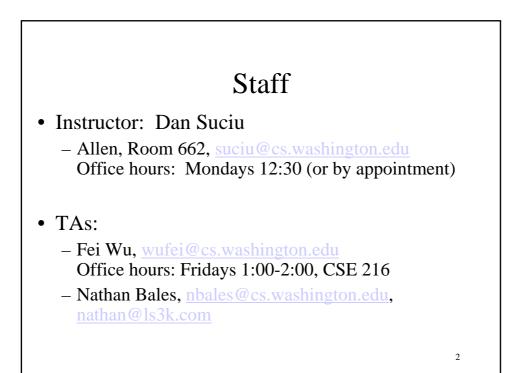
Introduction to Database Systems CSE 444

Lecture #1 January 4, 2006



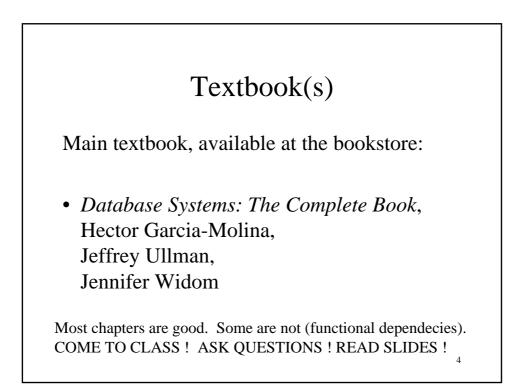
Communications

• Web page:

http://www.cs.washington.edu/444/

- Lectures will be available here
- Homeworks will be posted here (HW1 is posted)

- The project description will be here
- Mailing list:
 - Announcements, group discussions
 - Please subscribe

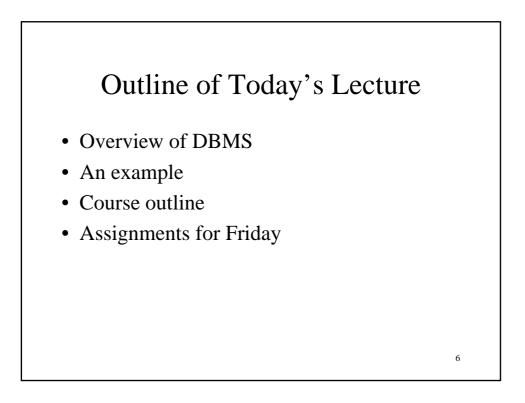


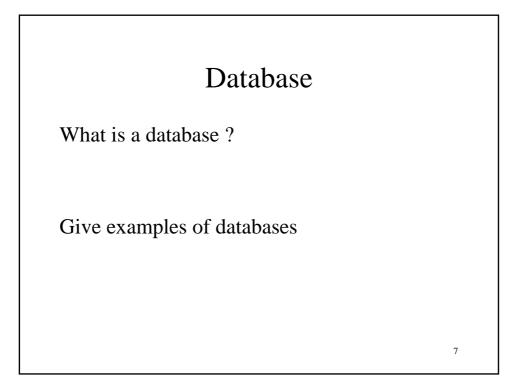
Other Texts

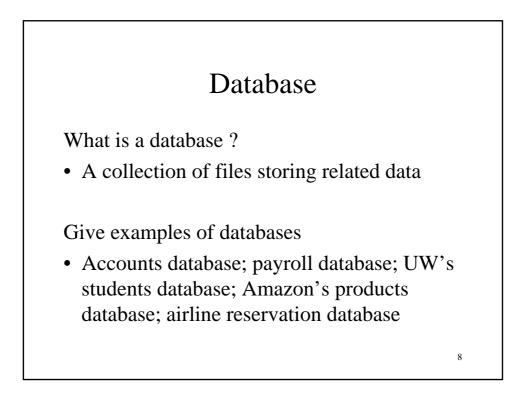
5

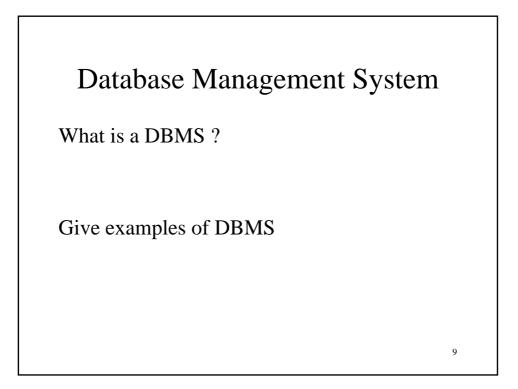
Available at the Engineering Library:

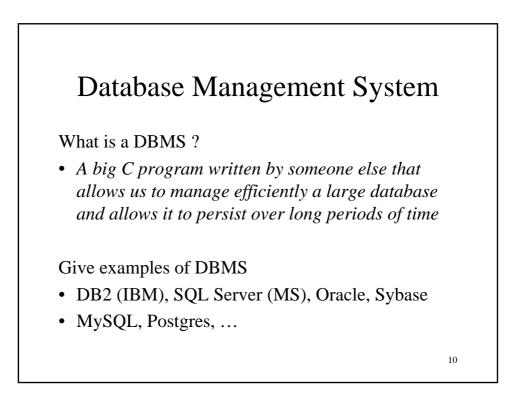
- Database Management Systems, Ramakrishnan
- XQuery from the Experts, Katz, Ed.
- Fundamentals of Database Systems, Elmasri, Navathe
- Foundations of Databases, Abiteboul, Hull, Vianu
- Data on the Web, Abiteboul, Buneman, Suciu







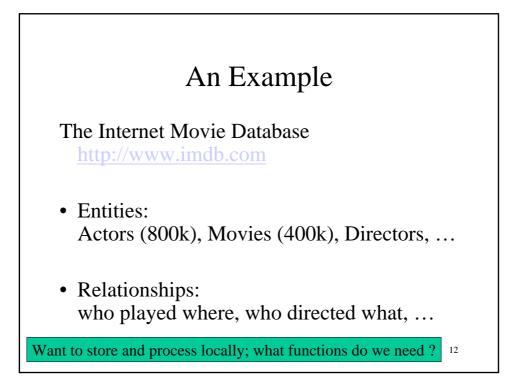




Market Shares

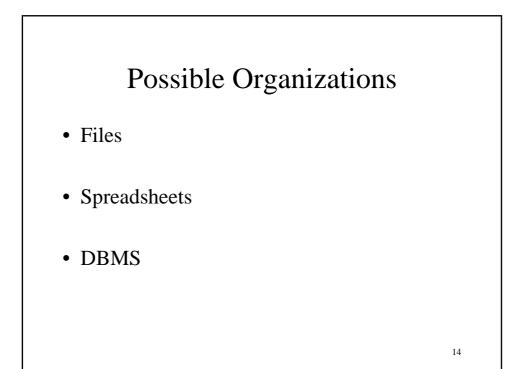
From 2004 www.computerworld.com

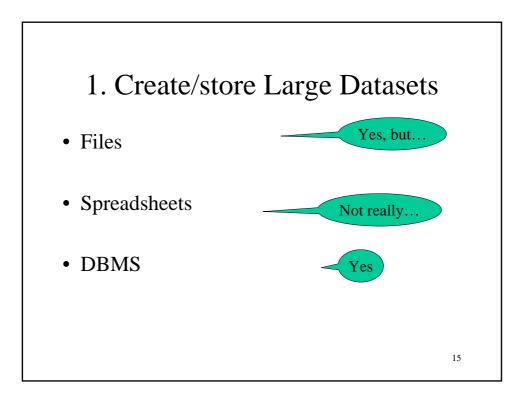
- IMB: 35% market with \$2.5BN in sales
- Oracle: 33% market with \$2.3BN in sales
- Microsoft: 19% market with \$1.3BN in sales

