INSY 5335 Section 001
Applied Database Management
Fall 2018

Instructor: Dr. Ezgi Akar
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Office Hours: 9:30 – 10:30 AM Tuesdays & Thursdays or by e-mail
Graduate Teaching Assistant: Ekta Tomar - ekta.tomar@mavs.uta.edu

Section Information:
INSY 5335 Section 001
Applied Database Management

Time and Place of Class Meetings: COBA 147 on Wednesdays at 07:00 – 09:50 PM

Description of Course Content and Objective: This course covers concepts, tools, and technologies associated with the design, implementation, and management of large databases. The focus is on relational DBMS and the associated concepts. Different database models are discussed with an emphasis on the relational model. Database query language (SQL) is discussed. Database design concepts such as ER modeling and normalization are presented. Students are exposed to advanced data management concepts including data warehousing and columnar databases. Students get hands on training in the design and implementation of a database application through a term project. Students will learn concepts, tools, and technologies associated with the design, implementation, and management of large databases in a corporate environment.

Student Learning Outcomes:

- The student will be able to describe various data modeling concepts, such as, hierarchical, network, relational, and object-oriented data models.
- The student will have a thorough understanding of the Entity-Relationship modeling techniques and be able to create ER diagrams to model data requirements for an application.
- The student will understand database design concepts including normalization, and mapping ER diagrams into database schema.
- The student will be able to use Structured Query Language (SQL) to create, manipulate, and query relational databases.
- The student will develop an appreciation of recent developments in data management technologies and their applications to business data management.
Required Textbooks and Other Course Materials


You are expected to read and study this textbook! You will be responsible for any assigned material in the textbook regardless of class coverage. So, if you do not understand the material, be sure to ask your instructor.

If you use a previous version of the text, it is your responsibility to keep track of the differences between the texts. All assignments, readings, and lectures come from the recommended text and the instructor is not responsible for mapping the old text to the new text. There is no guarantee that the older text will be exactly like the recommended text.

**Descriptions of Major Assignments and Examinations:** Course requirements include three tests and four assignments. Final exam will be comprehensive. Details about the assignments will be separately announced. See the tentative schedule below for further details. You are responsible for everything that is covered in the classroom, including additional materials that the instructor may discuss in class.

All assignments must be turned in electronically (via BlackBoard) as instructed. **Late submissions will not be accepted.** Late submissions will receive a score of 0 (no exceptions).

The exams are closed books, closed notes. Do not miss any exam. **If you miss an exam without a valid excuse, then your grade in that exam will be zero.** Under extenuating circumstances (e.g., medical emergency, family emergency, work-related travel, University sponsored activities etc.), the score on the final exam will replace the missed exam score. You can only use this excuse for **one exam.** Acceptable documentation must be provided within a week of the missed exam. If documentation is provided later, it may not be accepted.

**Attendance:** At the University of Texas at Arlington, taking attendance is not required but attendance is a critical indicator in student success. Each faculty member is free to develop his or her own methods of evaluating students’ academic performance, which includes establishing course-specific policies on attendance. As the instructor of this section, I consider attendance mandatory for all lectures. If you miss a class, you are responsible for the materials covered.

**Pop quizzes** may be given during the semester. Quiz scores may be used towards Extra Credit upon the instructor’s discretion. If you miss a pop quiz, there will be no makeup quizzes (no exceptions). However, while UT Arlington does not require instructors to take attendance in their courses, the U.S. Department of Education requires that the University have a mechanism in place to mark when Federal Student Aid recipients “begin attendance in a course.” UT Arlington instructors will report when students begin attendance in a course as part of the final grading process. Specifically, when assigning a student, a grade of F, faculty report the last date a student attended their class based on evidence such as a test, participation in a class project or presentation, or an engagement online via Blackboard. This date is reported to the Department of Education for federal financial aid recipients.
Other Requirements

Prerequisite: INSY 5309 (Java) /5336 (Python) or equivalent

Grading

The distribution of points will be as follows:

<table>
<thead>
<tr>
<th>Exam</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>25%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>25%</td>
</tr>
<tr>
<td>Final</td>
<td>30%</td>
</tr>
<tr>
<td>Assignments</td>
<td>20%</td>
</tr>
</tbody>
</table>

The following criteria will be used to assess your grade:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>&gt;= 90</td>
</tr>
<tr>
<td>B</td>
<td>&gt;= 80</td>
</tr>
<tr>
<td>C</td>
<td>&gt;= 70</td>
</tr>
<tr>
<td>D</td>
<td>&gt;= 60</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 60</td>
</tr>
</tbody>
</table>

A course curve, at the discretion of the instructor, may be implemented at the end of the semester, based on the overall performance of the class.

"Incomplete" Grades

A grade of incomplete will only be given under extraordinary unforeseen circumstances at the instructor’s discretion and must be approved prior to the end of the course. Poor performance, absences, forgetting to drop, or travel are not considered sufficient grounds for incompletes. Instructors are not obligated to give "incomplete" grades. To receive an incomplete, 95% of the course must have been completed.
UNIVERISTY AND COLLEGE POLICIES

Grade Grievances: We will follow the procedures and deadlines for grade-related grievances as published in the current University Catalog.

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. Students will not be automatically dropped for non-attendance. Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (http://wweb.uta.edu/aaol/fao/).

Disability Accommodations: UT Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including The Americans with Disabilities Act (ADA), The Americans with Disabilities Amendments Act (ADAAA), and Section 504 of the Rehabilitation Act. All instructors at UT Arlington are required by law to provide “reasonable accommodations” to students with disabilities, so as not to discriminate on the basis of disability. Students are responsible for providing the instructor with official notification in the form of a letter certified by the Office for Students with Disabilities (OSD). Only those students who have officially documented a need for an accommodation will have their request honored. Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting: The Office for Students with Disabilities, (OSD) www.uta.edu/disability or calling 817-272-3364. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability.

