

Introduction

Introduction to Databases

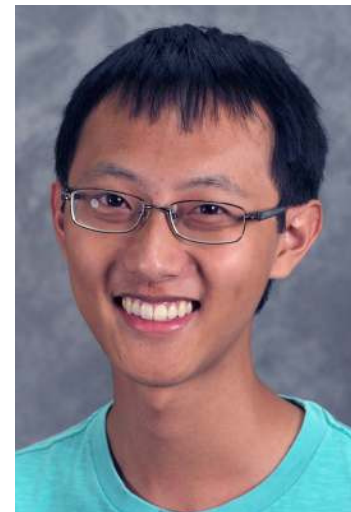
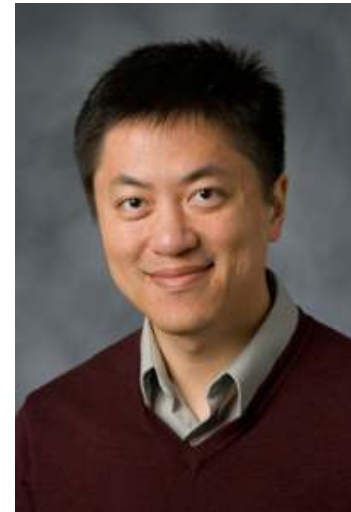
CompSci 316 Fall 2017



DUKE
COMPUTER SCIENCE

About us: instructor and TA

- Instructor: **Jun Yang**
 - Been doing (and enjoying) research in databases ever since grad school (1995)
 - Didn't take any database as an undergrad
 - Now working on data-intensive systems and computational journalism
- Graduate TA: **Andrew Lee**
 - PhD student in Computer Science
 - Working on “big data” analysis



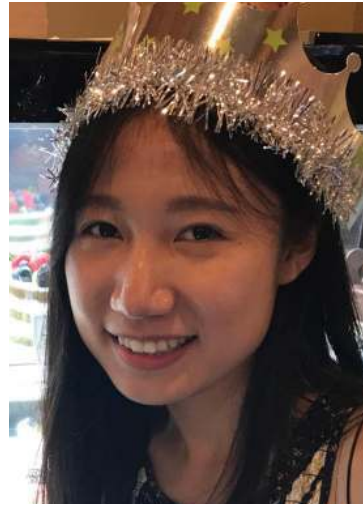
About us: UTAs



Seon



Sophie



Amy



David

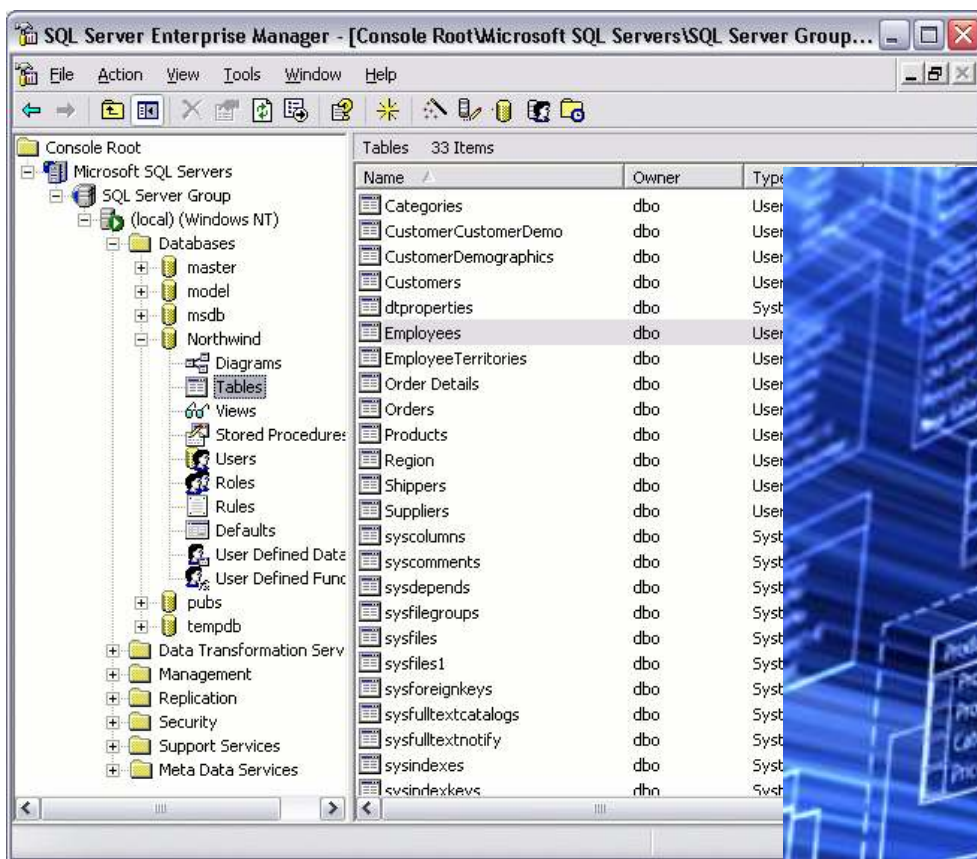


Jia

All CompSci 316 veterans!

What comes to your mind...

