Last Few Things

- Final project deliverables due on Friday as a .zip file. Upload to Moodle.
- Turn in group/self evaluations by Friday as well. I cannot assign you or your group a grade without the evaluation.
- Complete the online course evaluation by tomorrow 11:59pm. If more than 85% of the class does the evaluation, everyone gets a bonus point on the final exam.

Final Exam

- Tuesday, December 10, 1-3:30pm
- Or: Friday, December 6, 8:30-11am
- One 8.5 x 11 sheet of notes, front and back.
  - Typed or hand-written. No magnifying glasses.
- Will cover all topics roughly proportionally to the amount of time spent on them in class.
- All homework solutions are posted on Moodle.

Final exam topics

- The relational model; relational algebra
- SQL
- E/R diagrams
- (No Python/Flask)
- Functional & multivalued dependencies
- BCNF, 3NF, 4NF
- Indexes & B-Trees
- Query optimization
- Transactions
- JSON & MongoDB

Hint: Keys to the game: Know what a topic is, what it's good for, what it's bad for, how to use it, and how it relates to other topics.

Victory Lap

A victory lap is an extra trip around the track

- By the exhausted victors (us) ☺

Review course goals

- See if we met them

Thank you!

- You all made this a great class
  - Great attitude about learning DB topics
  - (Mostly) good class attendance and questions
  - Occasionally laughed at stuff ☺

For next time

- Growing pains:
  - Will re-examine use of Google Cloud for database and Linux infrastructure.
  - I want to make it easier for people to collaborate on the group project.

Thank you!

- My fourth time teaching this course.
- Feedback is appreciated on projects, tests, and their respective difficulty (too hard, too easy, just right?)

What will you learn? *(from lecture 1)*

- Database design
  - How do you model your data so it can be stored in a database?
- Database programming
  - How do I use a database to ask it questions?
- Database implementation
  - How does the database itself work; i.e., how does it store, find, and retrieve data efficiently?

Project debriefing

- Project goals
  - Do something cool with databases.
  - Learn to work in a team.
  - ***Learn self-sufficiency.***

What's next?

- Graduate-level database courses:
  - Focus more on other database models and database implementation.
- Real world
  - Probably relational modeling and SQL will be most useful to you.
  - But NoSQL/JSON/MongoDB is becoming more prevalent.
  - Consider learning other stuff that employers might want: Amazon Web Services/Google Cloud Platform (cloud DB), Oracle, MS SQL Server, MySQL, PostgreSQL, Hadoop/MapReduce, Cassandra

Stay in touch

- Tell me when this class helps you out with something cool (seriously).
- Ask me questions (may not always know the answer, but I can tell you where to find it).
- Don't be a stranger: let me know how the rest of your time at Rhodes (and beyond!) goes… I really do like to know.


That's all Folks!
SUPERB wallpapers