**MongoDB Lab Assignments -1 Submitted By: Akash Satyedev**

1.Insert Documents - Insert the following documents into a movies collection.

db.movies.insert({title:"Pulp Fiction",writer:"Quentin Tarantino",year:"2009",actors:["John Travolta","Uma Thurman"]})

db.movies.insert({title:"Inglorious Basterds",writer:"Quentin Tarantino",year:"2009",actors:["Brad Pitt","Diane Kruger","Eli Roth"]})

db.movies.insert({title:"The Hobbit: An unexpected Journey",writer:"J.R.R Tolkein",year:"2012",franchise:"The Hobbit"})

db.movies.insert({title:"The Hobbit: The Desolation of Smaug",writer:"J.R.R Tolkien",year:"2013",franchise:"The Hobbit"})

db.movies.insert({title:"The Hobbit: The Battle of the Five Armies",writer:"J.R.R Tolkien",year:"2002", 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."})

db.movies.insert({title:"Pee Wee Herman's Big Adventures"})

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

2.Query / Find Documents query the movies collection to

1. get all documents

db.movies.find()

2. get all documents with writer set to "Quentin Tarantino"

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

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

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

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

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

5. get all movies released in the 90s

db.movies.find({year:{$gt:1990, $lt:2000}})

6. get all movies released before the year 2000 or after 2010

db.movies.find({$or:[{year:{$lte:2000}}, {year:{$gte:2010}}]})

3. Update Documents

db.movies.update({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."}})

db.movies.update({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."}})

db.movies.update({title: "Pulp Fiction"}, {$push: {actors: "Samuel L. Jackson"}})

4.Text Search

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

*db.movies.find({$text: {$search: "Bilbo"}})*

2. find all movies that have a synopsis that contains the word "Gandalf"

*db.movies.find({$text: {$search: "Gandalf"}})*

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

*db.movies.find({$text: {$search: "Bilbo -Gandalf"}})*

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

*db.movies.find({$text: {$search: "dwarves hobbit"}})*

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

*db.movies.find({$text: {$search: "gold dragon"}})*

5.Delete Document

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

*db.movies.remove({title: "Pee Wee Herman's Big Adventure"})*

1. delete the movie "Avatar"

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