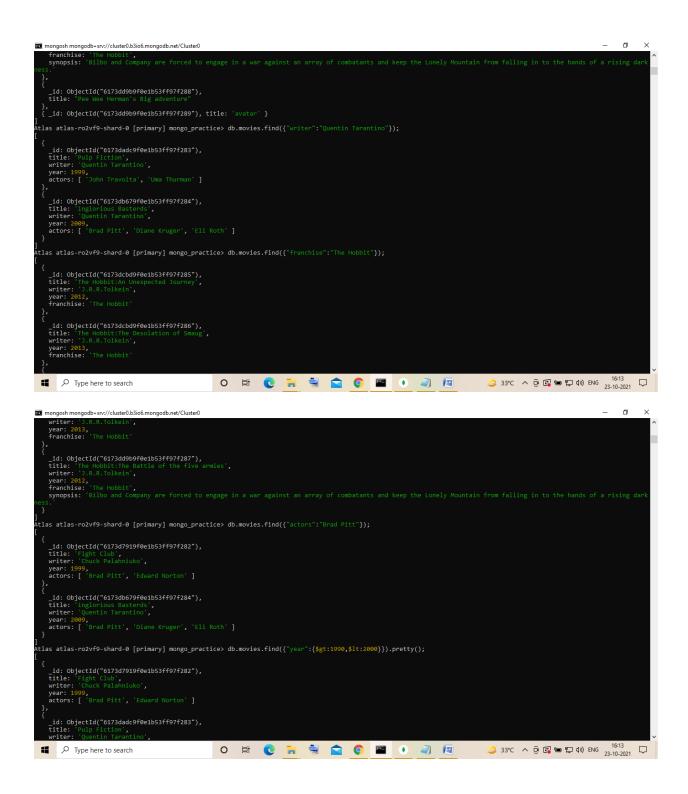
#### **MONGODB-ASSIGNMENT-1**

```
mongosh mongodb+srv://cluster0.b3io6.mongodb.net/Cluster0
                                                                                                                                                                                                                                                                            icrosoft Windows [Version 10.0.18363.1556]
c) 2019 Microsoft Corporation. All rights reserved.
 :\Users\ABC>mongod
mongod' is not recognized as an internal or external command,
perable program or batch file.
  :\Users\ABC>mongod
mongod' is not recognized as an internal or external command,
perable program or batch file.
 :\Users\ABC>mongod
mongod' is not recognized as an internal or external command,
perable program or batch file.
 :\Users\ABC>mongosh "mongodb+srv://cluster0.b3io6.mongodb.net/Cluster0" --username Mrunal -password Mrunal1222
urrent Mongosh Log ID: 6173bd5d5f5d217705a4f883
onnecting to: mongodb+srv://cluster0.b3io6.mongodb.net/Cluster0
sing Mongob8: 4.4.10
sing Mongosh: 1.1.0
  or mongosh info see: https://docs.mongodb.com/mongodb-shell/
 To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (https://www.mongodb.com/legal/privacy-policy).
You can opt-out by running the disableTelemetry() command.
 Atlas atlas-ro2vf9-shard-0 [primary] Cluster0> show dbs
  tlas atlas-ro2vf9-shard-0 [primary] Cluster0> show dbs
dmin 340 kB
ocal 3.8 GB
tlas atlas-ro2vf9-shard-0 [primary] Cluster0> use test
witched to db test
tlas atlas-ro2vf9-shard-0 [primary] test> db.createCollection('Demo');
 ok: 1 } tlas atlas-ro2vf9-shard-0 [primary] test> db.Demo.insert({"name":"ABC"}); eprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
   acknowledged: true,
insertedIds: { '0': ObjectId("6173c0759f0e1b53ff97f280") }
;
titas atlas-ro2vf9-shard-0 [primary] test> use mongo_practice
switched to db mongo_practice
ktlas atlas-ro2vf9-shard-0 [primary] mongo_practice> db.createCollection("movies");
{ ok: 1 }
                                                                                                                                                                                                               (♣ 33°C ^ (♣ (♣ (₽ Ф)) ENG 14:51 ☐ 23-10-2021 ☐
  Type here to search
                                                                                    O # C # S
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Atlas atlas-ro2vf9-shard-0 [primary] mongo_practice> db.movies.find().pretty()
     _id: ObjectId("6173d7919f0e1b53ff97f282"),
title: 'Fight Club',
writer: 'Chuck Palahniuko',
year: 1999,
actors: [ 'Brad Pitt', 'Edward Norton']
     _id: ObjectId("6173dadc9f0e1b53ff97f283"),
title: 'Pulp Fiction',
writer: 'Quentin Tarantino',
year: 1999,
actors: [ 'John Travolta', 'Uma Thurman']
     _id: ObjectId("6173db679f0e1b53ff97f284"),
title: 'inglorious Basterds',
writer: 'Quentin Tarantino',
      wear: 2009,
actors: [ 'Brad Pitt', 'Diane Kruger', 'Eli Roth' ]
     _id: ObjectId("6173dcbd9f0e1b53ff97f285"),
title: 'The Hobbit:An Unexpected Journey',
writer: 'J.R.R.Tolkein',
year: 2012,
franchise: 'The Hobbit'
     _id: ObjectId("6173dcbd9f0e1b53ff97f286"),
title: 'The Hobbit:The Desolation of Smaug
writer: 'J.R.R.Tolkein',
year: 2013,
franchise: 'The Hobbit'
      id: ObjectId("6173dd9b9f0e1b53ff97f287"),
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  Type here to search
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```

#### Insertion:-

db.movies.insert({"title":"Fight Club","writer":"Chuck Palahniuko","year":1999,"actors":["Brad Pitt","Edward Norton"]});

db.movies.insert({"title":"Pulp Fiction","writer":"Quentin Tarantino","year":1999,"actors":["John Travolta","Uma Thurman"]});

db.movies.insert({"title":"inglorious Basterds","writer":"Quentin Tarantino","year":2009,"actors":["Brad Pitt","Diane Kruger","Eli Roth"]});

db.movies.insertMany([{"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.movies.insertMany([{"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 in to the hands of a rising darkness."},{"title":"Pee Wee Herman's Big adventure"},{"title":"avatar"}]);

# Query / Find Documents:-

# To get all documents:-

db.movies.find().pretty()

# To get all documents with writer set to "Quentin Tarantino":-

db.movies.find({"writer":"Quentin Tarantino"});

# To get all documents where actors include "Brad Pitt":-

db.movies.find({"actors":"Brad Pitt"});

# To get all documents with franchise set to "The Hobbit":-

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

# To get all movies released in 90s:-

db.movies.find({"year":{\$gt:1990,\$lt:2000}}).pretty();

# To get all movies released before the year 2000 or after 2010:-

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

#### **Update Documents:-**

