Assignment 1

MongoDB Exercise in mongo shell

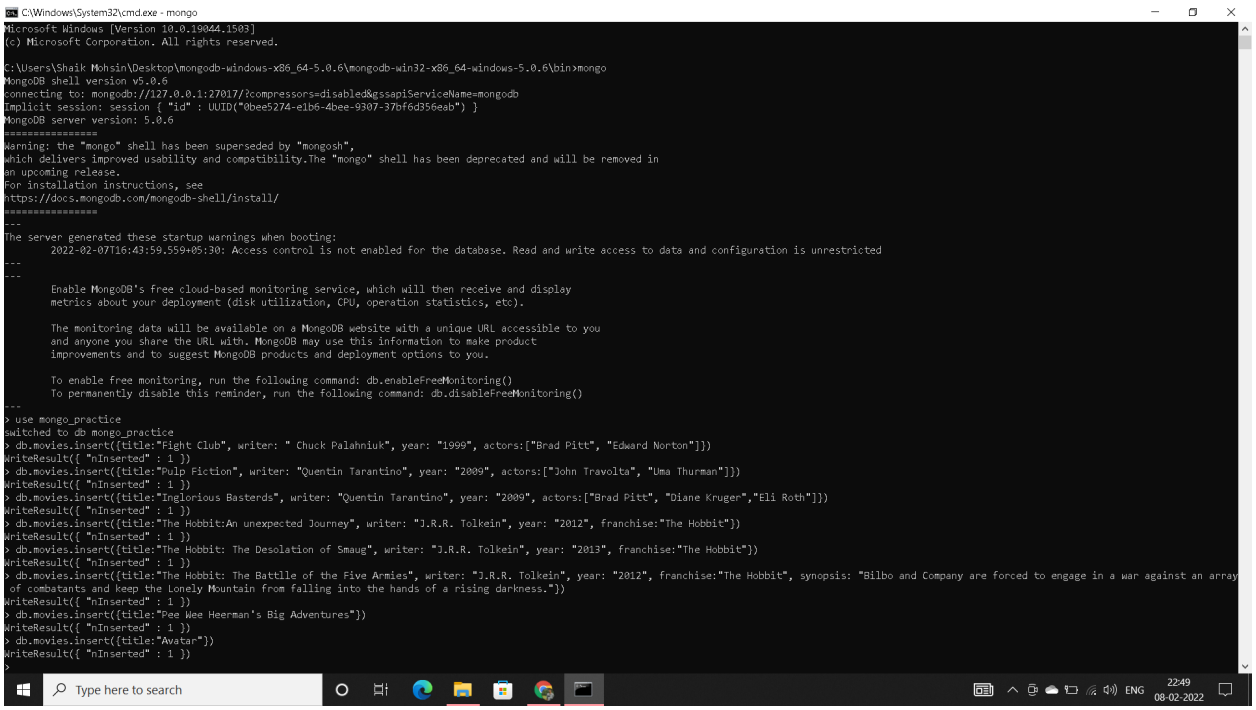
SHAIK MOHSIN S

Connect to a running mongo instance, use a database named mongo_practice. Document all your queries in a javascript file to use as a reference.

Insert Documents Insert the following documents into a movies collection.

