#### **MONGODB ASSIGNMENT-1**

#### Name:Shruti Bhosale

## 1)Query Find Document

```
> use mongo_practice
switched to db mongo_practice
> db.collection.insert([
... title : "Fight Club",
... writer : "Chuck Palahniuk",
 .. 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",
```

```
db.collection.find().pretty()
        "_id" : ObjectId("61051e72ef14e84ae0fb2e81"),
        "title": "Fight Club",
"writer": "Chuck Palahniuk",
"year": 1999,
"actors": [
"Brad Pitt",
                    "Edward Norton"
        "_id" : ObjectId("61051e72ef14e84ae0fb2e82"),
        "title": "Pulp Fiction",
"writer": "Quentin Tarantino",
"year": 1994,
"actors": [
"John Travolta",
                    "Uma Thurman"
         "_id" : ObjectId("61051e72ef14e84ae0fb2e83"),
        "title" : "Inglorious Basterds",
"writer" : "Quentin Tarantino",
        "year" : 2009,
        "actors" : [
                    "Brad Pitt",
                    "Diane Kruger",
                    "Eli Roth"
        "_id" : ObjectId("61051e72ef14e84ae0fb2e84"),
        "title": "The Hobbit: An Unexpected Journey", "writer": "J.R.R. Tolkein",
        "year" : 2012,
"franchise" : "The Hobbit"
        "_id" : ObjectId("61051e72ef14e84ae0fb2e85"),
        "title" : "The Hobbit: The Desolation of Smaug", "writer" : "J.R.R. Tolkein",
        "year" : 2013,
"franchise" : "The Hobbit"
```

```
"_id" : ObjectId("61051e72ef14e84ae0fb2e85"),

"title" : "The Hobbit: The Desolation of Smaug",

"writer" : "J.R.R. Tolkein",

"year" : 2013,

"franchise" : "The Hobbit"

"_id" : ObjectId("61051e72ef14e84ae0fb2e86"),

"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("61051e72ef14e84ae0fb2e87"),

"title" : "Pee Wee Herman's Big Adventure"

"_id" : ObjectId("61051e72ef14e84ae0fb2e88"), "title" : "Avatar" }
```

```
db.collection.find({franchise:"The Hobbit"}).pretty()
      "_id" : ObjectId("61051e72ef14e84ae0fb2e84"),
"title" : "The Hobbit: An Unexpected Journey",
"writer" : "J.R.R. Tolkein",
      "year" : 2012,
"franchise" : "The Hobbit"
      "_id" : ObjectId("61051e72ef14e84ae0fb2e85"),
"title" : "The Hobbit: The Desolation of Smaug",
"writer" : "J.R.R. Tolkein",
"year" : 2013,
"franchise" : "The Hobbit"
      "_id" : ObjectId("61051e72ef14e84ae0fb2e86"),
"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 re
db.collection.find({year: {$gte: 1990, $lte: 1999}}).pretty()
             " id" : ObjectId("61051e72ef14e84ae0fb2e81"),
             "title" : "Fight Club",
             "writer" : "Chuck Palahniuk",
             "year" : 1999,
             "year .
