

```
> use mongo_practice
switched to db mongo_practice
> db.createCollection("movies")
{"ok" : 1}
```

```
CA\Program Files\MongoDB\Server\4.2\bin\mongo.exe
> db.movies.insert({"title":"Fight Club","writer":"Chuck Palahniuko","year":1999,"actors":["Brad Pitt","Edward Norton"]})
WriteResult({"nInserted" : 1 })
> db.movies.insert({"title":"Pulp Fiction","writer":"Quentin Tarantino","year":1994,"actors":["John Travolta","Uma Thurman"]})
WriteResult({"nInserted" : 1 })
> db.movies.insert({"title":"Inglorious Basterds","writer":"Quentin Tarantino","year":2009,"actors":["Brad Pitt","Diane Kruger","Eli Roth"]})
WriteResult({"nInserted" : 1 })
> db.movies.insert({"title":"The Hobbit An Unexpected Joumey","writer":"J.R.R. Tolkein","year":2012,"franchise":"The Hobbit"})
2021-03-12T16:44:44.823+0530 E QUERY [js] uncaught exception: SyntaxError: missing : after property id :
@ (shell):1:110
> db.movies.insert({"title":"The Hobbit An Unexpected Joumey","writer":"J.R.R. Tolkein","year":2012,"franchise":"The Hobbit"})
2021-03-12T16:45:00.651+0530 E QUERY [js] uncaught exception: SyntaxError: missing } after property list :
@ (shell):1:114
> db.movies.insert({"title":"The Hobbit An Unexpected Joumey","writer":"J.R.R. Tolkein","year":2012,"franchise":"The Hobbit"})
WriteResult({"nInserted" : 1 })
> db.movies.insert({"title":"The Hobbit The Desolation of Smaug","writer":"J.R.R. Tolkein","year":2013,"franchise":"The Hobbit"})
WriteResult({"nInserted" : 1 })
> 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 darkness"})
WriteResult({"nInserted" : 1 })
> db.movies.insert({"title":"Pee Wee Herman's Big Adventure"})
WriteResult({"nInserted" : 1 })
> db.movies.insert({"title":"Avatar"})
WriteResult({"nInserted" : 1 })
> ) db.movies.find().pretty()
2021-03-12T16:52:23.378+0530 E QUERY [js] uncaught exception: SyntaxError: expected expression, got ')' :
@ (shell):1:0
> db.movies.find().pretty()
{
  "_id" : ObjectId("604b4cea665c2efa27aefcc3"),
  "title" : "Fight Club",
  "writer" : "Chuck Palahniuko",
  "year" : 1999,
  "actors" : [
    "Brad Pitt",
    "Edward Norton"
  ]
}
{
  "_id" : ObjectId("604b4cf9665c2efa27aefcc4"),
  "title" : "Pulp Fiction",
  "writer" : "Quentin Tarantino",

```

```
C:\Program Files\MongoDB\Server\4.2\bin\mongo.exe
{
  "_id" : ObjectId("604b4cf9665c2efa27aefcc4"),
  "title" : "Pulp Fiction",
  "writer" : "Quentin Tarantino",
  "year" : 1994,
  "actors" : [
    "John Travolta",
    "Uma Thurman"
  ]
}

{
  "_id" : ObjectId("604b4d16665c2efa27aefcc5"),
  "title" : "Inglorious Basterds",
  "writer" : "Quentin Tarantino",
  "year" : 2009,
  "actors" : [
    "Brad Pitt",
    "Diane Kruger",
    "Eli Roth"
  ]
}

{
  "_id" : ObjectId("604b4d4a665c2efa27aefcc6"),
  "title" : "The Hobbit An Unexpected Journey",
  "writer" : "J.R.R. Tolkien",
  "year" : 2012,
  "franchise" : "The Hobbit"
}

{
  "_id" : ObjectId("604b4d75665c2efa27aefcc7"),
  "title" : "The Hobbit The Desolation of Smaug",
  "writer" : "J.R.R. Tolkien",
  "year" : 2013,
  "franchise" : "The Hobbit"
}

{
  "_id" : ObjectId("604b4da9665c2efa27aefcc8"),
  "title" : "The Hobbit The Battle of the Five Armies",
