Assignment 6 – CS3310

1. Download & install MySQL.

2. Download & install the appropriate connector for MySQL which allows C# (& other .NET languages) or Java to interact with a MySQL database. *[NOTE: C# people need Visual Studio (vs. Microsoft C# Express Edition) – see the staff in room C-208 for instructions on how to get this since CS no longer has the MSDN license, but CEAS does].*

3. Create a World DB consisting of just the Country and CountryLanguage tables. Do this using MySQL and appropriate script files – NOT using a C# or Java program. [The script files to do this (with minor modifications for pathing) are on the course website].

4. Write a C# or Java program which does batch processing (using the "Sequential File Processing Algorithm" – i.e., loop til EOF {read 1 transaction, then deal with it}). The input Transaction file (a text file) includes requests for retrieval of data from the World DB (`select`'s) and for updating of the World DB (`insert's, delete's, update's`). An output Log file (a text file) includes the following for each transaction:

    a. the original transaction request,
    b. the results from executing the "query" (which would be a "table" for a `select`, or a reassurance message for an `insert/delete/update`).

    See `A6TranAndLogSpecs.pdf` and `A6DemoSpecs.txt` on the course website for further details.

    The program MUST be modular, using good descriptive naming, a comment-line-of-*s between modules, etc. There's a C# and a Java project example on the course website to demonstrate how a C#/Java program accesses a MySQL database: `UseMySqlDb.zip` (including `UseMySqlDbProgram.cs/java` and its 2 classes: `DataRetrieval.cs/java`, `DataUpdate.cs/java`).

    The demo programs use hard-coded queries, hard-coded column-headings, multiple retrieval methods, etc. just to demonstrate how the new C#/Java language concepts regarding connecting and interacting with an existing DB. **CHANGE THESE for the asgn** to make what you hand in follow the asgn and demo specs.

5. NOTE: The examples on my website used MySQL 5.1. Newer versions *should* work the same.