1. What is the use of SQLite open helper class in SQlite?

Ans.

A helper class to manage database creation and version management. You create a subclass implementing [onCreate(SQLiteDatabase)](http://developer.android.com/reference/android/database/sqlite/SQLiteOpenHelper.html" \l "onCreate(android.database.sqlite.SQLiteDatabase)), [onUpgrade(SQLiteDatabase, int, int)](http://developer.android.com/reference/android/database/sqlite/SQLiteOpenHelper.html" \l "onUpgrade(android.database.sqlite.SQLiteDatabase, int, int)) and optionally [onOpen(SQLiteDatabase)](http://developer.android.com/reference/android/database/sqlite/SQLiteOpenHelper.html" \l "onOpen(android.database.sqlite.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](http://developer.android.com/reference/android/content/ContentProvider.html) implementations to defer opening and upgrading the database until first use, to avoid blocking application startup with long-running database upgrades.

This class assumes monotonically increasing version numbers for upgrades.

1. What is the use of onUpgrade function in SQLiteOpenHelper class?

Ans.

public abstract void onUpgrade (SQLiteDatabase db, int oldVersion, int newVersion)

*Added in*[*API level 1*](http://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Called when the database needs to be upgraded. The implementation should use this method to drop tables, add tables, or do anything else it needs to upgrade to the new schema version.

If you add new columns you can use ALTER TABLE to insert them into a live table. If you rename or remove columns you can use ALTER TABLE to rename the old table, then create the new table and then populate the new table with the contents of the old table.

This method executes within a transaction. If an exception is thrown, all changes will automatically be rolled back.

Parameters:

db : SQLiteDatabase: The database.

oldVersion: int: The old database version.

newVersion: int: The new database version.

1. How to show SQLite database table information in android application what is the best way to do it?

Ans.

DB Browser for SQLite is a high quality, visual, open source tool to create, design, and edit database files compatible with SQLite.

It is for users and developers wanting to create databases, search, and edit data. It uses a familiar spreadsheet-like interface, and you don't need to learn complicated SQL commands.

Controls and wizards are available for users to:

* Create and compact database files
* Create, define, modify and delete tables
* Create, define and delete indexes
* Browse, edit, add and delete records
* Search records
* Import and export records as text
* Import and export tables from/to CSV files
* Import and export databases from/to SQL dump files
* Issue SQL queries and inspect the results
* Examine a log of all SQL commands issued by the application