Course CS 6360 Section 006
Professor Murat Kantarcioglu
Term Fall 2017
Meetings Friday: 10:00am-12:45pm @ CB 1.214

Professor’s Contact Information
Office Phone 972-883-6616
Other Phone None
Office Location ECSS 3.225
Email Address Murat
Office Hours Fridays 9am-10am and 3pm-4pm
Other Information All announcements will be made in class, course web page and/or via UT Dallas email.

General Course Information
Pre-requisites, Co-requisites, & other restrictions CS 5343
Course Description Methods, principles, and concepts that are relevant to the practice of database software design. Database system architecture; conceptual database models; relational and object-oriented databases; database system implementation; query processing and optimization; transaction processing concepts, concurrency, and recovery; security.

Learning Outcomes
1. Understanding of conceptual, logical and physical organization of data
2. Understanding of Relational Models and theory
3. Understanding of Normalization of Relations
4. Understanding of SQL programming
5. Understanding of Data organization methods
6. Understanding of Indexing, Query processing, Transactions
7. Understanding of Database integrity, Concurrency, Crash Recovery

Required Texts & Materials Database Management Systems, Ramakrishnan and Gehrke, 3rd Edition
http://pages.cs.wisc.edu/~dbbook/

Suggested Texts, Readings, & Materials Papers will be assigned on course web page as needed. Please check the course web page as needed.
http://www.utdallas.edu/~muratk/courses/db17f.htm

Assignments & Academic Calendar

<table>
<thead>
<tr>
<th>Date</th>
<th>Assignments</th>
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<tbody>
<tr>
<td>Aug. 25th</td>
<td>• Introduction&lt;br&gt;• ER Model</td>
</tr>
<tr>
<td>Sep. 1st</td>
<td>• The Relational Model and SQL DDL&lt;br&gt;• Relational Algebra</td>
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<tr>
<td>Sep. 8th</td>
<td>• SQL&lt;br&gt;• JDBC and Spring Framework</td>
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Course Policies

<table>
<thead>
<tr>
<th>Grading (credit) Criteria</th>
<th>Grading on a curve technique will be used.</th>
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<tbody>
<tr>
<td>Homework</td>
<td>% 16 (4 homework, each worth 4%)</td>
</tr>
<tr>
<td>Project</td>
<td>% 24 (Group project that may require programming)</td>
</tr>
<tr>
<td>Midterm</td>
<td>% 25</td>
</tr>
<tr>
<td>Final</td>
<td>% 35</td>
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Make-up Exams: No make-up exam will be given.

Extra Credit: None.

Late Work: Late submissions will not be graded.

Special Assignments: None.

Class Attendance: Strongly recommended.

Classroom Citizenship: Good classroom citizenship is expected.

Comet Creed: This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:

“As a Comet, I pledge honesty, integrity, and service in all that I do.”

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](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.