

## MongoDB Lab Assignments -Day 1

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### 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

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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://www.tutorialspoint.com/mongodb/mongodb\\_insert\\_document.htm](https://www.tutorialspoint.com/mongodb/mongodb_insert_document.htm)

## Query / Find Documents

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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

Reference:

[https://www.tutorialspoint.com/mongodb/mongodb\\_query\\_document.htm](https://www.tutorialspoint.com/mongodb/mongodb_query_document.htm)

## Update Documents

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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"

Reference:

[https://www.tutorialspoint.com/mongodb/mongodb\\_update\\_document.htm](https://www.tutorialspoint.com/mongodb/mongodb_update_document.htm)

## Text Search

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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"

Reference: [https://www.tutorialspoint.com/mongodb/mongodb\\_text\\_search.htm](https://www.tutorialspoint.com/mongodb/mongodb_text_search.htm)

## Delete Documents

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

Reference:

[https://www.tutorialspoint.com/mongodb/mongodb\\_delete\\_document.htm](https://www.tutorialspoint.com/mongodb/mongodb_delete_document.htm)

## Relationships

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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"

[illegible]