CS561 Database Management Systems I

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There is no textbook for CS561; rather, lectures will be presented as detailed ppts. The ppts will be supplemented by a book chapter, entitled “SQL” that I wrote for the Handbook of Programming Languages, a copy of which I will post.

For “extra reading” if you want it, in order to get a slightly different perspective on topics to be covered, Fundamentals of Database Systems, sixth edition, by Elmasri & Navathe (Addison-Wesley) is suggested. (The price is fairly good on Amazon.)

The major topics to be covered in the course are:

Introduction to relational databases

Relational database querying

Relational Algebra

SQL

Entity Relational (ER) Notation

Translating ER to Relational

Translating Relational to ER

Normalization

Grading of the course will be as follows:

­10% for homework submissions

­45% for the midterm exam

­45% for the final exam

Each Lecture/HW will be posted near the beginning of each week, and the HW will be due by the following Sunday at 11:59PM.

HWs will not be graded. (My philosophy is that HWs are for learning, possibly by making mistakes and having them pointed out.)

There will be two exams both of which will be graded.

I will post lectures, HWs, exams, etc., on Canvas, as “announcements” – no “assignments” -- and HWs and exams must be submitted to me via Canvas email.

Each HW and exam must be submitted as a ***single*** MS Word or ppt document; multiple documents, and documents of other types, e.g., pdf, will not be accepted.

The name of each submitted HW or exam document must be of the form

[CS561WS] family\_name\_personal\_name\_X

where X is HW1, HW2, … , HW11, Midterm, or Final.

The subject line of the submission must be exactly the same.

So, for example, if your name is John Smith, the subject line of your first homework submission, and the title of the attached document, should be

[CS561WS] Smith\_John\_HW1