"actors" : [
"Brad Pitt",
                              "Edward Norton"
             "_id" : ObjectId("61051e72ef14e84ae0fb2e82"),
             "title" : "Pulp Fiction",
"writer" : "Quentin Tarantino",
             "year" : 1994,
             "actors" : [
                             "John Travolta",
                             "Uma Thurman"
```

```
cdb.collection.find({$cn:{{year:{$te:2000}}}, {year:{$fe:2010}}}}).pretty()

    "id": ObjectId("61051e72ef14e84ae0fb2e81"),
    "itle": "Fight Clb",
    "writer": "Obuck Palahniuk",
    "year": 1999,
    "actors": [
        "Bmad Pitt",
        "Edward Norton"
]

{
    "id": ObjectId("61051e72ef14e84ae0fb2e82"),
    "itle": "Pulp Fiction",
    "writer": "Quentin Tarantino",
    year": 3994,
        actors": [
    "id": ObjectId("61051e72ef14e84ae0fb2e82"),
    "itle": "Pulp Fiction",
    "year": 1994,
    "actors": "John Towoolts",
    "John Towoolts",
    "John Towoolts",
    "witer": "John Towoolts",
    "writer": "John Hobbit"
}

{
    "id": ObjectId("61051e72ef14e84ae0fb2e85"),
    "itle": "The Hobbit: The Descolation of Smang",
    "writer": "John Towoolts",
    "writer": "John Towool
```

### 2) Update Documents

```
db.collection.update({title: "The Hobbit: The Desolation of Smaug"}, {$set: {synopsis: "The dwarves, along with Bilbo Baggins and Gandalf the Grey, continue their quest to rec
Smaug. Bilbo Baggins is in possession of a mysterious and magical ring."}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.collection.fine({title: "The Hobbit: The Desolation of Smaug"}).pretty()
 uncaught exception: TypeError: db.collection.fine is not a function :
  db.collection.find({title: "The Hobbit: The Desolation of Smaug"}).pretty()
         " id" : ObjectId("61051e72ef14e84ae0fb2e85"),
         "title" : "The Hobbit: The Desolation of Smaug",
         "writer" : "J.R.R. Tolkein",
         "year" : 2013,
"franchise" : "The Hobbit",
"synopsis" : "The dwarves, along with Bilbo Baggins and Gandalf the Grey, continue their quest to reclaim Erebor, their homeland, from Smaug. Bilbo Baggins is in possess
"synopsis" : "The dwarves, along with Bilbo Baggins and Gandalf the Grey, continue their quest to reclaim Erebor, their homeland, from Smaug. Bilbo Baggins is in possess
  db.collection.update({title: "The Hobbit: An Unexpected Journey"}, {$set: {synopsis: "A reluctant hobbit, Bilbo Baggins, sets out to the Lonely Mountain with a spirited
 in home - and the gold within it - from the dragon Smaug."}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
  db.collection.find({title: "The Hobbit: An Unexpected Journey"}).pretty()
          "_id" : ObjectId("61051e72ef14e84ae0fb2e84"),
          "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 with
```

### 3)Test Search

```
db.collection.find({synopsis: /.Bilbo./}).pretty()
                 "_id" : ObjectId("61051e72ef14e84ae0fb2e84"),
"title" : "The Hobbit: An Unexpected ?"
                  "title" : "The Hobbit: An Unexpected Journey
"writer" : "J.R.R. Tolkein",
                  miler . January,
"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("61051e72ef14e84ae0fb2e85"),
"title" : "The Hobbit: The Desolation of Smau
                  "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 r
    db.collection.find({synopsis: /.Gandalf./}).pretty()
                 "_id" : ObjectId("61051e72ef14e84ae0fb2e85"),
"title" : "The Hobbit: The Desolation of Smaug",
"writer" : "J.R.R. Tolkein",
                  witer : JACA. Polician,
"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 r
"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 r
