

Project 2 (DDL Statements) Specific Instructions

Project 2 will build on the structure initially developed in Project 1.

For Project 2 you will need to implement the following commands from the Project Grammar:

1. DEFINE TABLE
2. RENAME
3. DROP
4. PRINT DICTIONARY

The first three commands are used for the creation and maintenance of tables, their names, and their fields (including data types). Typically, we'll allow the user to change the name of a table, but if more complex actions are required (such as changing the fields or their names) we'll insist that the user DROP the table and run DEFINE TABLE again. The fourth command prints out (in an orderly fashion that you will design) all tables that are currently defined for the database, as well as their names and all fields along with their data type. This command is useful for debugging and checking your work.

Project submission should include appropriate JUnit tests for your code as well as javadocs, and source code, class files, and docs should be submitted by email in a functioning jar file. Make sure SVN is up to date with your current code. Be sure to include your group number in your email submission.

Hints: Suggest you create a different class for each of the 6 datatypes indicated in the grammar. These will be quite helpful as you go along. Your program will need to keep track of multiple tables and a HashMap is an excellent collection for this purpose. For each table you will need to track a number of fields and their order, so I suggest an ArrayList will be excellent for this purpose.