

CS 448/648

Introduction to Database Management

M. Tamer Özsu (DC 3121; tozsu@db)
Frank W. Tompa (DC 1313; fwtompa@db)

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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
 - ❶ To understand the principles of relational database management systems and their languages – in particular SQL.
 - ❷ To learn the methodology for building applications on top of database management systems – the so called data modeling process.
 - ❸ To investigate the internal operations of relational database management systems.

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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

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Administrivia

- 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.

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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: