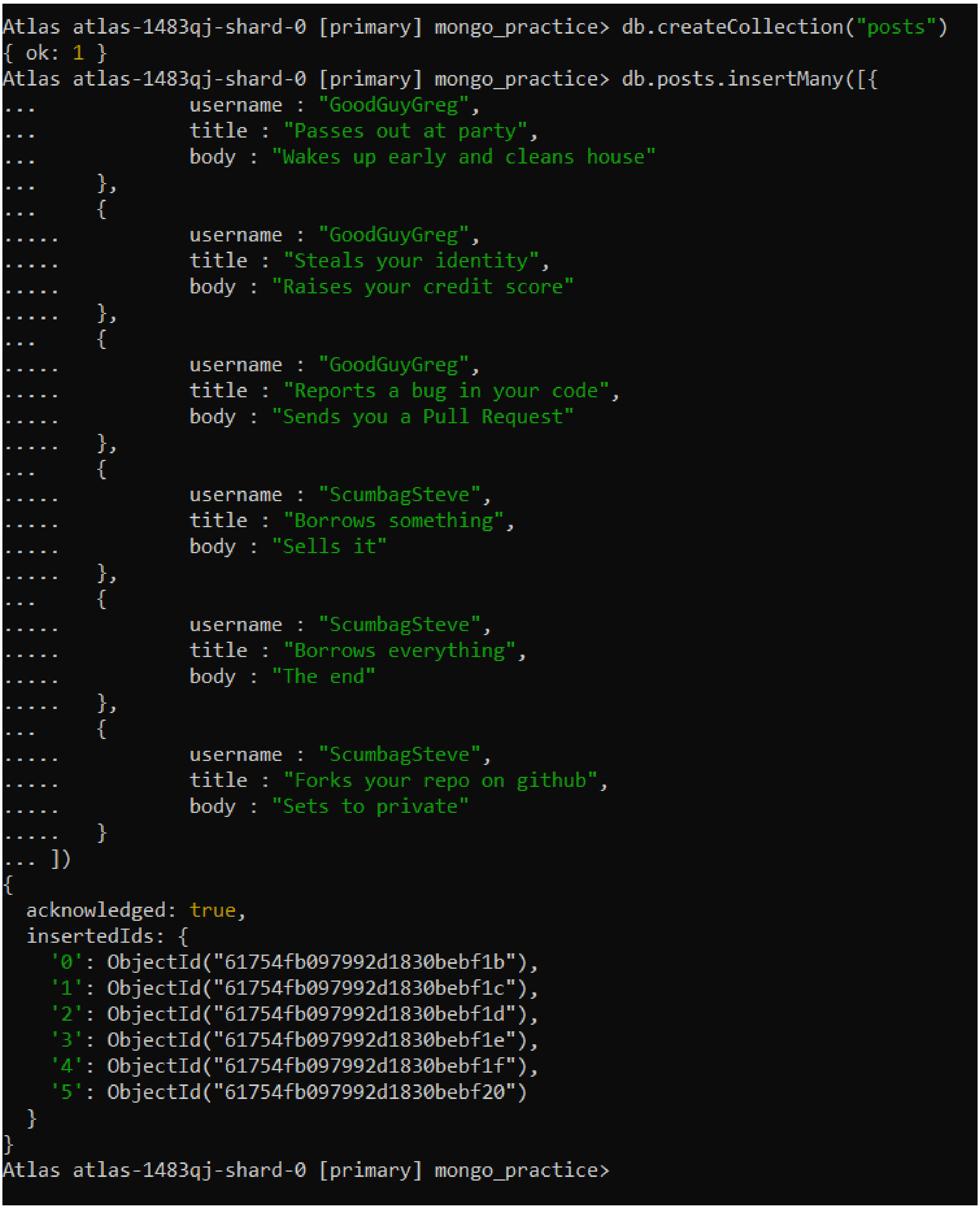
```
([
        {
                username : "GoodGuyGreg",
                first_name : "Good Guy",
                last_name : "Greg"
        },
        {
                username : "ScumbagSteve",
                full_name :
                        {
                                first : "Scumbag",
                                last : "Steve"
                        }
        }
])
```



```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.createCollection("users")
{ ok: 1 }
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.users.insertMany([{
...                username : "GoodGuyGreg",
...                first_name : "Good Guy",
...                last_name : "Greg"
...        },
...        {
.....              username : "ScumbagSteve",
.....              full_name :
.....                      {
.......                                       first : "Scumbag",
.......                                       last : "Steve"
.......                        }
.....      }
... ])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("61754dae97992d1830bebf19"),
    '1': ObjectId("61754dae97992d1830bebf1a")
  }
}
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> _
```

Posts //collection

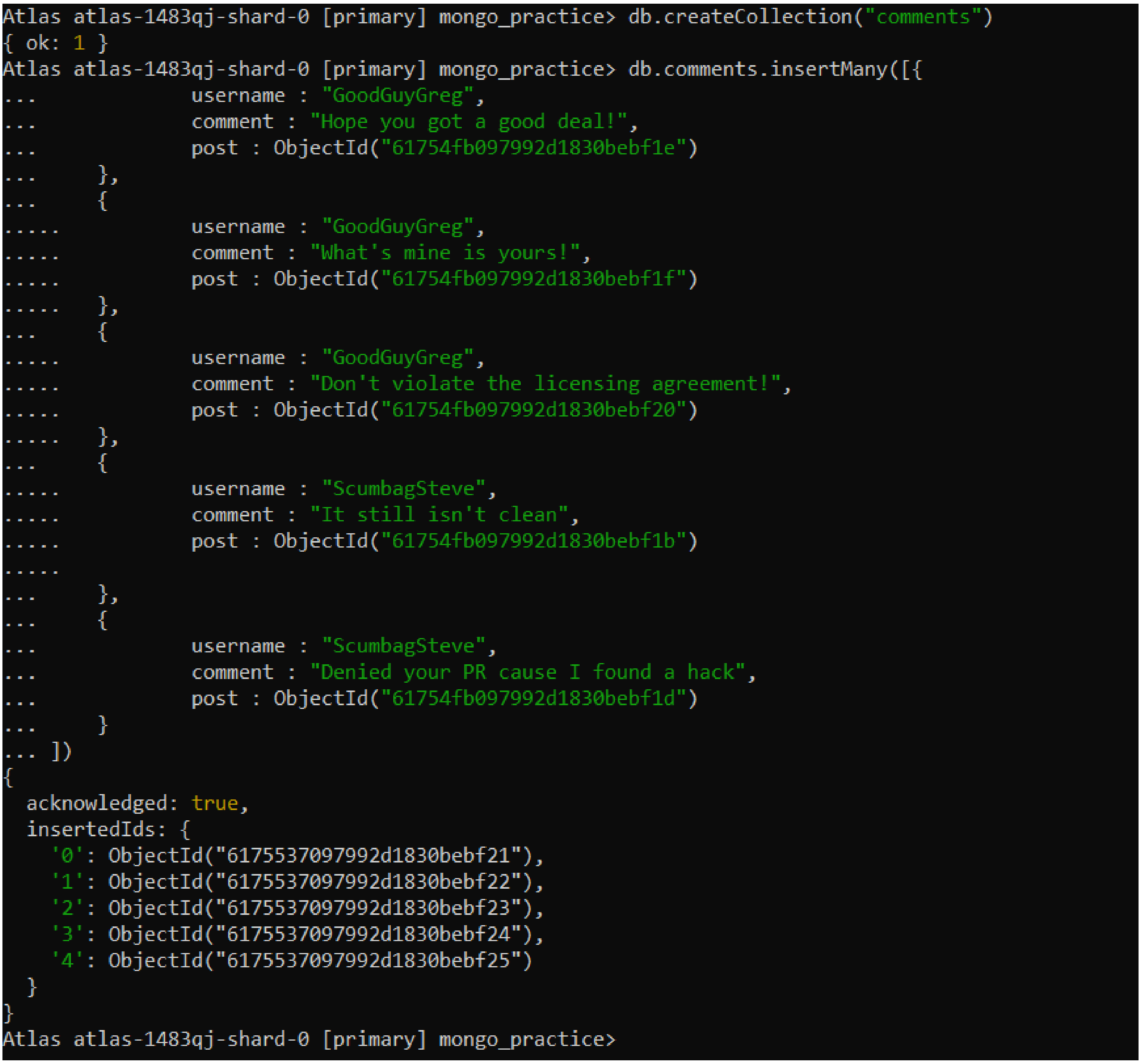
```
([
        {
                username : "GoodGuyGreg",
                title : "Passes out at party",
                body : "Wakes up early and cleans house"
        },
        {
                username : "GoodGuyGreg",
                title : "Steals your identity",
                body : "Raises your credit score"
        },
        {
                username : "GoodGuyGreg",
                title : "Reports a bug in your code",
                body : "Sends you a Pull Request"
        },
        {
                username : "ScumbagSteve",
                title : "Borrows something",
                body : "Sells it"
        },
        {
                username : "ScumbagSteve",
                title : "Borrows everything",