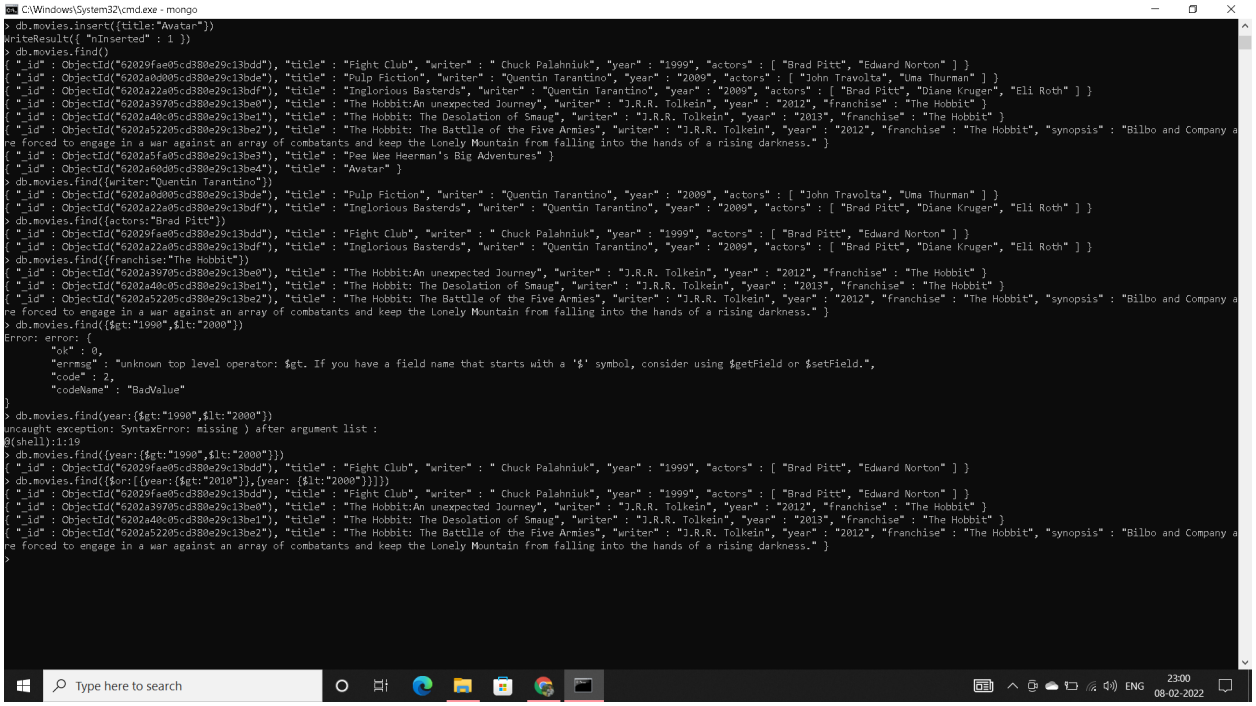
title : Fight Club
writer : Chuck Palahniuko
year : 1999
actors : [
 Brad Pitt
 Edward Norton
]
title : Pulp Fiction
writer : Quentin Tarantino
year : 1994
actors : [
 John Travolta
 Uma Thurman
]
title : Inglorious Basterds
writer : Quentin Tarantino
year : 2009
actors : [
 Brad Pitt
 Diane Kruger
 Eli Roth
]
title : The Hobbit: An Unexpected Journey
writer : J.R.R. Tolkein
year : 2012
franchise : The Hobbit
title : The Hobbit: The Desolation of Smaug
writer : J.R.R. Tolkein
year : 2013
franchise : The Hobbit
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.
title : Pee Wee Herman's Big Adventure
title : Avatar



