Document DB exercise - MongoDB

Consider the dataset *movies.json*.
Write a python script that does the following:

Create collection:

1. Create a mongo db named: *mongo_exercises*
2. On this DB create a collection *movies*:
    a. List all the collections in the DB (is movies collection created?why?)
3. Insert the previous dataset;

Query/Find Documents:

1. Print all documents in the collection movies;
2. Print all documents with writer set to "Quentin Tarantino";
3. Print all documents where actors include "Brad Pitt";
4. Print all documents with franchise set to "The Hobbit";
5. Print all movies released in the 90s (1990-2000);
6. Print all movies released before the year 2000 or after 2010;

Update Documents:

1. Add a synopsis to the movie "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 movie "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" (Tip: you can try using push);

Text Search:

1. Create a text index on synopsis field;
2. find all movies that have a synopsis that contains the word "Bilbo";
3. find all movies that have a synopsis that contains the word "Gandalf";

Aggregation:

1. Get the number of movies;
2. Get the number of movies released in the 90s;
3. Get the number of movies released before the year 2000 or after 2010;