                body : "The end"
        },
        {
                username : "ScumbagSteve",
                title : "Forks your repo on github",
                body : "Sets to private"
        }
])
```



```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.createCollection("posts")
{ ok: 1 }
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.posts.insertMany([{
...             username : "GoodGuyGreg",
...             title : "Passes out at party",
...             body : "Wakes up early and cleans house"
...     },
...     {
.....           username : "GoodGuyGreg",
.....           title : "Steals your identity",
.....           body : "Raises your credit score"
.....   },
...     {
.....           username : "GoodGuyGreg",
.....           title : "Reports a bug in your code",
.....           body : "Sends you a Pull Request"
.....   },
...     {
.....           username : "ScumbagSteve",
.....           title : "Borrows something",
.....           body : "Sells it"
.....   },
...     {
.....           username : "ScumbagSteve",
.....           title : "Borrows everything",
.....           body : "The end"
.....   },
...     {
.....           username : "ScumbagSteve",
.....           title : "Forks your repo on github",
.....           body : "Sets to private"
.....   }
... ])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("61754fb097992d1830bebf1b"),
    '1': ObjectId("61754fb097992d1830bebf1c"),
    '2': ObjectId("61754fb097992d1830bebf1d"),
    '3': ObjectId("61754fb097992d1830bebf1e"),
    '4': ObjectId("61754fb097992d1830bebf1f"),
    '5': ObjectId("61754fb097992d1830bebf20")
  }
}
Atlas atlas-1483qj-shard-0 [primary] mongo_practice>
```

Comments //collection

```
([
        {
                username : "GoodGuyGreg",
                comment : "Hope you got a good deal!",
                post : ObjectId("61754fb097992d1830bebf1e")
        },
        {
                username : "GoodGuyGreg",
                comment : "What's mine is yours!",