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

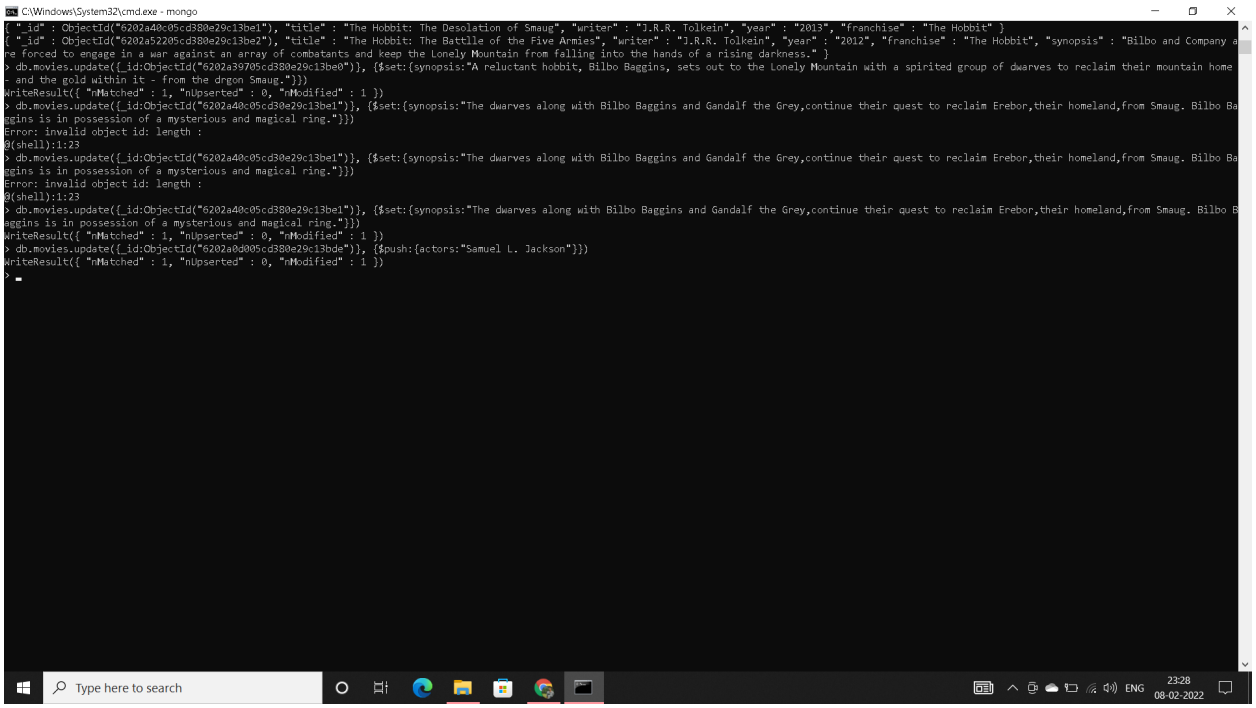


Update Documents

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."

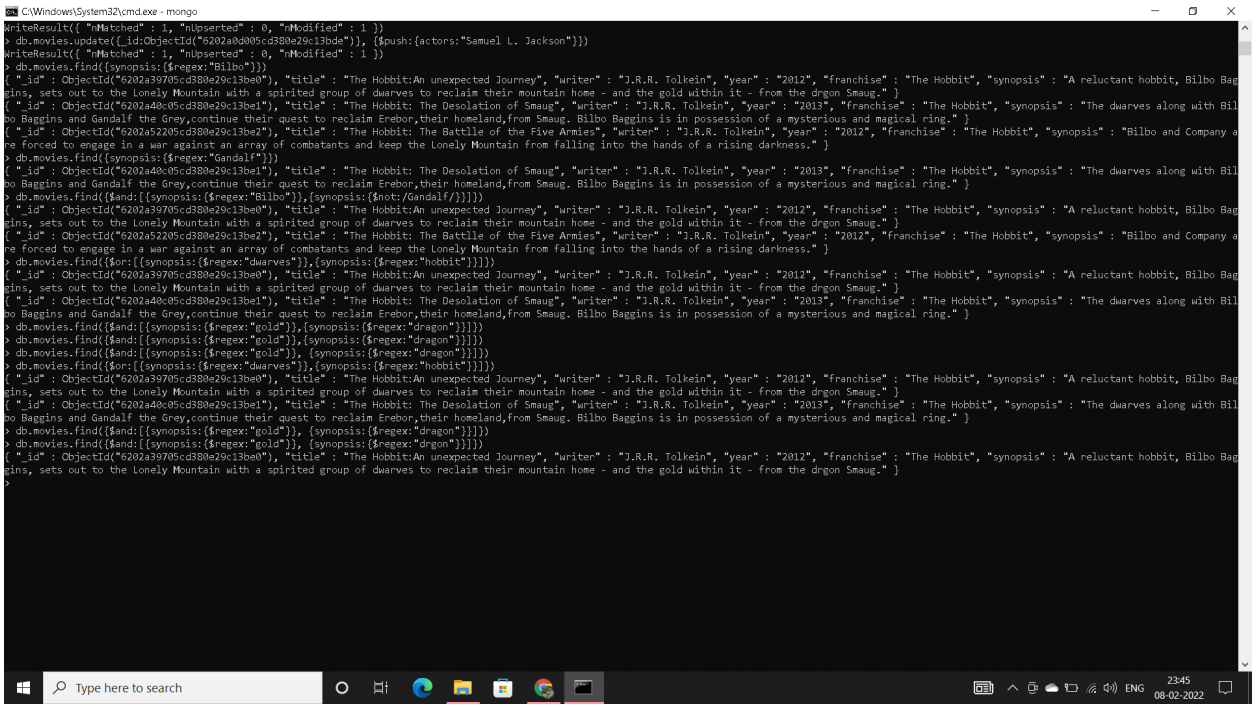
2. add a synopsis to "The Hobbit: The Desolation of Smaug" : "The dwarves, along with Bilbo Baggins and Gandalf the Grey, continue their quest to reclaim Erebor, their homeland, from Smaug. Bilbo Baggins is in possession of a mysterious and magical ring."

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



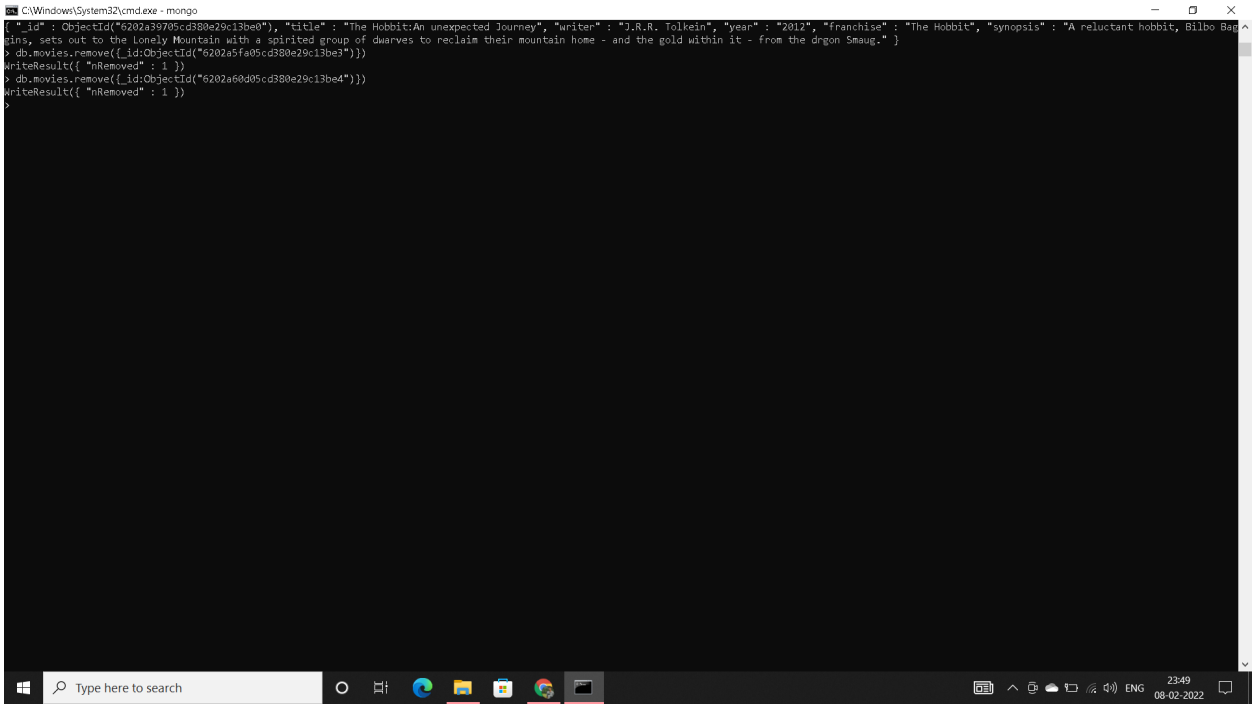
Text Search

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"
5. find all movies that have a synopsis that contains the word "gold" and "Dragon"