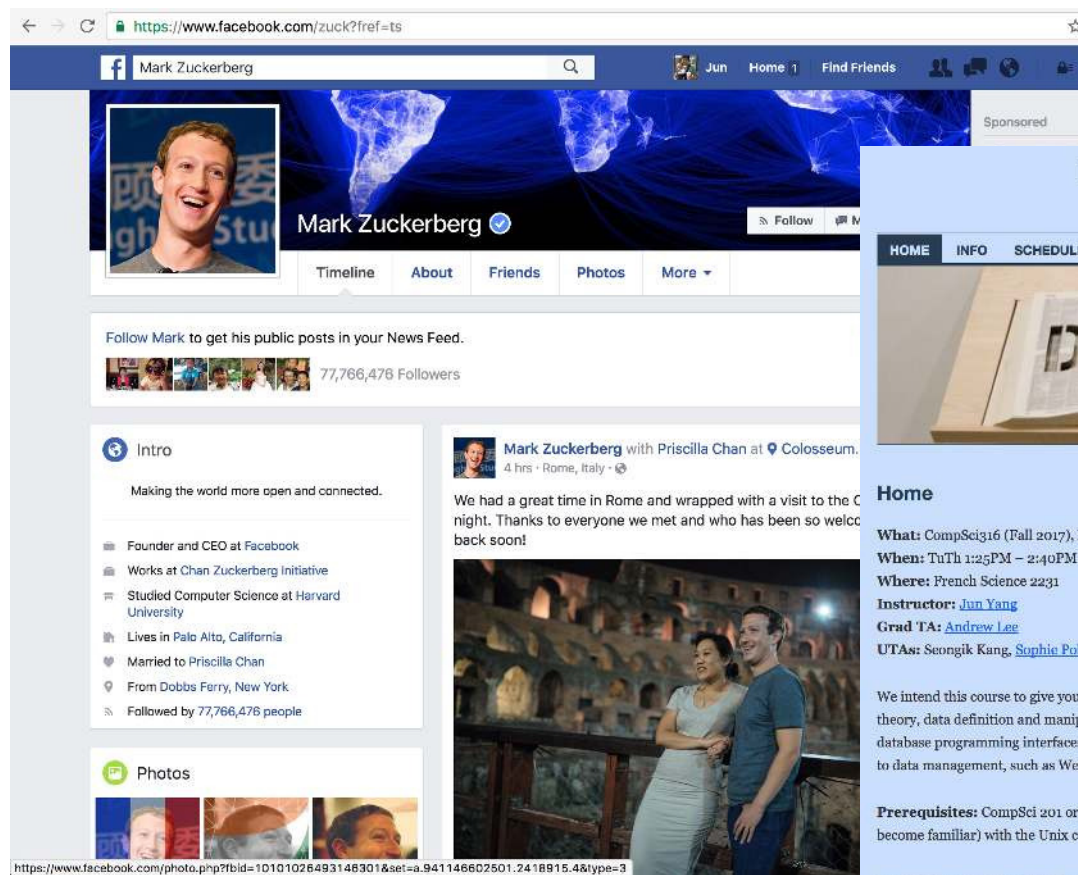
... when you think about “databases”?



http://www.quackit.com/pix/database/tutorial/dbms_sql_server.gif

<http://webstoresltd.com/wp-content/uploads/2013/06/database-design.jpg>

But these use databases too...



Facebook uses MySQL to store posts, for example

A screenshot of the course website for "Introduction to Databases (Fall 2017)" at Duke University. The page title is "Introduction to Databases (Fall 2017)" with the course ID "COMPSCI 316-01, Duke University". The navigation menu includes "HOME", "INFO", "SCHEDULE", "HELP", "GRADUANCE", "DISCUSSION (PIAZZA)", and "SUBMISSION & GRADES (SAKA)". The main content area features a banner image of two open books with the words "DATA" and "BASE" on their pages. Below the banner is a "Home" section with the following details:

- What:** CompSci316 (Fall 2017), Duke University
- When:** TuTh 1:25PM – 2:40PM
- Where:** French Science 2231
- Instructor:** [Jun Yang](#)
- Grad TA:** [Andrew Lee](#)
- UTAs:** Seongik Kang, [Sophie Polson](#), [Amy Yang](#), [David Yang](#), [Jia Zeng](#)

 The text below describes the course content: "We intend this course to give you a solid background in database systems as well as data management in general. Topics include data modeling, database design theory, data definition and manipulation languages, storage and indexing techniques, query processing and optimization, concurrency control and recovery, and database programming interfaces. Besides relational and semi-structured (e.g., XML and JSON) data, this course also samples a number of other topics related to data management, such as Web search, data warehousing, data mining, and "big data." Programming projects are required."

Prerequisites: CompSci 201 or equivalent, or consent of the instructor. At the minimum, you will need CompSci 101, and familiarity (or ability to quickly become familiar) with the Unix command line (such as "Terminal" in Mac OS).

Special thanks to Google for their support of Google Cloud credits for this course!

 At the bottom, it says "Proudly powered by WordPress. Theme: Coraline by WordPress.com."

WordPress uses MySQL to manage components of a website (pages, links, menus, etc.)

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