  "writer" : "J.R.R. Tolkien",
  "year" : 2012,
  "franchise" : "The Hobbit"
}
```

```
C:\Program Files\MongoDB\Server\4.2\bin\mongo.exe
{
  "title" : "The Hobbit The Desolation of Smaug",
  "writer" : "J.R.R. Tolkien",
  "year" : 2013,
  "franchise" : "The Hobbit"
}

{
  "_id" : ObjectId("604b4da9665c2efa27aefcc8"),
  "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"
}

{
  "_id" : ObjectId("604b4dbf665c2efa27aefcc9"),
  "title" : "Pee Wee Herman's Big Adventure"
}

{ "_id" : ObjectId("604b4dc7665c2efa27aefcca"), "title" : "Avatar" }

> db.movies.find({writer:"Quentin Tarantino"})
{ "_id" : ObjectId("604b4cf9665c2efa27aefcc4"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantino", "year" : 1994, "actors" : [ "John Travolta", "Uma Thurman" ] }
{ "_id" : ObjectId("604b4d16665c2efa27aefcc5"), "title" : "Inglorious Basterds", "writer" : "Quentin Tarantino", "year" : 2009, "actors" : [ "Brad Pitt", "Diane Kruger", "Eli Roth" ] }

> db.movies.find({actors:"Brad Pitt"})
{ "_id" : ObjectId("604b4cea665c2efa27aefcc3"), "title" : "Fight Club", "writer" : "Chuck Palahniuko", "year" : 1999, "actors" : [ "Brad Pitt", "Edward Norton" ] }
{ "_id" : ObjectId("604b4d16665c2efa27aefcc5"), "title" : "Inglorious Basterds", "writer" : "Quentin Tarantino", "year" : 2009, "actors" : [ "Brad Pitt", "Diane Kruger", "Eli Roth" ] }

> db.movies.find({franchise:"The Hobbit"})
{ "_id" : ObjectId("604b4d4a665c2efa27aefcc6"), "title" : "The Hobbit An Unexpected Journey", "writer" : "J.R.R. Tolkien", "year" : 2012, "franchise" : "The Hobbit" }
{ "_id" : ObjectId("604b4d75665c2efa27aefcc7"), "title" : "The Hobbit The Desolation of Smaug", "writer" : "J.R.R. Tolkien", "year" : 2013, "franchise" : "The Hobbit" }
{ "_id" : ObjectId("604b4da9665c2efa27aefcc8"), "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" }
}
```

```
C:\Program Files\MongoDB\Server\4.2\bin\mongo.exe
> db.movies.find({year:{$lt:2000}})
{ "_id" : ObjectId("604b4cea665c2efa27aefcc3"), "title" : "Fight Club", "writer" : "Chuck Palahniuko", "year" : 1999, "actors" : [ "Brad Pitt", "Edward Norton" ] }
{ "_id" : ObjectId("604b4cf9665c2efa27aefcc4"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantino", "year" : 1994, "actors" : [ "John Travolta", "Uma Thurman" ] }
}
```

```
C:\Program Files\MongoDB\Server\4.2\bin\mongo.exe
> db.movies.find({$or:[{"year":{$lt:"2000"}}, {"year":{$gt:"2010"}}]})
> db.movies.find({$or:[{"year":{$lt:2000}}, {"year":{$gt:2010}}]})
{ "_id" : ObjectId("604b4cea665c2efa27aefcc3"), "title" : "Fight Club", "writer" : "Chuck Palahniuko", "year" : 1999, "actors" : [ "Brad Pitt", "Edward Norton" ] }
{ "_id" : ObjectId("604b4cf9665c2efa27aefcc4"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantino", "year" : 1994, "actors" : [ "John Travolta", "Uma Thurman" ] }
{ "_id" : ObjectId("604b4d16665c2efa27aefcc5"), "title" : "Inglorious Basterds", "writer" : "Quentin Tarantino", "year" : 2009, "actors" : [ "Brad Pitt", "Diane Kruger", "Eli Roth" ] }
{ "_id" : ObjectId("604b4d4a665c2efa27aefcc6"), "title" : "The Hobbit An Unexpected Journey", "writer" : "J.R.R. Tolkien", "year" : 2012, "franchise" : "The Hobbit" }
