MONGODB-ASSIGNMENT 1:

Query/ Find Documents:

```
db.movies.find().pretty()

"_id": ObjectId("6107059cd62494f023c6f85c"),
    "title": "Fight Club",
    "writer": "Chuck Palahniuko",
    "year": 1999,
    "actors": [
        "Brad Pitt",
        "Edward Norton"
]

"_id": ObjectId("6107082cd62494f023c6f85d"),
    "title": "Pulp Fiction",
    "writer": "Quentin Tarantino",
    "year": 1994,
    "actors": [
        "John Travolta",
        "Uma Thuman"
]

"_id": ObjectId("6107082cd62494f023c6f85e"),
    "title": "Inglorious Basterds",
    "writer": "Quentin Tarantino",
    "year": 2009,
    "actors": [
        "Brad Pitt",
        "Diane Kruger",
        "lil Roth"
]

"_id": ObjectId("6107082cd62494f023c6f85f"),
    "title": "The Hobbit: An Unexpected Journey",
    "writer": "J.R.R. Tolkein",
```

```
"_id" : ObjectId("6107082cd62494f023c6f85f"),
    "title" : "The Hobbit: An Unexpected Journey",
    "writer" : "J.R.R. Tolkein",
    "year" : 2012,
    "franchise" : "The Hobbit"
}

{
    "_id" : ObjectId("6107082cd62494f023c6f860"),
    "title" : "The Hobbit: The Desolation of Smaug",
    "writer" : "J.R.R. Tolkein",
    "year" : 2013,
    "franchise" : "The Hobbit"
}

{
    "_id" : ObjectId("6107082cd62494f023c6f861"),
    "title" : "The Hobbit: The Battle of 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 rising darkness"
}

{
    "_id" : ObjectId("6107082cd62494f023c6f862"),
    "title" : "Pee Wee Herman's Big Adventure"
}
{
    "_id" : ObjectId("6107082cd62494f023c6f862"),
    "title" : "Pee Wee Herman's Big Adventure"
}
```

```
db.movies.find({writer:"Quentin Tarantino"}).pretty()
      "_id" : ObjectId("6107082cd62494f023c6f85d"),
      "title" : "Pulp Fiction",
      "writer" : "Quentin Tarantino",
      "year": 1994,
      "actors" : [
              "John Travolta",
               "Uma Thuman"
      1
      "_id" : ObjectId("6107082cd62494f023c6f85e"),
      "title" : "Inglorious Basterds",
      "writer" : "Quentin Tarantino",
"year" : 2009,
      "actors" : [
               "Brad Pitt",
               "Diane Kruger",
               "Eli Roth"
```

```
> db.movies.find({franchise:"The Hobbit"}).pretty()
{
        "_id" : ObjectId("6107082cd62494f023c6f85f"),
        "title" : "The Hobbit: An Unexpected Journey",
        "writer" : "J.R.R. Tolkein",
        "year" : 2012,
        "franchise" : "The Hobbit"
}
{
        "_id" : ObjectId("6107082cd62494f023c6f860"),
        "title" : "The Hobbit: The Desolation of Smaug",
        "writer" : "J.R.R. Tolkein",
        "year" : 2013,
        "franchise" : "The Hobbit"
}
{
        "_id" : ObjectId("6107082cd62494f023c6f861"),
        "title" : "The Hobbit: The Battle of 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 rising darkness"
}
```

```
db.movies.find({$or: [{year:{$lt:2000}},{year:{$gt:2010}} ]}).pretty()
       _id" : ObjectId("6107059cd62494f023c6f85c"),
       "title" : "Fight Club",
"writer" : "Chuck Palahniuko",
       "year": 1999,
       "actors" : [
                 "Brad Pitt",
                  "Edward Norton"
       " id" : ObjectId("6107082cd62494f023c6f85d"),
       "title" : "Pulp Fiction",
       "writer" : "Quentin Tarantino",
       "year" : 1994,
       "actors" : [
"John Travolta",
                 "Uma Thuman"
       "_id" : ObjectId("6107082cd62494f023c6f85f"),
       "title": "The Hobbit: An Unexpected Journey"
"writer": "J.R.R. Tolkein",
"year": 2012,
"franchise": "The Hobbit"
       "_id" : ObjectId("6107082cd62494f023c6f860"),
       "title" : "The Hobbit: The Desolation of Smaug", "writer" : "J.R.R. Tolkein",
       "year" : 2013,
"franchise" : "The Hobbit"
       "_id" : ObjectId("6107082cd62494f023c6f861"),
       "title" : "The Hobbit: The Battle of 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
```

synopsis . Billoo 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 rising dark ness"

