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- MARIA VITÓRIA DINIZ

IMAGENS DA RESOLUÇÃO DAS  
QUESTÕES PROPOSTAS.

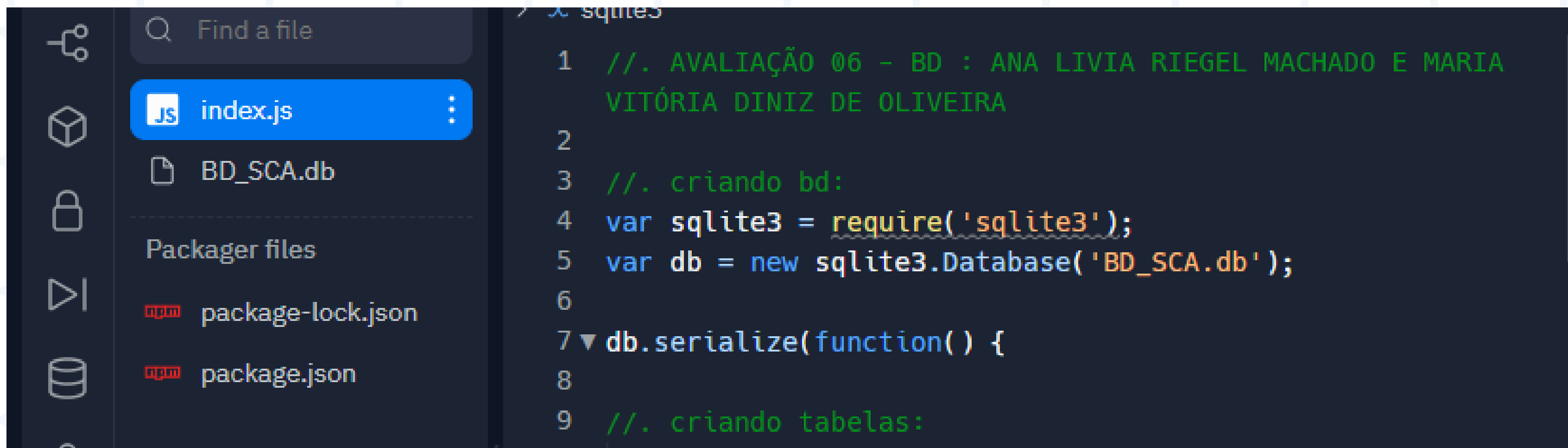


- *Implementar um código Javascript que execute as seguintes features:*



1

*criar um Banco de Dados com o nome BD\_SCA.db.*



The screenshot shows a code editor with a dark theme. On the left, the file explorer displays a project structure with icons for a folder, a file, a lock, a play button, and a database. The file list includes 'index.js' (highlighted in blue), 'BD\_SCA.db', and 'Package files' containing 'package-lock.json' and 'package.json'. The main editor area shows JavaScript code for creating a database using the 'sqlite3' module. The code is as follows:

```
1  //. AVALIAÇÃO 06 - BD : ANA LIVIA RIEGEL MACHADO E MARIA  
  VITÓRIA DINIZ DE OLIVEIRA  
2  
3  //. criando bd:  
4  var sqlite3 = require('sqlite3');  
5  var db = new sqlite3.Database('BD_SCA.db');  
6  
7  db.serialize(function() {  
8  
9  //. criando tabelas:
```



2

*criar as tabelas: TB\_ALUNO, TB\_DISCIPLINA, TB\_PROFESSOR, TB\_MATRICULA, TB\_PROFESSOR\_DISCIPLINA. e inserir os atributos disponibilizados.*

```
> X sqlite3

9  //. criando tabelas:
10  db.run(`CREATE TABLE IF NOT EXISTS TB_ALUNO (ID INTEGER
    NOT NULL, NOME TEXT NOT NULL, CPF TEXT NOT NULL, PRIMARY
    KEY ("ID" AUTOINCREMENT))`);

11
12  db.run(`CREATE TABLE IF NOT EXISTS TB_PROFESSOR (ID
    INTEGER NOT NULL, NOME TEXT NOT NULL, PRIMARY KEY ("ID"
    AUTOINCREMENT))`);

13
14  db.run(`CREATE TABLE IF NOT EXISTS TB_DISCIPLINA ( ID
    INTEGER NOT NULL, NOME TEXT NOT NULL, PRIMARY KEY ("ID"
    AUTOINCREMENT))`);

15
```

2

*criar as tabelas: TB\_ALUNO, TB\_DISCIPLINA, TB\_PROFESSOR, TB\_MATRICULA, TB\_PROFESSOR\_DISCIPLINA. e inserir os atributos disponibilizados.*

