

Using SQLite



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Overview



SQLite & sqflite

CRUD with sqflite

- SQL
- SQLite Helper Methods

ReorderableView



"SQLite is a [...] library that implements a small, fast, self-contained, high-reliability, full-featured SQL database engine."

sqlite.org



sqflite

SQL

```
db.rawQuery('UPDATE yourTable SET  
  field1 = "newValue", field2 =  
  "newValue2" WHERE id = 123)');
```

Helper methods

```
db.update('yourTable',  
  yourObject.toMap(),  
  where: "$colId = ?",  
  whereArgs: [yourObject.id]);
```



```
db.update('yourTable',  
    yourObject.toMap(),  
    where: "$colId = ?",  
    whereArgs: [yourObject.id]);
```

Sqflite Helper Methods



Using Raw SQL

```
db.rawQuery("SELECT * FROM yourTable");
```

```
db.rawInsert('INSERT INTO yourTable(name, num)  
VALUES("some name", 1234)');
```

```
db.rawUpdate('UPDATE yourTable SET name = ?,  
WHERE name = ?', ["new name", "old name"]);
```

```
db.rawDelete('DELETE FROM yourTable WHERE id = 1');
```



```
Future<Database> openDatabase(  
    String path,  
    {int version,  
    onConfigure,  
    onCreate,  
    onUpgrade,  
    onDowngrade,  
    onOpen,  
    readOnly,  
    singleInstance}  
)
```

- ◀ Required for onCreate, onUpgrade and onDowngrade
- ◀ First callback: initialization
- ◀ Database is created for the first time
- ◀ **version** > existing version
- ◀ **version** < existing version
- ◀ Database is opened
- ◀ False by default
- ◀ True by default



NULL
INTEGER
REAL
TEXT
BLOB

Data in SQLite



SQLite uses Dynamic
Typing



ReorderableListView

A list whose items can be reordered by **long pressing** and **dragging**.



Summary



SQLite & sqflite

Data Types

Dynamic Typing

openDatabase

- onCreate
- onUpgrade
- onDowngrade

ReorderableView

