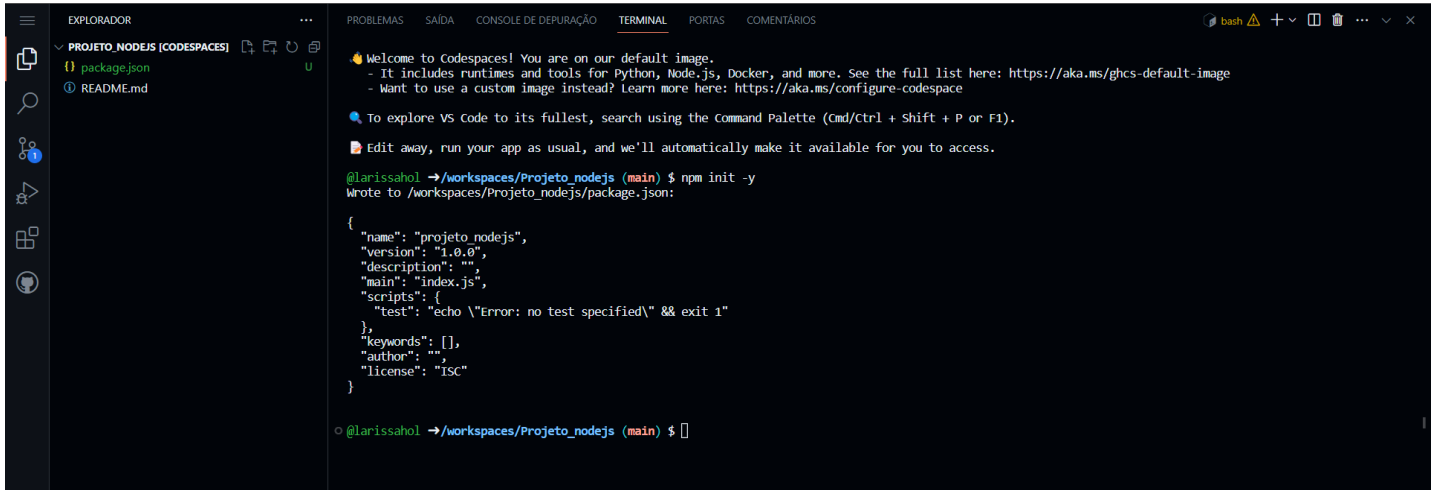


## Banco de Dados - Avaliação 10

### Aluna: Larissa dos Santos Holanda

O comando “npm init -y” cria o package.json:



```

Welcome to Codespaces! You are on our default image.
- It includes runtimes and tools for Python, Node.js, Docker, and more. See the full list here: https://aka.ms/ghcs-default-image
- Want to use a custom image instead? Learn more here: https://aka.ms/configure-codespace

To explore VS Code to its fullest, search using the Command Palette (cmd/ctrl + Shift + P or F1).

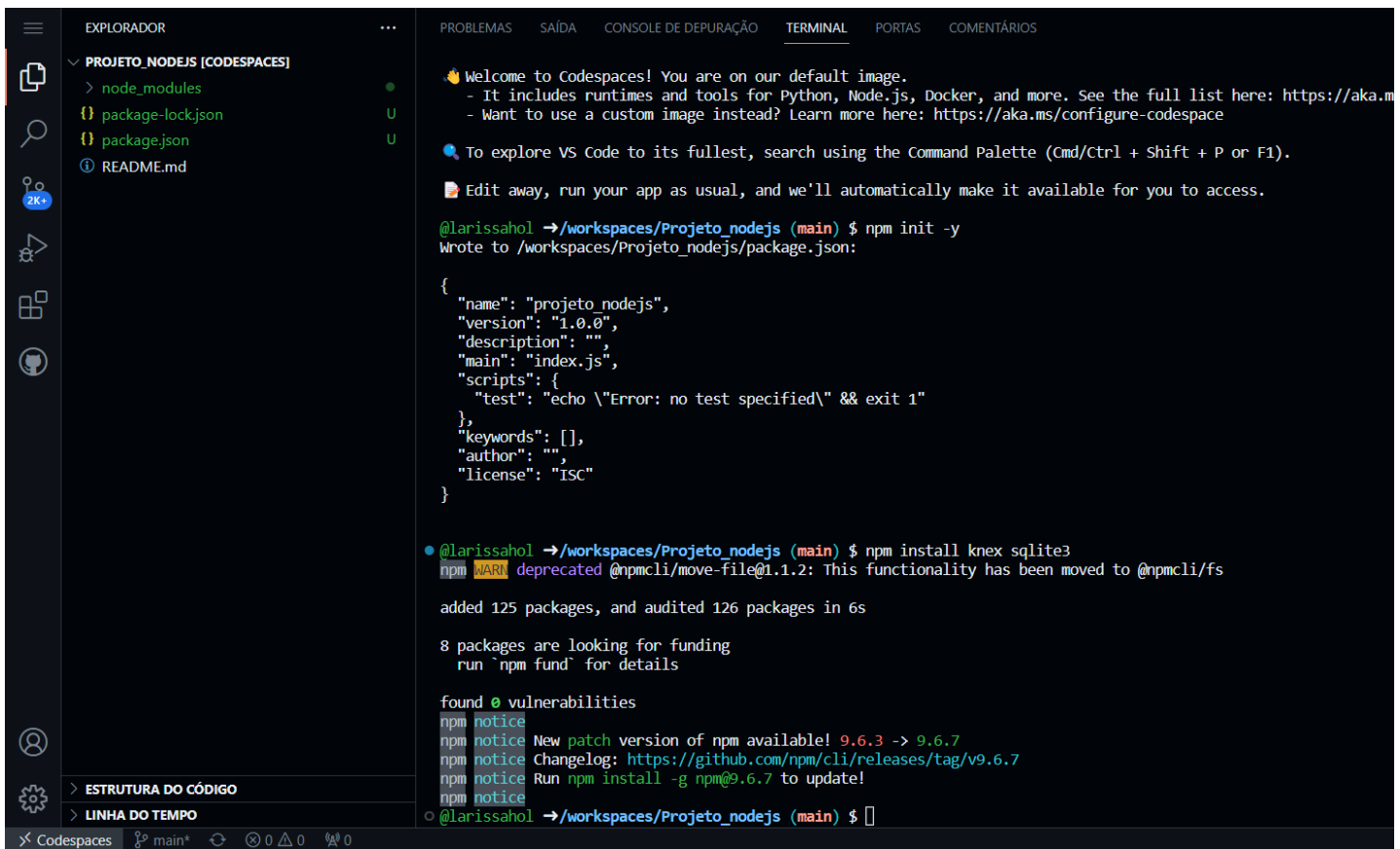
Edit away, run your app as usual, and we'll automatically make it available for you to access.

@larissahol →/workspaces/Projeto_nodejs (main) $ npm init -y
Wrote to /workspaces/Projeto_nodejs/package.json:

{
  "name": "projeto_nodejs",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
}

@larissahol →/workspaces/Projeto_nodejs (main) $
```

O comando “npm install knex sqlite3” instala os pacotes knex e sqlite adicionando o node\_modules e o package-lock.json:



```

Welcome to Codespaces! You are on our default image.
- It includes runtimes and tools for Python, Node.js, Docker, and more. See the full list here: https://aka.ms/ghcs-default-image
- Want to use a custom image instead? Learn more here: https://aka.ms/configure-codespace

To explore VS Code to its fullest, search using the Command Palette (cmd/ctrl + Shift + P or F1).

Edit away, run your app as usual, and we'll automatically make it available for you to access.

@larissahol →/workspaces/Projeto_nodejs (main) $ npm init -y
Wrote to /workspaces/Projeto_nodejs/package.json:

{
  "name": "projeto_nodejs",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [],
  "author": "",
  "license": "ISC"
}

@larissahol →/workspaces/Projeto_nodejs (main) $ npm install knex sqlite3
npm WARN deprecated @npmcli/move-file@1.1.2: This functionality has been moved to @npmcli/fs

added 125 packages, and audited 126 packages in 6s

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

found 0 vulnerabilities
npm notice
npm notice New patch version of npm available! 9.6.3 -> 9.6.7
npm notice Changelog: https://github.com/npm/cli/releases/tag/v9.6.7
npm notice Run npm install -g npm@9.6.7 to update!
@larissahol →/workspaces/Projeto_nodejs (main) $
```

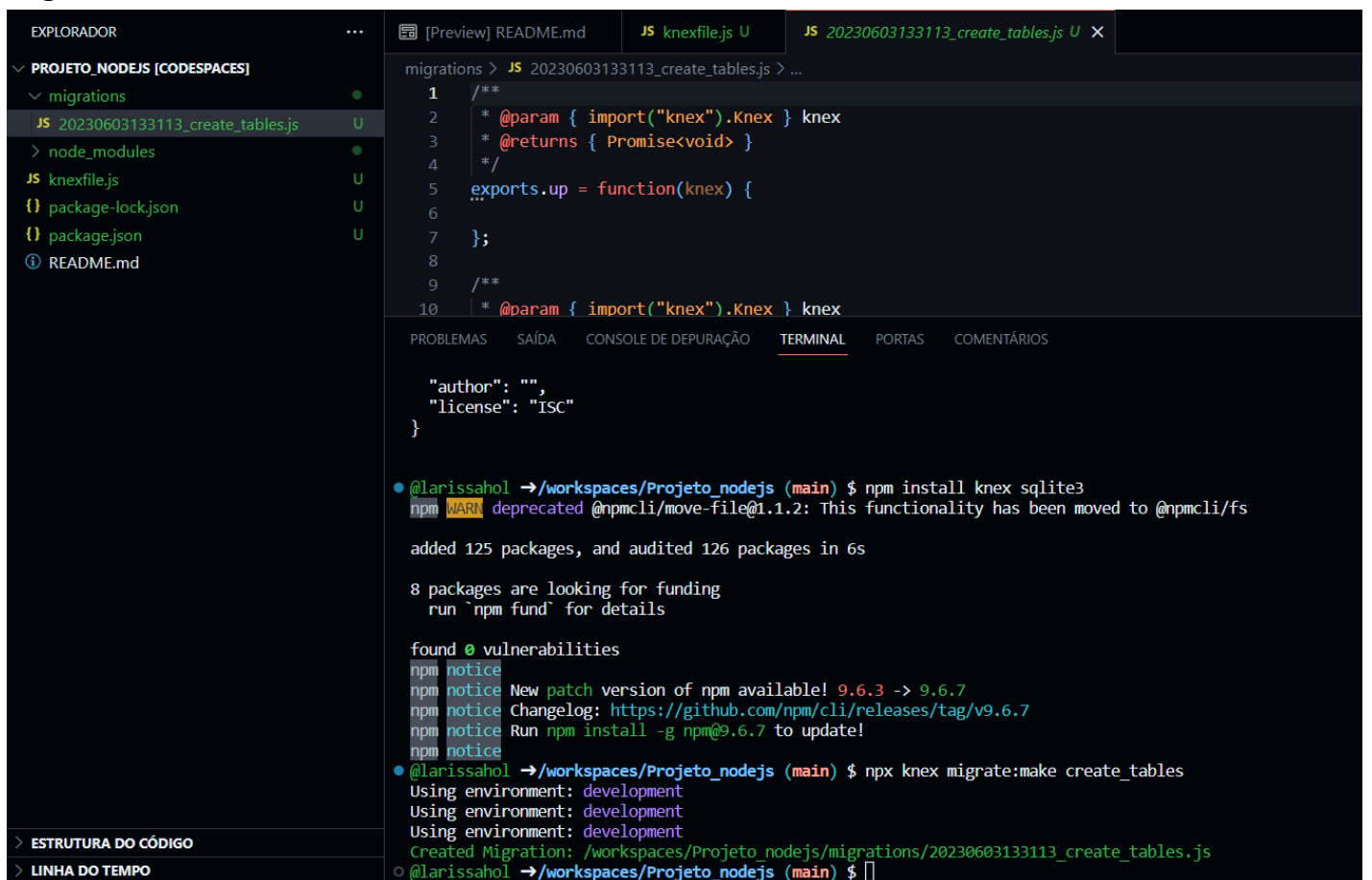
## Criação do arquivo knexfile.js:



The screenshot shows the VS Code interface with the Explorer sidebar on the left displaying the file structure of 'PROJETO\_NODEJS [CODESPACES]'. The file 'knexfile.js' is highlighted. The main editor area shows the content of 'knexfile.js' with the following code:

```
1 module.exports = {
2   development: {
3     client: 'sqlite3',
4     connection: {
5       filename: './SCA.db'
6     },
7     useNullAsDefault: true
8   }
9 };
```

