

MongoDB Lab Assignments -Day 1

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

```
C:\Windows\System32\cmd.exe - mongo
> db.movies.insert([{"title":"Flight 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.Tolkien",year:2012,franchise:"The Hobbit"}, {"title":"The Hobbit:The Desolation of Smaug",writer:"J.R.R.tolkien",year:2013,franchise:"The Hobbit"}, {"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"}, {"title":"Pee Wee Herman's Big Adventure"}, {"title":"Avatat"}])
BulkWriteResult({nInserted:8,nUpserted:0,nMatched:0,nModified:0,nRemoved:0,nUpserted:[ ]})
> db.movies.find().pretty()
{
  "_id" : ObjectId("61753271aa88db74761ddb1f"),
  "title" : "Flight Club",
  "writer" : "Chuck Palahniuko",
  "year" : 1999,
  "actors" : [
    "Brad Pitt",
    "Edward Norton"
  ]
}
{
  "_id" : ObjectId("61753271aa88db74761ddb20"),
  "title" : "Pulp Fiction",
  "writer" : "Quentin Tarantino",
  "year" : 1994,
  "actors" : [
    "John Travolta",
    "Uma Thurman"
  ]
}
{
  "_id" : ObjectId("61753271aa88db74761ddb21"),
  "title" : "Inglorious Basterds",
  "writer" : "Quentin Tarantino",
  "year" : 2009,
  "actors" : [
    "Brad Pitt",
    "Diane Kruger",
    "Eli Roth"
  ]
}
{
  "_id" : ObjectId("61753271aa88db74761ddb22"),
  "title" : "The Hobbit:An Unexpected Journey",
  "writer" : "J.R.R.Tolkien",
  "year" : 2012,
  "franchise" : "The Hobbit"
}
{
  "_id" : ObjectId("61753271aa88db74761ddb23"),
  "title" : "The Hobbit:The Desolation of Smaug",
  "writer" : "J.R.R.tolkien",
  "year" : 2013,
  "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("61753271aa88db74761ddb24"),
  "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("61753271aa88db74761ddb25"),
  "title" : "Pee Wee Herman's Big Adventure",
  "writer" : "Pee Wee Herman",
  "year" : 1999,
  "actors" : [
    "Pee Wee Herman"
  ]
}
{
  "_id" : ObjectId("61753271aa88db74761ddb26"),
  "title" : "Avatat",
  "writer" : "Avatat",
  "year" : 1999,
  "actors" : [
    "Avatat"
  ]
}
> db.movies.find({actors:"Quentin Tarantino"})
{
  "_id" : ObjectId("61753271aa88db74761ddb20"),
  "title" : "Pulp Fiction",
  "writer" : "Quentin Tarantino",
  "year" : 1994,
  "actors" : [
    "John Travolta",
    "Uma Thurman"
  ]
}
{
  "_id" : ObjectId("61753271aa88db74761ddb21"),
  "title" : "Inglorious Basterds",
  "writer" : "Quentin Tarantino",
  "year" : 2009,
  "actors" : [
    "Brad Pitt",
    "Diane Kruger",
    "Eli Roth"
  ]
}
> db.movies.find({actors:"Brad Pitt"})
{
  "_id" : ObjectId("61753271aa88db74761ddb1f"),
  "title" : "Flight Club",
  "writer" : "Chuck Palahniuko",
  "year" : 1999,
  "actors" : [
    "Brad Pitt",
    "Edward Norton"
  ]
}
```

