University of Utah
School of Computing

CS 3500/5010   **Handout 9**   **November 18, 2010**

Problem Set Seven

In this problem set, you will be creating a Visual Studio solution that solves the problem described below. Your solution must be called `ps7`, and must consist of one project.

You may work with a partner or individually as you see fit. If work with a partner, you do not need to use pair programming. However, you are not to divide the project into two pieces and work separately. We expect you to collaborate closely.

We will retrieve solutions for grading by running the Linux command

```
svn --username cs3500 --password ######### checkout
        svn://lenny.eng.utah.edu/home/XXXXXXXX/cs3500/ps7/trunk ps7
```

at 11:59 p.m. on Wednesday, November 24. If you are working with a partner, include a file `partners.txt` in your project that gives the name and CADE login name of the two partners. Please be sure that only one of you has a `ps7` directory in your repository.

Database Project

You are to create a project with a GUI front end and a database back end. The database should keep track of the data for some enterprise. You can choose any application that appeals to you as long as it isn't a library, which we did in lecture.

The database should make use of at least four tables with appropriate uniqueness and foreign key constraints. Your C# card that manipulates the database should do joins, inserts, updates, and deletes. The database must be deployed on the CADE Lab's MySQL server.

The GUI front end should provide a way to display and manipulate the data. Nothing fancy is required here; we are primarily interested in your database manipulations. Be sure to handle exceptions.

Your project must include a short paper in PDF format describing the design of your database. Describe the tables with their columns, the primary keys, the uniqueness constraints, and the foreign key constraints.

If you work with partner, you must also include a second paper in PDF format describing the nature of your collaboration and comparing it to your experience on the previous two pair projects.