Lecture 14: Transactions in SQL

Wednesday, February 8, 2006

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SQL

- Know the basics: SFW, GROUP-BY, HAVING...
- When are two queries equivalent ?
 - Eliminating subqueries
 - Eliminating joins
 - Be aware of duplicates
- Insert/delete, especially more than one tuple

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• Constraints in SQL





XML

- Basics in XPath and Xquery
- In what sense is XML "semistructured" ?

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Midterm

How to prepare:

- Read lecture notes
- Read from the textbook
- Review the homeworks
- Try to solve exercise (book, past exams)

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• Make sure you *understand*



















ACID: Atomicity

- Two possible outcomes for a transaction
 - It commits: all the changes are made
 - It *aborts*: no changes are made
- That is, transaction's activities are all or nothing

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ROLLBACK

- If the app gets to a place where it can't complete the transaction successfully, it can execute ROLLBACK
- This causes the system to "abort" the transaction
 - The database returns to the state without any of the previous changes made by activity of the transaction

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