3. get all documents where actors include "Brad Pitt"
4. get all documents with franchise set to "The Hobbit"

```
C:\Windows\System32\cmd.exe - mongo
> db.movies.find({actors:"Brad Pitt"})
{ "_id" : ObjectId("61753271aa88db74761ddb1f"), "title" : "Flight Club", "writer" : "Chuck Palahniuk", "year" : 1999, "actors" : [ "Brad Pitt", "Edward Norton" ] }
}
> db.movies.find({franchise:"The Hobbit"})
{ "_id" : ObjectId("61753271aa88db74761ddb23"), "title" : "The Hobbit:The Desolation of Smaug", "writer" : "J.R.R.tolkein", "year" : 2013, "franchise" : "The Hobbit" }
{ "_id" : ObjectId("61753271aa88db74761ddb24"), "title" : "The Hobbit:The Battle of the Five Armies", "writer" : "J.R.R.Tolkein", "year" : 2012, "franchise" : "The Hobbit",
}
> db.movies.find({year:1990})
> db.movies.find({year:{$lt:1990}}).pretty()
> db.movies.find({"year":{$lt:2000}}).pretty()

@shell:1:27
> db.movies.find({"year":{$lt:2000}}).pretty()

@shell:1:22
> db.movies.find({"year":{$lt:2000}}).pretty()

  "_id" : ObjectId("61753271aa88db74761ddb1f"),
  "title" : "Flight Club",
  "year" : 1999,
  "actors" : [
    "Edward Norton"
  ]
}

{
  "_id" : ObjectId("61753271aa88db74761ddb20"),
  "writer" : "Quentin Tarantino",
  "year" : 1994,
  "actors" : [
    "John Travolta",
    "Uma Thurman"
  ]
}
> db.movies.find({$or:[{"year":{$lt:2000}}, {"year":{$gt:2010}}]}).pretty()
```

5. get all movies released in the 90s

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

```
C:\Windows\System32\cmd.exe - mongo
> db.movies.find({$or:[{"year":{$lt:2000}}, {"year":{$gt:2010}}]}).pretty()

  "_id" : ObjectId("61753271aa88db74761ddb1f"),
  "title" : "Flight Club",
  "year" : 1999,
  "actors" : [
    "Edward Norton"
  ]
}

{
  "_id" : ObjectId("61753271aa88db74761ddb20"),
  "writer" : "Quentin Tarantino",
  "year" : 1994,
  "actors" : [
    "John Travolta",
    "Uma Thurman"
  ]
}

{
  "title" : "The Hobbit:An Unexpected Journey",
  "writer" : "J.R.R.Tolkein",
  "franchise" : "The Hobbit"
}

{
  "_id" : ObjectId("61753271aa88db74761ddb23"),
  "title" : "The Hobbit:The Desolation of Smaug",
  "year" : 2013,
  "franchise" : "The Hobbit"
}

{
  "_id" : ObjectId("61753271aa88db74761ddb24"),
  "writer" : "J.R.R.Tolkein",
  "year" : 2012,
  "franchise" : "The Hobbit"
}
```

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."

```
C:\Windows\System32\cmd.exe - mongo
> db.movies.update({"title":"The Hobbit:An Unexpected Journey"},{$set:{"synopsis":"A reluctant hobbit,movies.update({"title":"The Hobbit:An Unexpected Journey"},{$set:{"syno
psis":"A reluctant hobbit,movies.update({"title":"The Hobbit:An Unexpected Journey"},{$set:{"synopsis":"A reluctant hobbit,Bilbo Baggins,sets out to the Lonely Mountain with
a spr
uncaught exception: SyntaxError: "" literal not terminated before end of script :
@ (shell):1:156
> db.movies.update({"title":"The Hobbit:An Unexpected Journey"},{$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"}});uncant hobbit,Bilbo Baggins,sets out to the Lonely Mountain with a spirited group of
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })om the dragon Smaug}}))
> db.movies.find()
{ "_id" : ObjectId("61753271aa88db74761ddb1f"), "title" : "Flight Club", "writer" : "Chuck Palahniuko", "year" : 1999, "actors" : [ "Brad Pitt", "Edward Norton" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb20"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantino", "year" : 1994, "actors" : [ "John Travolta", "Uma Thurman" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb21"), "title" : "Inglorious Basterds", "writer" : "Quentin Tarantino", "year" : 2009, "actors" : [ "Brad Pitt", "Diane Kruger", "E
li Roth" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb22"), "title" : "The Hobbit:An Unexpected Journey", "writer" : "J.R.R.Tolkien", "year" : 2012, "franchise" : "The Hobbit", "synops
is" : "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 drag
on Smaug" }
{ "_id" : ObjectId("61753271aa88db74761ddb23"), "title" : "The Hobbit:The Desolation of Smaug", "writer" : "J.R.R.tolkien", "year" : 2013, "franchise" : "The Hobbit" }
{ "_id" : ObjectId("61753271aa88db74761ddb24"), "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("61753271aa88db74761ddb25"), "title" : "Pee Wee Herman's Big Adventure" }
{ "_id" : ObjectId("61753271aa88db74761ddb26"), "title" : "Avatat" }
```

- 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.

```
C:\Windows\System32\cmd.exe - mongo
{ "_id" : ObjectId("61753271aa88db74761ddb24"), "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"},{$set:{"synopsis":"A reluctant hobbit,Bilbo Baggins,sets out to the Lonely Mountain with a spirited group of
dwarves to reclaim their mountain home and the gold within it from the dragon Smaug"}});luctant hobbit,Bilbo Baggins,sets out to the Lonely Mountain with a spirited group of
... rves to reclaim their mountain home and the gold within it from the dragon Smaug}});luctant hobbit,Bilbo Baggins,sets out to the Lonely Mountain with a spirited group of
... rves to reclaim their mountain home and the gold within it from the dragon Smaug}}))
> db.movies.update({"title":"The Hobbit:The Desolation of Smaug"},{$set:{"synopsis":"Bilbo Baggins and gandalf the grey continue their quest to reclaim erebor,their homelan
g,from Smaug.Bilbo Baggins is in possession of a mysterious and magical ring"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.movies.find()
{ "_id" : ObjectId("61753271aa88db74761ddb1f"), "title" : "Flight Club", "writer" : "Chuck Palahniuko", "year" : 1999, "actors" : [ "Brad Pitt", "Edward Norton" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb20"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantino", "year" : 1994, "actors" : [ "John Travolta", "Uma Thurman" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb21"), "title" : "Inglorious Basterds", "writer" : "Quentin Tarantino", "year" : 2009, "actors" : [ "Brad Pitt", "Diane Kruger", "E
li Roth" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb22"), "title" : "The Hobbit:An Unexpected Journey", "writer" : "J.R.R.Tolkien", "year" : 2012, "franchise" : "The Hobbit", "synops
is" : "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 drag
on Smaug" }
{ "_id" : ObjectId("61753271aa88db74761ddb23"), "title" : "The Hobbit:The Desolation of Smaug", "writer" : "J.R.R.tolkien", "year" : 2013, "franchise" : "The Hobbit", "syno
psis" : "Bilbo Baggins and gandalf the grey continue their quest to reclaim erebor,their homelang,from Smaug.Bilbo Baggins is in possession of a mysterious and magical ring
" }
{ "_id" : ObjectId("61753271aa88db74761ddb24"), "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("61753271aa88db74761ddb25"), "title" : "Pee Wee Herman's Big Adventure" }
{ "_id" : ObjectId("61753271aa88db74761ddb26"), "title" : "Avatat" }
```



```
C:\Windows\System32\cmd.exe - mongo
{ "_id" : ObjectId("61753271aa88db74761ddb24"), "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"},{$set:{"synopsis":"A reluctant hobbit,Bilbo Baggins,sets out to the Lonely Mountain with a spirited group of dwarves to reclaim their mountain home and the gold within it from the dragon Smaug"}});
{ "_id" : ObjectId("61753271aa88db74761ddb24"), "title" : "The Hobbit:The Battle of the Five Armies", "writer" : "J.R.R.Tolkien", "year" : 2012, "franchise" : "The Hobbit", "synopsis" : "Bilbo and company are forced to engage in a war against an array of combatants and keep the Lonely Mountain from falling into the hands of a rising darkness" }
> db.movies.update({"title":"The Hobbit:The Desolation of Smaug"},{$set:{"synopsis":"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("61753271aa88db74761ddb24"), "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()
{ "_id" : ObjectId("61753271aa88db74761ddb1f"), "title" : "Flight Club", "writer" : "Chuck Palahniuk", "year" : 1999, "actors" : [ "Brad Pitt", "Edward Norton" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb20"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantino", "year" : 1994, "actors" : [ "John Travolta", "Uma Thurman" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb21"), "title" : "Inglorious Basterds", "writer" : "Quentin Tarantino", "year" : 2009, "actors" : [ "Brad Pitt", "Diane Kruger", "Eli Roth" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb22"), "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("61753271aa88db74761ddb23"), "title" : "The Hobbit:The Desolation of Smaug", "writer" : "J.R.R.tolkien", "year" : 2013, "franchise" : "The Hobbit", "synopsis" : "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("61753271aa88db74761ddb24"), "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("61753271aa88db74761ddb25"), "title" : "Pee Wee Herman's Big Adventure" }
{ "_id" : ObjectId("61753271aa88db74761ddb26"), "title" : "Avatat" }
```

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

```
C:\Windows\System32\cmd.exe - mongo
{ "_id" : ObjectId("61753271aa88db74761ddb24"), "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"},{$set:{"synopsis":"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("61753271aa88db74761ddb24"), "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()
{ "_id" : ObjectId("61753271aa88db74761ddb1f"), "title" : "Flight Club", "writer" : "Chuck Palahniuk", "year" : 1999, "actors" : [ "Brad Pitt", "Edward Norton" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb20"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantino", "year" : 1994, "actors" : [ "John Travolta", "Uma Thurman" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb21"), "title" : "Inglorious Basterds", "writer" : "Quentin Tarantino", "year" : 2009, "actors" : [ "Brad Pitt", "Diane Kruger", "Eli Roth" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb22"), "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("61753271aa88db74761ddb23"), "title" : "The Hobbit:The Desolation of Smaug", "writer" : "J.R.R.tolkien", "year" : 2013, "franchise" : "The Hobbit", "synopsis" : "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("61753271aa88db74761ddb24"), "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("61753271aa88db74761ddb25"), "title" : "Pee Wee Herman's Big Adventure" }
{ "_id" : ObjectId("61753271aa88db74761ddb26"), "title" : "Avatat" }
> db.movies.update({"title":"Pulp Fiction"},{$set:{"actors":"Samuel L.Jackson"}});
{ "_id" : ObjectId("61753271aa88db74761ddb20"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantino", "year" : 1994, "actors" : [ "John Travolta", "Uma Thurman", "Samuel L.Jackson" ] }
> db.movies.find()
{ "_id" : ObjectId("61753271aa88db74761ddb1f"), "title" : "Flight Club", "writer" : "Chuck Palahniuk", "year" : 1999, "actors" : [ "Brad Pitt", "Edward Norton" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb20"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantino", "year" : 1994, "actors" : [ "John Travolta", "Uma Thurman", "Samuel L.Jackson" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb21"), "title" : "Inglorious Basterds", "writer" : "Quentin Tarantino", "year" : 2009, "actors" : [ "Brad Pitt", "Diane Kruger", "Eli Roth" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb22"), "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("61753271aa88db74761ddb23"), "title" : "The Hobbit:The Desolation of Smaug", "writer" : "J.R.R.tolkien", "year" : 2013, "franchise" : "The Hobbit", "synopsis" : "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("61753271aa88db74761ddb24"), "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("61753271aa88db74761ddb25"), "title" : "Pee Wee Herman's Big Adventure" }
{ "_id" : ObjectId("61753271aa88db74761ddb26"), "title" : "Avatat" }
```

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"

```
C:\Windows\System32\cmd.exe - mongo
> db.movies.createIndex({synopsis:"text"})
{
  "numIndexesBefore" : 1,
  "numIndexesAfter" : 2,
  "createdCollectionAutomatically" : false,
  "ok" : 1
}
> db.movies.find({$text:{$synopsis:"Bilbo"}})
uncaught exception: SyntaxError: missing : after property id :
@ (shell):1:33
> db.movies.find({$text:{$search:"Bilbo"}})
{ "_id" : ObjectId("61753271aa88db74761ddb23"), "title" : "The Hobbit:The Desolation of Smaug", "writer" : "J.R.R.tolkein", "year" : 2013, "franchise" : "The Hobbit", "synopsis" : "Bilbo Baggins and gandalf the grey continue their quest to reclaim erebor,their homelang,from Smaug.Bilbo Baggins is in possession of a mysterious and magical ring" }
{ "_id" : ObjectId("61753271aa88db74761ddb24"), "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("61753271aa88db74761ddb22"), "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" }
> db.movies.find({$text:{$search:"Gandalf"}})
{ "_id" : ObjectId("61753271aa88db74761ddb23"), "title" : "The Hobbit:The Desolation of Smaug", "writer" : "J.R.R.tolkein", "year" : 2013, "franchise" : "The Hobbit", "synopsis" : "Bilbo Baggins and gandalf the grey continue their quest to reclaim erebor,their homelang,from Smaug.Bilbo Baggins is in possession of a mysterious and magical ring" }
> db.movies.find({$text:{$search:"Bilbo-Gandalf"}}).pretty()
{
  "_id" : ObjectId("61753271aa88db74761ddb23"),
  "title" : "The Hobbit:The Desolation of Smaug",
  "writer" : "J.R.R.tolkein",
  "year" : 2013,
  "franchise" : "The Hobbit",
  "synopsis" : "Bilbo Baggins and gandalf the grey continue their quest to reclaim erebor,their homelang,from Smaug.Bilbo Baggins is in possession of a mysterious and magical ring"
}
{
  "_id" : ObjectId("61753271aa88db74761ddb24"),
  "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"
}
```

```
C:\Windows\System32\cmd.exe - mongo
{
  "_id" : ObjectId("61753271aa88db74761ddb24"),
  "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("61753271aa88db74761ddb22"),
  "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"
5. find all movies that have a synopsis that contains the word "gold" and "dragon"