{ "_id" : ObjectId("604b4d75665c2efa27aefcc7"), "title" : "The Hobbit The Desolation of Smaug", "writer" : "J.R.R. Tolkien", "year" : 2013, "franchise" : "The Hobbit" }
{ "_id" : ObjectId("604b4da9665c2efa27aefcc8"), "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" }
}
```

```

C:\Program Files\MongoDB\Server\4.2\bin\mongo.exe
> db.movies.find({$or:[{"year":{$lt:2000}},{"year":{$gt:2010}}]})
{ "_id" : ObjectId("604b4cea665c2efa27aefcc3"), "title" : "Fight Club", "writer" : "Chuck Palahniuko", "year" : 1999, "actors" : [ "Brad Pitt", "Edward Norton" ] }
{ "_id" : ObjectId("604b4dcf9665c2efa27aefcc4"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantino", "year" : 1994, "actors" : [ "John Travolta", "Uma Thurman" ] }
{ "_id" : ObjectId("604b4d4a665c2efa27aefcc6"), "title" : "The Hobbit An Unexpected Journey", "writer" : "J.R.R. Tolkien", "year" : 2012, "franchise" : "The Hobbit" }
{ "_id" : ObjectId("604b4d75665c2efa27aefcc7"), "title" : "The Hobbit The Desolation of Smaug", "writer" : "J.R.R. Tolkien", "year" : 2013, "franchise" : "The Hobbit" }
{ "_id" : ObjectId("604b4da9665c2efa27aefcc8"), "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" }
}

> db.movies.update({"title":"The Hobbit An Unexpected Journey","writer":"J.R.R. Tolkien","year":2012,"franchise":"The Hobbit"}, {"title":"The Hobbit An Unexpected Journey","writer":"J.R.R. Tolkien","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"});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>

```

```

C:\Program Files\MongoDB\Server\4.2\bin\mongo.exe
>
> db.movies.update({"title":"The Hobbit An Unexpected Journey","writer":"J.R.R. Tolkien","year":2012,"franchise":"The Hobbit"}, {"title":"The Hobbit An Unexpected Journey","writer":"J.R.R. Tolkien","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"});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.movies.find({"title":"The Hobbit An Unexpected Journey"})
{ "_id" : ObjectId("604b4d4a665c2efa27aefcc6"), "title" : "The Hobbit An Unexpected Journey", "writer" : "J.R.R. Tolkien", "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" }
}

> db.movies.update({"title":"The Hobbit The Desolation of Smaug","writer":"J.R.R. Tolkien","year":2013,"franchise":"The Hobbit"}, {"title":"The Hobbit The Desolation of Smaug","writer":"J.R.R. Tolkien","year":2013,"franchise":"The Hobbit","synopsis":"The dwarves along with the 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"});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.movies.find({"title":"The Hobbit The Desolation of Smaug"})
{ "_id" : ObjectId("604b4d75665c2efa27aefcc7"), "title" : "The Hobbit The Desolation of Smaug", "writer" : "J.R.R. Tolkien", "year" : 2013, "franchise" : "The Hobbit", "synopsis" : "The dwarves along with the 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.update({"title":"Pulp Fiction"}, {"actors":["John Travolta","Uma Thurman","Samuel L Jackson"]})
WriteResult({ "nMatched" : 0, "nUpserted" : 0, "nModified" : 0 })
> db.movies.update({"title":"Pulp Fiction"}, {"actors":["John Travolta","Uma Thurman","Samuel L Jackson"]})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.movies.find({"title":"Pulp Fiction"})
