

Overview

Welcome to CSCC43H Introduction to Databases. This course consists of two lecture hours and one hour of tutorial each week; three assignments; a midterm; and an exam.

Topics

Introduction to database management systems; the relational data model; Relational algebra; Querying and updating databases: the query language SQL; Application programming with SQL; Integrity constraints, normal forms, and database design; and XML representations.

Course Schedule

Lecture: Monday 11AM-1:00PM (IC200)

Tutorials: Monday 10AM-11:00 (IC320) & Monday 3-4:00pm (IC320) [no tutorial first week]

Staff Information

Instructor: Wael Aboulsaadat Email: wael@cs.toronto.edu Office: PO103, Office #107

Office hours: Monday, 1-2pm & by appointment

TA: Kobe Sun

Course Prerequisites

Prerequisite: CSCB63H3 & [CGPA 3.0 or enrolment in a CSC Subject POST]

Marking

Item	Weight	Description	Due Date (tentative)
Assignment 1	10 %	ER + Relational Algebra	June 8th, 11:59PM
Midterm	20 %		June 20th
Assignment 2	15 %	SQL	July 13th, 11:59PM
Assignment 3	20 %	Advanced SQL & JDBC	August 8th, 11:59PM
Final exam	35 %	All course material (3 hrs)	

Textbook

First Course in Database Systems, (3rd Edition) by Jeffrey D. Ullman and Jennifer Widom
 ISBN-13: 9780136006374, Prentice Hall. You are responsible for reading the relevant sections.

Software

PostgreSQL 8.3.10 (or higher) DBMS from <http://www.postgresql.org/ftp/binary/v8.3.10>

For Mac users, check <http://www.postgresqlformac.com/>. The DBMS administration tool is available here: <http://www.pgadmin.org/>

Course Website

The course web site will use the blackboard system at: <http://portal.utoronto.ca>. Important information and announcements will be posted there. You are responsible for checking the web page regularly (At least a few times a week). The bulletin board for this course is also accessed

through the blackboard system. Your TA will be monitoring the bulletin board. There will be a 12 hour blackout prior to the due date whereby the TA will not answer your questions.

Lecture Notes

Lecture notes will usually be posted on the course website prior to lecture. This will give you the opportunity to print them off and annotate them as necessary.

Assignments and Late Submissions

The due dates for each assignment will be as listed above. All files must be submitted electronically via blackboard. You have to use one of the following accepted formats: plain ASCII file, Postscript, or PDF. Penalties for late homework: 10% for each day (00:01a.m. counts as one day late and no more than 3 penalty days).

Remarking Requests

For all the assignments, and the midterm: once your assignments/midterm have been marked and distributed in class, you have ONE WEEK to submit a written remarking request (form online).

Topic Schedule

Week	Topic (<i>subject to change</i>)	Reading (<i>from Ullman</i>)
1	Intro to DBMS's, Entity/Relationship Model	2.1--2.3
2	Entity/Relationship Model	4.1--4.6
3	Relational Algebra	2.4,5.1
4	Introduction to SQL	3.4--3.7
5	Advanced Relational Algebra and SQL	4.1--4.6
6	Constraints and Triggers	7
7	Functional Dependency and Normalization	3.1--3.3, 3.4--3.7
8	SQL Transactions, Views, and Indexes	6.6, 8
9	Embedded SQL	9.1
10	PL/SQL, JDBC	9.2,9.3, 9.4
11	Authorization, Recursive SQL	10.1, 5.3, 5.4, 10.2
12	XML, XPath, XQuery	12.1, 12.2

Email

Do not expect the instructor to be always available by email. Responses may take 24 hours or more. If you are working on an assignment, try to ask any questions that you may have in advance during office hours (i.e., plan ahead). Questions emailed the night before an assignment is due may not receive a timely response. Email should be used only in cases of emergency, or when you have exhausted all other venues of investigation on your own. If you must communicate via email, please follow these rules: 1) use your UofT email address. 2) The Subject line must contain "csc43". 3) Write short messages. 4) If you send a program and ask "what is wrong with it?" - do not expect a reply. 5) No attachments and no HTML.

Academic Offences

<http://www.cs.toronto.edu/~fpitt/documents/plagiarism.html> !