```
| Section | Sect
```

1. Add 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.update({"title":"The Hobbit:An Unexpected Journey"},{\$set:{"synopsis":"A reluctant hobbit,Bilo 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."}});

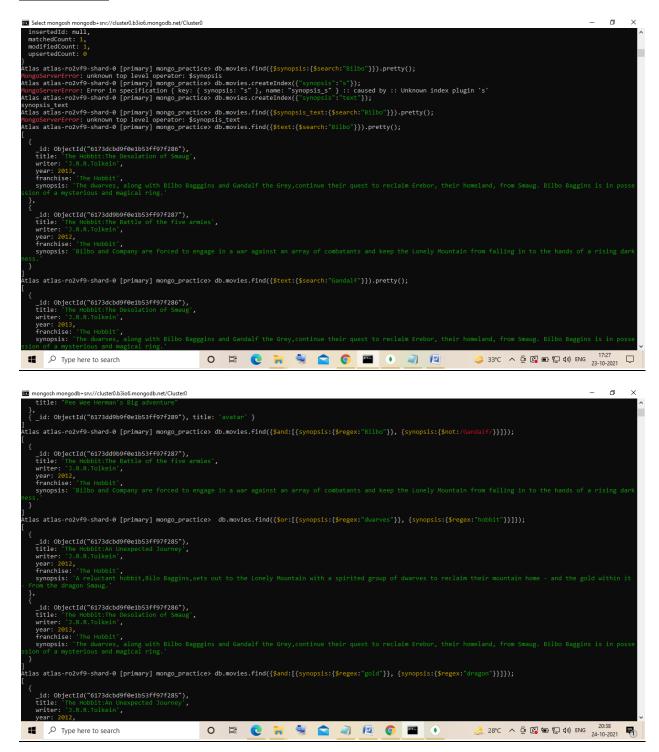
2. Add a synopsis to "The Hobbit: The Desolation of Smaug": "The dwarves, along with Bilbo Baggins and Gandalf the Grey, continue their quest to reclaim Erebor, their homeland, from Smaug. Bilbo Baggins is in possession of a mysterious and magical ring."

db.movies.update({"title":"The Hobbit:The Desolation of Smaug"},{\$set:{"synopsis":"The dwarves, along with Bilbo Bagggins 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.Add an actor named "Samuel L. Jackson" to the movie "Pulp Fiction"

db.movies.update({"title":"Pulp Fiction"},{\$push:{"actors":"Samuel L. Jackson"}} );

#### **TEXT SEARCH:-**



# To find all the movies that have synopsis that contains the word "Bilbo":db.movies.createIndex({"synopsis":"text"}); synopsis\_text db.movies.find({\$text:{\$search:"Bilbo"}}).pretty(); To find all the movies that have synopsis that contains the word "Gandalf":db.movies.find({\$text:{\$search:"Gandalf"}}).pretty(); To find all the movies that have synopsis that contains the word "Bilbo" and not the word "Gandalf":db.movies.find({\$and:[{synopsis:{\$regex:"Bilbo"}}, {synopsis:{\$not:/Gandalf/}}]}); To find all movies that have a synopsis that contains the word "dwarves" or "hobbit":db.movies.find({\$or:[{synopsis:{\$regex:"dwarves"}}, {synopsis:{\$regex:"hobbit"}}]}); To find all movies that have a synopsis that contains the word "gold" and "dragon":db.movies.find({\$and:[{synopsis:{\$regex:"gold"}}, {synopsis:{\$regex:"dragon"}}]});

#### **Delete Documents:-**

