

SQLITE



Instalação do pacote

```
1 npm i react-native-sqlite-storage
```

```
1 npx expo install expo-sqlite
```

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Expo SQLite



`expo-sqlite` gives your app access to a database that can be queried through a [WebSQL](#)-like API. The database is persisted across restarts of your app.

Platform Compatibility

Android Device	Android Emulator	iOS Device	iOS Simulator	Web
✓	✓	✓	✓	✗

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SQLite.openDatabase(name, version, description, size, callback)

Name	Type	Description
name	string	Name of the database file to open.
version (optional)	string	-
description (optional)	string	-
size (optional)	number	-
callback (optional)	(db: WebSQLDatabase) => void	-

Open a database, creating it if it doesn't exist, and return a [Database](#) object. On disk, the database will be created under the app's [documents directory](#), i.e. `${FileSystem.documentDirectory}/SQLite/${name}`.

i The `version`, `description` and `size` arguments are ignored, but are accepted by the function for compatibility with the WebSQL specification.

Returns

↳ [WebSQLDatabase](#)

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Conexão com a base de dados

```
1 //database connection
2 const db = SQLite.openDatabase({
3     name: 'mydb',
4     location: 'default'
5 },
6 () => {
7     console.log("Database connected!")
8 }, //on success
9 error => console.log("Database error", error) //on error
10 )
```

```
const db = SQLite.openDatabase("pessoa.db");
```

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executeSql(sqlStatement, args, callback, errorCallback)

Name	Type	Description
sqlStatement	string	A string containing a database query to execute expressed as SQL. The string may contain <code>?</code> placeholders, with values to be substituted listed in the <code>arguments</code> parameter.
args (optional)	(null string number) []	An array of values (numbers, strings or nulls) to substitute for <code>?</code> placeholders in the SQL statement.
callback (optional)	SQLStatementCallback	Called when the query is successfully completed during the transaction. Takes two parameters: the transaction itself, and a <code>ResultSet</code> object (see below) with the results of the query.
errorCallback (optional)	SQLStatementErrorCallback	Called if an error occurred executing this particular query in the transaction. Takes two parameters: the transaction itself, and the error object.

Enqueue a SQL statement to execute in the transaction. Authors are strongly recommended to make use of the `?` placeholder feature of the method to avoid against SQL injection attacks, and to never construct SQL statements on the fly.

Returns

↳ void

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Criar a tabela

```
1  useEffect(() => {
2    createUserTable(); //call create table function here
3  })
4  //create table function
5  const createUserTable = () => {
6    db.executeSql("CREATE TABLE IF NOT EXISTS users (id INTEGER PRIMARY KEY AUTO
7      console.log("Table created successfully");
8    }, (error) => {
9      console.log("Create table error", error)
10   })
11 }
```

```
db.transaction((tx) => {
  tx.executeSql("create table " +
    "if not exists pessoa (indice INTEGER PRIMARY KEY AUTOINCREMENT, " +
    " nome text, telefone text);");
});
```

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CRUD.1

```
1 //insert a new user record
2 const createUser = () => {
3     let sql = "INSERT INTO users (email, name) VALUES (?, ?)";
4     let params = ["yoursocialmd@gmail.com", "MD Sarfaraj"]; //storing user data
5     db.executeSql(sql, params, (result) => {
6         Alert.alert("Success", "User created successfully.");
7     }, (error) => {
8         console.log("Create user error", error);
9     });
10 }
```

```
salvarUsuario = () => {
    db.transaction(
        (tx) => {
            tx.executeSql('INSERT INTO pessoa (nome, telefone) VALUES (?,?)',
                [nome, telefone], (resultSet) => {
                    Alert.alert("Alerta", "Registro salvo com sucesso");
                }, (error) => {
                    console.log(error);
                })
        })
    );
    setNome('');
    setTelefone('');
};
```

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CRUD.2

```
1 //update user record
2 const updateUser = () => {
3     let sql = 'UPDATE users SET email = ?, name = ? WHERE id = ?';
4     let params = ['yoursocialmd@gmail.com', "Mohammad Sarfaraj", 1];
5     db.executeSql(sql, params, (resultSet) => {
6         Alert.alert("Success", "Record updated successfully");
7     }, (error) => {
8         console.log(error);
9     });
10 }
```


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CRUD.3

```
1 //delete user record
2 const deleteUser = () => {
3   let sql = "DELETE FROM users WHERE id = ?";
4   let params = [1];
5   db.executeSql(sql, params, (resultSet) => {
6     Alert.alert("Success", "User deleted successfully");
7   }, (error) => {
8     console.log("Delete user error", error);
9   })
10 }
```

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CRUD.4

```
1 //list all the users
2 const listUsers = async () => {
3   let sql = "SELECT * FROM users";
4   db.transaction((tx) => {
5     tx.executeSql(sql, [], (tx, resultSet) => {
6       var length = resultSet.rows.length;
7       for (var i = 0; i < length; i++) {
8         console.log(resultSet.rows.item(i));
9       }
10    }, (error) => {
11      console.log("List user error", error);
12    })
13  })
14 }
```

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Complete o código, de acordo com a atividade lançada no Moodle.