Delete Documents

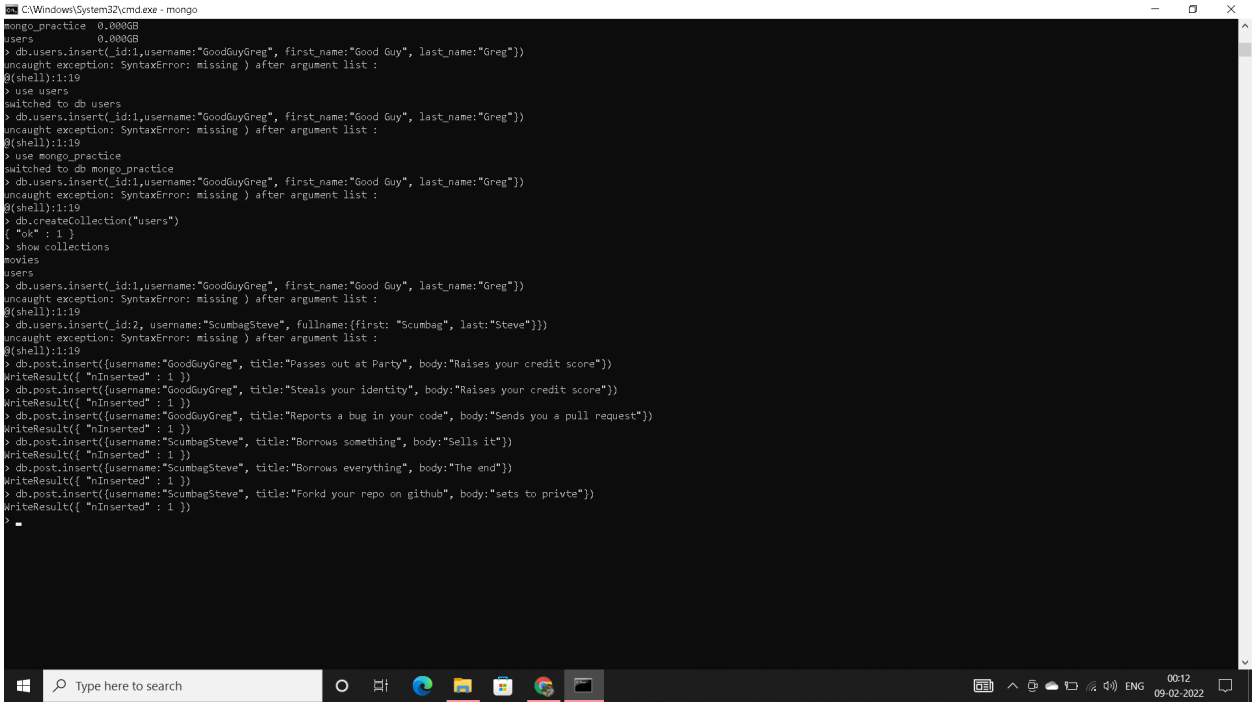
1. delete the movie "Pee Wee Herman's Big Adventure"
2. delete the movie "Avatar"

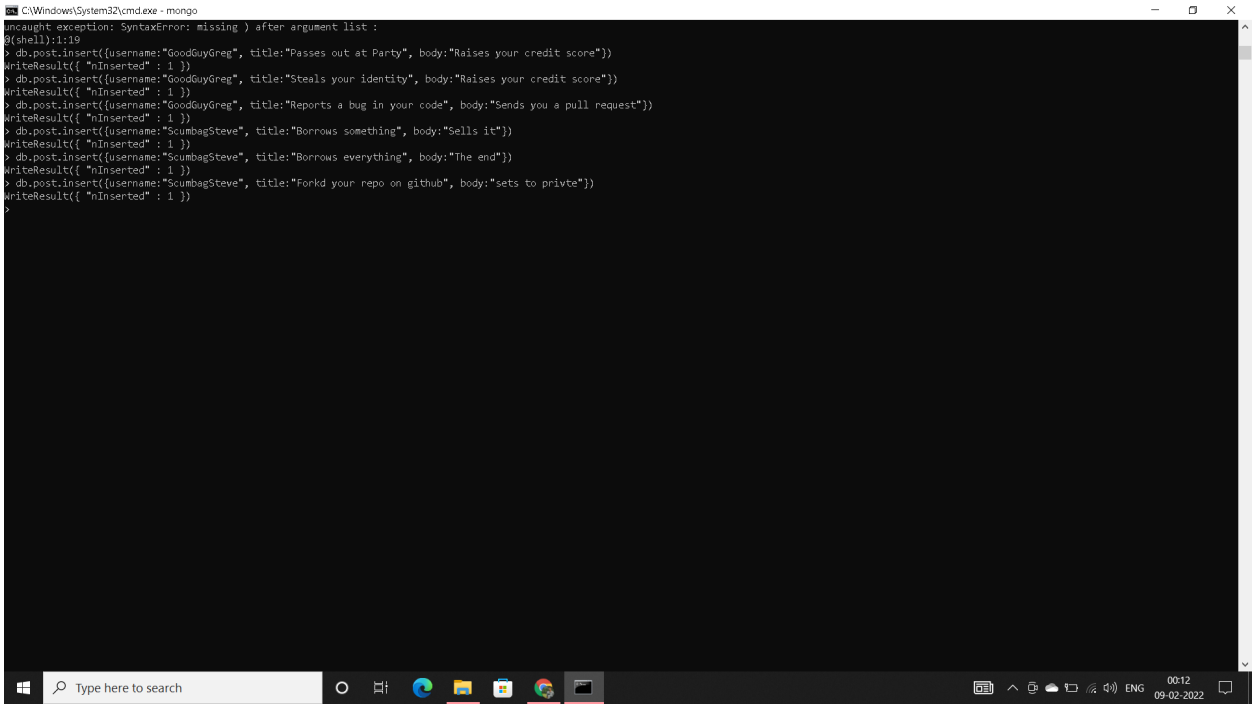


Relationships

Insert the following documents into a users collection
username : GoodGuyGreg
first_name : "Good Guy"
last_name : "Greg"
username : ScumbagSteve
full_name :
 first : "Scumbag"
 last : "Steve"