   \label{local_collection.find(sand: [{synopsis: /.6ilbo./}, {synopsis: /.^Gandalf./}]]).pretty() \\ \db.collection.find({sand: [{synopsis: /Bilbo/}, {synopsis: {snot: /Gandalf/}}]}).pretty() \\ \db.collection.find({sand: [{synopsis: /Bilbo/}, {synopsis: {snot: /Gandalf/}}]}).pretty() \\ \db.collection.find({sand: [{synopsis: /Bilbo/}, {synopsis: /Snot: /Gandalf/}}]}).pretty() \\ \db.collection.find({synopsis: /Bilbo/}, {synopsis: /Snot: /Gandalf/}}]}).pretty() \\ \db.collection.find({synopsis: /Bilbo/}, {synopsis: /Gandalf/}}]).pretty() \\ \db.collection.find({synopsis: /Bilbo/}, {synopsis: /Bilbo/}}).pretty() \\ \db.collection.find({synopsis: /Bilbo/}, {synopsis: /Bilbo/}).pretty() \\ \db.collection.find({synopsis: /Bilbo/}, {synopsis: /Bilbo/}).pretty() \\ \db.collection.find({synopsis: /Bilbo/}, {synopsis: /Bilbo/}, {synopsis: /Bilbo/}).pretty() \\ \db.collection.find({synopsis: /Bilbo/}
                "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("61051e72ef14e84ae0fb2e86"),
"title" : "The Hobbit: The Battle of the Five Armies",
"writer" : "J.R.R. Tolkein",
                  witer . Jame Policin,
"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.collection.find(($or: [{synopsis: /dwarves/}, {synopsis: /hobbit/}]}).pretty()
                          "_id" : ObjectId("61051e72ef14e84ae0fb2e84"),
"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
                         "_id" : ObjectId("61051e72ef14e84ae0fb2e85"),
"title" : "The Hobbit: The Desolation of Smau
"writer" : "J.R.R. Tolkein",
                                                              "The Hobbit: The Desolation of Smaug",
                          "year" : 2013,
"franchise" : "The Hobbit",
"synopsis" : "The dwarves, along with Bilbo Baggins and Gandalf the Grey, continue their quest to reclaim Erebor, their hom
ng."
```

### 4) Delete Documents

```
> db.collection.remove({title: "Pee Wee Herman's Big Adventure"})

WriteResult({ "nRemoved" : 1 })
> db.collection.find({title: "Pee Wee Herman's Big Adventure"})
> db.collection.remove({title: "Avatar"})

WriteResult({ "nRemoved" : 1 })
> db.collection.find({title: "Avatar"})
>
```

# 5) Quering Related Collection

```
db.posts.insert([
... {
... _id: 1,
... username : "GoodGuyGreg",
... title : "Passes out at party",
... body : "Wakes up early and cleans house",
 ... _id: 2,
... _iu. z,
... username : "GoodGuyGreg",
... title : "Steals your identity",
... body : "Raises your credit score",
 ... _id: 3,
... _iu: 3,
... username : "GoodGuyGreg",
... title : "Reports a bug in your code",
... body : "Sends you a Pull Request",
... _ 10. 4,
... 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",
BulkWriteResult({
                   "writeErrors" : [ ],
"writeConcernErrors" : [ ],
                   "nInserted" : 6,
"nUpserted" : 0,
"nMatched" : 0,
"nModified" : 0,
```

```
> db.comments.insert([
... username : "GoodGuyGreg",
... comment : "Hope you got a good deal!",
... post : 4,
...},
... username : "GoodGuyGreg",
... comment : "What's mine is yours!",
... post : 5,
... },
... {
... username : "GoodGuyGreg",
... comment : "Don't violate the licensing agreement!",
... post : 6,
...},
. . . {
... username : "ScumbagSteve",
... comment : "It still isn't clean",
... post : 1,
... {
... username : "ScumbagSteve",
... comment : "Denied your PR cause I found a hack",
... post : 3
... },
... ])
BulkWriteResult({
         "writeErrors" : [ ],
"writeConcernErrors" : [ ],
         "nInserted" : 5,
         "nUpserted" : 0,
         "nMatched" : 0,
         "nModified" : 0,
"nRemoved" : 0,
         "upserted" : [ ]
```

```
db.users.find({}).pretty()
        "_id" : ObjectId("61052834ef14e84ae0fb2e89"),
        "username" : "GoodGuyGreg",
"first_name" : "Good Guy",
"last_name" : "Greg"
        " id" : ObjectId("61052834ef14e84ae0fb2e8a"),
        "username" : "ScumbagSteve",
