

Introduction to Databases

Homework 1

Handed out: Monday, October 15, 2006

Due back: Wednesday, October 24, 2006 (at the start of class)

Notes: To be done individually

1. Textbook exercise 2.1.3
2. Textbook exercise 2.1.4
3. Textbook exercise 2.2.5
4. Textbook exercise 2.2.6
5. For your answer to 1, specify keys and indicate appropriate referential integrity constraints.
6. Textbook exercise 2.3.2
7. Textbook exercise 2.4.3
8. Convert `~cs339/HANDOUT/election-example/elect.sql` to an ER diagram (ignore the sequences and views – only consider the tables)

Extra Credit Problems

The Unified Modeling Language (UML) is a widely used graphical modeling language that can be used to design database schemas. Read about UML and compare and contrast it with the Entity-Relationship model.

Graphical modeling languages are also used for user interface design. Download DENIM (<http://dub.washington.edu/projects/denim/>) and use it to design a voting machine interface.