

## Avaliação 04 - PMD II

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Proposta:

Evidenciar a execução dos programas:

- 1) <https://github.com/ricdtaveira/mobdev-parte-01/blob/master/18-banco-de-dados/18-sqlite3-01.dart>;
- 2) <https://github.com/ricdtaveira/mobdev-parte-01/blob/master/18-banco-de-dados/18-sqlite3-02.dart>.

Evidências:

The screenshot displays an IDE interface with a file explorer on the left, a code editor in the center, and a console at the bottom. The file explorer shows a project structure with folders like 'bin' and 'lib', and files like 'av\_04.dart'. The code editor shows the following Dart code:

```
import 'dart:io';

import 'package:sqflite/sqflite.dart';

void main() {
  print('Using sqflite3 ${sqflite3.version}');

  // Create a new in-memory database. To use a database backed by a file, you
  // can replace this with sqflite3.open(yourFilePath).
  final db = sqflite3.openInMemory();

  // Create a table and insert some data
  db.execute('''
    CREATE TABLE alunos (
      id INTEGER NOT NULL PRIMARY KEY,
      name TEXT NOT NULL
    );
  ''');

  // Prepare a statement to run it multiple times:
  final stmt = db.prepare('INSERT INTO alunos (name) VALUES (?)');
  stmt
    ..execute(['Wladison Maciel'])
    ..execute(['Isabelly Barbosa']);

  // Dispose a statement when you don't need it anymore to clean up resources.
  stmt.dispose();

  // You can run select statements with PreparedStatement.select, or directly
  // on the database:
  final ResultSet resultSet =
    db.select('SELECT * FROM alunos WHERE name LIKE ?, [%]');

  // You can iterate on the result set in multiple ways to retrieve Row objects
  // one by one.
  for (final Row row in resultSet) {
    print('Alunos[Matricula: ${row['id']], nome: ${row['name']}');
  }

  // Register a custom function we can invoke from sql:
  db.createFunction([
    functionName: 'dart_version',
  ])
```

The console output shows the execution results:

```
Using sqflite3 Version(libVersion: 3.28.0, sourceId: 2019-04-15 14:49:49 378230ae7f4b721c8b8d8)
Alunos[Matricula: 1, nome: Wladison Maciel]
Alunos[Matricula: 2, nome: Isabelly Barbosa]
[dart_version(): 3.1.0 (stable) (Tue Aug 15 21:33:36 2023 +0000) on "macos_x64"]
Exited.
```

Below the console, there is a summary of the Flutter application's state:

```
flutter: Aluno recuperado: Aluno{id: 1, nome: isabelly barbosa , dataNascimento: 2006-09-17}
flutter: Todos os alunos: [Aluno{id: 1, nome: isabelly, dataNascimento: 2006-09-17}, Aluno{id: 2, nome: francisco geovane , dataNascimento: 2006-05-19}, Aluno{id: 3, nome: vinicio pitombeira, dataNascimento: 2007-12-29}]
Syncing files to device Windows... 37ms
```