                post : ObjectId("61754fb097992d1830bebf1f")
        },
        {
                username : "GoodGuyGreg",
                comment : "Don't violate the licensing agreement!",
                post : ObjectId("61754fb097992d1830bebf20")
        },
        {
                username : "ScumbagSteve",
                comment : "It still isn't clean",
                post : ObjectId("61754fb097992d1830bebf1b")

        },
        {
                username : "ScumbagSteve",
                comment : "Denied your PR cause I found a hack",
                post : ObjectId("61754fb097992d1830bebf1d")
        }
])
```



```
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.createCollection("comments")
{ ok: 1 }
Atlas atlas-1483qj-shard-0 [primary] mongo_practice> db.comments.insertMany([{
...             username : "GoodGuyGreg",
...             comment : "Hope you got a good deal!",
...             post : ObjectId("61754fb097992d1830bebf1e")
...     },
...     {
.....           username : "GoodGuyGreg",
.....           comment : "What's mine is yours!",
.....           post : ObjectId("61754fb097992d1830bebf1f")
.....   },
...     {
.....           username : "GoodGuyGreg",
.....           comment : "Don't violate the licensing agreement!",
.....           post : ObjectId("61754fb097992d1830bebf20")
.....   },
...     {
.....           username : "ScumbagSteve",
.....           comment : "It still isn't clean",
.....           post : ObjectId("61754fb097992d1830bebf1b")
.....
...     },
...     {
...             username : "ScumbagSteve",
...             comment : "Denied your PR cause I found a hack",
...             post : ObjectId("61754fb097992d1830bebf1d")
...     }
... ])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("6175537097992d1830bebf21"),
    '1': ObjectId("6175537097992d1830bebf22"),
    '2': ObjectId("6175537097992d1830bebf23"),
    '3': ObjectId("6175537097992d1830bebf24"),
    '4': ObjectId("6175537097992d1830bebf25")
  }
}
Atlas atlas-1483qj-shard-0 [primary] mongo_practice>
```