```
C:\Windows\System32\cmd.exe - mongo
"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 i
t from the dragon Smaug"
}
> db.movies.find({$text:{$search:"dwarves hobbit"}}).pretty()
{
  "_id" : ObjectId("61753271aa88db74761ddb22"),
  "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 i
t from the dragon Smaug"
}
> db.movies.find({$text:{$search:"\ gold dragon\""}}).pretty()
> db.movies.find({$text:{$search:"gold dragon"}}).pretty()
{
  "_id" : ObjectId("61753271aa88db74761ddb22"),
  "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 i
t from the dragon Smaug"
}
>
-
Links 19°C 22:07 24-10-2021
```

Delete Documents

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

```
C:\Windows\System32\cmd.exe - mongo
"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 i
t from the dragon Smaug"
}
> db.movies.remove({"title":"Pee Wee Herman's Big Adventure"})
WriteResult({ "nRemoved" : 0 })
> db.movies.remove({"title":"Avatar"})
WriteResult({ "nRemoved" : 0 })
> db.movies.find()
{ "_id" : ObjectId("61753271aa88db74761ddb1f"), "title" : "Flight Club", "writer" : "Chuck Palahniuk", "year" : 1999, "actors" : [ "Brad Pitt", "Edward Norton" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb20"), "title" : "Pulp Fiction", "writer" : "Quentin Tarantino", "year" : 1994, "actors" : [ "Samuel L.Jackson" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb21"), "title" : "Inglorious Bastards", "writer" : "Quentin Tarantino", "year" : 2009, "actors" : [ "Brad Pitt", "Diane Kruger", "E
li Roth" ] }
{ "_id" : ObjectId("61753271aa88db74761ddb22"), "title" : "The Hobbit:An Unexpected Journey", "writer" : "J.R.R.Tolkein", "year" : 2012, "franchise" : "The Hobbit", "synops
is" : "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 drag
on Smaug" }
{ "_id" : ObjectId("61753271aa88db74761ddb23"), "title" : "The Hobbit:The Desolation of Smaug", "writer" : "J.R.R.tolkein", "year" : 2013, "franchise" : "The Hobbit", "syno
psis" : "Bilbo Baggins and gandalf the grey continue their quest to reclaim erebor,their homelang,from Smaug.Bilbo Baggins is in possession of a mysterious and magical ring"
}
{ "_id" : ObjectId("61753271aa88db74761ddb24"), "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("61753271aa88db74761ddb25"), "title" : "Pee Wee Herman's Big Adventure" }
{ "_id" : ObjectId("61753271aa88db74761ddb26"), "title" : "Avatat" }
>
-
Links 19°C 22:16 24-10-2021
```

Relationships:

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"

