

Proj 2 Design

1. DataBase
 - a. Database
 - b. Transact
 - i. Some codes from Parse.java used in here to compare commands
 - ii. Calls on methods from table class
2. Table – Calls on methods from General Method Functions.
 - a. Instance Variable
 - i. Boolean CrTblSel = false;
 1. Checks whether Select is used within Table() or not.
 - ii. item[][] data;
 - b. Commands
 - i. Table
 1. Table(int rows, int cols, Boolean new, String[] col names, String[] col type)
 - a. If (new == true), create new table.
 - b. Else, create table where
 - i. Switches CrTblSel to true.
 - ii. Uses Select Method
 - ii. Loadtable
 - iii. Storetable
 - iv. DropTable
 - v. InsertInto(Table table, item[][] data_in)
 1. Method similar to AddRow
 2. If (data isEmpty()) {data = data_in;}
 - a. Else {AddRow(data, data_in);}
 - vi. Print
 - vii. Select_Join(Table[] tables)
 1. Uses Print Method if (CrTblSel == false)
 2. Switches CrTblSel to false if true.
 3. Uses RowComp
 3. General Method Functions
 - a. Float/Int specific methods
 - b. String specific Methods
 - c. RowComp(int col, Table A, Table B)
 - i. Compares the row of column “col” in tables A and B
 - d. AddRow
 4. Parser (optional)
 - a. Used to split commands up
 - b. 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.