DavisBase Project: Part 1 Submission

Team Yellow

Running the program

- To run the program execute the run bash script using ./run.
- Note that this will create a directory named data/ within the bin/ folder (if it doesn't already exist). The bin/data/ directory contains all the .tbl files.

Design Assumptions

- Date expects the following format when inserting:
 YYYY-MM-DD.
- Time expects milliseconds after midnight when inserting, but will display as

hh:mm:ss in 24-hour time or military time.

- DateTime expects the following format when inserting: YYYY-MM-DD hh:mm:ss.
- Year expects the following format when inserting: YYYY. Note that we do not validate whether the given value falls within the

range [1872, 2127], so values outside this range will experience over/underflow.

- When inserting, INSERT INTO (<column_list>)
 VALUES (<value_list>), the given <column_list> will match
 on the columns of using the NAMES of the columns,
 ie: it does not matter the order of the columns passed in
 <column_list> just the names must match the actual column
 names.
- When inserting, INSERT INTO (<column_list>)
 VALUES (<value_list>), the given <value_list> is comma delimited, and strings need not be in quotes quotes will be dropped. This means you cannot insert the string NULL into a nullable text column.

Features Supported

- INSERT performs data type validation and will ABORT any invalid insertions.
- Nullable Columns: NULL may only be inserted into a nullable column, columns by default are nullable, and default value for a nullable column is NULL.
- Unique Columns: Columns by default are NOT unique.
 Attempting to INSERT a duplicate value into a unique column

will fail.

- MetaData Updates: Record Count in davisbase_tables.tbl is updated on INSERT.
- Display RowId: SHOW ROWID; will enable RowId to be displayed on SELECT;