O comando “`npx knex migrate:make create_tables`” cria o arquivo com timestamp das migrations



The screenshot shows the VS Code interface with the Explorer sidebar on the left displaying the file structure. The file '20230603133113\_create\_tables.js' is highlighted. The main editor area shows the content of '20230603133113\_create\_tables.js' with the following code:

```
1 /**
2  * @param { import("knex").Knex } knex
3  * @returns { Promise<void> }
4  */
5 exports.up = function(knex) {
6
7 };
8
9 /**
10  * @param { import("knex").Knex } knex
```

Below the code editor, the TERMINAL tab is active, showing the output of the command `npx knex migrate:make create_tables`. The output includes the following text:

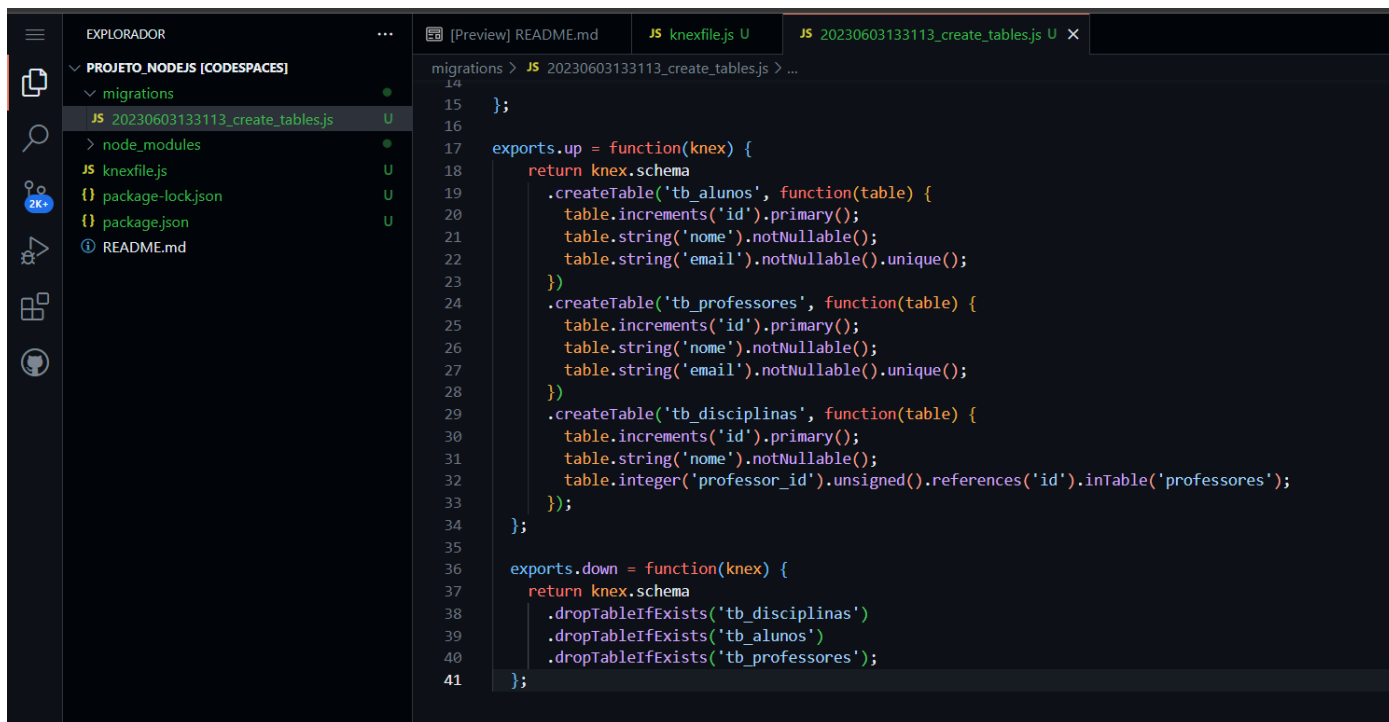
```
"author": "",
"license": "ISC"
}

