

Database System Concepts

Course Intro
8/18/2022



山东大学
SHANDONG UNIVERSITY

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Associate Professor *since Dec. 2016*
Shandong University

Research Scientist *Aug. 2014 – Sep. 2016*
Visual Computing Dept., I2R, A*STAR

Ph.D. *2010 - 2015*
National University of Singapore
Supervisor: Mohan Kankanhalli

B.S. *2006 - 2010*
East China Normal University

Logistics

- Instructor
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 - Office: N3 Building, 422-2
- TA
 - XXX

Logistics

- Schedule

- Teaching

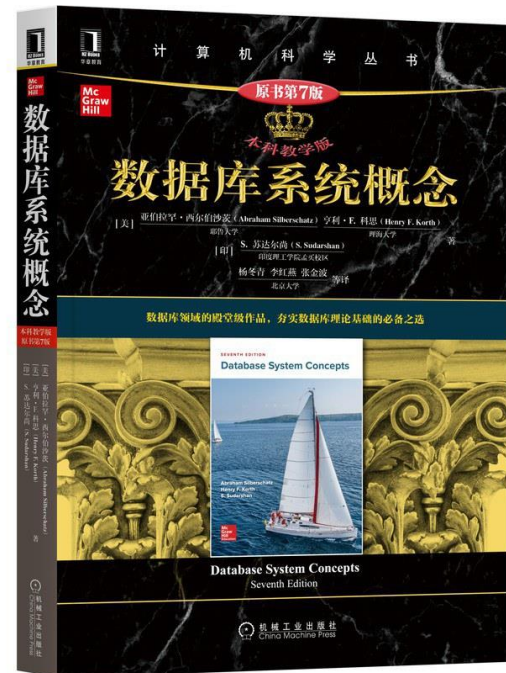
- every **Thur.** (3,4) (*w1-w17*)
 - Location: 振声苑N203

- Experiment

- every **Tue.** (3,4)
 - **Exp1**: SQL Exercise (*w3-w10*)
 - **Exp2**: DB project (*w11-w17*)
 - Location: N3楼实验室(N3-1XX, N3-1XX, N3-1XX)

Course Materials

- 数据库系统概念（原书第7版.本科教学版）
 - 希伯尔沙茨（Abraham Silberschatz）等著
 - <http://db-book.com/>
- 数据库系统概论（第5版）
 - 王珊、萨师焯
 - 高等教育出版社，2014



Topics (tentative)

Week	Topics
1	Ch1 - Intro, Ch2 - Intro to the Relational Model
2	Ch3 - Intro to SQL
3	Ch4 - Intermediate SQL
4	<i>Review - SQL Exercise</i>
5	Ch6 - Relational Calculus
6	<i>Review - Query Languages</i>
7	Ch7 - ER Diagrams – I
8	Ch7 - ER Diagrams – II
9	<i>Review - DB design</i>
10	Ch8 - Normalization – I
11	Ch8 - Normalization – II
12	Ch13 - Transaction – I
13	Ch13 - Transaction – II
14	Ch14 – Concurrent Control & Recovery - I
15	Ch14 – Concurrent Control & Recovery - II
16	<i>Review - all</i>

Grading

- Homework (3-4 sets) 15%
- Classroom Participation 10%
- Experiment 25% (tentative)
- Final 50% (tentative)
 - Exams in-class, non-cumulative
- Late policy: 10% each day after the due date
- No cheating

Communication

- Webpage
 - <https://gantian.github.io/teaching/db.html>
- WeChat group are available
 - course announcement, and posting Q & A
- Send emails to instructor and TA for questions

Thank you!

Q&A



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