{ "_id" : ObjectId("604b4dcf9665c2efa27aefcc4"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantino", "year" : 1994, "actors" : [ "John Travolta", "Uma Thurman", "Samuel L Jackson" ] }
}
>

```

```

C:\Program Files\MongoDB\Server\4.2\bin\mongo.exe
> db.movies.find({})
{ "_id" : ObjectId("604b4cea665c2efa27aefcc3"), "title" : "Fight Club", "writer" : "Chuck Palahniuko", "year" : 1999, "actors" : [ "Brad Pitt", "Edward Norton" ] }
{ "_id" : ObjectId("604b4dcf9665c2efa27aefcc4"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantino", "year" : 1994, "actors" : [ "John Travolta", "Uma Thurman", "Samuel L Jackson" ] }
{ "_id" : ObjectId("604b4d16665c2efa27aefcc5"), "title" : "Inglorious Basterds", "writer" : "Quentin Tarantino", "year" : 2009, "actors" : [ "Brad Pitt", "Diane Kruger", "Eli Roth" ] }
{ "_id" : ObjectId("604b4d4a665c2efa27aefcc6"), "title" : "The Hobbit An Unexpected Journey", "writer" : "J.R.R. Tolkien", "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("604b4d75665c2efa27aefcc7"), "title" : "The Hobbit The Desolation of Smaug", "writer" : "J.R.R. Tolkien", "year" : 2013, "franchise" : "The Hobbit", "synopsis" : "The dwarves along with the 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("604b4da9665c2efa27aefcc8"), "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" }
{ "_id" : ObjectId("604b4dbf665c2efa27aefcc9"), "title" : "Pee Wee Herman's Big Adventure" }
{ "_id" : ObjectId("604b4dc7665c2efa27aefcca"), "title" : "Avatar" }
}
>

```

```

C:\Program Files\MongoDB\Server\4.2\bin\mongo.exe
>
> db.movies.find({synopsis:{$regex:"Bilbo"}})
{ "_id" : ObjectId("604b4d4a665c2efa27aefcc6"), "title" : "The Hobbit An Unexpected Journey", "writer" : "J.R.R. Tolkien", "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("604b4d75665c2efa27aefcc7"), "title" : "The Hobbit The Desolation of Smaug", "writer" : "J.R.R. Tolkien", "year" : 2013, "franchise" : "The Hobbit", "synopsis" : "The dwarves along with the 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("604b4da9665c2efa27aefcc8"), "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" }
}

> db.movies.find({synopsis:{$regex:"Gandalf"}})
{ "_id" : ObjectId("604b4d75665c2efa27aefcc7"), "title" : "The Hobbit The Desolation of Smaug", "writer" : "J.R.R. Tolkien", "year" : 2013, "franchise" : "The Hobbit", "synopsis" : "The dwarves along with the 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.find({$and:[{synopsis:{$regex:"Bilbo"}}, {synopsis:{$not:/Gandalf/}}]})
{ "_id" : ObjectId("604b4d4a665c2efa27aefcc6"), "title" : "The Hobbit An Unexpected Journey", "writer" : "J.R.R. Tolkien", "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("604b4da9665c2efa27aefcc8"), "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" }
}

> db.movies.find({$or:[{synopsis:{$regex:"dwarves"}}, {synopsis:{$regex:"hobbit"}}]})
