

Syllabus

IS 5305-01: DATABASE SYSTEMS IN BUSINESS

Fall, 2019

I. Instructor

Professor Ben Kim

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Office: Pigott 417

Office Hours: By Appointment

II. Class

Time: 09/25/19-12/14/19, online and in-class lectures, Monday 06:00PM-09:00PM

Room: Pigott 307

III. Course Description

This course introduces the fundamental concepts and implementations of the relational database systems. The majority of class time will be spent on the relational model and SQL queries. You will be proficient in designing and programming database systems after you successfully finish this class. We will use Microsoft SQL Server for practice and assignments. This course provides a solid preparation for data mining.

IV. Learning Goals

- Understand corporate data management
- Write SQL queries for providing information for decision making
- Build a preparatory foundation for business analytics using data mining

V. Readings¹

- *Fundamentals of Database Systems, 7/E*, by Ramez Elmasri and Shamkant Navathe, ISBN-10: 0133970779; ISBN-13: 9780133970777; Publisher: Addison-Wesley; Copyright: 2016 - optional
- Lecture Notes – Available at Canvas

¹ Before purchasing any of the textbooks, you may want to wait until the first day of class.

VI. Requirements and Grading

1. Weight of Each Requirement

Assignments:	30 %
Midterm Exam:	25 %
Final Exam:	35 %
Class Participation:	10 %

2. Grading Policy

All the assignments should be submitted at the due time of the due date. Late papers may be accepted but subjected to penalty of ten percent of the possible points every calendar day. After five days after the due date, the score will be zero.

VII. University Policies

Academic Resources

- Library and Learning Commons (<http://www.seattleu.edu/learningcommons/>)
(This includes: Learning Assistance Programs, Research [Library] Services, Writing Center, Math Lab)
- Academic Integrity Tutorial (found on Canvas and SU Online)

Academic Policies on Registrar website (<https://www.seattleu.edu/redhawk-axis/academic-policies/>)

- Academic Integrity Policy
- Academic Grading Grievance Policy
- Professional Conduct Policy (only for those professional programs to which it applies)

Notice for students concerning Disabilities

If you have, or think you may have, a disability (including an ‘invisible disability’ such as a learning disability, a chronic health problem, or a mental health condition) that interferes with your performance as a student in this class, you are encouraged to arrange support services and/or accommodations through Disabilities Services staff located in **Loyola 100, (206) 296-5740**. Disability-based adjustments to course expectations can be arranged only through this process.

Office of Institutional Equity

Title IX of the Education Amendments of 1972 (Title IX) prohibits discrimination based on sex in educational programs or activities that receive Federal financial assistance. This prohibition includes sexual misconduct, which encompasses sexual harassment and sexual violence. Seattle U remains committed to providing a safe and equitable learning, living, and working environment. Seattle U offers emergency, medical, and other support resources, as well as assistance with safety and support measures, to community members who have experienced or been impacted by sexual misconduct.

Seattle U requires all faculty and staff to notify the University’s Title IX Coordinator if they become aware of any incident of sexual misconduct experienced by a student.

For more information, please visit <https://www.seattleu.edu/equity/>. If you have any questions or concerns, you may also directly contact the Title IX Coordinator in the Office of Institutional Equity (**email:** oiie@seattleu.edu; **phone:** 206.296.2824) University Resources and Policies

Tentative Class Schedule²

Week 1: (9/30/19)	In-Class Lecture: Introduction and Overview Explanation of Technical Environment for using SQL Server F: Chapter 1 and 2
Week 2: (10/7/19)	Relational Model, SQL: Table Definitions, Insertion, Update, and Deletion of Data F: Chapter 5 and 6
Week 3: (10/14/19)	Projection, and Restriction, F: Chapter 8
Week 4: (10/21/19)	Cartesian Product, Join, Union, Difference, Intersect, and Difference F: Chapter 8
Week 5: (10/28/19)	Aggregate functions, Group By, and Views, and Select Into F: Chapter 7
Week 6: (11/4/19)	Midterm Exam
Week 7: (11/11/19)	Veteran's Day: No Class
Week 8: (11/18/19)	Nested Queries, Select Over F: Chapter 7
Week 9: (11/25/19)	Keys (Candidate Keys and Foreign Keys), and Integrity Constraints (Entity Integrity Key Constraint, Referential Integrity, and Domain Integrity) F: Chapter 5
Week 10: (12/2/19)	Stored Procedures and Triggers; Physical Database Design - File and Index Design Chapter 7, 10, and 17
Week 11: (12/9/19):	Final Exam (6:00 pm – 7:50 pm)

² F: *Fundamentals of Database Systems*

Bio of Ben Kim



Professor Ben Kim received his Ph.D., MBA, and BA from the University of Minnesota, University of Washington, and Seoul National University of Korea, respectively. Professor Kim's teaching and research areas include corporate data management, data mining, e-business, and global business management. He has published articles in *International Journal of E-Business Research*, *Journal of Systems Management*, *Data Base Management*, *Expert Systems with Applications*, *Management Decision*, *Logistics Information Management*, and many others, as well as numerous conference proceedings. Professor Kim has several chapters published in books such as *Successful Software Reengineering*, *High-Performance Web Databases*, and *Data Management Handbook*. He has conducted seminars and taught various executive programs on corporate information systems and strategies for government agencies and businesses of the United States, Korea, Japan, and Europe. He held a position of Research Fellow at J D Edwards in Denver, Colorado. At Seattle University, he is a tenured full professor and was a recipient of Genevieve Albers Professorship. Internationally, Professor Kim is a Fellow of the Japan Society of Information and Management and also holds a Visiting Professorship at Heilbronn University of Germany.