Homework 8

March 21, 2017

Due: 4/6/17

Assignment: You have been given a students.json file in order to do some analysis with MongoDB. Please write the following queries and show their results. Where a particular format is desired, you should match the format. The given sample may not be the correct answer.

1. A list of student names and their ID. Sample:

```
{ "name" : { "first" : "Sara", "last" : "Burns" }, "id" : "56224" }
{ "name" : { "first" : "Sara", "last" : "Cross" }, "id" : "60666" }
```

2. The average homework grade for "Chem I"

```
{ "class" : "Chem I", "avgHwk" : 0.82 }
```

3. The average test grades for student "Casey Stubbs"

```
{ "student" : { "firstName" : "Casey", "lastName" : "Stubbs" },
       "avgTest" : 0.93 }
```

4. The number of times student #31363 missed any class.

```
{ "studentId" : "31363", "firstName" : "Wilson",
       "lastName" : "Cox", "missedClasses" : 23 }
```

5. A list of students taking "Clac II" Sample:

```
{ "studentId" : "62800", "lastName" : "Simpson",
       "firstName" : "Jordan" }
{ "studentId" : "73416", "lastName" : "Riley",
       "firstName" : "Chris" }
```

You can find instructions for getting started with MongoDB or connecting to the shannon.ius.edu server in the Chapter 24 notes. Shannon is pre-loaded with the students.json file. You will find a "students" collection on the server. If you have your own mongo server, import the file using:

```
mongoimport —jsonArray students.json
```