MIS 6326 / AIM 6337 Course Syllabus
Fall 2009

Course Information
Course Number: MIS 6326 Sec 501 – 10670 / AIM 6337 Sec 501 – 10668
Title: Database Management Systems / Data Management
Term: Fall 2009
Class Hours: Tuesday 7:00–9:45PM
Location: SOM 1.117

Instructor Information
Name: Young U. Ryu
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Office Location: SOM 3.426
Office Hours: Tuesday 6:00–6:50PM or by appointment

TA Information
To Be Announced

Prerequisite
Competence in personal computing (e.g., operating system/environment, word processing software, electronic spreadsheet, personal database software, network applications such as e-mail and World Wide Web).*

Course Description
The main subjects of the course include understand relational database theories, industry standard SQL, and database design. A conceptual/semantic data modeling with the entity-relationship diagramming technique is also covered.

Learning Objectives
- Understand relational database concepts
- Be able to create a database using the entity-relationship modeling technique
- Be able to manipulate a database using the SQL language
- Be able to create a database application

Required Textbook
Michael V. Mannino. *Database Design, Application Development, and Administration* (4th Edition). ediyou, 2008. (ISBN-13: 978-0615231044; ISBN-10: 0615231047)

Other Course Materials
Class Notes: Class notes are available through the Internet World Wide Web

`http://www.utdallas.edu/~ryoung/09f`

accessible from various Web browsers, such as Mozilla Firefox and Microsoft Internet Explorer.

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* "Competence in personal computing may be demonstrated in one of three ways: completing BA3351 with a grade of B or better, completing an equivalent course at another university with a grade of B or better, or passing an exemption exam." (UTD Graduate Catalog 2004–2006)

Database Systems Software: We will use Microsoft SQL Server and Access as the main SQL platform. Microsoft Visio will be used as the data modeling tool.

- Students can get SQL Server 2008 through UTD/Microsoft DreamSpark:
  http://www.utdallas.edu/ir/how-to/dreamspark.htm
- Students can download SQL Server 2008 and Visio Professional 2003 software at
  http://tor.utdallas.edu/~ryoung/09f

  *This Web site (**tor.utdallas.edu**) is accessible within the UTD campus network. Out-of-UTD access requires UTD VPN*. To connect to UTD VPN, visit **http://utdvpn.utdallas.edu**. For instruction on how to connect to UTD VPN, see **http://www.utdallas.edu/ir/how-to/connectvpn.htm**.

Assignments

Individual Assignments: There will be one SQL assignment and one data modeling assignment.

Group Project: Students are expected to voluntarily organize groups of up to 5 people. Each group must select a problem, and use Microsoft Access (optionally with the Microsoft SQL Server) to develop a prototype database.

- *Individual assignments must be done by <u>individual students</u>, <u>not a group</u>.*
- No hand-written project report will be accepted; it must be word-processed or type-written.
- Submission of assignments or projects via e-mail, fax, or other electronic media is not acceptable.

Exams

There will be two <u>closed-book</u> in-class exams. Exams consist of multiple choice questions, short essay questions, and problem-solving questions.

Academic Calendar

	Date	Text	Descriptions	Project Progress Guideline
1	8/25	Syllabus	• Course Introduction	
2	9/1	Ch. 1	• Introduction to Database Management	
3	9/8	Ch. 3	• The Relational Data Model	
4	9/15	Chs. 5 & 6	• Entity Relationship Modeling	Group Organization
5	9/22	Chs. 5 & 6	• Entity Relationship Modeling	
6	9/29	Chs. 5 & 6	• Entity Relationship Modeling	Project Scope
7	10/6	Ch. 7	• Normalization of Relational Tables • **Assignment 1 Due**	
8	10/13	**Exam 1**	• **Chs. 1, 3, 5, 6, 7**	
9	10/20	Ch. 4 & 9	• Structured Query Language	Entity Relationship Modeling
10	10/27	Ch. 4 & 9	• Structured Query Language	
11	11/3	Ch. 4 & 9	• Structured Query Language	Database Implementation
12	11/10	Ch. 4 & 9	• Structured Query Language	
13	11/17	Ch. 10 Ch. 14	• Views • Data & Database Administration	Forms, Reports, and Menu Implementation
14	11/24	Ch. 15	• Transaction Management • **Assignment 2 Due**	
15	12/1	**Exam 2**	• **Chs. 4, 9, 10, 14, 15**	**Project Report Due**
16	12/15		• Final Project Discussion (Optional)	

(The schedule is subject to change.)

