Proj 2 Design

1. DataBase
   1. Database
   2. Transact
      1. Some codes from Parse.java used in here to compare commands
      2. Calls on methods from table class
2. Table – Calls on methods from General Method Functions.
   1. Instance Variable
      1. Boolean CrTblSel = false;
         1. Checks whether Select is used within Table() or not.
      2. item[][] data;
   2. Commands
      1. Table
         1. Table(int rows, int cols, Boolean new, String[] col names, String[] col type)
            1. If (new == true), create new table.
            2. Else, create table where

Switches CrTblSel to true.

Uses Select Method

* + 1. Loadtable
    2. Storetable
    3. DropTable
    4. InsertInto(Table table, item[][] data\_in )
       1. Method similar to AddRow
       2. If (data isEmpty()) {data = data\_in;}
          1. Else {AddRow(data, data\_in);
    5. Print
    6. Select\_Join(Table[] tables)
       1. Uses Print Method if (CrTblSel == false)
       2. Switches CrTblSel to false if true.
       3. Uses RowComp

1. General Method Functions
   1. Float/Int specific methods
   2. String specific Methods
   3. RowComp(int col, Table A, Table B)
      1. Compares the row of column “col” in tables A and B
   4. AddRow
2. Parser (optional)
   1. Used to split commands up
   2. Inspiration from Parse.java

Notes:

1. Use linked list, then array list.

2. Can use ArrayList for each item in linked list.

a. Data has to be stored as Strings

b First to indexes of each ArrayList reserved for column name and type..

3. Use parsers to convert data back to original type.