AdvSQL – Assignment 4

**Individual submission**

# General Description

You will write a transfer utility to allow table data to be copied from one database to another.

# Specific requirements

1. The application is written as a desktop application in C# on the .NET platform.

2. Both the source and destination databases must be identified using the Data Link Properties application that you normally use to specify the OLEDB data link information.

3. The source must exist when the transfer is attempted.

4. The destination may exist as an empty database, or as a database with all the same tables as the source. It may contain more tables than the source.

5. The utility must compare the tables in both the source and destination to ensure the following:

a. All tables in the source also exist in the destination. If any table does not exist, the user is told it will be created and populated. (This means that if the destination is empty, all tables will be created there.)

b. For all tables that exist in both the source and destination, all columns in the source are also in the destination with the same data types. If not, notify the user and abort the operation.

6. Before the actual table creation and/or data transfer takes place, the user is provided with a summary of what is about to take place for final confirmation. If confirmed, the processing begins.

7. The processing should be treated as a single transaction. If anything fails, the whole process is rolled back.

8. As the processing takes place, the user is notified of the status in an appropriate and practical way.

9. You are to apply this to tables only. You do not have to implement the transfer of the following:

a. Referential integrity

b. Permissions

c. Indexes

d. Triggers

e. Stored Procedures

f. Functions

## Submit the following to the Angel Dropbox by the due date:

- A MS Word, PowerPoint or PDF that outlines with screen shots, your implementation of requirements 5-8. We’re looking for the UI elements that will warn users of issues, indicate the data migration task is being completed, etc. Don’t send me screenshots of your code in VS =)

- Complete solution in C#, so that I can review your code.

- Include any SQL scripts needed to create the DB/tables for your application. Save them as a .txt file so that Angel doesn’t get mad at you =)