

Database System (4190.301): Spring, 2017

This class is a undergraduate-level database course. This class assumes that the audience have the basic understanding of data structure and basic programming. The purpose in this class is to review all the aspects of database management system.

1. Course information

Instructor : **Prof. Hyoung-Joo Kim** (hjk@snu.ac.kr, Room 301 - 406)

Class Schedule : Tuesday Thursday 2:00-3:15 PM. Class Room: 301-203

Office Hrs: Tue/Thr 1:00 PM (Email appointment is needed)

Class material Homepage : Internet Data Base Lab Homepage (idb.snu.ac.kr)

TA: Yubin Lee (yblim@idb.snu.ac.kr), Yong Hyun Lee (leeyh@idb.snu.ac.kr), 880-1830

2. Text book

Silberschatz, Korth, Sudarshan "Database System Concepts" 6th edition (McGraw-Hill)

Text book homepage : <http://www.db-books.com>

3. Prerequisite course: computer programming, data structure (compulsory)

4. Teaching Schedule

Ch 0	Course Introduction	1 unit
Ch 1	DBMS Introduction	1 unit
Ch 2	Relational Data Model	2 units
Ch 3	Intro SQL	2 units
Ch 4	Intermediate SQL	1 unit
Ch 5	Advanced SQL	2 units
Ch 6	Formal Relational Query Languages	2 units
Ch 7	Database Design and ER Model	2 units
Ch 8	Relational Database Design	2 units
Ch 9	Application Design and Development	(optional)
Ch 10	Storage & File structure	2 units
Ch 11	Indexing and Hashing	2 units
Ch 12	Query Processing	2 units
Ch 13	Query Optimization	(optional)
Ch 14	Transactions	2 units
Ch 15	Concurrency Control	2 units
Ch 16	Recovery	2 units

5. Misc

-- Grade weight (can be changed): 6 projects (total 30%), 2 midterm exams (20% each), 1 final exam (30%), attendance (bonus 5%: one tardiness or absence -0.5%)

-- 재수강생과 본수강생은 따로 평가됨

-- There will be make-up classes in case of absent classes.