Database Management Systems

Winter 2002

CMPUT 391: Introduction

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University of Alberta

Objectives of Lecture 1
Introduction

- Get a rough initial idea about the content of the course:
  - Lectures
  - Resources
  - Activities
- Mind refresher for Database Systems (CMPUT 291) (Students who are taking this course need to have knowledge about databases and expertise in structured programming, i.e., CMPUT 291or equivalent is a course requirement)

Class and Office Hours

Classes for Section B1:
Mondays, Wednesdays and Fridays 11:00 to 11:50
BUSS B09

Office Hours:
Tuesdays and Thursdays from 16:00 to 17:00
By appointment:
E-mail: zaiane@cs.ualberta.ca
Tel: 492 2860
Office: ATH 352

Labs and TAs

Labs (CSC 219):

H01: Monday	08:00 to 10:50
H02: Wednesday	14:00 to 16:50
H03: Thursday	08:00 to 10:50
H04: Thursday	14:00 to 16:50

TAs:

Mohammad El Hajj (mohammad@cs.ualbreta.ca)
Chi-Hoon Lee   (chihoon@cs.ualberta.ca)
Huiqing Li   (huiqing@cs.ualberta.ca)
Jia Li   (jial@cs.ualberta.ca)

TA office hours: **T.B.A.**

Course Schedule

(Tentative, subject to changes)

There are 14 weeks from January 7th to April 12th

- *Lectures:* cover the basic material for the course.
- *Tutorials:* complement the course and will be given during some lab hours. They contain information that is necessary to do the project.
- *Assignments and Project*: will be given later in the semester. You should work on them during lab hours (when there are no tutorials).
  - Implementation assignments will also be demonstrated during lab hours in the week following the assignment deadline.
  - The project demos will be at the end of the semester.
- There are no additional lab exercises.

Midterm (February 15th)
Final Exam (April 24th)
Project Demos (last week of the semester)

Course Calendar

• Introduction	Jan 7
• Database Design Theory	Jan 9-11-14-16-18-21
• Query Processing and Optimisation	Jan 23-25-28-30 Feb 1
• Concurrency Control	Feb 04-06-08
• Database Recovery and Security	Feb 08-11-13
• Midterm	Feb 15
• Object-Oriented Databases	Feb 25-27
• Inverted Index for IR	Mar 01
• Spatial Data Management	Mar 04-06-08
• XML	Mar 11-13-15
• Data Warehousing	Mar 18-20
• Data Mining	Mar 22-25-27
• Parallel and Distributed Databases	April 03-05
• Project Demos	Apr 08 to Apr 12

Evaluation and Grading

Your final grade will depend on the entire profile of the grades in your lecture section and a particular composite score does not guarantee a particular final grade. However, your composite score will be computed using the following weights:

- Assignments   16% (number undetermined yet)
- Mid-Term Examination 19% (Feb 15th)
- Project   35% (demo at end of semester)
- Final Exam   30% (April 24th)

! You have to pass the final exam in order to pass the course

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More About Evaluation

Re-examination.

None, except as per regulation.

Collaboration.

Do Collaborate on assignments; do not merely copy.
Do not exchange machine-readable code (programs)

Plagiarism.

Work submitted by a student that is the work of another student or a tutor is considered plagiarism. Read **Sections 26.1.4** and **26.1.5** of the University of Alberta calendar. Cases of plagiarism are immediately referred to the Dean of Science, who determines what course of action is appropriate.

Resources

Course home page:

http://www.cs.ualberta.ca/~zaiane/courses/cmput391/

Contains links to course notes, detailed course calendar and other resources

Textbook:

Database Management Systems (second Edition)
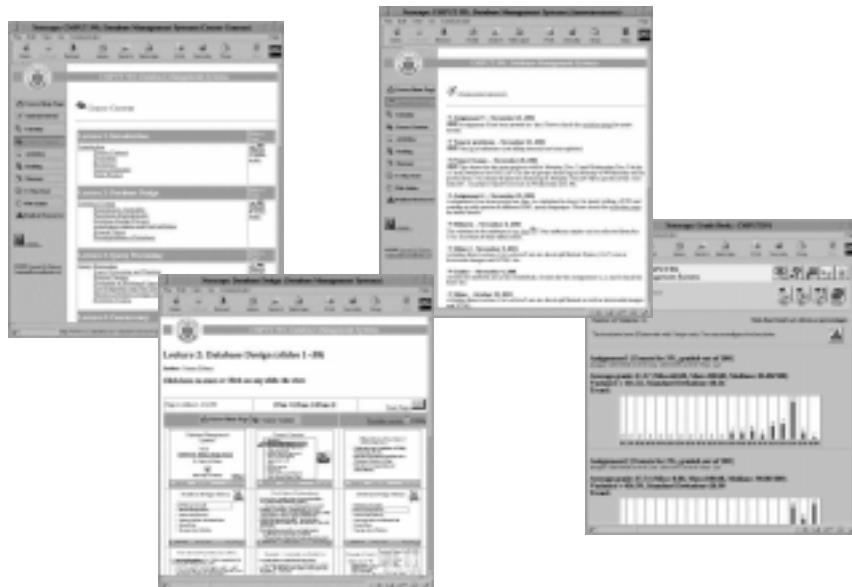by Raghu Ramakrishnan and Johannes Gehrke
McGraw-Hill, 2000

Newsgroup

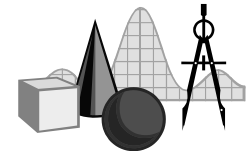**news://news.srv.ualberta.ca/ualberta.courses.cmput.391**

On-line Resources

- CMPUT 391 web page
- Course slides
- Web links
- Glossary
- Student submitted resources
- Student spaces
- U-Chat
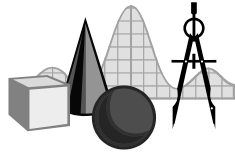- Frequently asked questions

Course Project

- The objectives of the course project are to gain hands-on experience in design and implementation of Web-based information systems that use a database management system for storage and management of data.

Course Project

- Projects will be demonstrated in class at the end of the semester.
- The idea is to build a web-based application from the ground up with technologies such as:

  ORACLE-8, Java, Servlets, JDBC, HTML forms, etc.

  The topic of the project is a management information system for a fictive car-rental company.