# Mongo DB Basic Assignment

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## **Query / Find Documents**

query the movies collection to

1. get all documents

Sol:

## db.movies.find().pretty()

- The cursor.pretty() method beautify the JSON documents or the collections within in the Mongo shell.
- 2. get all documents with writer set to "Quentin Tarantino"

Sol:

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

3. get all documents where actors include "Brad Pitt"

Sol:

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

4. get all documents with franchise set to "The Hobbit"

Sol:

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

5. get all movies released in the 90s

Sol:

# db.movies.find({ \$and:[ {year:{\$gte:1990}}, {year:{\$lt:2000}} ] }).pretty()

- \$and performs a logical AND operation on an array of one or more expressions
- 6. get all movies released before the year 2000 or after 2010 Sol:

## db.movies.find({\$or:[{year:{\$lt:2000}},{year:{\$gt:2010}}]}

• The \$or operator performs a logical OR operation on an array of two or more <expressions> and selects the documents that satisfy at least one of the <expressions>.

#### **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."

Sol:

db.movies.updateOne({title:"The Hobbit: An Unexpected Journey"},{\$set:{synopsis:"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."}})

- Update a single document in a collection based on a query filter.
- The \$set operator replaces the value of a field with the specified value.

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."

Sol:

db.movies.updateOne({title:"The Hobbit: The Desolation of Smaug"},{\$set:{synopsis:"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"

Sol:

db.movies.updateOne({title:"Pulp Fiction"},{\$addToSet:{actors:"Samuel L. Jackson"}})

#### Text Search

1. find all movies that have a synopsis that contains the word "Bilbo"

```
Sol:
      db.movies.find({$text:{$search:"Bilbo"}}).pretty()
   2. find all movies that have a synopsis that contains the word "Gandalf"
Sol:
      db.movies.find({$text:{$search:"Gandalf"}}).pretty()
   3. find all movies that have a synopsis that contains the word "Bilbo" and not the
      word "Gandalf"
Sol:
      db.movies.find({$and:[{synopsis:{$regex:"Bilbo"}},
      {synopsis:{$not:/Gandalf/}}]}).pretty()
   4. find all movies that have a synopsis that contains the word "dwarves" or "hobbit"
Sol:
      db.movies.find({$or:[{synopsis:{$regex:"dwarves"}},
      {synopsis:{$regex:"hobbit"}}]}).pretty()
   5. find all movies that have a synopsis that contains the word "gold" and "dragon"
Sol:
      db.movies.find({$and:[{synopsis:{$regex:"gold"}},
      {synopsis:{$regex:"dragon"}}]}).pretty()
Delete Document
   1. delete the movie "Pee Wee Herman's Big Adventure"
Sol:
      db.movies.remove({title:"Pee Wee Herman's Big Adventure"})
```

db.movies.remove({title:"Avatar"})

2. delete the movie "Avatar"

Sol:

# **Querying related collections**

1. find all users Sol: db.users.find().pretty() 2. find all posts Sol: db.posts.find().pretty() 3. find all posts that was authored by "GoodGuyGreg" Sol: db.posts.find({username:"GoodGuyGreg"}).pretty() 4. find all posts that was authored by "ScumbagSteve" Sol: db.posts.find({username:"ScumbagSteve"}).pretty() 5. find all comments Sol: db.comments.find().pretty() 6. find all comments that was authored by "GoodGuyGreg" Sol: db.comments.find({username:"GoodGuyGreg"}).pretty() 7. find all comments that was authored by "ScumbagSteve" Sol: db.comments.find({username:"ScumbagSteve"}).pretty() 8. find all comments belonging to the post "Reports a bug in your code" Sol:

db.comments.find({post:{\$regex:"Reports a bug in your code"}})