CSE 232
Principles of Database Systems
Fall 2000

Topics

1. Database Management Systems.
2. Relational Databases.
    - The relational model.
    - Commercial query languages: SQL and QBE.
    - Formal query languages: relational algebra and relational calculus.
    - Query Optimization
    - Relational Database design: dependencies and normal forms.
3. Object oriented and deductive databases.
4. Concurrency control.
5. Other current issues, as time allows.

Requirements

- midterm (30%)
- final (35%)
- assignment: using a relational DBMS (Ingres) (15%)
- assignment: using an object-oriented DBMS (O2) (20%)
- practice problems (ungraded)

Note: Weights are only tentative.

Main Text

- "Database Systems Concepts" by Korth, Silberschatz and Sudarshan, McGraw-Hill.

Transparencies: will be available on the class web page.

Recommended supplementary texts:

- "Principles of Database and Knowledge-Base Systems" by J.Ullman, Computer Science Press.
- "Foundations of Databases" by S.Abiteboul, R.Hull and V.Vianu, Addison-Wesley, 1995.