DATABASE SYSTEMS (DBS)

Database Systems

- Class meets Mondays and Thursdays 9-9:50 in DHT LG.
- Professor: Leonid Libkin
- Prerequisites: Successful completion of Year 2. Students are expected to have taken a basic course in logic and discrete mathematics.

Database Systems

- Databases are everywhere.
- Three main types of users:
  - End-users
  - Database administrators
  - Database implementors
- A good end user must know how a DBMS works (i.e. understand a bit about the other two categories)
- The goal of the course is to teach you to be such good end-users of commercial DBMSs.

Database Systems: Topics

- Relational model, basic query languages (relational algebra, calculus, SQL)
- SQL programming
- Database design and normalization
- Query and transaction processing
- Other topics, as time permits (NoSQL, document databases, top-k algorithms etc)

Assessment

- Two assignments (25%)
  - Theoretical (pencil/paper, 10%)
  - Practical (SQL programming, 15%)
- Exam (75%)

DBS - Text

- Recommended text:
  - Ramakrishnan, Gehrke, *"Database Management Systems"* 3rd edition
- Lecture notes will be posted on the course webpage

Course webpage

- http://homepages.inf.ed.ac.uk/libkin/teach/dbs14/index.html
- Two ways to get there:
  - From the school listing of courses, click on DBS; you get to the 2011 page – don't worry, it is now used as a pointer, from there you can navigate to 2014
  - From professor's webpage (put "libkin" in google and hit "I' m feeling lucky") follow the teaching link.

Email rules

- Only use your UoE email
- Always put DBS in the subject
- No attachments!
- Be reasonable (an email with some SQL code and a question “what’s wrong” won’t get an answer)
- I try to answer within 24 hours. Remember this before hw deadlines!

Tutorials

- They will start in week 3 or week 4, depending on how quickly tutor positions are filled
- Tutorial attendance is compulsory.
- If you have a conflict, talk to the ITO. If you miss one, talk to others in your tutorial group.