Update Documents:

1.

```
> db.movies.update({title:"The Hobbit: An Unexpected Journey"},{$set:{$ynopsis:"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").pretty()
uncaught exception: SyntaxError: missing ) after argument list :
g(shell):1:20
> db.movies.find({title:"The Hobbit: An Unexpected Journey"}).pretty()
{
        "id" : ObjectId("6107082cd62494f023c6f85f"),
        "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"
}
```

2.

```
> db.movies.update({title:"The Hobbit: The Desolation of Smaug"),{$set:{synopsis:"The dwarves, along with Bilbo Baggins and Gandalf the Grey, continue their quest to re
claim Erebor, their homeland, from Smaug, Bilbo Baggins is in possession of a mysterious and magical ring."}})
> db.movies.find({title:"The Hobbit: The Desolation of Smaug"}).pretty()
{
    "id": ObjectId("6107082cd62494f023c6f860"),
    "title": "The Hobbit: The Desolation of Smaug",
    "writer": "JR.R. Tolkein",
    "year": 2013,
    "franchise": "The Hobbit",
    "synopsis": "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 i
n possession of a mysterious and magical ring."
```

Text Search:

1.

```
db.movies.find({synopsis:/8ilbo/}).pretty()
{
    "_id" : ObjectId("6107082cd62494f023c6f85f"),
    "title" : "The Hobbit: An Unexpected Journey",
    "writer" : "Ja.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("6107082cd62494f023c6f860"),
    "title" : "The Hobbit: The Desolation of Smaug",
    "writer" : "Ja.R. Tolkein",
    "year" : 2013,
    "franchise" : "The Hobbit",
    "synopsis" : "The Hobbit",
    "synopsis" : "The Hobbit",
    "synopsis" : "The Hobbit",
    "synopsis" : "The Hobbit : The Bastle of Five Armies",
    "writer" : "Ja.R. Tolkein",
    "itle" : "The Hobbit: The Bastle of Five Armies",
    "writer" : "Ja.R. Tolkein",
    "writer" : "Ja.R. Tolkein",
    "year" : 2012,
    "franchise" : "The Hobbit: The Bastle of Five Armies",
    "writer" : "Ja.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 rising darkness"
}
```

2.

```
db.movies.find({synopsis:/Gandalf/}).pretty()
{
    "_id" : ObjectId("6107082cd62494f023c6f860"),
    "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."
}
```

3.

```
> db.movies.find({$and:{{synopsis:/Bilbo/},{synopsis:{$not:/Gandalf/}}}}).pretty()
{
        "_id" : ObjectId("6107082cd62494f023c6f85f"),
        "title" : "The Hobbit: An Unexpected Journey",
        "writer" : "Ja.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("6107082cd62494f023c6f861"),
        "title" : "The Hobbit: The Battle of Five Armies",
        "writer" : "Ja.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 rising darkness"
}
```

```
db.movies.find({$and:[{synopsis:/gold/},{synopsis:/dragon/}]}).pretty()

"_id" : ObjectId("6107082cd62494f023c6f85f"),

"itle" : "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"
```

Delete Documents:

1.

```
b db.movies.remove({title:"Pee Wee Herman's Big Adventure"})
WriteResult({ "nRemoved" : 1 })

2.
b db.movies.remove({title:"Avatar"})
WriteResult({ "nRemoved" : 1 })
b>
```

Relationships:

```
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" : [
ObjectId("610790fde3e012de139585b3"),
                 ObjectId("610790fde3e012de139585b4"),
                 ObjectId("610790fde3e012de139585b5"),
ObjectId("610790fde3e012de139585b6"),
                 ObjectId("610790fde3e012de139585b7"),
                 ObjectId("610790fde3e012de139585b8")
```

```
> db.comments.insert(
... {username:"GoodGuyGreg",
... comment:"Hope you got a good deal!",
... post:ObjectId("610790fde3e012de139585b6")},
... )
WriteResult({ "nInserted" : 1 })
```