Counseling and Psychological Services (CAPS) www.uta.edu/caps/ or calling 817-272-3671 is also available to all students to help increase their understanding of personal issues, address mental and behavioral health problems and make positive changes in their lives.
Non-Discrimination Policy: The University of Texas at Arlington does not discriminate on the basis of race, color, national origin, religion, age, gender, sexual orientation, disabilities, genetic information, and/or veteran status in its educational programs or activities it operates. For more information, visit uta.edu/eos.

Title IX Policy: The University of Texas at Arlington (“University”) is committed to maintaining a learning and working environment that is free from discrimination based on sex in accordance with Title IX of the Higher Education Amendments of 1972 (Title IX), which prohibits discrimination on the basis of sex in educational programs or activities; Title VII of the Civil Rights Act of 1964 (Title VII), which prohibits sex discrimination in employment; and the Campus Sexual Violence Elimination Act (SaVE Act). Sexual misconduct is a form of sex discrimination and will not be tolerated. For information regarding Title IX, visit www.uta.edu/titleIX or contact Ms. Michelle Willbanks, Title IX Coordinator at (817) 272-4585 or titleix@uta.edu.

Academic Integrity: Students enrolled in this course are expected to adhere to the UT Arlington Honor Code:

I pledge, on my honor, to uphold UT Arlington’s tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

UT Arlington faculty members may employ the Honor Code in their courses by having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System Regents’ Rule 50101, §2.2, suspected violations of university’s standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student’s suspension or expulsion from the University. Additional information is available at https://www.uta.edu/conduct/. Faculty are encouraged to discuss plagiarism and share the following library tutorials http://libguides.uta.edu/copyright/plagiarism and http://library.uta.edu/plagiarism/.

Cheating is not acceptable and will be handled in accordance with the policy and procedures of the University of Texas at Arlington. If a student is caught cheating, he/she will receive a 0 for that quiz/assignment/exam. If the student is caught cheating a second time, he/she will receive an F in the course and the issue will be referred to the Office of Student Conduct.
**Electronic Communication:** UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at [http://www.uta.edu/oit/cs/email/mavmail.php](http://www.uta.edu/oit/cs/email/mavmail.php). As instructor I will only respond to MavMail emails.

**Campus Carry:** Effective August 1, 2016, the Campus Carry law (Senate Bill 11) allows those licensed individuals to carry a concealed handgun in buildings on public university campuses, except in locations the University establishes as prohibited. Under the new law, openly carrying handguns is not allowed on college campuses. For more information, visit [http://www.uta.edu/news/info/campus-carry/](http://www.uta.edu/news/info/campus-carry/)

**Student Feedback Survey:** At the end of each term, students enrolled in classes categorized as “lecture,” “seminar,” or “laboratory” shall be directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student’s feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington’s effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit [http://www.uta.edu/sfs](http://www.uta.edu/sfs).

**Final Review Week:** A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week *unless specified in the class syllabus*. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

**Emergency Exit Procedures:** Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exit, located to the right and left of the exit through the main classroom door. When exiting the building
during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist individuals with disabilities.

**Student Support Services**: UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include [tutoring](#), [major-based learning centers](#), developmental education, [advising and mentoring](#), personal counseling, and [federally funded programs](#). For individualized referrals, students may visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to [resources@uta.edu](mailto:resources@uta.edu), or view the information at [http://www.uta.edu/universitycollege/resources/index.php](http://www.uta.edu/universitycollege/resources/index.php).

**Emergency Phone Numbers**: In case of an on-campus emergency, call the UT Arlington Police Department at **817-272-3003** (non-campus phone), **2-3003** (campus phone). You may also dial 911. Non-emergency number 817-272-3381
<table>
<thead>
<tr>
<th>WEEK</th>
<th>CONTENT/READING/EVENT</th>
<th>ASSIGNMENT/EXAM</th>
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| 1 (Aug 22) | Introduction  
Chapter 1 |  |
| 2 (Aug 29) | Chapter 2, Chapter 3 |  |
| 3 (Sept 5) | Chapter 4  
*Census Date September 7* | Assignment 1  
(Due Sept 15 at 11:59 pm) |
| 4 (Sept 12) | Chapter 4, Chapter 5 |  |
| 5 (Sept 19) | Chapter 6 | Assignment 2  
(Due Sept 29 at 11:59 pm) |
| 6 (Sept 26) |  | Exam 1 (Chapters 1, 2, 3, 4, 5, 6) |
| 7 (Oct 3) | Chapter 7 |  |
| 8 (Oct 10) | Chapter 7, Chapter 8 | Assignment 3  
(Due Oct 20 at 11:59 pm) |
| 9 (Oct 17) | Chapter 9 |  |
| 10 (Oct 24) | Chapter 10 | Assignment 4  
(Due Nov 3 at 11:59 pm) |
| 11 (Oct 31) | Chapter 12  
*Last Day to Drop November 2* |  |
| 12 (Nov 7) |  | Exam 2 (Chapters 7, 8, 9, 10, 12) |
| 13 (Nov 14) | Chapter 13, Chapter 14 |  |
| 14 (Nov 21) | *Thanksgiving Holiday November 21* |  |
| 15 (Nov 28) | Chapter 14, Final Exam Review  
*December 4 Last Day of Classes* |  |
| Final Exam | December 12 (08:15- 10:45 PM) | Final exam will be comprehensive |

As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. Ezgi Akar