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MongoDB-Assignments1

MongoDB Exercise in mongo shell

Insert Documents

Insert the following documents into a **movies** collection.

```
icrosoft Windows [Version 10.0.22000.434]
c) Microsoft Corporation. All rights reserved.
 :\Users\yaswa\Downloads\mongodb-windows-x86_64-5.0.6\mongodb-win32-x86_64-windows-5.0.6\bin>mongodb | mongodb+srv://mongodb-project.xhnuc.mongodb.net/myFirstDatabase"
username yaswanth
Enter password: *****
 urrent Mongosh Log ID: 62029d87508b9067f016bd58
 onnecting to:
                              4.4.12
 sing MongoDB:
 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-k85k74-shard-0 [primary] myFirstDatabase> db.creatCollection("movies")
TypeError: db.creatCollection is not a function
Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.createdCollection("movies")
 ypeError: db.createdCollection is not a function
tlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.createCollection("movies")
ktlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.movies.insert({title:"pulp fiction",writer:"quentin taratino",year:"1994",actors:["john travolta uma thurman"]}
 eprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
 acknowledged: true,
insertedIds: { '0': ObjectId("62033bf07864a03e6cbba65c") }
.
Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.movies.insert({title: "inglorious basterds", writer:"quentin tarantino", year: "2009", actors:["brad pitt diame
  ruger eli roth"]})
 acknowledged: true,
insertedIds: { '0': ObjectId("620348877864a03e6cbba65d") }
.
Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.movies.insert({title: "the hobbot: an unexpected jounery", writer:"j.r.r.tolkein", year: "2012", franchise:["th
  hobbit"]})
 acknowledged: true,
insertedIds: { '0': ObjectId("620349287864a03e6cbba65e") }
 tlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.movies.insert({title: "the hobbit: the desolation of smaug", writer: "j.r.r.tolken", year: "2013", franchise:[
Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.movies.insert({title:
  acknowledged: true,
insertedIds: { '0': ObjectId("620349ec7864a03e6cbba65f") }
 tlas atlas-k85k74-shard-0 [primary] myFirstDatabase> 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 intlo the hands
      ["the hobbit"], synopsis:
rising darkness."})
  acknowledged: true,
insertedIds: { '0': ObjectId("62034b5f7864a03e6cbba660") }
 .
Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.movies.insert({title: "the hobbit: the desolation of smaug"})
  acknowledged: true,
insertedIds: { '0': ObjectId("62034bda7864a03e6cbba661") }
 .
Átlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.movies.insert({title: "pee wee hermans big adventure"})
  acknowledged: true,
insertedIds: { '0': ObjectId("62034c247864a03e6cbba662") }
 .
Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.movies.insert({<mark>title</mark>: "avatar"})
  insertedIds: { '0': ObjectId("62034c4a7864a03e6cbba663") }
```

Query / Find Documents

query the movies collection to

- 1. get all documents
- 2. get all documents with writer set to "Quentin Tarantino"
- 3. get all documents where actors include "Brad Pitt"
- 4. get all documents with franchise set to "The Hobbit"
- 5. get all movies released in the 90s
- 6. get all movies released before the year 2000 or after 2010

```
franchise: [ 'the hobbit' ]
    _id: ObjectId("62034b5f7864a03e6cbba666"), title: 'the hobbit:the battle of the five a writer: 'j.r.r.tolkein',
    year: '2012',
franchise: [ 'the hobbit' ],
synopsis: 'bilbo and company
     _id: ObjectId("62034bda7864a03e6cbba661"),
    _id: ObjectId("62034c247864a03e6cbba662"), title: 'pee wee hermans big adventure'
  ,,id: ObjectId("62034c4a7864a03e6cbba663"), title: 'avatar' }
Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.movies.find({writer: "quentin tarantino")
 rocaught:
yntaxError: Unexpected token, expected "," (1:43)
  1 | db.movies.find({writer: "quentin tarantino")
Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.movies.find({writer: "quentin tarantion"})
Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.movies.find({actors: "brad pitt"})
Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.movies.find({franchise: "the hobbit"})
    _id: ObjectId("620349287864a03e6cbba65e"), title: 'the hobbot: an unexpected journery'
    writer:
     year: '2012',
franchise: [ 'the hobbit' ]
```