{ "_id" : ObjectId("604b4d4a665c2efa27aefcc6"), "title" : "The Hobbit An Unexpected Journey", "writer" : "J.R.R. Tolkien", "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("604b4d75665c2efa27aefcc7"), "title" : "The Hobbit The Desolation of Smaug", "writer" : "J.R.R. Tolkien", "year" : 2013, "franchise" : "The Hobbit", "synopsis" : "The dwarves along with the 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.find({$and:[{synopsis:{$regex:"gold"}}, {synopsis:{$regex:"dragon"}}]})
{ "_id" : ObjectId("604b4d4a665c2efa27aefcc6"), "title" : "The Hobbit An Unexpected Journey", "writer" : "J.R.R. Tolkien", "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" }
}
>

```

```
C:\Program Files\MongoDB\Server\4.2\bin\mongo.exe
> db.movies.remove({title:"Pee Wee Herman's Big Adventure"})
WriteResult({ "nRemoved" : 1 })
> db.movies.remove({title:"Avatar"})
WriteResult({ "nRemoved" : 1 })
>
_

C:\Program Files\MongoDB\Server\4.2\bin\mongo.exe
>
>
>
> db.users.find()
{ "_id" : ObjectId("604baea29662067d5f484150"), "username" : "GoodGuyGreg", "first_name" : "Good Guy", "last_name" : "Greg" }
{ "_id" : ObjectId("604baea29662067d5f484151"), "username" : "ScumbagSteve", "fullname" : { "first" : "Scumbag", "last" : "Steve" } }
> db.posts.find()
{ "_id" : ObjectId("604baea29662067d5f484152"), "username" : "GoodGuyGreg", "title" : "Passes out at Party", "body" : "Wakes up early and cleans house" }
{ "_id" : ObjectId("604baea29662067d5f484153"), "username" : "GoodGuyGreg", "title" : "Steals your identity", "body" : "Raises your credit score" }
{ "_id" : ObjectId("604baea29662067d5f484154"), "username" : "GoodGuyGreg", "title" : "Reports a bug in your code", "body" : "Sends you a pull request" }
{ "_id" : ObjectId("604baea29662067d5f484155"), "username" : "ScumbagSteve", "title" : "Borrows something", "body" : "Sells it" }
{ "_id" : ObjectId("604baea29662067d5f484156"), "username" : "ScumbagSteve", "title" : "Borrows everything", "body" : "The end" }
{ "_id" : ObjectId("604baea29662067d5f484157"), "username" : "ScumbagSteve", "title" : "Forks your repo on github", "body" : "Sets to private" }
>
> db.comments.insert({ username:"GoodGuyGreg", comment:"Hope you got a good deal!", post:ObjectId("604baea29662067d5f484155")})
WriteResult({ "nInserted" : 1 })
> db.comments.insert({username:"GoodGuyGreg", comment:"What's mine is yours!", post:ObjectId("604baea29662067d5f484156")})
WriteResult({ "nInserted" : 1 })
> db.comments.insert({username:"GoodGuyGreg", comment:"Don't violate the licensing agreement!", post:ObjectId("604baea29662067d5f484157")})
WriteResult({ "nInserted" : 1 })
> db.comments.insert({username:"ScumbagSteve", comment:"It still isn't clean", post:ObjectId("604baea29662067d5f484152")})
WriteResult({ "nInserted" : 1 })
> db.comments.insert({username:"ScumbagSteve", comment:"Denied your PR cause I found a hack", post:ObjectId("604baea29662067d5f484154")})
WriteResult({ "nInserted" : 1 })
>
_
```

```
C:\Program Files\MongoDB\Server\4.2\bin\mongo.exe
> db.users.find().pretty()
{
  "_id" : ObjectId("604baea29662067d5f484150"),
  "username" : "GoodGuyGreg",
  "first_name" : "Good Guy",
  "last_name" : "Greg"
}
{
  "_id" : ObjectId("604baea29662067d5f484151"),
  "username" : "ScumbagSteve",
  "fullname" : {
    "first" : "Scumbag",