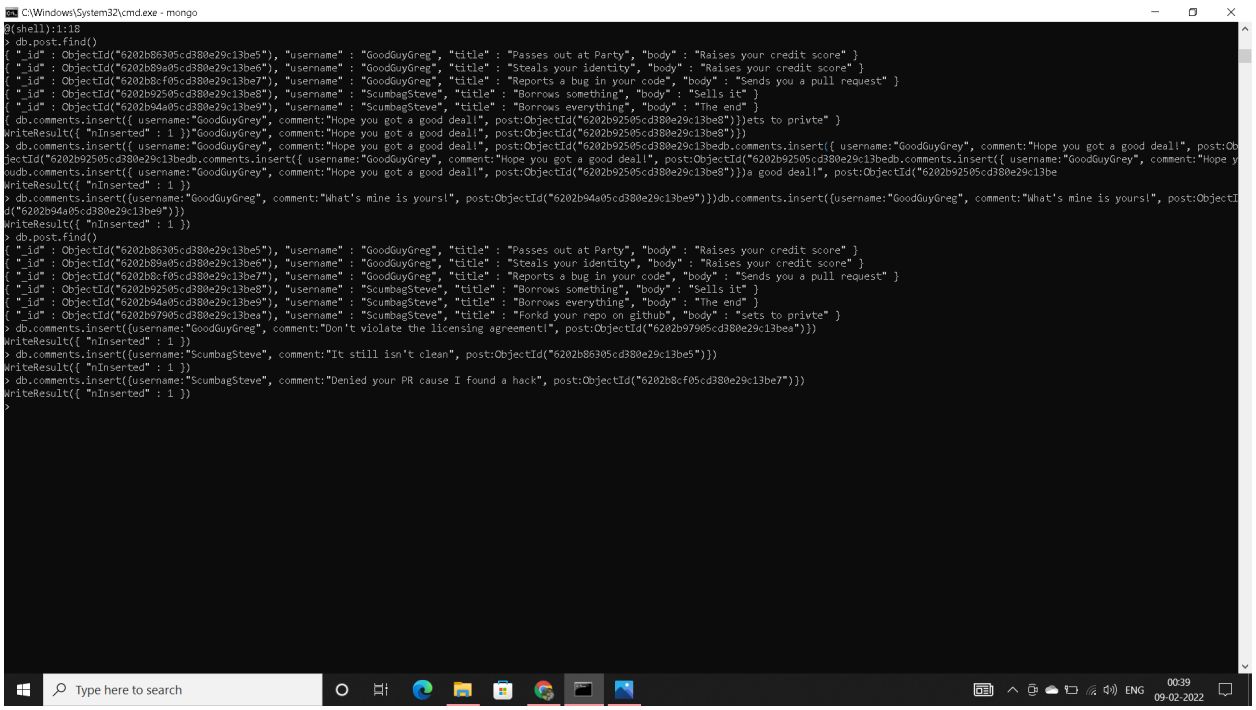
Insert the following documents into a posts collection
username : GoodGuyGreg
title : Passes out at party
body : Wakes up early and cleans house
username : GoodGuyGreg
title : Steals your identity
body : Raises your credit score
username : GoodGuyGreg
title : Reports a bug in your code
body : Sends you 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





Insert the following documents into a comments collection
username : GoodGuyGreg
comment : Hope you got a good deal!
post : [post_obj_id]
where [post_obj_id] is the ObjectId of the posts document: "Borrows something"
username : GoodGuyGreg

comment : What's mine is yours!
post : [post_obj_id]
where [post_obj_id] is the ObjectId of the posts document: "Borrows everything"
username : GoodGuyGreg
comment : Don't violate the licensing agreement!
post : [post_obj_id]
where [post_obj_id] is the ObjectId of the posts document: "Forks your repo on github
username : ScumbagSteve
comment : It still isn't clean
post : [post_obj_id]
where [post_obj_id] is the ObjectId of the posts document: "Passes out at party"
username : ScumbagSteve
comment : Denied your PR cause I found a hack
post : [post_obj_id]
where [post_obj_id] is the ObjectId of the posts document: "Reports a bug in your Code"



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"