Central Connecticut State University     Spring, 2001

CS 460 -- Database Concepts -- 3 Credits

Section 70    Tue, Thur 5:15 -- 6:30 PM    Room NC C232 Copernicus Hall

Instructor: Dr. Charles W. Neville

Phone: 860-832-2719,  Email: neville@ccsu.edu,  Web Page: http://www.cs.ccsu.edu/~neville/

Course Description: What this course is. This is a course in the design, analysis, and use of relational database systems, both from the viewpoint of theory and practice. Students will learn the theoretical models underlying relational database system design. Then they will learn the SQL database query and definition language, and use this language to define, populate, and query real MySQL databases and Microsoft Access databases.

What this course is not. This is NOT a course in how to use Microsoft Access, nor is it a course in the development of Microsoft Access applications. Students who want to learn these things should read the excellent book by Roger Jennings, Using Access 97, Que Corporation, 1997 (or the Access 2000 edition).

We will NOT be programming in C or Java.


CS 460 Course Web Page: There is a CS 460 course page immediately off my Web page http://www.cs.ccsu.edu/~neville/. (No period at the end of the URL). This page includes database resources pages, project descriptions, and the course syllabus.

Prerequisite: CS 253, Data and File Structures.

Assignments, Projects, and Exams: Reading and homework assignments are listed below. Hand in the exercises in the assignments on the day of the next exam (eg. hand in assignment 2 on the day of exam 1). Make-up exams are scheduled by appointment only.

There will be two projects. They are listed on the CS 460 Course Web page. There is a list of general instructions there, as well as detailed descriptions of the projects with due dates.

Grading: Your final grade will be based on computer projects (1/3), written homework assignments and in-class exams (1/3), and the final exam (1/3), and will be affected by classroom participation, conduct and attendance. The exams will include questions from the textbook and lab assignments on the computer. The numerical grades for the exams will be averaged and then converted to a letter grade.

Attendance: Two unexcused absence are allowed, and any work missed must be made up. The student should notify the instructor concerning absences, or there will be a grade penalty.

Student Conduct. It is expected that all students will conduct themselves in a respectful manner, and will assist in maintaining an atmosphere conducive to learning in the classroom.

Honesty Policy. It is expected that all students will conduct themselves in an honorable and honest manner. It is alright to give and receive help on projects, but no student may claim another’s work as his or her own, and no student may have another student’s program in his or her possession. Students may use code from published sources, but if a
student uses code from a source other than class or the text, the student should provide a reference in comments.

**Office Hours:** MW 2:00 - 2:50 PM, Tue--Thur 10:00 -- 10:50 AM and 4:30 -- 5:00 PM, or by appointment, especially before and after class. Feel free to stay for help, and feel free to stay to chat. My office is in room 205 Maria Sanford Hall. In an emergency call me at 832-2719 (work). My Web page URL (Web address) is http://www.cs.ccsu.edu/~neville/. (Again, no period at the end of the URL.)

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**Week No.** **Reading and Project Assignments**

1. **1/23** Chapter 1. Assignment 1, read some of the MySQL tutorial, especially the parts about SQL and security. There is nothing to hand in, but see below.
2. **1/30** Chapter 2. Assignment 2, exercises 2.1.1, 2.1.3, 2.1.4, 2.1.8, 2.2.1, 2.2.3, 2.2.5, 2.3.1, 2.3.2, 2.3.3, 2.3.4, 2.5.1 (a, b), 2.5.2 (a, b), 2.6.1, 2.6.3, 2.6.4 (a).
3. **2/6** Chapter 2 continued
4. **2/13** Chapter 2 continued.
5. **2/20** **Exam 1** (chapters 1 and 2, and the MySQL tutorial).
   Chapter 3. Assignment 3, exercises 3.2.1 (a, c, d), 3.2.2, 3.3.1, 3.3.2, 3.4.1, 3.4.2, 3.5.1, 3.5.2, 3.5.3, 3.6.1, 3.6.2, 3.6.4, 3.7.1, 3.8.1, 3.8.2, 3.8.3 (a, b), 3.8.4.
6. **2/27** Chapter 3 continued.
   Chapter 3 continued.
7. **3/6** Chapter 3 continued.
8. **3/13** Chapter 3 continued.
   3/17 to 3/25 Spring Recess, No Classes!
10. **4/3** Chapters 4 and 5. Assignment 4, exercises 4.1.1, 4.1.3, 4.5.1. Assignment 5, exercises 5.1.2, 5.1.3, 5.2.1, 5.2.3, 5.3.1, 5.5.1, 5.6.2, 5.7.2, 5.8.1, 5.9.1, 5.9.2.
11. **4/10** **Exam 2** (chapter 3).
    Chapters 4 and 5 continued
12. **4/17** Chapters 4 and 5 continued
13. **4/24** Chapter 6. Assignment 6, exercises 6.1.1, 6.1.2, 6.2.3, 6.3.2.
14. **5/1** Chapter 6 continued.
    Project Demos
15. **5/8** Project Demos
16. **5/15** Project Demos plus review.
17. **5/17** **Final Exam 5:15 to 6:30 PM** (comprehensive).

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Have a Good Summer!