```
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mongosh mongodb+srv://cluster0.b3io6.mongodb.net/Cluster0
   mongobs mongobs styl/clustevosion mongobacher(Lustevo
tlas atlas-ro2vf9-shard-0 [primary] mongo_practice> db.movies.remove({_id: ObjectId("6173dd9b9f0e1b53ff97f288")});
acknowledged: true, deletedCount: 1 }
tlas atlas-ro2vf9-shard-0 [primary] mongo_practice> db.movies.remove({_id: ObjectId("6173dd9b9f0e1b53ff97f289")});
acknowledged: true, deletedCount: 1 }
tlas atlas-ro2vf9-shard-0 [primary] mongo_practice> db.movies.find().pretty();
          _id: ObjectId("6173d7919f0e1b53ff97f282"),
title: 'Fight Club',
writer: 'Chuck Palahniuko',
year: 1999,
actors: [ 'Brad Pitt', 'Edward Norton']
            _id: ObjectId("6173dadc9f0e1b53ff97f283"),
title: 'Pulp Fiction',
writer: 'Quentin Tarantino',
van: 1999
           _id: ObjectId("6173db679f0e1b53ff97f284"),
title: 'inglorious Basterds',
writer: 'Quentin Tarantino',
year: 2089,
actors: [ 'Brad Pitt', 'Diane Kruger', 'Eli Roth']
            _id: ObjectId("6173dcbd9f0e1b53ff97f285"), title: 'The Hobbit:An Unexpected Journey',
            Title: 'The Hobbit:An Unexpected Journey',
writer: 'J.R.R.Tolkein',
year: 2012,
franchise: 'The Hobbit',
synopsis: 'A reductant hobbit,Bilo Baggins,sets out to the Lonely Mountain with a spirited group of dwarves to reclaim their mountain home - and the gold within it
rom the dragon Smaug.'
           _id: ObjectId("6173dcbd9f0e1b53ff97f286"),
title: 'The Hobbit: The Desolation of Smaug',
writer: 'J.R.R.Tolkein',
year: 2013,
franchise: 'The Hobbit',
synopsis: 'The dwarves, along with Bilbo Bagggins and Gandalf the Grey,continue their quest to reclaim Erebor, their homeland, from Smaug. Bilbo Baggins is in poss
on of a mysterious and magical ring.'
                                                                                                                                                                             ₩ P Type here to search
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 _id: ObjectId("6173db679f0e1b53ff97f284"),
title: inglorious Basterds',
writer: 'Quentin Tarantino',
year: 2009,
         id: Objected the Hobbit: The Battle of the fire writer: 'J.R.R.Tolkein', year: 2012, franchise: 'The Hobbit', synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis: 'Bilbo and Company are forced to engage in a war synopsis and 'Bilbo and Company are forced to engage in a war synopsis are forced to engage in a war synops
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#### To delete the movie "Pee Wee Herman's Big Adventure":-

