**Assignment 11**

**a. What is the use of SQLite open helper class inSQLite?**

**Ans:** 1. A helper class allows to manage database management, creation and version management. This is the class where we will create all the tables and upgrade tables.

We create 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 start up with long-running database upgrades.

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

2. SQLiteOpenHelper provides utilities to simplify the tasks of creating and initialising the database if it's not already created and converting the contents of the database when your application is upgrading and the database schema changes.

**b. What is the use of OnUpgrade function in SQLiteOpenHelper class?**

**Ans:** onUpgrade is basically for handling new db changes (could be new columns additions, table addition) for any new version of your app.

Dropping the table is not always necessary is onUpgarde it all depends on what you use case is. If the requirement is to not to persists the data from your older version of app then drop should help, but if it’s like changing schema then it should only have after scripts.

**c. How to show SQLite database table information in Android application what is the best**

**way to do it?**

**Ans:** Use table layout with cursor

Showing data base information will be better suited with table layout. Since table layout is not an adapter view, you can't use cursor adapter with it. So, use table layout with cursor to show base table information.