        "full_name" : {
                   "first" : "Scumbag",
"last" : "Steve"
db.posts.find({}).pretty()
        "_id" : 1,
"username" : "GoodGuyGreg",
        "title" : "Passes out at party",
        "body" : "Wakes up early and cleans house"
        "_id" : 2,
"username" : "GoodGuyGreg",
"title" : "Steals your identity",
"body" : "Raises your credit score"
        "_id" : 3,
"username" : "GoodGuyGreg",
        "title" : "Reports a bug in your code",
"body" : "Sends you a Pull Request"
        "_id" : 4,
"username" : "ScumbagSteve",
        "title" : "Borrows something",
        "body" : "Sells it"
        "_id" : 5,
"username" : "ScumbagSteve",
"title" : "Borrows everything",
        "body" : "The end"
        "_id" : 6,
"username" : "ScumbagSteve",
        "title" : "Forks your repo on github",
```

```
> db.posts.find({username: "GoodGuyGreg"}).pretty()
{
    "_id" : 1,
        "username" : "GoodGuyGreg",
        "title" : "Passes out at party",
        "body" : "Wakes up early and cleans house"
}
{
    "_id" : 2,
        "username" : "GoodGuyGreg",
        "title" : "Steals your identity",
        "body" : "Raises your credit score"
}
{
    "_id" : 3,
        "username" : "GoodGuyGreg",
        "title" : "Reports a bug in your code",
        "body" : "Sends you a Pull Request"
}
> db.posts.find({username: "ScumbagSteve"}).pretty()
{
    "_id" : 4,
        "username" : "ScumbagSteve",
        "title" : "Borrows something",
        "body" : "Sells it"
}
```

```
{
    "_id" : 4,
    "username" : "ScumbagSteve",
    "title" : "Borrows something",
    "body" : "Sells it"
}
{
    "_id" : 5,
    "username" : "ScumbagSteve",
    "title" : "Borrows everything",
    "body" : "The end"
}
{
    "_id" : 6,
    "username" : "ScumbagSteve",
    "title" : "Forks your repo on github",
    "body" : "Sets to private"
}
```

```
db.comments.find({}).pretty()
      "_id" : ObjectId("61052872ef14e84ae0fb2e8b"),
      "username" : "GoodGuyGreg",
      "comment" : "Hope you got a good deal!",
      "post" : 4
      " id" : ObjectId("61052872ef14e84ae0fb2e8c"),
      "username": "GoodGuyGreg",
"comment": "What's mine is yours!",
      "post" : 5
      "_id" : ObjectId("61052872ef14e84ae0fb2e8d"),
      "username" : "GoodGuyGreg",
"comment" : "Don't violate the licensing agreement!",
      "post" : 6
      " id" : ObjectId("61052872ef14e84ae0fb2e8e"),
      "username": "ScumbagSteve",
"comment": "It still isn't clean",
      "post" : 1
      " id" : ObjectId("61052872ef14e84ae0fb2e8f"),
      "username" : "ScumbagSteve",
      "comment" : "Denied your PR cause I found a hack",
      "post" : 3
db.comments.find({username: "GoodGuyGreg"}).pretty()
      "_id" : ObjectId("61052872ef14e84ae0fb2e8b"),
      "username" : "GoodGuyGreg",
      "comment" : "Hope you got a good deal!",
      "post" : 4
      " id" : ObjectId("61052872ef14e84ae0fb2e8c"),
      "username" : "GoodGuyGreg",
      "comment" : "What's mine is yours!",
      "post" : 5
      "_id" : ObjectId("61052872ef14e84ae0fb2e8d"),
      "username": "GoodGuyGreg",
      "comment" : "Don't violate the licensing agreement!",
      "post" : 6
```

```
> db.comments.find({username: "ScumbagSteve"}).pretty()
{
        "_id" : ObjectId("61052872ef14e84ae0fb2e8e"),
        "username" : "ScumbagSteve",
        "comment" : "It still isn't clean",
        "post" : 1
}
{
        "_id" : ObjectId("61052872ef14e84ae0fb2e8f"),
        "username" : "ScumbagSteve",
        "comment" : "Denied your PR cause I found a hack",
        "post" : 3
}
> db.posts.find({ title : "Reports a bug in your code"}).pretty()
{
        "_id" : 3,
        "username" : "GoodGuyGreg",
        "title" : "Reports a bug in your code",
        "body" : "Sends you a Pull Request"
}
```