    "last" : "Steve"
  }
}
> db.posts.find().pretty()
{
  "_id" : ObjectId("604baea29662067d5f484152"),
  "username" : "GoodGuyGreg",
  "title" : "Passes out at Party",
  "body" : "Wakes up early and cleans house"
}
{
  "_id" : ObjectId("604baea29662067d5f484153"),
  "username" : "GoodGuyGreg",
  "title" : "Steals your identity",
  "body" : "Raises your credit score"
}
{
  "_id" : ObjectId("604baea29662067d5f484154"),
  "username" : "GoodGuyGreg",
  "title" : "Reports a bug in your code",
  "body" : "Sends you a pull request"
}
{
  "_id" : ObjectId("604baea29662067d5f484155"),
  "username" : "ScumbagSteve",
  "title" : "Borrows something",
  "body" : "Sells it"
}
```

```
C:\Program Files\MongoDB\Server\4.2\bin\mongo.exe
{
  "_id" : ObjectId("604baea29662067d5f484155"),
  "username" : "ScumbagSteve",
  "title" : "Borrows something",
  "body" : "Sells it"
}
{
  "_id" : ObjectId("604baea29662067d5f484156"),
  "username" : "ScumbagSteve",
  "title" : "Borrows everything",
  "body" : "The end"
}
{
  "_id" : ObjectId("604baea29662067d5f484157"),
  "username" : "ScumbagSteve",
  "title" : "Forks your repo on github",
  "body" : "Sets to private"
}
> db.posts.find({username:"GoodGuyGreg"})
{ "_id" : ObjectId("604baea29662067d5f484152"), "username" : "GoodGuyGreg", "title" : "Passes out at Party", "body" : "Wakes up early and cleans house" }
{ "_id" : ObjectId("604baea29662067d5f484153"), "username" : "GoodGuyGreg", "title" : "Steals your identity", "body" : "Raises your credit score" }
{ "_id" : ObjectId("604baea29662067d5f484154"), "username" : "GoodGuyGreg", "title" : "Reports a bug in your code", "body" : "Sends you a pull request" }
> db.posts.find({username:"ScumbagSteve"})
{ "_id" : ObjectId("604baea29662067d5f484155"), "username" : "ScumbagSteve", "title" : "Borrows something", "body" : "Sells it" }
{ "_id" : ObjectId("604baea29662067d5f484156"), "username" : "ScumbagSteve", "title" : "Borrows everything", "body" : "The end" }
{ "_id" : ObjectId("604baea29662067d5f484157"), "username" : "ScumbagSteve", "title" : "Forks your repo on github", "body" : "Sets to private" }
> db.comments.find().pretty()
{
  "_id" : ObjectId("604bb2df9662067d5f484158"),
  "username" : "GoodGuyGreg",
  "comment" : "Hope you got a good deal!",
  "post" : ObjectId("604baea29662067d5f484155")
}
{
  "_id" : ObjectId("604bb2df9662067d5f484159"),
  "username" : "GoodGuyGreg",
  "comment" : "What's mine is yours!",
  "post" : ObjectId("604baea29662067d5f484156")
}
```



```
C:\Program Files\MongoDB\Server\4.2\bin\mongo.exe
{
  "_id" : ObjectId("604bb39a9662067d5f48415e"),
  "username" : "GoodGuyGreg",
  "comment" : "What's mine is yours!",
  "post" : ObjectId("604baea29662067d5f484156")
}
{
  "_id" : ObjectId("604bb3aa9662067d5f48415f"),
  "username" : "GoodGuyGreg",
  "comment" : "Don't violate the licensing agreement!",
  "post" : ObjectId("604baea29662067d5f484157")
}
{
  "_id" : ObjectId("604bb3b79662067d5f484160"),
  "username" : "ScumbagSteve",
  "comment" : "It still isn't clean",
  "post" : ObjectId("604baea29662067d5f484152")
}
{
  "_id" : ObjectId("604bb3c49662067d5f484161"),
  "username" : "ScumbagSteve",
