

# Assignment 7.1

- a. A helper class to manage database creation and version management.

By creating a subclass implementing [onCreate\(SQLiteDatabase\)](#), [onUpgrade\(SQLiteDatabase, int, int\)](#) and optionally [onOpen\(SQLiteDatabase\)](#), and this class takes care of opening the database if it exists, creating it if it does not, and upgrading it as necessary. Transactions are used to make sure the database is always in a sensible state.

This class makes it easy for [ContentProvider](#) implementations to defer opening and upgrading the database until first use, to avoid blocking application startup with long-running database upgrades.

For an example, see the NotePadProvider class in the NotePad sample application, in the *samples/* directory of the SDK.

- b. onUpgrade is basically for handling new db changes (could be new columns addition, table addition) for any new version of your app.

Dropping the table is not always necessary in onUpgrade it all depends on what your use case is. If the requirement is to not to persist the data from your older version of app then drop should help, but if it's like changing schema then it should only have alter scripts.

- c.** Showing database information will be better suited with table layout. Since table layout is not an adapter view, cursor adapter can't be used with it. So use table layout with cursor to show database information.