mongosh mongodb+srv://cluster0.chnhl.mongodb.net/myFirstDatabase

```
id: ObjectId("62023132fe586889b81443e9"),
    title: 'pulp fiction',
writer: 'quentin tarantino',
    year: '1994',
actors: [ 'john travolta uma thurman' ]
.
Atlas atlas-8ak5qr-shard-0 [primary] myFirstDatabase> db.movi.find({year:{$lt:("2000"),$gt:("2010")}})
Atlas atlas-8ak5qr-shard-0 [primary] myFirstDatabase> db.movi.find({$or:[{year:{$lt:"2000"}},{year:{$gt:"2010"}}]})
      _id: ObjectId("62022ef2fe586889b81443e8"),
    title: 'fight club',
writer: 'Chuck Palahniuko',
     year: '1999',
actors: [ 'Brad Pitt Edward Norton' ]
      _id: ObjectId("62023132fe586889b81443e9"),
    _id: Objectio( 62023132fe880889081443e9" title: 'pulp fiction', writer: 'quentin tarantino', year: '1994', actors: [ 'john travolta uma thurman' ]
      _id: ObjectId("6202324bfe586889b81443eb"),
    title: 'the hobbit:an unexpected journey', writer: 'j.r.r.tolkein',
     year: '2012',
franchise: [ 'the hobbit' ]
      _id: ObjectId("620235eefe586889b81443ec"),
    title: 'the hobbit:the desolation of smaug', writer: 'j.r.r.tolkein',
     year: '2013',
franchise: [ 'the hobbit' ]
      _id: ObjectId("620236a7fe586889b81443ed"),
    title: 'the hobbit:the battle of the five armies',
writer: 'j.r.r.tolkein',
    year: '2012',
franchise: [ 'the hobbit' ],
synopsis: 'bilbo and company
```

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

```
atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.movies.update({title:"the hobbit:an unexpected journey"},{$set:{synopsis:"a reluctant hobbit,bilbo baggins,sets out to the the lonely mountain with a spirited group of dwarves to reclaim their mountain home-and the gold within it-from the dragon smaug"}})

DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.

{
    acknowledged: true, insertedfd: null, matchedCount: 0, upsertedCount: 0, upsertedCount: 0
}

Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.movies.update({title:"the hobbit:the desolation of smaug"}, ($set:{synopsis:"the dwarves,along with bilbo baggins and sandgandalf the grey,continue their quest to reclaim erebor, their homeland, from smaug.bilbo baggins is in possession of a mysterious and magical ring"}))

acknowledged: true, insertedfd: null, matchedCount: 0, upsertedCount: 1, upsertedCount: 1, upsertedCount: 1, upsertedCount: 1, upsertedCount: 0, upsertedCount: 0, upsertedCount: 0, upsertedCount: 1, upsertedCount: 0, upsertedCount: 0, upsertedCount: 0, upsertedCount: 1, upsertedCount: 0, upsertedCount: 0, upsertedCount: 1, upsertedCount: 0, upsertedCount:
```

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"
- 4. find all movies that have a synopsis that contains the word "dwarves" or "hobbit"

find all movies that have a synopsis that contains the word "gold" and "dragon"

Delete Documents

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

```
Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.movies.remove({title:"pee wee hermans big adventure"})

DeprecationWarning: Collection.remove() is deprecated. Use deleteOne, deleteMany, findOneAndDelete, or bulkWrite.
{ acknowledged: true, deletedCount: 1 }

Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.movies.remove({title:"avatar"})
{ acknowledged: true, deletedCount: 1 }
```