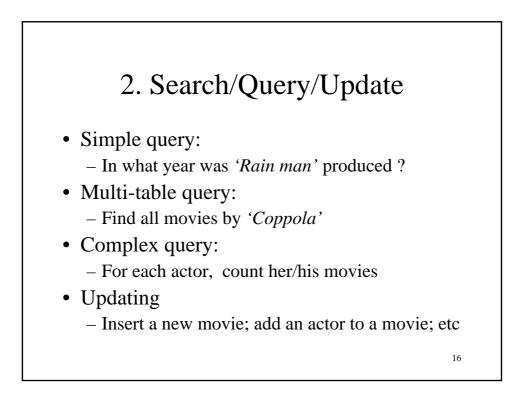


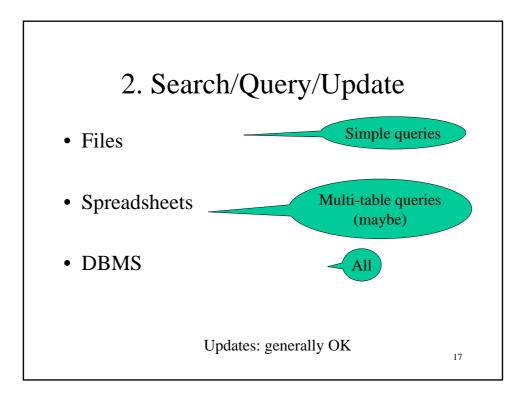
Functionality

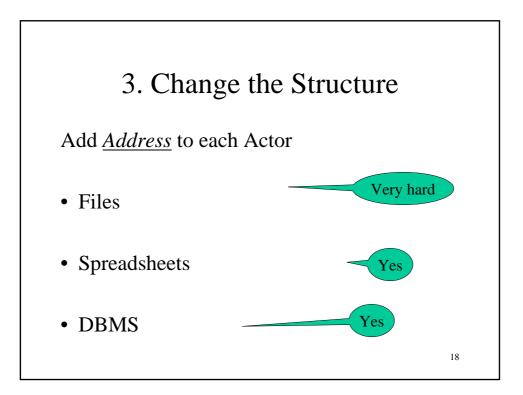
- 1. Create/store large datasets
- 2. Search/query/update
- 3. Change the structure
- 4. Concurrent access to many user
- 5. Recover from crashes
- 6. Security (not here, but in other apps)









