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
  - 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, 2<sup>nd</sup> 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, 3<sup>rd</sup> 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

• <u>CS 448</u>		<u>CS 648</u>
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/fra me3.htm#index
- There are two TAs
  - Paul Lo, <u>ccplo@math</u>
    - → Office: DC3335C, x. 5896
    - Office hours:
  - Lubomir Stanchev, <u>lp2stanc@math</u>
    - → Office: DC3120, x. 4714
    - Office hours: