CGS 3066: Fall 2016
Homework 4

Total Points: 200
Due: Thursday 12/01/2016

This is a written assignment. This doesn’t have to be turned in on the server. Please write your queries on a separate piece of paper and hand it in. You don’t have to write any PHP code. Only the SQL queries are required. Assignment is due in class (5:15 PM) on Thursday, 12/01/2016.

1. Create a database called MyDB (5 points).

2. Create a table Students with the following fields (15 points).
   - StudentID: alphanumeric (8 characters maximum), primary key.
   - FirstName: alphabets (20 characters maximum).
   - LastName: alphanumeric (20 characters maximum).
   - HoursEnrolled: integer.
   - GPA: float.
   - Major: alphanumeric (20 characters maximum).
   - DOG: date (date of graduation).

3. Create a table Faculty with the following fields (15 points).
   - FacultyID: alphanumeric (8 characters maximum), primary key.
   - FirstName: alphabets (20 characters maximum).
   - LastName: alphanumeric (20 characters maximum).
   - Department: alphanumeric (20 characters maximum).
   - yearsEmployed: integer.

4. Create a table Course with the following fields (15 points).
   - CourseID: alphanumeric (8 characters maximum), primary key.
   - CourseName: alphanumeric (30 characters maximum).
   - TaughtBy: alphanumeric (8 characters maximum), references faculty id.
   - year: integer
   - NoEnrolled: integer

5. Insert the following tuple into Faculty: (sjx55, Sharanya, Jayaraman, Computer Science, 4) (10 points).

6. Insert the following tuple into Courses: (cgs3066, Web Programming, sjx55, 2014, 33) (10 points).

7. Add a column to the Course table, called Term, which is a string of at most 10 characters. (10 points).
8. Find all the students whose GPA is greater than 3.0 and display them in descending order by StudentID (10 points).

9. Find all the courses that are being taught by faculty in the Chemistry department (15 points).

10. Find the number of students whose major is Math and have been enrolled in less than 60 hours (10 points).

11. Find all the students whose expected date of graduation is after April 15th 2015 (10 points).

12. Find the average GPA of students whose major is Physics (10 points).

13. Find all the faculty in the Anthropology or Archeology departments who have been employed for at least 15 years (15 points).

14. Find all the majors where the average GPA is greater than 2.75 and display them in ascending order (10 points).

15. Find all the faculty who teach courses with more than 100 students and display them in ascending order of last name and then first name (15 points).

16. Delete all students who have been enrolled in more than 150 hours (10 points).

17. Delete the table Course (15 points).