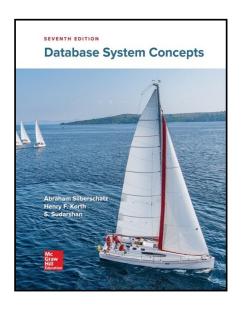
- Instructor
 - Yon Dohn Chung (정연돈)
 - Department of Computer Science & Engineering
 - ydchung@korea.ac.kr, Tel.: 02-3290-3209
 - http://dbserver.korea.ac.kr
 - Office / Office Hours
 - 우정정보관 404호 / Wed 14:00-15:00
- TF's
 - 김남일, 김형빈, 조유정
 - Database Laboratory, Korea University Graduate School
 - 우정정보관 407A호
 - namil@korea.ac.kr, Tel.: 02-3290-3580



Textbook

- Database System Concepts (7th Edition)
- McGraw-Hill, 2020
- A. Silberschatz, H. Korth, and S. Sudarshan
- Lecture materials are available on http://www.db-book.com

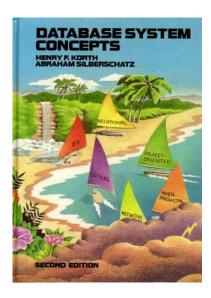


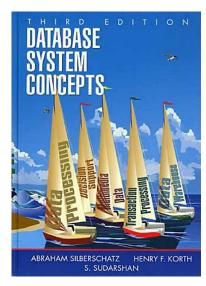


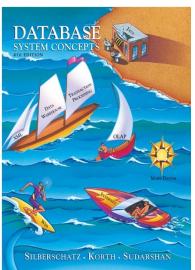


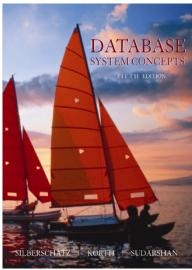
The Sailboat Book

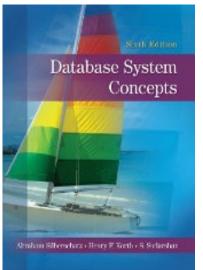


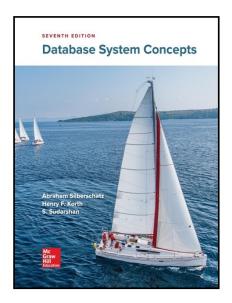














- Chapters of the book (7th edition)
- 1. Introduction
- 2. Introduction to the Relational Model
- 3. Introduction to SQL
- 4. Intermediate SQL
- Advanced SQL
- Database Design using the ER Model
- 7. Relational Database Design
- 8. Complex Data Types
- 9. Application Development
- 10. Big Data
- 11. Data Analytics

- 12. Physical Storage Systems
- 13. Data Storage Structures
- 14. Indexing
- 15. Query Processing
- 16. Query Optimization
- 17. Transactions
- 18. Concurrency Control
- 19. Recovery System

- 24. Advanced Indexing Techniques
- 25. Advanced Application Development
- Blockchain Databases

- 20. Database System Architectures
- 21. Parallel and Distributed Storage
- 22. Parallel and Distributed Query Processing
- Parallel and Distributed Transaction Processing



- Weekly schedule (tentative)
 - Introduction to Databases (1 week)
 - Introduction to Relational Model (and Relational Algebra) (1.5 weeks)
 - Introduction to SQL (3 weeks)
 - Intermediate SQL (1.5 weeks)
 - Database Application Development using django (1 week)
 - Database Design using ER Model (and Reduction to Relational Model) (2 weeks)
 - Relational Database Design via Normalization (2 weeks)
 - Data Analytics Intro. to OLAP, DW, and DM (1.5 weeks)

















- Grading Policy (tentative)
 - 2 Exams : 60 %
 - H/W (including Lab.): 30%
 - Class Activities (including quizzes): 10%
 - Grades
 - 등급별 비율 (대략)
 - 10~15%, 10~15%, 10~15%, 10~15%, 10~20%, 10~20%, ...



- Rules in this course
 - No cheatings
 - HW, Exams, Quizzes, etc.
 - No delays on HW submission
 - No claims on the final grade
 - No tardy students (→ minus points w.r.t. class activities)



- HW
 - Exercises, SQL coding using DBMSs etc.
 - PostgreSQL
 - DB application coding
 - Python ?
 - (mostly) On-line submission of HWs
 - kulms.korea.ac.kr
- Quiz !
 - Without announcements, we will have quizzes. (→ included when evaluating grades)
 - Read the textbook in advance for the upcoming lectures



- Notice
 - Prepare your own laptops for HW and Practices
 - Install PostgreSQL on your computers
 - An installation guide will be uploaded on kulms.korea.ac.kr
- Do you have any questions
 - on this class?
 - on me ?



- Reading assignments (앞으로는 별도 공지 없음)
 - Ch 1. Introduction
 - Ch 2. Introduction to the Relational Model
 - 수업 전 교재/강의 자료 읽어보기 필수 ~

