CSCE 5350 – Fundamentals of Database Systems (Fall 2020)

Instructor :   Dr. JungHwan Oh,
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Office Hours : TuTh 01:00 - 2:30 pm via live Zoom session (my Zoom id is 731-188-6265).
In-person consultation can be possible during the office hours by appointment.
Text :   Database System Concepts Seventh Edition by Avi Silberschatz, Henry F. Korth, and S. Sudarshan
All lecture slides will be available in Canvas.
Pre-Requisites : working knowledge of DBMSs.
Class time and Room: TuTh 11:30 - 12:50 pm, NTDP K120 (CSCE5350-004) or Remote (CSCE5350-001,006)
Contents :   This course will cover the following topics.

- Normalization
- Storage Systems & Data Structures
- Indexing and Hashing
- Query Processing and Optimization

- Application Security
- NOSQL
- Column-Oriented Databases
- Information Retrieval

Grading :

- Mid-term Exam   24 %
- Final Exam   28 %
- Assignments   12 %

- Term-Project   24 %
- Term-Project Presentation   12 %

- **Assignments**: There are some assignments. You need to solve the given problems, and submit your answers by due date. **No late submission accepted**. The details can be found in Canvas.
- **Term-Project & Presentation**: There is a term project in which you do either an implementation of a system related to Database, or a survey of a topic for Database System that you choose. You need to submit a term paper by the due date. Finally, present your term project by Zoom. **No late submission accepted**. The details can be found in Canvas.
- **Attendance:** Your attendance will be taken each class day. But, your attendance will not be counted for your grade. If you need to be absent from class, you need to notify to Instructor with a reason by email. If you misses more than one class without notification, an early alert notification needs to be submitted to UNT by Instructor.
- **Mid-term and Final exam**: Mid-term and Final exams will be from the lecture slides and the assignments. Time will be limited, and all work should be individual. Mid-term exam will cover the parts in the previous weeks. The final exam will not be cumulative, and it will cover the materials after Mid-term exam covers. All exams will include essay questions such that you need to explain, describe, and compute, etc. There is no true/false, multiple choice, ordering, fill-in-the-blank, or matching questions at all. Mid-term and Final exams will be conducted via Canvas and Zoom.

Policy :
1. **If a student is absent for more than three classes (other than university-approved excuses), he/she will be dropped from the course.**
2. **No make-up exams (before or after) will be given. Equitable arrangements will be made for those with a university-approved excuse.**
3. **The penalty for cheating will be dismissal from the course with failure. No incomplete grade will be given.**
4. **No grading question by email.**
5. **No early exams.**
6. **When you send any email, send it to both TA and Instructor, and the subject must include CSCE5350. If not, it may be discarded.**

- You can find the general information about Canvas in https://community.canvaslms.com/welcome.
- For any IT issues inlcuding the PCs in the class room, you can contact UNTS Service Desk: 940-565-HELP (4357), ithelp@untsystem.edu (https://community.canvaslms.com/welcome) with Room number and Sevice tag number of PC.
- The course evaluation is a requirement for all organized classes at UNT. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider this to be an important part of your participation in this class.
- No communication through a non-UNT email account. If such an email is received, the student should be asked to use their UNT account and resend.
- Disabilities Accommodation: The University of North Texas complies with Section 504 of the 1973 Rehabilitation Act and with the Americans with Disabilities Act of 1990. The University of North Texas provides academic adjustments and auxiliary aids to individuals with disabilities, as defined under the law. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring accommodation, please see the instructor and/or contact the Office of Disability Accommodation at 940-565-4323 during the first week of class.