COSC 6340—Database Systems

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Office Hours: MW 4:30-5:00 and 7:10-7:40 pm in PGH 569
Phone: 713-743-3341 (during office hours)
Class Schedule: MW 5:30-7:00 p.m. in SEC 202
Course Web Page: http://www.cs.uh.edu/~paris/6340/resources.htm
Twitter: jehanfrancois (for emergency announcements)
Teaching Assistant: Yiqun Zhang (contact AT yzhang DOT us)
TA Office Hours: MW 3:00 to 4:00PM in PGH 575

COSC 6360 is our graduate offering on database systems. The textbook is:


Topics to be discussed in class include:

- **Database design**: ER model, relational model and algebra, normalization up to 5NF.
- **Internal subsystems of a relational DBMS**: secondary storage, buffer management, indexing data structures, query optimizer, concurrency control, transaction processing, recovery.
- **Advanced SQL programming**: SPJ queries, aggregations, derived tables, pivoting, OLAP functions, recursive queries, UDFs, stored procedures.
- **Overview of security, cube and data mining techniques.**

As many advanced courses, 6340 will require reading some research papers. Accessing these papers from any computer outside the UH domain will require a login (“cosc6340”) and a password to be given in class.

**GRADING**

Your grade will be based on two quizzes, worth each 25 percent of your semester average and two programming projects accounting for the remaining 50 percent. All quizzes will be closed book. Students will be allowed one 11 by 8.5" double-sided sheet of notes for each quiz.

No cheating or plagiarism will be tolerated in any graded assignment. You may paraphrase short segments of the papers you review but should not lift entire sentences without quoting them. You should neither follow the overall organization of any document that you did not write. The minimum penalty for any transgression will be an F grade for the course. You have been warned!

Students are expected to attend all lectures.

**THE PROJECTS**

There will be two projects with the second project having a much higher weight than the first. They will be done by teams of two students: team memberships will be assigned by instructor. Programs will be graded for correctness, efficiency and respect of good programming practices.

Late assignments will be assessed a penalty of 5 points per day unless announced otherwise.

You will have a total of two grace days to be used at your discretion.

**IMPORTANT DATES**

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<th>First Project Due</th>
<th>Early March</th>
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<tr>
<td>First Quiz</td>
<td>Monday, March 9</td>
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<tr>
<td>Second Project Due</td>
<td>Early May</td>
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<tr>
<td>Second Quiz</td>
<td>Monday, May 11 at 5:00 pm</td>
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Please verify that the university has your correct email address: It is the only way I can contact you.