CS411 Track 2 Initial Demo

To compile and run the server

javac -cp . simpledb/\*/\*.java simpledb/\*/\*/\*.java

javac -cp . studentClient/simpledb/\*.java

java simpledb.server.Startup studentdb

To run the client

java -cp simpledb.jar:. SQLInterpreter

Files Edited

1. SELECT \*
   1. Lex.java
      1. Keyword list: “ \* ”
      2. public boolean matchStar()
   2. Paser.java
      1. Public QueryData query()
   3. ProjectPlan.java
      1. If star, schema.addAll(p.schema());
2. Rename Column/Table
   1. Lex.java
      1. Keyword list: “alter”, “table”, “change”, “rename”, “to”
   2. Parser.java
      1. Public Object updateCmd() – “alter”
      2. public Rename rename()
   3. Planner.java
      1. executeRename
   4. UpdatePlanner.java
      1. Differentiate col or table
      2. Call MetaDataManager
   5. MetadataMgr.java
      1. Call corresponding rename function in table manager
   6. TableMgr.java
      1. Public void renameTable()
      2. Public void renameAttributes()
3. Cartesian Product
   1. Lex.java
      1. Keyword list: “cross”, “join”
   2. Parser.java
      1. Public QueryData query()
4. Equi-Join
   1. Lex.java
      1. Keyword list: “equi”
   2. Parser.java
      1. Public QueryData query()

Examples/Commands

1. SELECT \*
   1. SELECT \* FROM student
2. Rename Column/Table
   1. Rename Column
      1. ALTER TABLE student CHANGE sname TO studentName
   2. Rename Table
      1. ALTER TABLE student RENAME TO studentRename
3. Cartesian Product
   1. SELECT \* FROM student CROSS JOIN dept
4. Equi-Join
   1. SELECT \* FROM student EQUI JOIN student1 on sname=sname1