



# Final Exam

- Saturday, May 5, 1pm
- Or: Tue May 1, 1pm; Wed May 2, 5:30pm
- 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 will be posted on Moodle soon.

# Final exam topics

- The relational model; relational algebra
- SQL
- E/R diagrams
- (No Python/Flask)
- Functional & multivalued dependencies
- BCNF, 3NF, 4NF
- Indexes
- 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 😊

# Thank you!

- My third 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!*