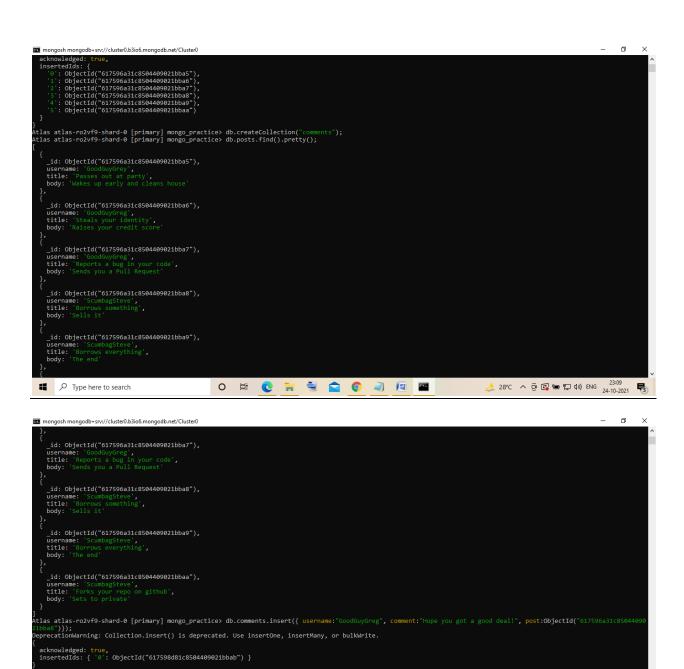
 $db.movies.remove(\{\_id: ObjectId("6173dd9b9f0e1b53ff97f288")\});\\$ 

# To delete the movie "Avatar":-

db.movies.remove({\_id: ObjectId("6173dd9b9f0e1b53ff97f289")});

# **Relationships:-**

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| Imagesh mangedb-tare/(Justen Basic Annogabor Art/Cutter) | Interest Notice (1997) | Interest N
```



tlas atlas-ro2vf9-shard-0 [primary] mongo\_practice> db.comments.insert({ username:"GoodGuyGreg", comment:"What's mine is yours!", post:ObjectId("617596a31c8504409021bl

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<u>人</u> 28°C へ Ĝ 屬 智 如) ENG 23:09 24-10-2021 **3** 

acknowledged: true,
insertedIds: { '0': ObjectId("617599211c8504409021bbac") }

acknowledged: true,
insertedIds: { '0': ObjectId("617599681c8504409021bbad") }

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```

#### Insertions:-

```
db.createCollection("users");
```

```
db.users.insertMany([{"username":"GoodGuyGreg","first_name":"GoodGuy","last_name":"Greg"},{"username":"ScumbagSteve","full_name":{"first":"Scumbag","last":"Steve"}}]);
```

```
db.createCollection("posts");
```

db.posts.insertMany([{"username":"GoodGuyGrey","title":"Passes out at party" ,"body":"Wakes up early and cleans house"},{"username":"GoodGuyGrey","title":"Steals your identity" ,"body":"Raises your credit score"},{"username":"GoodGuyGrey","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"}]);