  "comment" : "Denied your PR cause I found a hack",
  "post" : ObjectId("604baea29662067d5f484154")
}
> db.comments.find({username:"GoodGuyGreg"})
{ "_id" : ObjectId("604bb2df9662067d5f484158"), "username" : "GoodGuyGreg", "comment" : "Hope you got a good deal!", "post" : ObjectId("604baea29662067d5f484155") }
{ "_id" : ObjectId("604bb2df9662067d5f484159"), "username" : "GoodGuyGreg", "comment" : "What's mine is yours!", "post" : ObjectId("604baea29662067d5f484156") }
{ "_id" : ObjectId("604bb2df9662067d5f48415a"), "username" : "GoodGuyGreg", "comment" : "Don't violate the licensing agreement!", "post" : ObjectId("604baea29662067d5f484157") }
{ "_id" : ObjectId("604bb3889662067d5f48415d"), "username" : "GoodGuyGreg", "comment" : "Hope you got a good deal!", "post" : ObjectId("604baea29662067d5f484155") }
{ "_id" : ObjectId("604bb39a9662067d5f48415e"), "username" : "GoodGuyGreg", "comment" : "What's mine is yours!", "post" : ObjectId("604baea29662067d5f484156") }
{ "_id" : ObjectId("604bb3aa9662067d5f48415f"), "username" : "GoodGuyGreg", "comment" : "Don't violate the licensing agreement!", "post" : ObjectId("604baea29662067d5f484157") }
}
> db.comments.find({username:"ScumbagSteve"})
{ "_id" : ObjectId("604bb2df9662067d5f48415b"), "username" : "ScumbagSteve", "comment" : "It still isn't clean", "post" : ObjectId("604baea29662067d5f484152") }
{ "_id" : ObjectId("604bb3559662067d5f48415c"), "username" : "ScumbagSteve", "comment" : "Denied your PR cause I found a hack", "post" : ObjectId("604baea29662067d5f484154") }
{ "_id" : ObjectId("604bb3b79662067d5f484160"), "username" : "ScumbagSteve", "comment" : "It still isn't clean", "post" : ObjectId("604baea29662067d5f484152") }
{ "_id" : ObjectId("604bb3c49662067d5f484161"), "username" : "ScumbagSteve", "comment" : "Denied your PR cause I found a hack", "post" : ObjectId("604baea29662067d5f484154") }
}

C:\Program Files\MongoDB\Server\4.2\bin\mongo.exe
{ "_id" : ObjectId("604bb3b79662067d5f484160"), "username" : "ScumbagSteve", "comment" : "It still isn't clean", "post" : ObjectId("604baea29662067d5f484152") }
{ "_id" : ObjectId("604bb3c49662067d5f484161"), "username" : "ScumbagSteve", "comment" : "Denied your PR cause I found a hack", "post" : ObjectId("604baea29662067d5f484154") }
}
> db.posts.aggregate([
... {
... $match: { title: 'Reports a bug in your code' }
... },
... {
... $lookup: {
... from: 'comments',
... localField: '_id',
... foreignField: 'post',
... as: 'comments'
... },
... },
... ]).pretty();
{
  "_id" : ObjectId("604baea29662067d5f484154"),
  "username" : "GoodGuyGreg",
  "title" : "Reports a bug in your code",
  "body" : "Sends you a pull request",
  "comments" : [
    {
      "_id" : ObjectId("604bb3559662067d5f48415c"),
      "username" : "ScumbagSteve",
      "comment" : "Denied your PR cause I found a hack",
      "post" : ObjectId("604baea29662067d5f484154")
    },
    {
      "_id" : ObjectId("604bb3c49662067d5f484161"),
      "username" : "ScumbagSteve",
      "comment" : "Denied your PR cause I found a hack",
      "post" : ObjectId("604baea29662067d5f484154")
    }
  ]
}
```