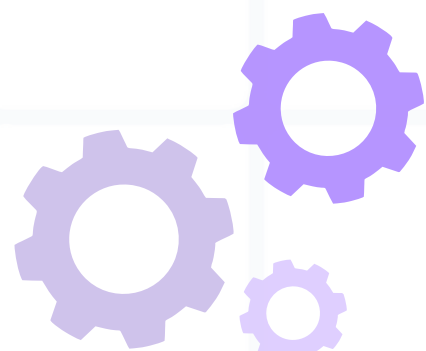
```
15
16 db.run(`CREATE TABLE IF NOT EXISTS TB_MATRICULA (ID
    INTEGER NOT NULL, ALUNO_ID INTEGER NOT NULL, DISCIPLINA_ID
    INTEGER NOT NULL, PROFESSOR_ID INTEGER NOT NULL, PRIMARY
    KEY ("ID" AUTOINCREMENT) FOREIGN KEY ("ALUNO_ID")
    REFERENCES "TB_ALUNO"("ID"), FOREIGN KEY ("DISCIPLINA_ID")
    REFERENCES "TB_DISCIPLINA"("ID"), FOREIGN KEY
    ("PROFESSOR_ID") REFERENCES "TB_PROFESSOR"("ID"))`);
17
18 db.run(`CREATE TABLE IF NOT EXISTS
    TB_PROFESSOR_DISCIPLINA (ID INTEGER NOT NULL,
    DISCIPLINA_ID INTEGER NOT NULL, PROFESSOR_ID INTEGER NOT
    NULL, PRIMARY KEY ("ID" AUTOINCREMENT) FOREIGN KEY
    ("DISCIPLINA_ID") REFERENCES "TB_DISCIPLINA"("ID"),
    FOREIGN KEY ("PROFESSOR_ID") REFERENCES "TB_PROFESSOR"
    ("ID"))`);
19
```



3

*criar comandos SQL para inserir dados nessas tabelas.*

```
19
20 // realizando insert nas tabelas:
21 db.run(`INSERT INTO TB_ALUNO (NOME, CPF) VALUES ("Livia
Riegel", "777.333.999-88"), ("Vitória Diniz", "666.444.888-
99")`);
22
23 db.run(`INSERT INTO TB_PROFESSOR (NOME) VALUES ("Samara
Moura"), ("Tarciclê Pontes"), ("Ricardo Duarte")`);
24
25 db.run(`INSERT INTO TB_DISCIPLINA (NOME) VALUES
("Educação Física"), ("Língua Portuguesa"), ("Banco de
Dados")`);
26
27 db.run(`INSERT INTO TB_MATRICULA (ALUNO_ID,
DISCIPLINA_ID, PROFESSOR_ID) VALUES (1, 1, 1), (1, 2, 2),
(2, 2, 2), (2, 3, 3)`);
28
29 db.run(`INSERT INTO TB_PROFESSOR_DISCIPLINA
(DISCIPLINA_ID, PROFESSOR_ID) VALUES (1, 1), (2, 2), (3,
2), (3, 3)`);
30
```



