**Name: Ria Singh**

**MongoDB Lab Assignments -Day 1**

**MongoDB Exercise in mongo shell**

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







Reference https[://ww](http://www.tutorialspoint.com/mongodb/mongodb_insert_document.htm)w.t[utorialspoint.com/mongodb/mongodb\_insert\_document.htm](http://www.tutorialspoint.com/mongodb/mongodb_insert_document.htm)

**Query / Find Documents**

query the **movies** collection to

* get all documents









* get all documents with writer set to "Quentin Tarantino"



* get all documents where actors include "Brad Pitt"



* get all documents with franchise set to "The Hobbit"



* get all movies released in the 90s



* get all movies released before the year 2000 or after 2010



Reference: https[://ww](http://www.tutorialspoint.com/mongodb/mongodb_query_document.htm)w.t[utorialspoint.com/mongodb/mongodb\_query\_document.htm](http://www.tutorialspoint.com/mongodb/mongodb_query_document.htm)

**Update Documents**

* 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."





* 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."



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



Reference: https[://ww](http://www.tutorialspoint.com/mongodb/mongodb_update_document.htm)w.t[utorialspoint.com/mongodb/mongodb\_update\_document.htm](http://www.tutorialspoint.com/mongodb/mongodb_update_document.htm)

**Text Search**

* find all movies that have a synopsis that contains the word "Bilbo"
* find all movies that have a synopsis that contains the word "Gandalf"
* find all movies that have a synopsis that contains the word "Bilbo" and not the word "Gandalf"
* 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"

Reference: https[://w](http://www.tutorialspoint.com/mongodb/mongodb_text_search.htm)ww[.t](http://www.tutorialspoint.com/mongodb/mongodb_text_search.htm)u[torialspoint.com/mongodb/mongodb\_text\_search.htm](http://www.tutorialspoint.com/mongodb/mongodb_text_search.htm)

**Delete Documents**

* delete the movie "Pee Wee Herman's Big Adventure"
* delete the movie "Avatar"

Reference: https[://ww](http://www.tutorialspoint.com/mongodb/mongodb_delete_document.htm)w.t[utorialspoint.com/mongodb/mongodb\_delete\_document.htm](http://www.tutorialspoint.com/mongodb/mongodb_delete_document.htm)

**Relationships**

username : GoodGuyGreg first\_name : "Good Guy" last\_name : "Greg" username : ScumbagSteve full\_name :

first : "Scumbag" last : "Steve"

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

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**

* find all users
* find all posts
* find all posts that was authored by "GoodGuyGreg"
* find all posts that was authored by "ScumbagSteve"
* find all comments
* find all comments that was authored by "GoodGuyGreg"
* find all comments that was authored by "ScumbagSteve"
* find all comments belonging to the post "Reports a bug in your code"

References: <https://docs.mongodb.com/manual/reference/method/db.collection.find/>

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db.movies.insertMany([{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 Mountains from falling into the hands of a rising darkness."},

{Title: "Pee Wee Herman's Big Adventure"},

{Title: "Avatar"}])