Relationships

Insert the following documents into a users collection

```
mongosh mongodb-srv//mongodb-projectxhnuc.mongodb.net/myfirstDatabase
Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.createCollection("user")
{
    ok: 1 }
Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.user.insert({username:"goodguygreg", firstname:"good guy",lastname:"greg"})
{
    acknowledged: true,
    insertedIds: { '0': ObjectId("6203a09f7864a03e6cbba664") }
}
Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.user.insert({username:"scumbagsteve",firstname:"scumbag",lastname:"steve"})
{
    acknowledged: true,
    insertedIds: { '0': ObjectId("6203a0fb7864a03e6cbba665") }
```

Insert the following documents into a posts collection

```
Atlas atlas-k8sK74-shard-0 [primary] myFirstDatabase> db.post.insert({id:"1",username:"goodguygreg",title:"passes out at party", body:"wakes up early and clean house"})

{ acknowledged: true, insertedIds: { '0': ObjectId("6203a1997864a03e6cbba666") } 
} 
Atlas atlas-k8sK74-shard-0 [primary] myFirstDatabase> db.posts.insert({id:"2",username:"goodguygreg",title:"steals your identity", body:"raise your credit score"}) 
Atlas atlas-k8sK74-shard-0 [primary] myFirstDatabase> db.posts.insert({id:"3",username:"goodguygreg",title:"reports a bug in your code", body:"sends you a pull request" 
} 
Atlas atlas-k8sK74-shard-0 [primary] myFirstDatabase> db.posts.insert({id:"3",username:"goodguygreg",title:"reports a bug in your code", body:"sends you a pull request" 
} 
{ acknowledged: true, insertedIds: { '0': ObjectId("6203a2887864a03e6cbba666") } 
} 
Atlas atlas-k8sK74-shard-0 [primary] myFirstDatabase> db.posts.insert({id:"4",username:"scumbagsteve",title:"borrows something",body:"sells it")) 
{ acknowledged: true, insertedIds: { '0': ObjectId("6203a3197864a03e6cbba669") } 
} 
Atlas atlas-k8sK74-shard-0 [primary] myFirstDatabase> db.posts.insert({id:"5",username:"scumbagsteve",title:"borrows everything",body:"the end"}) 
ReferenceError:
Atlas atlas-k8sK74-shard-0 [primary] myFirstDatabase> db.posts.insert({id:"5",username:"scumbagsteve",title:"borrows everything",body:"the end"}) 
Acknowledged: true, insertedIds: { '0': ObjectId("6203a3097864a03e6cbba660") } 

Atlas atlas-k8sK74-shard-0 [primary] myFirstDatabase> db.posts.insert({id:"5",username:"scumbagsteve",title:"borrows everything",body:"the end"}) 
Acknowledged: true, insertedIds: { '0': ObjectId("6203a3097864a03e6cbba660") } 

Atlas atlas-k8sK74-shard-0 [primary] myFirstDatabase> db.posts.insert({id:"6",username:"scumbagsteve",title:"forks your repo on github",body:"sets to private"}) 

Acknowledged: true, insertedIds: { '0': ObjectId("6203a4627864a03e6cbba660b") } 

Atlas atlas-k8sK74-shard-0 [primary] myFirstDatabase> db.posts.insert({id:"6",username:"scumbagstev
```

Insert the following documents into a **comments** collection

```
Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.comments.insert({username:"goodguygreg",comment:"whats mine is yours!",post:"2"})

Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.comments.insert({username:"goodguygreg",comment:"whats mine is yours!",post:"2"})

Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.commens.insert({username:"goodguygreg",comment:"dont violate the licensing agreement!",post:"3"})

Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.commens.insert({username:"goodguygreg",comment:"dont violate the licensing agreement!",post:"3"})

Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.comments.insert({username:"scumbagsteve",comment:"it still isnt clean",post:"4"})

acknowledged: true,
    insertedIds: { '0': ObjectId("6203ae997864a03e6cbba66e") }

Atlas atlas-k85k74-shard-0 [primary] myFirstDatabase> db.comments.insert({username:"scumbagsteve",comment:"denied your pr cause i found a hack",post:"5"})

acknowledged: true,
    insertedIds: { '0': ObjectId("6203aeef7864a03e6cbba66f") }
```

Querying related collections

- 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"
- 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"