**SQFLIte**

It is a package who enable our app to store data in our local device in a structure way. To store data it uses local storage, databases, row and column in the tables. It provides pre define methods to use database and CRUD operations. Its connection with SQLite database engine.

**How to use?**

We have to do many things to use it. See below

1. Install SQFLite package in the app.
2. Use local device storage as database store.
3. Get storage path and create database file with .db extension.
4. To use database any more we need to open that.
5. Execute ‘CREATE TABLE’ query to create tables.
6. Use CRUD operations with data.
7. **Install SQFLite package in the app.**

To use SQFLite package in your application go to [this site](https://pub.dev/packages/sqflite) and get your package. You can use this command in your app terminal to install it. ‘ flutter pub add sqflite’

1. **Use local device storage as database store.**

To create database we need storage so here we use local device database. As we have our device storage in our mobile so use need to know the path of database store. Here we will use pre-define function of sqflite package “getDatabasesPath()” to get the path of database folder. This function will provide us path in the string data type format. We will use that path as database folder path.

1. **Create Database file**

After getting the path of databases path, we will create database file with .db extension. Give a / to make it file in the databases folder. To connect path with string concatenations like ‘’ getDatabasesPath()/filename.db” . with this format we can create multiple databases in the same folder.

1. **Create tables in the database**

First of all we have to open our database file to find the actual database. So SQFLite package provides a future method ‘openDatabse’ to open database file and returns database. This function takes a positional argument of database file path in string, a version of database, then it give a call back function call ‘onCreate()’ who gives our database. With this database we will execute a sql to create a table with it’s field with data-type. Database has a method call ‘execute()’. This method takes a string positional argument, we write a sql query to create a table. Syntax is below.

‘’ CREATE TABLE ‘table\_name’ (‘all your column names with data types’) “

1. **Using CRUD operation with data.**

Till now, we have created our database and table. Now we will use CRUD (create read update delete) operation with data.

C for Create (Insert).

To insert data, we need a database, rows and columns in the table, that we have already created.

1. Get your database, Database class has method call “insert()”. It will take your table name and data in the form of map(Key, value) data type. Your key should be same as table column row.
2. It will return a future<int> value.

Example: *db.insert(“tableName”,{“key”:”value”})*

db = database,

insert() this will insert yout data into the database’s table

R for read (get).

We can get data from table into tree forms

1. All rows and colums data
2. Data from colums only
3. Data from rows only