Tufts University
Department of Computer Science
COMP 20: Web Programming
Spring 2014
Practice Quiz 3. Closed Book.

NAME: _____ LOGIN:_____

Quiz 3 will cover the following topics:

- Assignment 4
- Lab 7
- Web applications with Node.js + Express
- MongoDB
- Basic web security

You will not be tested on Heroku.

Practice Question

Below is a table / spreadsheet of actors and actresses in movies:

name	m	f	title	year
Carrie Fisher	f		Star Wars: A New Hope	1977
Carrie Fisher	f		The Empire Strikes Back	1980
Carrie Fisher	f		Return of the Jedi	1983
Mark Hamill	m		Star Wars: A New Hope	1977
Mark Hamill	m		The Empire Strikes Back	1980
Mark Hamill	m		Return of the Jedi	1983
Harrison Ford	m		Star Wars: A New Hope	1977
Harrison Ford	m		The Empire Strikes Back	1980
Harrison Ford	m		Return of the Jedi	1983
Harrison Ford	m		Indiana Jones	1981

1. How many documents are there?
2. Write the commands to insert the records into a Mongo DB.
3. Write the command to find all the movies that Harrison Ford have been in.
4. Describe any inefficiencies of inserting each record individually. Describe another way to organize the data.

Answers

1. 10
2. db.movies.insert({"name":"Carrie Fisher", "m_f":"f", "title":"Star Wars: A New Hope", "year"1977}); ...
3. db.movies.find({"name":"Harrison Ford"});
4. If you search for all movies that has a particular actor/actress, multiple records with the same information (i.e., the name of actor/actress) will be returned. Perhaps have one record for actor/actress but have a key named "movies" with the value being a list of movies. Example: {"name":"Harrison Ford", "movies":{"title":...}}