

Programação para Dispositivos Móveis

Flutter – Persistência de dados

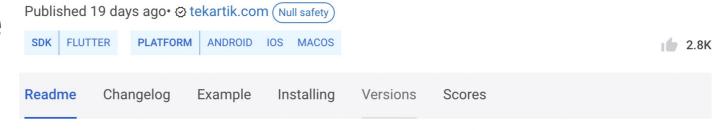
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sqflite 2.0.2+1

https://pub.dev/packages/sqflite

SqFlite



sqflite



SQLite plugin for Flutter. Supports iOS, Android and MacOS.

- Support transactions and batches
- Automatic version managment during open
- Helpers for insert/query/update/delete queries
- DB operation executed in a background thread on iOS and Android

Other platforms support:

- Linux/Windows/DartVM support using sqflite_common_ffi
- Web is not supported.







Getting Started

In your flutter project add the dependency: pubspec.yaml

```
dependencies:
...
sqflite:
```

Make sure to import the packages in the file you'll be working in.

```
import 'dart:async';
import 'package:path/path.dart';
import 'package:sqflite/sqflite.dart';
```







Opening a database

A SQLite database is a file in the file system identified by a path. If relative, this path is relative to the path obtained by <code>getDatabasesPath()</code>, which is the default database directory on Android and the documents directory on iOS/MacOS.

```
var db = await openDatabase('my_db.db');
```

There is a basic migration mechanism to handle schema changes during opening.

Many applications use one database and would never need to close it (it will be closed when the application is terminated). If you want to release resources, you can close the database.

```
await db.close();
```







Raw SQL queries

Demo code to perform Raw SQL queries





SqFlite - Criando banco de dados

```
int idContato;
openBanco() async {
  var dataBasePath = await getDatabasesPath();
  String path = join(dataBasePath, 'banco.db');
  var bd = await openDatabase(path, version: 1,
     onCreate: (db, versaoRecente) async{
     String sql =
      "CREATE TABLE contatos (id INTEGER PRIMARY KEY AUTOINCREMENT, nome
VARCHAR )";
     await db.execute(sql);
  });
  print('Banco: ' + bd.isOpen.toString());
  return bd;
```





SqFlite - Salvando dados

```
salvar() async {
   Database db = await openBanco();
   Map<String, dynamic> dadosContato = {
     'nome': 'Dalila Natanne',
   setState(() async {
     idContato = await db.insert('contatos',
dadosContato);
   });
   print(idContato);
```





Veja mais

https://pub.dev/packages/sqflite





Atividade

- Baseado no conteúdo ministrado na aula faça um App para armazenar, alterar, consultar e excluir os dados de contatos usando SqFlite.
- 2. Os dados da tabela contato:
 - 1. id
 - nome
 - 3. email
- 3. Poste um pdf com os código do App, juntamente com o print das telas





Próxima aula!

 Vamos explorar o widget em formato de Lista no Flutter





Obrigado e até a próxima!

