

Database System Concepts

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My Research Interests

- *Cloud Storage Management and Evaluation Techniques*
- *Distributed File System Performance Analysis and Optimization*
- *Big Data Management and Analysis Techniques*

<https://teacher.nwpu.edu.cn/zhaoxn>



大数据存储与管理
工业和信息化部重点实验室
MIIT Key Laboratory of Big Data Storage and Management

Why to learn this course?

The world is increasingly
driven by data...



This class teaches **the basics** of how to use & manage data. Database is the **science** and **technology** for organising and retrieving *large amount* of structures data efficiently.

Introduction

-- Prerequisite

Programming、 Data structure

-- Class hour: 56 (total)

Theoretical lessons : 40

Experimental lessons : 16

-- Goals

1. Use database management system.
2. Design database system.
3. Build applications with database.
4. Understand how database management systems work.

Bibliographical Book

-- Textbook

Database System Concepts (Sixth Edition, Refined Edition) Abraham Silberschatz, Henry F. Korth, S. Sudarshan

英文精编版 杨冬青 改编

China Machine Press

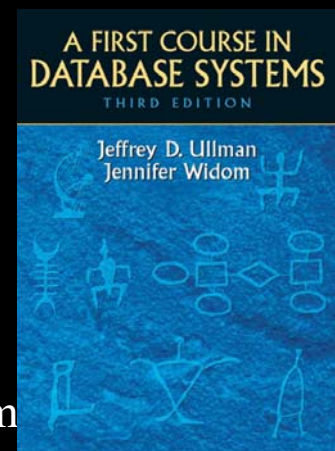
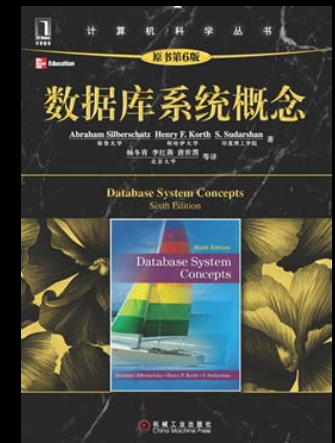
<http://www.db-book.com/>

-- PPT & Additional Materials

teaching materials (download from Wechat group)

website of Mysql (read by yourselves) or other

system(<http://jcsites.juniata.edu/faculty/rhodes/dbms/syllabus.htm>



Contents



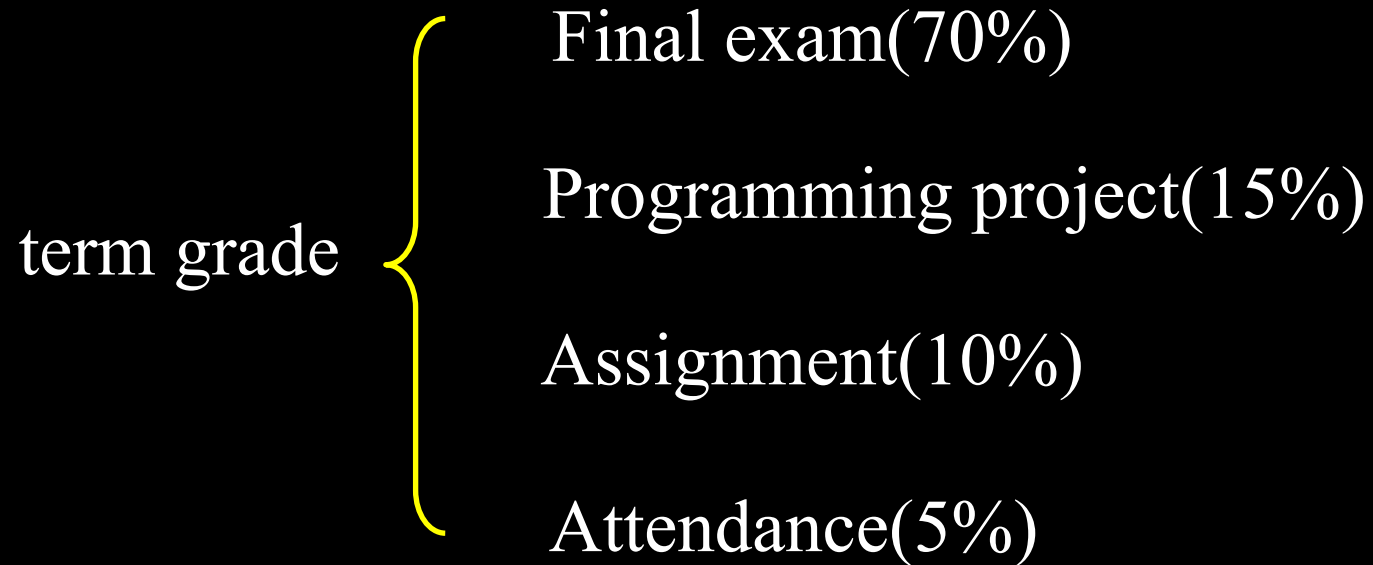
Part one Relational Databases

Part two Database Design

**Part Three Data storage, querying,
and transaction management**

Part Four Advanced Topics

Grade Elements



Other Useful Info

<http://web.stanford.edu/class/cs145/>

<https://15445.courses.cs.cmu.edu/fall2019/schedule.html>