



香港中文大學(深圳)
The Chinese University of Hong Kong, Shenzhen



CSC3170

Database System

Chenhao Ma

School of Data Science

The Chinese University of Hong Kong, Shenzhen

Basic Info

- ***Instructor***
- Chenhao Ma (machenhao@cuhk.edu.cn, 401c Zhixin Bldg)
- Office hour: **5:00-6:00 pm Monday**

- ***Teaching assistants***
- Office hour: **(will announce shortly)**

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- ***USTFs***

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Basic Info

- *Lecture*
- Mon/Wed 10:30-11:50am
- Teaching Complex C201 (TxC201)
- *Tutorial*
- Practices (programs and problems)
- TAs and USTFs lead the tutorials (starting from week 2)
- Teaching B Bldg 104 (TB104) (need updates)
- Thu 6:00-6:50 pm / Thu 7:00-7:50 pm

Assessment

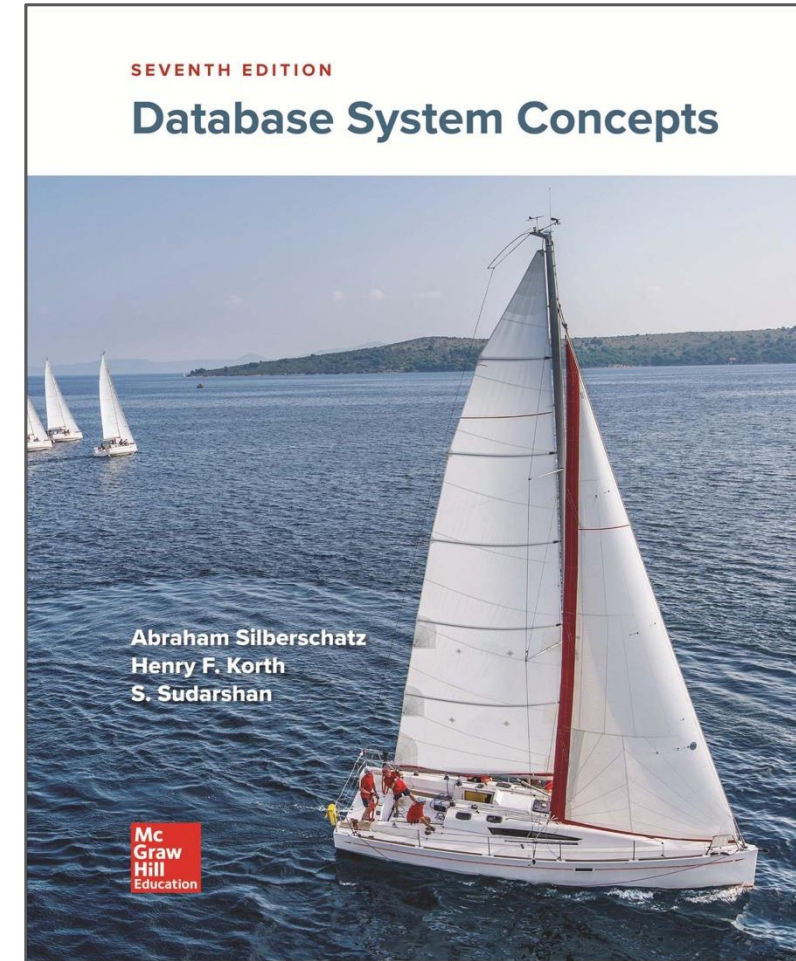
- ***3 assignments (30%)***
 - 1st @ week #2, 2nd @ week #5, 3rd @ week #10
 - A1 (SQL, pure programming)
 - A2 and A3 (at least 50% programming)
 - Late submission: **up to 2 days with 20% penalty**
 - **Start early~**
- ***1 individual project (30%)***
 - Around 1 month to finish, due on week #10
 - **High workload, generous grades**
 - **92.16 on average** for all valid submissions (24 fall)
- ***Final exam (40%)***
 - Closed test, no dictionary, 1-page cheatsheet paper

Basic Info

- *Course materials and discussions:*
- [BlackBoard]
- *Working language: English*
- After-class discussion can be in English/Chinese

