CS315: Assignment 3

Total Marks: 100
Due on: 7th April, 2015, 11:59pm

Download the data files from here:
https://drive.google.com/file/d/0BwPwkWvvfazQWjF3RGd0eFIyT0k/view?usp=sharing

Tips to students for running the commands (linux/mac):
1. Run the following on your command line before trying to run the commands below
   export PATH = $PATH:"the complete path to your bin directory for Mongo"
2. Start MongoDB daemon before attempting to run the commands

Data Import: Uzip sampledata.zip and change directory to it. Run the following to import data:
   mongorestore (.exe) -d digg sampledata/dump/digg
   mongorestore (.exe) -d training -c scores sampledata/dump/training/scores.bson
   mongoimport (.exe) -d twitter -c tweets sampledata/twitter.json

Exercises Set 1

1. In the training database, find all documents in the scores collection where the score is less than 65. (15 points)
2. Find the lowest quiz score. Find the highest quiz score. (15 points)
3. In the digg.stories collection, write a query to find all stories where the view count is greater than 1000. (15 points)
4. Find all digg stories where the topic name is Television or the media type is 'videos'. Skip the first 5 results, and limit the result set to 10. (15 points)
5. Query for all digg stories whose media type is either news or images and where the topic name is Comedy. (For extra practice, construct two queries using different sets of operators to do this.) (15 points)

Reference:
- http://docs.mongodb.org/manual/reference/operators/
- http://docs.mongodb.org/manual/reference/method/db.collection.find/
- http://docs.mongodb.org/manual/reference/method/cursor.sort/
- http://docs.mongodb.org/manual/reference/method/cursor.skip/
- http://docs.mongodb.org/manual/reference/method/cursor.limit/

Exercises Set 2

1. Using the training.scores namespace, set the proper grade attributes. For example, users with scores greater than 90 get an A. Set the grade to B for scores falling between 80 and 90. (15 points)
2. You're being nice, so you decide to add 10 points to every score on every exam whose score is lower than 60. How do you do this update? (10 points)

Mr ARNAB GHOSH

Booking reference: 4C2C5P

Electronic ticket:	618-2409852602
Date of issue:	11 Apr 2015
Place of issue:	online booking
IATA number:	14395625

Dear Mr GHOSH

Thank you for using the Singapore Airlines Electronic Ticket service. This is your travel itinerary.
We appreciate your patronage and look forward to serving you again in the near future.
Sincerely,
Singapore Airlines

Flight Details

SQ503

Singapore Airlines ECONOMY

Departs:	Bengaluru (BLR)	Tue, 26 May 2015 23:05	Status: CONFIRMED
Arrives:	Singapore (SIN)	Wed, 27 May 2015 06:10	Checked bags: 30KG
Not valid before: Tue, 26 May 2015		Not valid after: Tue, 26 May 2015	

SQ502

Singapore Airlines ECONOMY

Departs:	Singapore (SIN) Terminal 2	Sat, 30 May 2015 20:05	Status: CONFIRMED
Arrives:	Bengaluru (BLR)	Sat, 30 May 2015 21:50	Checked bags: 30KG
Not valid before: Sat, 30 May 2015		Not valid after: Sat, 30 May 2015	

Payment details

Ticket fare:	INR	19,000.00
Airline Fuel and Insurance Surcharge	INR	12,828
Airline Fuel and Insurance Surcharge	INR	624
Service Tax on Premium class travel	INR	1,605
User Development Fee(Domestic/International)	INR	1,378
Passenger Service Fee (Domestic/International)	INR	147
Passenger Service and Security Charge	INR	914
Aviation Levy	INR	280
Passenger Security Service Charge	INR	368
Ticket amount:	INR	37,144

Form of payment:
Visa Card - XXXXXXXXXXXX8445

Restrictions:
VLD SQ/MI ONLY/ NON-ENDO/NON-REF