Introduction to Databases

M1522.001800; Spring 2019 (Mon & Wed: 11:00)

Prof. Sang-goo Lee

GENERAL

This is an introductory database course where we will cover the basic topics of database technology, including *data models, query languages, integrity constraints, database design, storage structures, and transaction processing*. Students are expected to have sufficient programming skills since there will be two term projects with substantial programming involved. Prerequisites are data structures and operating systems.

TEXT BOOK & REFERENCE

Textbook:
> *Database System Concepts, 6th Ed.*, Silberschatz, et al, McGraw Hill,2010

Reference:
> *Database Systems*, Atzeni, et al, McGraw Hill, 2000.

TERM PROJECTS

Details and dates to be announced later in class

EXAMS (TENTATIVE)

- 4/17 (Wed): Midterm exam – Chap 1 ~ Chap 8
- 6/10 (Mon): Final exam – Chap 10 ~ Chap 20

EVALUATION

- Exams: 25% each (50% total)
- Term Projects: 30% total
- Quizzes, Assignments, and others: 20%

* A score of 0 in any one of the exams *will result in F* for the course. A score of 0 in 50% of the reports, projects, or assignments/quizzes *will result in F*.

* Plagiarism will not be tolerated.

CLASS WEB PAGE

http://ids.snu.ac.kr/site/lectures/2019%20Spring%20Databases.html

Intro to DB
Tentative Schedule (subject to change without notice)

Week	Dates	Lecture
Week **1**	3/4, 3/6	Chap 1: Intro Chap 2: Relational Model
Week **2**	3/11, 3/13	Chap 2: (Cont.)
Week **3**	3/18, 3/20	Chap 3: SQL
Week **4**	3/25, 3/27	Chap 4: Intermediate SQL
Week **5**	4/1, 4/3	Chap 7: ER Model
Week **6**	4/8, 4/10	Chap 8: Relational DB Design
Week **7**	4/15, **4/17**	Chap 8: (Cont.) **Midterm Exam**
Week **8**	4/22, 4/24	Chap 10: Storage & File
Week **9**	4/29, 5/1	Chap 11: Indexing & Hashing
Week **10**	*5/6*, 5/8	Chap 12: Query Processing *Children's Day*
Week **11**	5/13, 5/15	Chap 12: (Cont.) Chap 13: Query Optimization
Week **12**	5/20, 5/22	Chap 13: (Cont.) Chap 14: Transaction Management
Week **13**	5/27, 5/29	Chap 15: Concurrency Control
Week **14**	6/3, 6/5	Chap 20: Data Warehouse & Mining
Week **15**	**6/10**, 6/12	**Final Exam**