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Project 2 Design Document

Design:

* The Table uses a Linkedhashmap which links strings (the name of each column) to Column objects.
* Columns are abstractions which contain ArrayLists that hold the contents of each column, i.e. one entry of each row.
* Will circumvent generic types using casting: obj.getClass().getSimpleName();

Advantages:

* Can maintain the order of columns (easy for joining)
* Easy to access columns by name (via Map ADT)
* Easy to add rows (can just add entry to end of each column)

Disadvantages:

* Difficult to compare similarities between columns in efficient time
* Nested generic types difficult to work with
* Can’t directly grab a row (need to get the corresponding entries from each column in the table)