Department of Computer Science
CMPT 258 Database Systems
Course Syllabus Fall 2013

Instructor

Dr. Ankur Agrawal

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Office Hours: Wed 1:00pm – 2:00pm, Thu 12:00pm – 2:00pm or by appointment in RLC 203C

Class Hours: TWF in RLC 102, 9:00am – 9:50am

Overview

This course provides an introduction to database system concepts; SQL, database design, normalizing tables, functional dependencies, entity-relationship, relational database models, hashing and indexing, and transactions and concurrency control. The students will learn to design, create, query and update a database through a small project. MySQL and PHP may be used for the project.

Prerequisites

CMPT 102 or CMPE 202 or EECE 202 or permission of the instructor

Textbook

Database System Concepts, Sixth Edition Abraham Silberschatz, Henry F. Korth, S. Sudarshan, McGraw-Hill, ISBN 0-07-352332-1

Tentative List of Topics

Week 1	Introduction to Database
Week 2	Introduction to Relational Model
Week 3	Introduction to SQL
Weeks 4-5	Intermediate SQL
Week 5	Mid Term 1
Weeks 6-7	Advanced SQL
Weeks 8-9	Relational Algebra
Weeks 9-10	Entity-Relationship Model
Week 10	Mid Term 2
Week 11	Functional and Other Dependencies
Week 12	Normal Forms
Week 13	Indexing and Hashing
Week 14	Transactions and Concurrency Control
Week 15-16	Project Presentations, Final Exams

Grades (Method of Evaluation)

- There will be two Midterm examinations (tentatively, Sept. 27 and Nov 1) worth 40% of the course grade.
- There will be a final examination (tentatively, Dec. 13) worth 30% of the course grade.
- There will be a semester project worth 15% of the course grade.
- Assignments, attendance and class performance will be worth 15% of the course grade.

Success in Class

- Read the assigned pages in the book as per the class discussion.
- Do as many exercises as possible even if they are not assigned.
- Ask questions about parts of reading or lecture which you do not understand.
- Get help before you are completely lost. I am available to help you via e-mail, in the classroom, or in my office.

Academic Integrity Expectation

In accordance with the Manhattan College policy on Academic Integrity, students are expected to do their own work. If they use somebody else's work, then that fact should be documented. Individual work is to be done individually and not copied from others and it is expected that you will perform all exams without consulting others and do your own work on any assignments. Consulting with others on general approaches to take in an assignment is considered acceptable, but copying assignments from others or working the majority of the assignment together is not acceptable. Of course group work is done in a group. See http://manhattan.edu/community-standards-and-student-code-conduct for more information on Manhattan College policy on Academic Integrity.