## *+ conferindo instalação do node e sqlite3 no terminal global e no replit*

 Prompt de Comando

```
Microsoft Windows [versão 10.0.18363.1556]
(c) 2019 Microsoft Corporation. Todos os direitos reservados.

C:\Users\Diniz>Node --version
v18.12.1

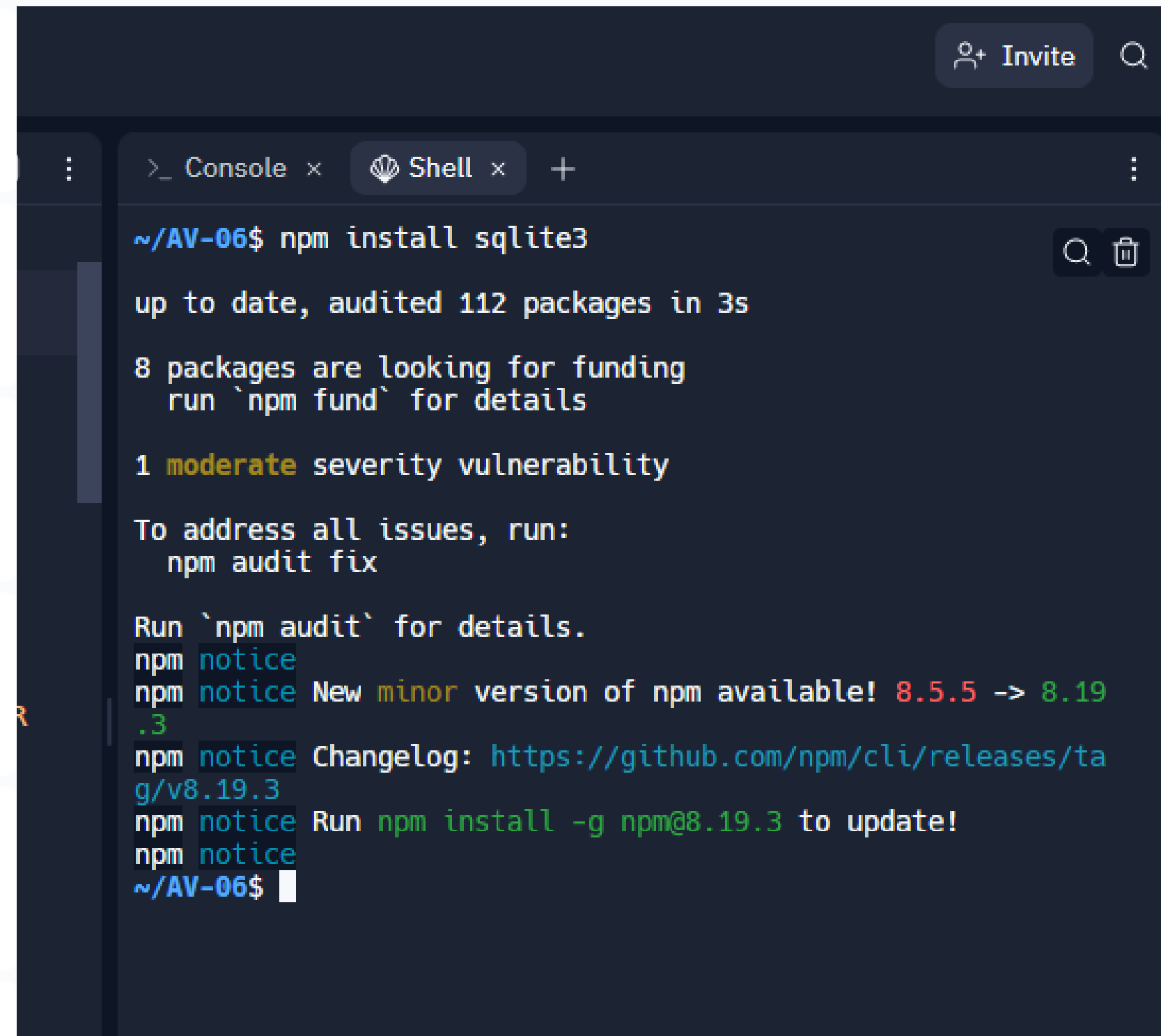
C:\Users\Diniz>npm --version
8.19.2

C:\Users\Diniz>npm install sqlite3 --save
npm WARN deprecated @npmcli/move-file@1.1.2: This functionality has been moved to @npmcli/fs
added 104 packages, and audited 105 packages in 30s

5 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
npm notice
npm notice New patch version of npm available! 8.19.2 -> 8.19.3
npm notice Changelog: https://github.com/npm/cli/releases/tag/v8.19.3
npm notice Run npm install -g npm@8.19.3 to update!
npm notice
```

*+ conferindo instalação do node e sqlite3 no terminal global e no replit*



The screenshot shows a Replit terminal window with a dark theme. At the top right, there is an 'Invite' button and a search icon. The terminal has tabs for 'Console' and 'Shell'. The command `npm install sqlite3` has been executed. The output shows that the packages are up to date and audited. It also displays a moderate severity vulnerability and a notice about a new version of npm (8.19.3) being available. The terminal ends with the prompt `~/AV-06$`.

```
~/AV-06$ npm install sqlite3

up to date, audited 112 packages in 3s

8 packages are looking for funding
  run `npm fund` for details

1 moderate severity vulnerability

To address all issues, run:
  npm audit fix

Run `npm audit` for details.
npm notice
npm notice New minor version of npm available! 8.5.5 -> 8.19.3
npm notice Changelog: https://github.com/npm/cli/releases/tag/v8.19.3
npm notice Run npm install -g npm@8.19.3 to update!
npm notice
~/AV-06$
```





## + consulta realizada e resultado

>  sqlite3

30

31 // realizando a consulta de dados nas tabelas:

```
32 ▼ db.each("SELECT TB_MATRICULA.ID AS MATID, TB_ALUNO.NOME  
AS ALUNOME, TB_ALUNO.CPF AS ALUNCPF, TB_DISCIPLINA.NOME AS  
DISCNOME, TB_PROFESSOR.NOME AS PROFNOME FROM TB_ALUNO,  
TB_DISCIPLINA, TB_PROFESSOR INNER JOIN TB_MATRICULA ON  
TB_ALUNO.ID = TB_MATRICULA.ALUNO_ID AND TB_DISCIPLINA.ID =  
TB_MATRICULA.DISCIPLINA_ID AND TB_PROFESSOR.ID =  
TB_MATRICULA.PROFESSOR_ID", function(err, row)  
{console.log(row.MATID + " | O(A) ESTUDANTE: " +  
row.ALUNOME + " - CPF: " + row.ALUNCPF + "\nFOI  
MATRICULADO NA DISCIPLINA: " + row.DISCNOME + "\nLECIONADA  
PELO(A) PROFESSOR(A): " + row.PROFNOME); console.log()  
33 });  
34 });  
35  
36 db.close();
```

>\_ Console x

 Shell x

+

Hint: hit control+c anytime to enter REPL.

1 | O(A) ESTUDANTE: Livia Riegel - CPF: 777.333.999-88  
FOI MATRICULADO NA DISCIPLINA: Educação Física  
LECIONADA PELO(A) PROFESSOR(A): Samara Moura

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LECIONADA PELO(A) PROFESSOR(A): Ricardo Duarte

> 