MIS 6326 (Data Management) Course Syllabus
Spring 2016

Course Information

Course Number: MIS 6326 Sec 001 – 24376
Title: Data Management
Term: Spring 2016
Class Hours: Tuesday 4:00–6:45PM
Location: JSOM 1.107

Instructor Information

Name: Young U. Ryu
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Office Location: SOM 3.426
Office Hours: Tuesday 3:00–3:50PM or by appointment

Prerequisite

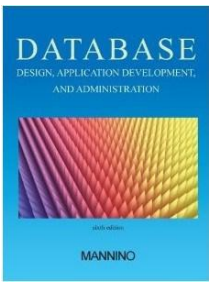
Competence in personal computing (e.g., operating system/environment, word processing software, electronic spreadsheet, personal database software, network applications such as e-mail and World Wide Web).

Course Description

The main subjects of the course include the understanding of 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

- Understanding relational database concepts
- Being able to create a database using the entity-relationship modeling technique
- Being able to manipulate a database using the SQL language
- Being able to create a database application



Required Textbook

Michael V. Mannino. *Database Design, Application Development, and Administration* (6th Edition). Chicago Business Press (Distributed by Ingram Book Company), 2015. (ISBN: 978-0-9833324-2-8).

- Only the 6th edition is used in the class. ***The 5th or earlier editions are not acceptable textbooks.***
- Less expensive electronic rental/purchase options are available at the textbook Web site (**`http://www.mmannino.com`**).

Other Course Materials

Scores and Grade: Assignment, project, and exam scores as well as the estimated final grade will be available at the UTD eLearning site.

Class Notes: Class notes are available through

`http://www.utdallas.edu/~ryoung/sp2016`

(Class notes are *not* available at the UTD eLearning site.)

Database Systems Software: We will use Microsoft Access and Microsoft SQL Server as the main SQL platform. Microsoft Visio will be used as the data modeling tool. (For the project implementation, Microsoft Access is recommended.) Students' use of the software is ***optional***, except for project implementation.

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 individual students, not a group.*
- 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 closed-book in-class exams. Exams consist of multiple choice questions, short essay questions, and problem-solving questions.

Academic Calendar

	Date	Text	Descriptions	Notes
1	1/12	Syllabus	• Course Introduction	
2	1/19	Ch. 1	• Introduction to Database Management	
3	1/26	Ch. 3	• The Relational Data Model	Project Group Organization
4	2/2	Chs. 5 & 6	• Entity Relationship Modeling	
5	2/9	Chs. 5 & 6	• Entity Relationship Modeling	
6	2/15	Chs. 5 & 6	• Entity Relationship Modeling	
7	2/23	Ch. 7	• Normalization of Relational Tables	Assignment 1 Due
8	3/1	**Exam 1**	• **Chs. 1, 3, 5, 6, 7**	
9	3/8	Ch. 4 & 9	• Structured Query Language	
10	3/15		Spring break; no class	
11	3/22	Ch. 4 & 9	• Structured Query Language	
12	3/29	Ch. 4 & 9	• Structured Query Language	
13	4/5	Ch. 4 & 9	• Structured Query Language	
14	4/12	Ch. 10	• Views	
15	4/19	Ch. 15	• Transaction Management	Assignment 2 Due
16	4/26	**Exam 2**	• **Chs. 4, 9, 10, 15**	Project Report Due

Grading Policy

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

Letter grades will be assigned based on the following formulae:

- A if total_score ≥ (median + 0.5 × standard_deviation)
- B if (median – 1.0 × standard_deviation) ≤ total_score < (median + 0.5 × standard_deviation)
- C if (median – 1.8 × standard_deviation) ≤ total_score < (median – 1.0 × standard_deviation)
- F if total_score < (median – 1.8 × 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.

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus.

Please go to **`http://go.utdallas.edu/syllabus-policies`** for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.