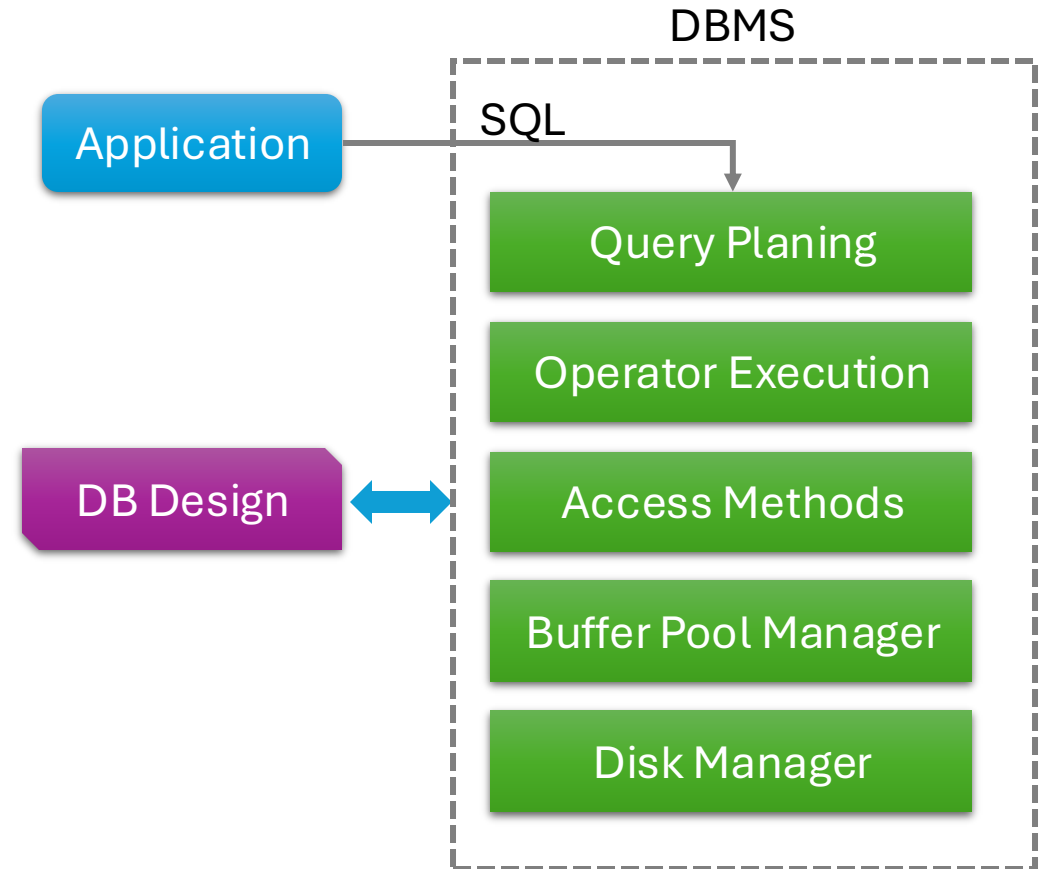
Reading materials

- **Database System Concepts**
7th Edition
Silberschatz, Korth, & Sudarshan



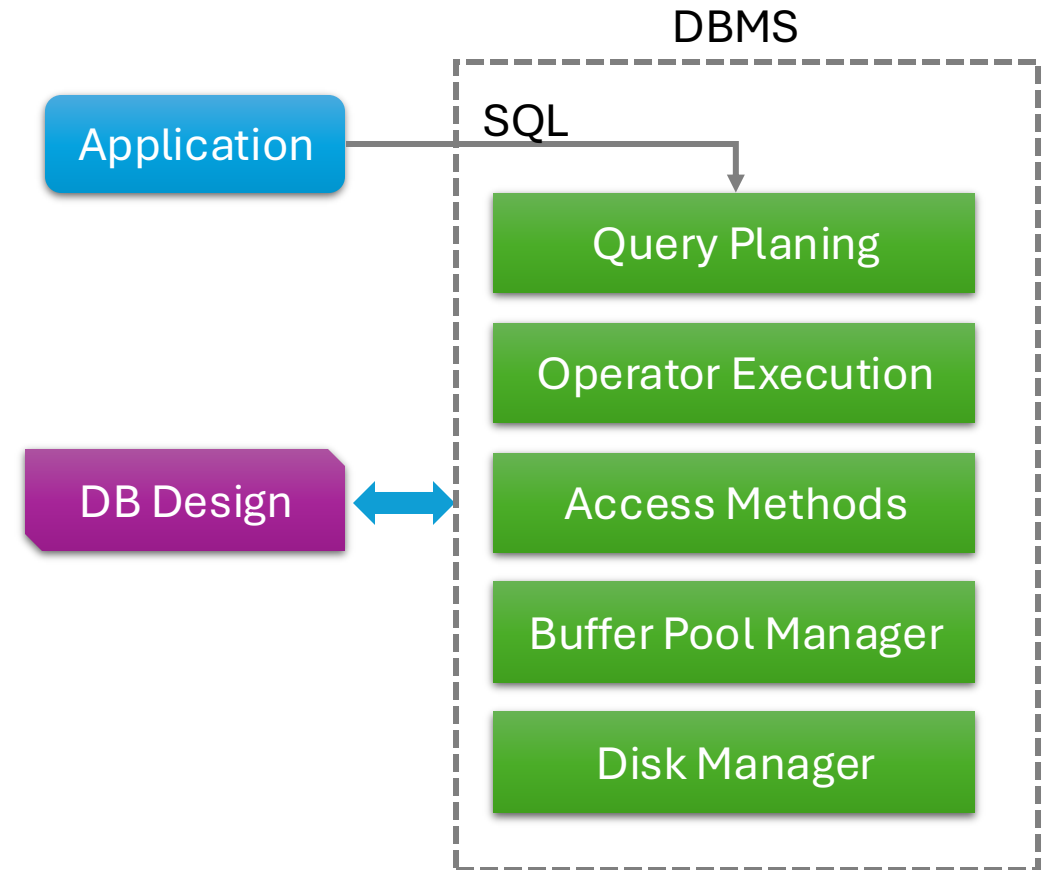
Tentative Teaching Plan

- 1 Introduction & Relational Model
- 2 SQL
- 3 Storage
- 4 Storage Models
- 5 Buffer Management
- 6 Hash Table
- 7 B+Tree
- 8 Sorting & aggregation
- 9 Joins
- 10 Query execution
- 11 Query optimization
- 12 DB Design: ER-Diagram
- 13 DB Design: FD & Normalization
- 14 Transactions & Concurrency control



Difference to Previous DB Sessions

- This session: more focus on what is **inside the DBMS**
 - Storage
 - Indexing
 - Query Execution
 - ...
- 25Spring: more focus on **DB design?**
 - ER-diagram
 - Functional Dependencies
 - Normalization
 - ...



Feedback

- *Feedback is important and highly appreciated!*
- Talk to the course instructor and TAs
- Send us emails
- ...

Thank you!