

# CMSI 486

## INTRODUCTION TO DATABASE SYSTEMS Fall 2005

### ***Assignment 1117***

This assignment is all about functional dependencies, normal forms, and decompositions. Part of it is pure practice; the other part is application to your specific project.

### **Not for Submission**

Read Chapter 7 in SKS.

### **For Submission**

Submit the following on hardcopy. While not required for submission, presumably any database design changes that you make in this assignment should be reflected in your project DAO code:

1. Exercise 7.1 in SKS.
2. Exercise 7.3 in SKS.
3. Exercise 7.5 in SKS.
4. Exercise 7.20 in SKS.
5. List the functional dependencies in your database project.
6. Based on this list, modify your database project's relational database schema so that, as much as possible, it is in BCNF, lossless, and dependency-preserving. If it is impossible to accomplish all three, either use 3NF or explain the dependency or dependencies that cannot be handled. Submit the new relational database diagram.