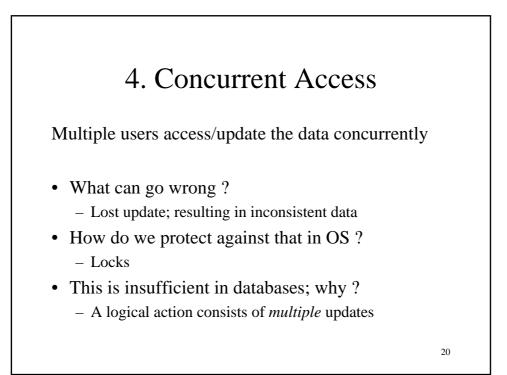


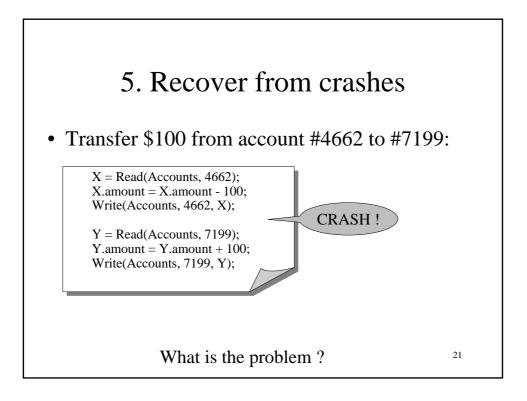
4. Concurrent Access

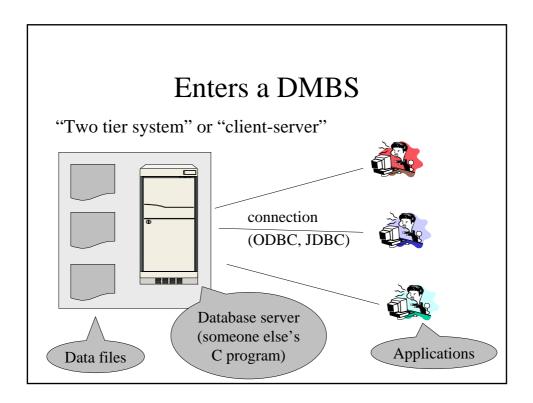
19

Multiple users access/update the data concurrently

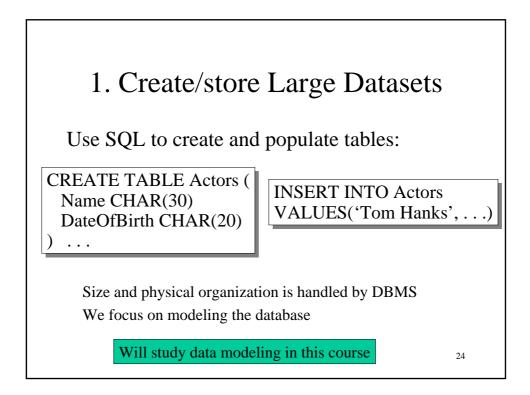
- What can go wrong ?
- How do we protect against that in OS ?
- This is insufficient in databases; why ?

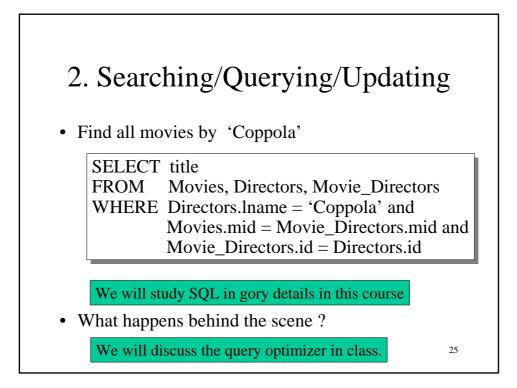


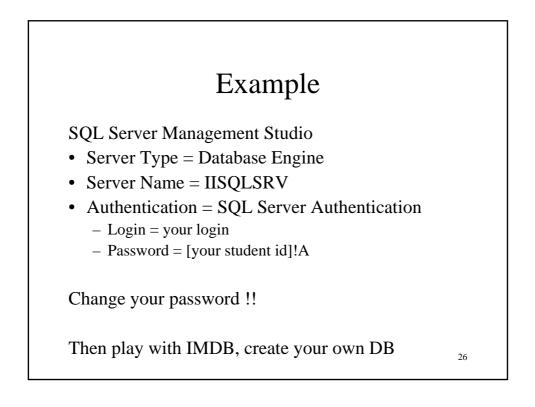


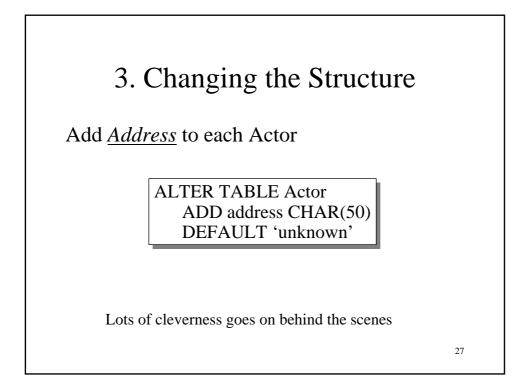


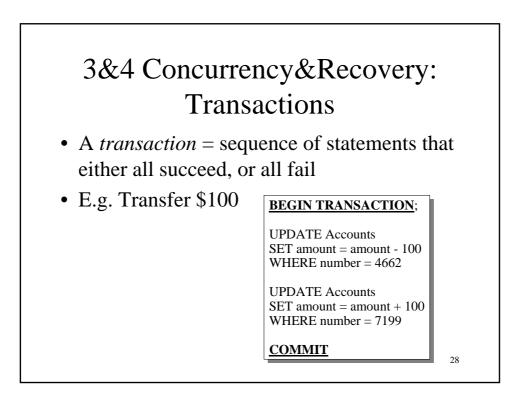
Directors:		Movie_Directors:		
id	fName	lName	id	mid
15901	Francis Ford	Coppola	15901	130128
Movies:	mid	Title	Year	
	130128	The Godfather	1972	