```

C:\Windows\System32\cmd.exe - mongo
uncaught exception: SyntaxError: missing } after property list :
@ (shell):1:290
> db.posts.insertMany([({username:"GoodGuyGreg",title:"passes out at a party",body:"wakes up early and cleans house"},{username:"GoodGuyGreg",title:"Steals your identity",body:"Raises your credits score"},{username:"GoodGuyGreg",title:"Reports a bug in your code",body:"Sends you a Pull Request"},{username:"ScumbagSteve",title:"Borrows something",body:"The end"},{username:"ScumbagSteve",title:"Forks your repo on github",body:"Sets to private"}])
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("6175af53aa88db74761ddb27"),
    ObjectId("6175af53aa88db74761ddb28"),
    ObjectId("6175af53aa88db74761ddb29"),
    ObjectId("6175af53aa88db74761ddb2a"),
    ObjectId("6175af53aa88db74761ddb2b")
  ]
}
db.posts.find().pretty()
{
  "_id" : ObjectId("6175af53aa88db74761ddb27"),
  "username" : "GoodGuyGreg",
  "title" : "passes out at a party",
  "body" : "wakes up early and cleans house"
}
{
  "_id" : ObjectId("6175af53aa88db74761ddb28"),
  "username" : "GoodGuyGreg",
  "title" : "Steals your identity",
  "body" : "Raises your credits score"
}
{
  "_id" : ObjectId("6175af53aa88db74761ddb29"),
  "username" : "GoodGuyGreg",
  "title" : "Reports a bug in your code",
  "body" : "Sends you a Pull Request"
}
{
  "_id" : ObjectId("6175af53aa88db74761ddb2a"),
  "username" : "ScumbagSteve",
  "title" : "Borrows something",
  "body" : "The end"
}
{
  "_id" : ObjectId("6175af53aa88db74761ddb2b"),

```

```

C:\Windows\System32\cmd.exe - mongo
{
  "_id" : ObjectId("6175af53aa88db74761ddb2b"),
  "username" : "ScumbagSteve",
  "title" : "Forks your repo on github",
  "body" : "Sets to private"
}
> db.posts.find("username":"GoodGuyGreg").pretty()
uncaught exception: SyntaxError: missing ) after argument list :
@ (shell):1:24
> db.posts.find({username:"GoodGuyGreg"}).pretty()
{
  "_id" : ObjectId("6175af53aa88db74761ddb27"),
  "username" : "GoodGuyGreg",
  "title" : "passes out at a party",
  "body" : "wakes up early and cleans house"
}
{
  "_id" : ObjectId("6175af53aa88db74761ddb28"),
  "username" : "GoodGuyGreg",
  "title" : "Steals your identity",
  "body" : "Raises your credits score"
}
{
  "_id" : ObjectId("6175af53aa88db74761ddb29"),
  "username" : "GoodGuyGreg",
  "title" : "Reports a bug in your code",
  "body" : "Sends you a Pull Request"
}
> db.posts.find({username:"ScumbagSteve"}).pretty()
{
  "_id" : ObjectId("6175af53aa88db74761ddb2a"),
  "username" : "ScumbagSteve",
  "title" : "Borrows something",
  "body" : "The end"
}
{
  "_id" : ObjectId("6175af53aa88db74761ddb2b"),
  "username" : "ScumbagSteve",
  "title" : "Forks your repo on github",
  "body" : "Sets to private"
}

```

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"

```
C:\Windows\System32\cmd.exe - mongo
{"post" : "6175af53aa88db74761ddb2b"}
}
{"_id" : ObjectId("6175bb52aa88db74761ddb30"),
 "username" : "ScumbagSteve",
 "comment" : "Denied your PR cause I found a hack",
 "post" : "6175af53aa88db74761ddb2a"}
}
> db.comments.find({username:"GoodGuyGreg"})
{"_id" : ObjectId("6175bb52aa88db74761ddb2c"), "username" : "GoodGuyGreg", "comment" : "Hope you got a good deal!", "post" : "6175af53aa88db74761ddb27" }
{"_id" : ObjectId("6175bb52aa88db74761ddb2d"), "username" : "GoodGuyGreg", "comment" : "Don't violate the licensing agreement!", "post" : "6175af53aa88db74761ddb28" }
{"_id" : ObjectId("6175bb52aa88db74761ddb2e"), "username" : "GoodGuyGreg", "comment" : "what's mine is yours!", "post" : "6175af53aa88db74761ddb29" }
}
> db.comments.find({username:"ScumbagSteve"})
{"_id" : ObjectId("6175bb52aa88db74761ddb2f"), "username" : "ScumbagSteve", "comment" : "It still isn't clean", "post" : "6175af53aa88db74761ddb2b" }
{"_id" : ObjectId("6175bb52aa88db74761ddb30"), "username" : "ScumbagSteve", "comment" : "Denied your PR cause I found a hack", "post" : "6175af53aa88db74761ddb2a" }
}
>
```