Program Organization:

Database(UI)

Extracted Information for user to be able to create, delete, manipulate, and query tables

Name  
 Map<TableName, Table>

Table

Name

Map<ColumnName, Columns>

Column

Name

Type

Map<RowId, Data>

External:

Database Class

Create Database();

CommandResult Database.Command( string s): Receive string form user if no string return error

Execute command and form command class result and success

ColumnNames, TableNames cannot include spaces and case sensetive

Format Key words all caps:

“SELECT <ColumnName>, <ColumnName> FROM <TableName> WHERE <Condition>”

“CREATE <TableName> (<columnName> <type>, <ColumnName> <Type>, … )“

Int CommandResult.Error() = was the last execution of the command successful

CommandResult.ErrorMessage() = string of the error if command failed otherwise null;

CommandResult.Table = Resulting table from the command

CommandResult.TableName = Name of the Table for use in future commands

Group Work Division:

Chelsea: Create/Delete Database Table, Insert, Delete, Modify Data

Gregory: Select From, Sum, Count, Min, Max

Bradley: Where In, parentheses, exists