```
db.createCollection("comments");
```

db.comments.insert({ username: "GoodGuyGreg", comment: "Hope you got a good deal!", post:ObjectId("617596a31c8504409021bba8")});

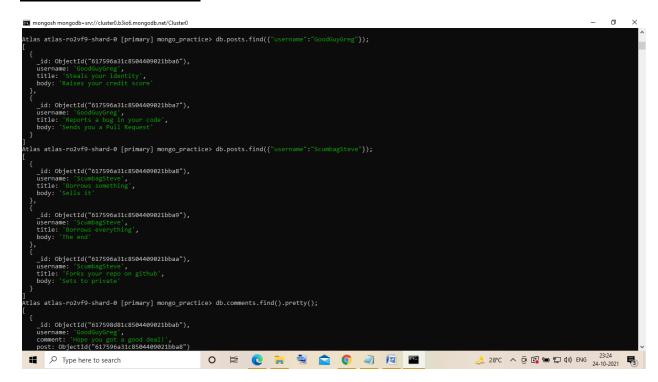
db.comments.insert({ username: "GoodGuyGreg", comment: "What's mine is yours!", post:ObjectId("617596a31c8504409021bba9")});

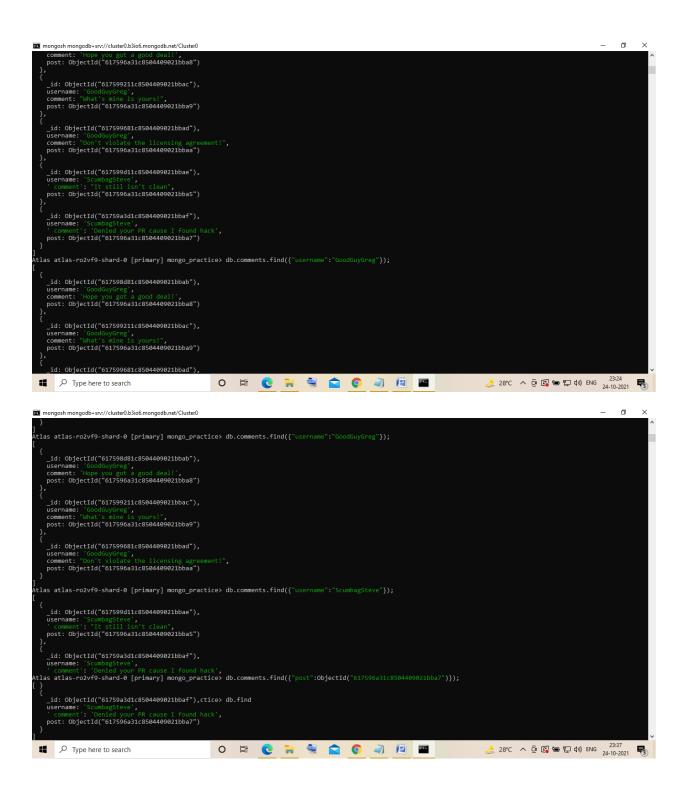
db.comments.insert({ username: "GoodGuyGreg", comment: "Don't violate the licensing agreement!", post:ObjectId("617596a31c8504409021bbaa")});

db.comments.insert({ "username":"ScumbagSteve"," comment":"It still isn't clean", post:ObjectId("617596a31c8504409021bba5")});

db.comments.insert({ "username":"ScumbagSteve"," comment":"Denied your PR cause I found hack", "post":ObjectId("617596a31c8504409021bba7")});

# Querying related collections:-





```
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```

# To find all users:-

db.users.find().pretty();

# To find all posts:-

db.posts.find().pretty();

# To find all posts that was authored by "GoodGuyGreg":-

db.posts.find("username":"GoodGuyGreg");

# To find all posts that was authored by "ScumbagSteve":-

db.posts.find({"username":"ScumbagSteve"});

# To find all comments:-

db.comments.find().pretty();

# To find all comments that was authored by "GoodGuyGreg":-

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

# To find all comments that was authored by "ScumbagSteve":-

db.comments.find({"username":"ScumbagSteve"});

# To find all comments belonging to the post "Reports a bug in your code":-

db.comments.find({post: db.posts.findOne({title: "Reports a bug in your code"}).\_id});

db.comments.find({"post":ObjectId("617596a31c8504409021bba7")});

db.posts.aggregate([{\$match: { title: 'Reports a bug in your code' }},{\$lookup: {from: 'comments',localField: '\_id',foreignField: 'post',as: 'comments'}}]).pretty();