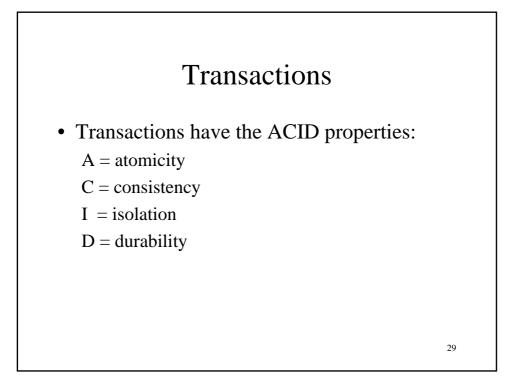


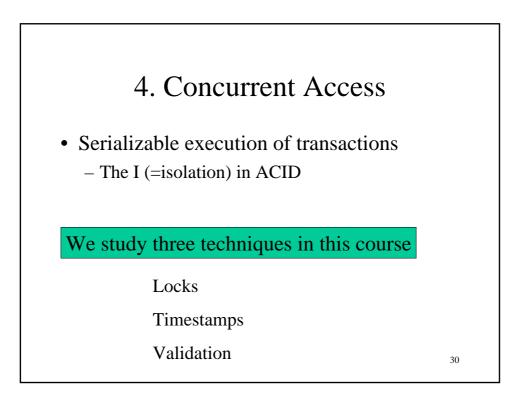


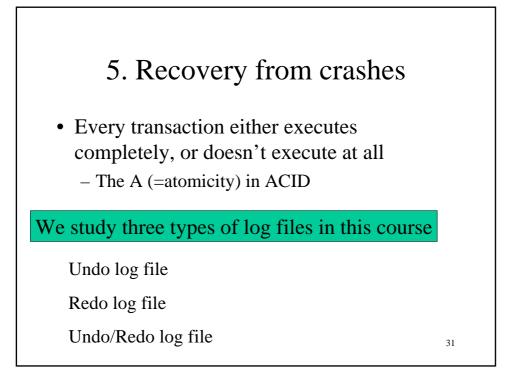


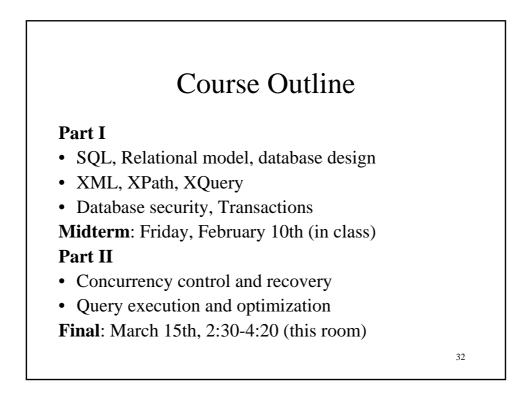


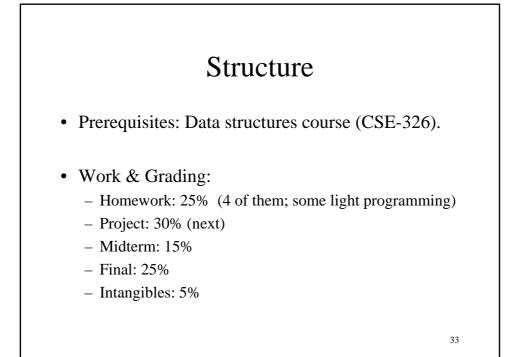


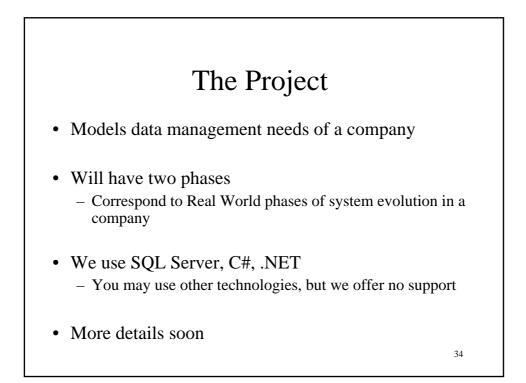












Final Announcements

- Reading assignment for Friday:
 Introduction from SQL for Web Nerds, by Philip Greenspun, <u>http://philip.greenspun.com/sql/</u>
- Login SQL Server
 - User name = your U email address
 - Password = "studentID" + "!A"
- Homework 1 is posted on the Web: due on January 18