Midterm Review Sheet

The following topics are all fair game for the midterm:

- PostgreSQL installation, configuration, and usage
- Data modeling (overall flow/concepts, UML, E-R)
- Use case modeling
- Relational data model
  - Structure (relations, tuples, attributes, keys, schemas, notation)
  - Algebra (fundamental and advanced operations)
- SQL (DDL, DML)
- Relational database mapping
- A little bit of relational database programming

By popular demand, we’ll make this an open-computer test. But remember — with great power comes great responsibility, so with a computer (and the Internet) at your fingertips, you’ll be asked to do more and to do it more accurately. The questions will generally correspond to the assignments that you have done so far:

- Draw a data and/or use case model
- Map a UML or E-R data model to the relational model
- Draw a relational schema diagram
- Express relational algebra queries
- Define a relational database using SQL
- Write inserts, updates, deletes, and queries in SQL
- Write some Java/JDBC code (not an entire program; mainly fragments — for now)

Textbook reading includes: SKS Chapters 1–4, SKS Chapter 6, and portions of SKS Chapter 26. Good luck and have fun!