# SQL: Triggers, Views, Indexes

Introduction to Databases CompSci 316 Fall 2014



## Announcements (Tue., Sep. 23)

- Homework #1 sample solution posted on Sakai
- Homework #2 due next Thursday
  - Midterm on the following Thursday
- Project mixer this Thursday
  - See my email about format
  - Email me your "elevator pitch" by Wednesday midnight
- Project Milestone #1 due Thursday, Oct. 16
  - See project description on what to accomplish by then

### Announcements (Tue., Sep. 30)

- Homework #2 due date extended to Oct. 7
- Midterm in class next Thursday (Oct. 9)
  - Open-book, open-notes
  - Same format as sample midterm (from last year)
    - Already posted on Sakai
    - Solution to be posted later this week

### "Active" data

- Constraint enforcement: When an operation violates a constraint, abort the operation or try to "fix" data
  - Example: enforcing referential integrity constraints
  - Generalize to arbitrary constraints?
- Data monitoring: When something happens to the data, automatically execute some action
  - Example: When price rises above \$20 per share, sell
  - Example: When enrollment is at the limit and more students try to register, email the instructor

# Triggers

- A trigger is an event-condition-action (ECA) rule
  - When event occurs, test condition; if condition is satisfied, execute action

#### • Example:

- Event: some user's popularity is updated
- Condition: the user is a member of "Jessica's Circle," and pop drops below 0.5
- Action: kick that user out of Jessica's Circle



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