

Session 11: Data Storage

Assignment: Database basics

a) What is the use of SQLite open helper class in SQLite?

SQLite open helper class in SQLite is a class found inside `android.database.sqlite` package. It helps in creating the database, handling the operations and also the version management.

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

onUpgrade function in SQLiteOpenHelper class is basically used for handling new db changes that could be new columns addition or table additions or for any new version app. It is 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. This method is executed within a transaction. If an exception is thrown, all changes will automatically be rolled back.

c) How to show SQLite database table information in Android application what is the best way to do it?

To show or retrieve SQLite database table information in Android application, readable access of database instance is needed. The `query()` method is used to implement the condition and fetch the data from the table. It returns a `Cursor` object through which we can iterate the result set. In order to retrieve the complete information present in the database table, we need writable access to db instance. It's like a sql query to select all the data from the table. To perform this operation, `rawQuery ()` method is used of database instance. It returns a `Cursor` object which is used to retrieve through the result set. Using `Cursor` is the best way to fetch data from tables to show information.