Grading Policy

- Exam 1........................ 40%
- Final Group Project..... 15%
- Exam 2........................ 40%
- Assignments 5%

Letter grades will be assigned based on the following formulae:

- A if $total\_score \geq (median + 0.5 \times standard\_deviation)$
- A− if $(median + 0.2 \times standard\_deviation) \leq total\_score < (median + 0.5 \times standard\_deviation)$
- B+ if $(median - 0.5 \times standard\_deviation) \leq total\_score < (median + 0.2 \times standard\_deviation)$
- B if $(median - 1.0 \times standard\_deviation) \leq total\_score < (median - 0.5 \times standard\_deviation)$
- B− if $(median - 1.5 \times standard\_deviation) \leq total\_score < (median - 1.0 \times standard\_deviation)$
- C+ if $(median - 1.7 \times standard\_deviation) \leq total\_score < (median - 1.5 \times standard\_deviation)$
- C if $(median - 2.0 \times standard\_deviation) \leq total\_score < (median - 1.7 \times standard\_deviation)$
- C− if $(median - 2.5 \times standard\_deviation) \leq total\_score < (median - 2.0 \times standard\_deviation)$
- F if $total\_score < (median - 2.5 \times standard\_deviation)$

Course and Instructor Policy

Late Assignment: Late assignment returns are subject to penalties:

1 day late ....15% penalty   after the 2nd day .... not accepted

Makeup Exams: There will be no make-up exams, except for medical emergency (written statement justifying the situation from a physician required). The written statement should include the physician's address and phone number for the verification purpose.

Student Conduct & Discipline

The University of Texas System and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD publication, A to Z Guide, which is provided to all registered students each academic year.

The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the Rules and Regulations, Board of Regents, The University of Texas System, Part 1, Chapter VI, Section 3, and in Title V, Rules on Student Services and Activities of the university's Handbook of Operating Procedures. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations (SU 1.602, 972/883-6391).

A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.

Academic Integrity

The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for

that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.

Scholastic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the award of a degree, and/or the submission as one's own work or material that is not one's own. As a general rule, scholastic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.

Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.

Email Use

The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email correspondence be sent only to a student's U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD student account. This allows the university to maintain a high degree of confidence in the identity of all individual corresponding and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at U.T. Dallas provides a method for students to have their U.T. Dallas mail forwarded to other accounts.

Withdrawal from Class

The administration of this institution has set deadlines for withdrawal of any college-level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to handle withdrawal requirements from any class. In other words, I cannot drop or withdraw any student. You must do the proper paperwork to ensure that you will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled.

Student Grievance Procedures

Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's *Handbook of Operating Procedures.*

In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originates (hereafter called "the respondent"). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be submitted in writing to the respondent with a copy of the respondent's School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean's decision, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the deal will appoint and convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties.

Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.

Incomplete Grade Policy

As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester's end and only if 70% of the course work has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of **F**.

Disability Services

The goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m.

The contact information for the Office of Disability Services is:
The University of Texas at Dallas, SU 22
PO Box 830688
Richardson, Texas 75083-0688
(972) 883-2098 (voice or TTY)

Essentially, the law requires that colleges and universities make those reasonable adjustments necessary to eliminate discrimination on the basis of disability. For example, it may be necessary to remove classroom prohibitions against tape recorders or animals (in the case of dog guides) for students who are blind. Occasionally an assignment requirement may be substituted (for example, a research paper versus an oral presentation for a student who is hearing impaired). Classes enrolled students with mobility impairments may have to be rescheduled in accessible facilities. The college or university may need to provide special services such as registration, note-taking, or mobility assistance.

It is the student's responsibility to notify his or her professors of the need for such an accommodation. Disability Services provides students with letters to present to faculty members to verify that the student has a disability and needs accommodations. Individuals requiring special accommodation should contact the professor after class or during office hours.

Religious Holy Days

The University of Texas at Dallas will excuse a student from class or other required activities for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, Tax Code, Texas Code Annotated.
The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment. The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.
If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the chief executive officer of the institution, or his or her

designee. The chief executive officer or designee must take into account the legislative intent of TEC 51.911(b), and the student and instructor will abide by the decision of the chief executive officer or designee.