Querying Related collections:

```
db.posts.find().pretty()
           "_id" : ObjectId("610790fde3e012de139585b3"),
          "username" : "GoodGuyGreg",
"title" : "Passes out at party",
"body" : "Wakes up early and cleans house"
           "_id" : ObjectId("610790fde3e012de139585b4"),
          "username" : "GoodGuyGreg",
"title" : "Steals your identity",
"body" : "Raises your credit score"
           "_id" : ObjectId("610790fde3e012de139585b5"),
           "username" : "GoodGuyGreg",
"title" : "Reports a bug in your code",
"body" : "Sends you a Pull Request"
          "_id" : ObjectId("610790fde3e012de139585b6"),
"username" : "ScumbagSteve",
"title" : "Borrows something",
"body" : "Sells it"
           "_id" : ObjectId("610790fde3e012de139585b7"),
"username" : "ScumbagSteve",
"title" : "Borrows everything",
"body" : "The end"
           "_id" : ObjectId("610790fde3e012de139585b8"),
          "username" : "ScumbagSteve",
"title" : "Forks your Repo on github",
"body" : "Sets to private"
```

```
> db.posts.find({username:"GoodGuyGreg"}).pretty()
{
        "_id" : ObjectId("610790fde3e012de139585b3"),
        "username" : "GoodGuyGreg",
        "title" : "Passes out at party",
        "body" : "Wakes up early and cleans house"
}
{
        "_id" : ObjectId("610790fde3e012de139585b4"),
        "username" : "GoodGuyGreg",
        "title" : "Steals your identity",
        "body" : "Raises your credit score"
}
{
        "_id" : ObjectId("610790fde3e012de139585b5"),
        "username" : "GoodGuyGreg",
        "title" : "Reports a bug in your code",
        "body" : "Sends you a Pull Request"
}
```

```
> db.posts.find({username:"ScumbagSteve"}).pretty()
{
        "_id" : ObjectId("610790fde3e012de139585b6"),
        "username" : "ScumbagSteve",
        "title" : "Borrows something",
        "body" : "Sells it"
}
{
        "_id" : ObjectId("610790fde3e012de139585b7"),
        "username" : "ScumbagSteve",
        "title" : "Borrows everything",
        "body" : "The end"
}
{
        "_id" : ObjectId("610790fde3e012de139585b8"),
        "username" : "ScumbagSteve",
        "title" : "Forks your Repo on github",
        "body" : "Sets to private"
}
```

```
db.comments.find().pretty()
      _id" : ObjectId("61079378e3e012de139585ba"),
      "username": "GoodGuyGreg",
"comment": "Hope you got a good deal!",
      "post" : ObjectId("610790fde3e012de139585b6")
      "_id" : ObjectId("6107b627d6f7ffd3e8a1aee2"),
      "username" : "GoodGuyGreg",
"comment" : "What's mine is yours",
      "post" : ObjectId("610790fde3e012de139585b7")
      " id" : ObjectId("6107b627d6f7ffd3e8a1aee3"),
      "username": "GoodGuyGreg",
"comment": "Don't violate the licensing agreement",
      "post" : ObjectId("610790fde3e012de139585b8")
      "_id" : ObjectId("6107b627d6f7ffd3e8a1aee4"),
      "username" : "ScumbagSteve",
      "comment" : "It still isn't clean",
      "post" : ObjectId("610790fde3e012de139585b3")
      "_id" : ObjectId("6107b627d6f7ffd3e8a1aee5"),
      "username": "ScumbagSteve",
      "comment" : "Denied your PR cause I found a hack",
      "post" : ObjectId("610790fde3e012de139585b5")
```

```
db.comments.find({username:"GoodGuyGreg"}).pretty()

{
        "_id" : ObjectId("61079378e3e012de139585ba"),
        "username" : "GoodGuyGreg",
        "comment" : "Hope you got a good deal!",
        "post" : ObjectId("610790fde3e012de139585b6")

}

{
        "_id" : ObjectId("6107b627d6f7ffd3e8a1aee2"),
        "username" : "GoodGuyGreg",
        "comment" : "What's mine is yours",
        "post" : ObjectId("610790fde3e012de139585b7")

}

{
        "_id" : ObjectId("6107b627d6f7ffd3e8a1aee3"),
        "username" : "GoodGuyGreg",
        "comment" : "Don't violate the licensing agreement",
        "post" : ObjectId("610790fde3e012de139585b8")
}
```

```
> db.comments.find({username:"ScumbagSteve"}).pretty()
{
        "_id" : ObjectId("6107b627d6f7ffd3e8a1aee4"),
        "username" : "ScumbagSteve",
        "comment" : "It still isn't clean",
        "post" : ObjectId("610790fde3e012de139585b3")
}
{
        "_id" : ObjectId("6107b627d6f7ffd3e8a1aee5"),
        "username" : "ScumbagSteve",
        "comment" : "Denied your PR cause I found a hack",
        "post" : ObjectId("610790fde3e012de139585b5")
}
```