CS 448/648
Introduction to Database Management

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Objectives

- To study databases from four viewpoints, in particular, those of the database user, the database designer, the database manager, and the database system implementer.
- Sub-objectives
  1. To understand the principles of relational database management systems and their languages – in particular SQL.
  2. To learn the methodology for building applications on top of database management systems – the so called data modeling process.
  3. To investigate the internal operations of relational database management systems.

Course Documents

- Required textbook:
  - R. Ramakrishnan and J. Gehrke, Database Management Systems, 2nd edition, McGraw Hill, 2000.
- Other reference texts:
  - J. D. Ullman and J. Widom. *A First Course in Database Systems*. Prentice-Hall,1997.
  - H. Garcia-Molina, J. D. Ullman and J. Widom. *Database System Implementation*. Prentice-Hall,1999.
  - A. Silberschatz et al., Database System Concepts, 3rd edition, McGraw Hill, 1996.
- Course home page (for many things):
  - http://db.uwaterloo.ca/~tozsu/courses/cs448
- Course newsgroup
  - uw.cs.cs448

Administravia

- Office Hours
  - Prof. Özsu: T 1:30 – 3:00; R 9:00 – 9:45
  - Prof. Tompa: M 9:00-11:00; W 1:00-2:00
  - Also by appointment
- Grading

	CS 448	CS 648
Assignments	25%	20%
Midterm	35%	25%
Final	40%	40%
Project		15%

- Announcements
  - In class; material will also be available electronically
- Collaboration
  - Collaborate on assignments, but do not merely copy.

Lab Component

- We will use DB2
  - Learning it is your own responsibility
  - Check out these sources
    - http://www.student.math.uwaterloo.ca/~cs448/db2_doc.html
    - http://www.student.math.uwaterloo.ca/~cs448/db2_doc.html/db2s0/frame3.htm#index
- There are two TAs
  - Paul Lo, ccplo@math
    - Office: DC3335C, x. 5896
    - Office hours:
  - Lubomir Stanchev, lp2stanc@math
    - Office: DC3120, x. 4714
    - Office hours: