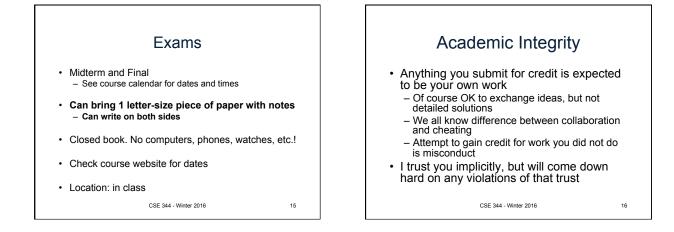


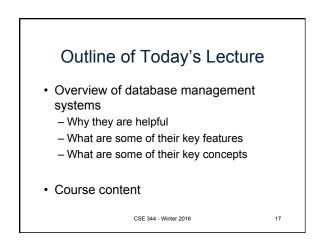
## Six Web Quizzes

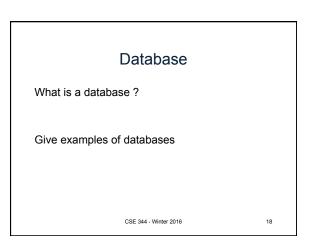
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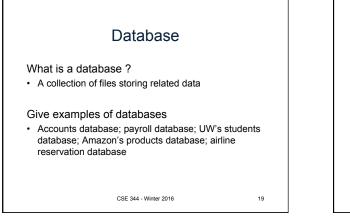
- <u>http://newgradiance.com/</u>
- Create account, provide token
- Class token on the white board: write it down
- · Short tests, take many times, best score counts
- No late days closes at 11:00 deadline
- Will drop lowest scroe
- · Provide explanations for wrong answers
- Will help you
- Test your knowledge
- Stay in synch with class
- Get ready for homeworks
  - .

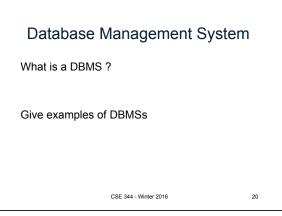
14

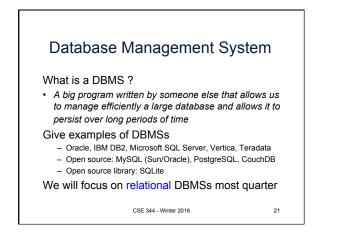


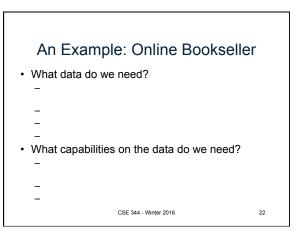


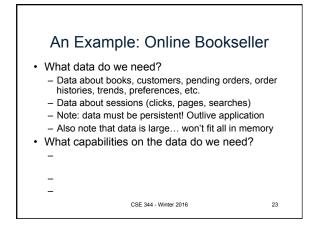


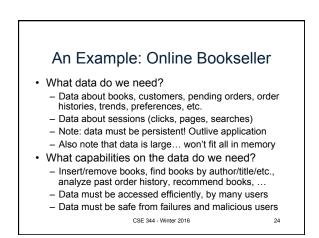


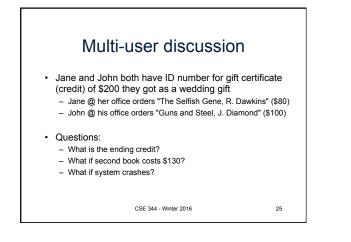


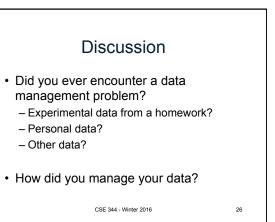




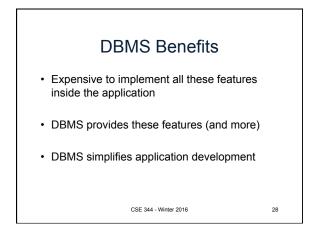


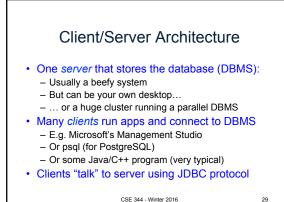












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People · DB application developer: writes programs that query and modify data (344) • DB designer: establishes schema (344) · DB administrator: loads data, tunes system, keeps whole thing running (344, 444) Data analyst: data mining, data integration (344, 446)• DBMS implementor: builds the DBMS (444)

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- Data models: how to describe real-world data
   Relational, XML, graph data (RDF)
- Schema v.s. data
- Declarative query language
- Say what you want not how to get it
- Data independence
  - Physical independence: Can change how data is stored on disk without maintenance to applications
  - Logical independence: can change schema w/o affecting apps
     Query optimizer and compiler

Review this slide during the quarter!

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- Query optimizer and compiler
- Transactions: isolation and atomicity
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## What This Course Contains

- Focus: Using DBMSs
- Relational Data Model
- SQL, Relational Algebra, Relational Calculus, datalog
  Semistructured Data Model
- JSon, CouchDB (NoSQL)
- Conceptual design
- E/R diagrams, Views, and Database normalization
- Transactions
- Parallel databases, MapReduce, and Spark
- Data integration and data cleaning

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 What to Do Now

 http://www.cs.washington.edu/344

 • Webquiz 1 is open

 • Create account at http://newgradiance.com/

 • Sign up for class online

 • Webquiz due next Sunday, 11 pm

 • Homework 1 is posted

 • Simple queries in SQL Lite

 • Homework due on Tuesday, 11 pm

 • Sign overload form if you're still trying to register

 • Post msg on discussion board if you have questions about HW

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