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:

- Lecture notes will be posted on the course webpage
Course webpage


- **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.