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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)