Assignment 2: Data Migration

**The Work**

While working on this homework assignment, Sarah worked on migrating the data from the JDBC/Java program to out master and normalized tables. Carlee worked on developing the normalized tables, creating the tables in Oracle, and writing the tests to check that the tables are normalized well.

**MigrationER & MigrationDDL**

MigrationER is the crows foot diagram of our normalized tables. MigrationDDL is the .sql file of the creation of the normalized tables from MigrationER using DDL.

**Migration & MigrationTest**

Migration is the .jar file of the Java code to migrate the data from the Feature\_Master table to the normalized tables created in the MigrationDDL file. MigrationTest is the .sql file of the SQL queries to test the data moved the tables in Migration. Bulk PreparedStatements are used to increase the speed of the migration.

**Bugs & Struggles**

We struggled at first while figuring out how the data should be organized into our normalized table. We also struggled to migrate the normalized tables into Oracle, as issues arose with odd SQL error messages about exceeding a maximum number of cursors. Too late we discovered that we failed to include the primary keys from our feature\_source and feature\_date tables into our feature\_info table. We were unable to correct our error in time, resulting in SQL test that were unable to run because the tables were not linked correctly. We did update our Crow’s Foot Diagram to reflect the correct table normalization and creation.