@larissahol →/workspaces/Projeto_nodejs (main) $ npm install knex sqlite3
npm WARN deprecated @npmcli/move-file@1.1.2: This functionality has been moved to @npmcli/fs
added 125 packages, and audited 126 packages in 6s

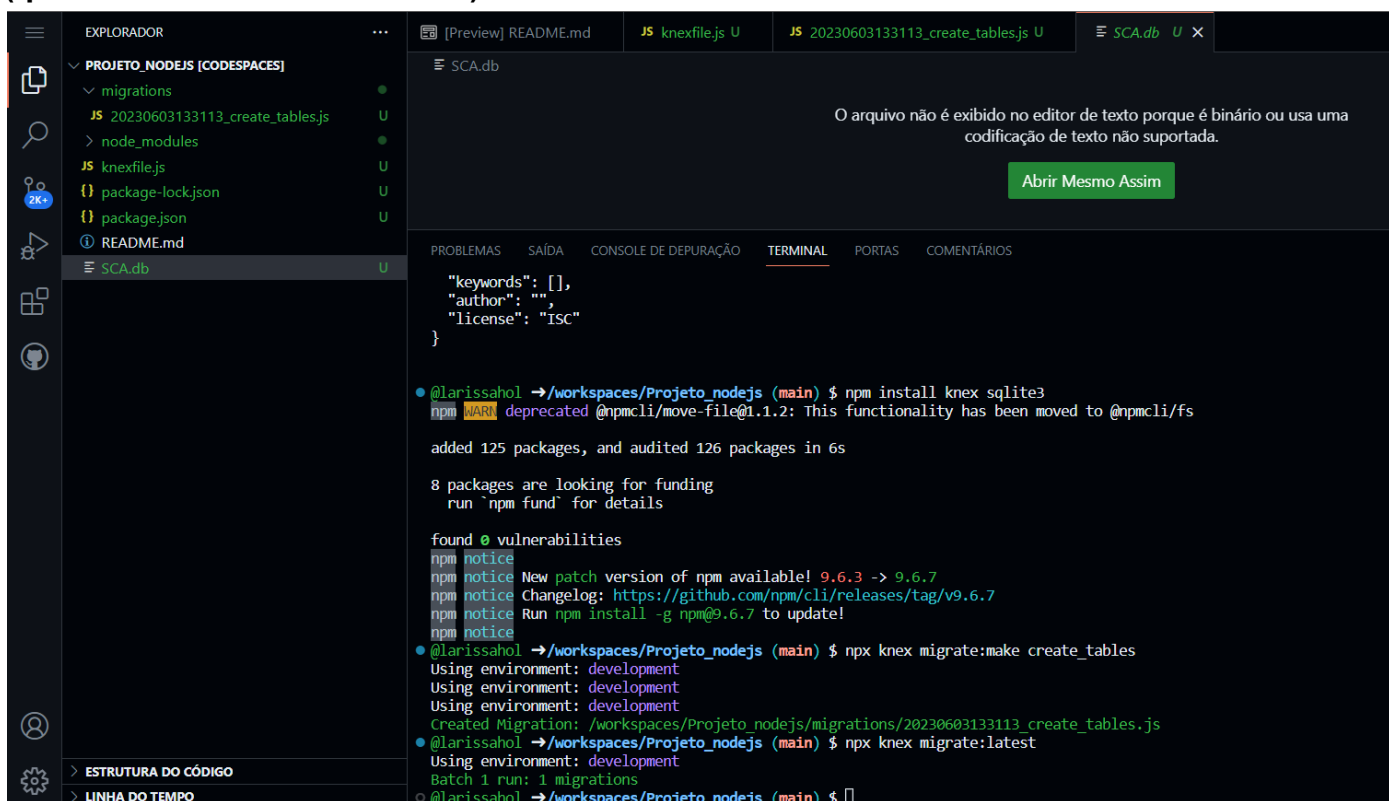
8 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
npm notice
npm notice New patch version of npm available! 9.6.3 -> 9.6.7
npm notice Changelog: https://github.com/npm/cli/releases/tag/v9.6.7
npm notice Run npm install -g npm@9.6.7 to update!
npm notice
@larissahol →/workspaces/Projeto_nodejs (main) $ npx knex migrate:make create_tables
Using environment: development
Using environment: development
Using environment: development
Created Migration: /workspaces/Projeto_nodejs/migrations/20230603133113_create_tables.js
@larissahol →/workspaces/Projeto_nodejs (main) $
```

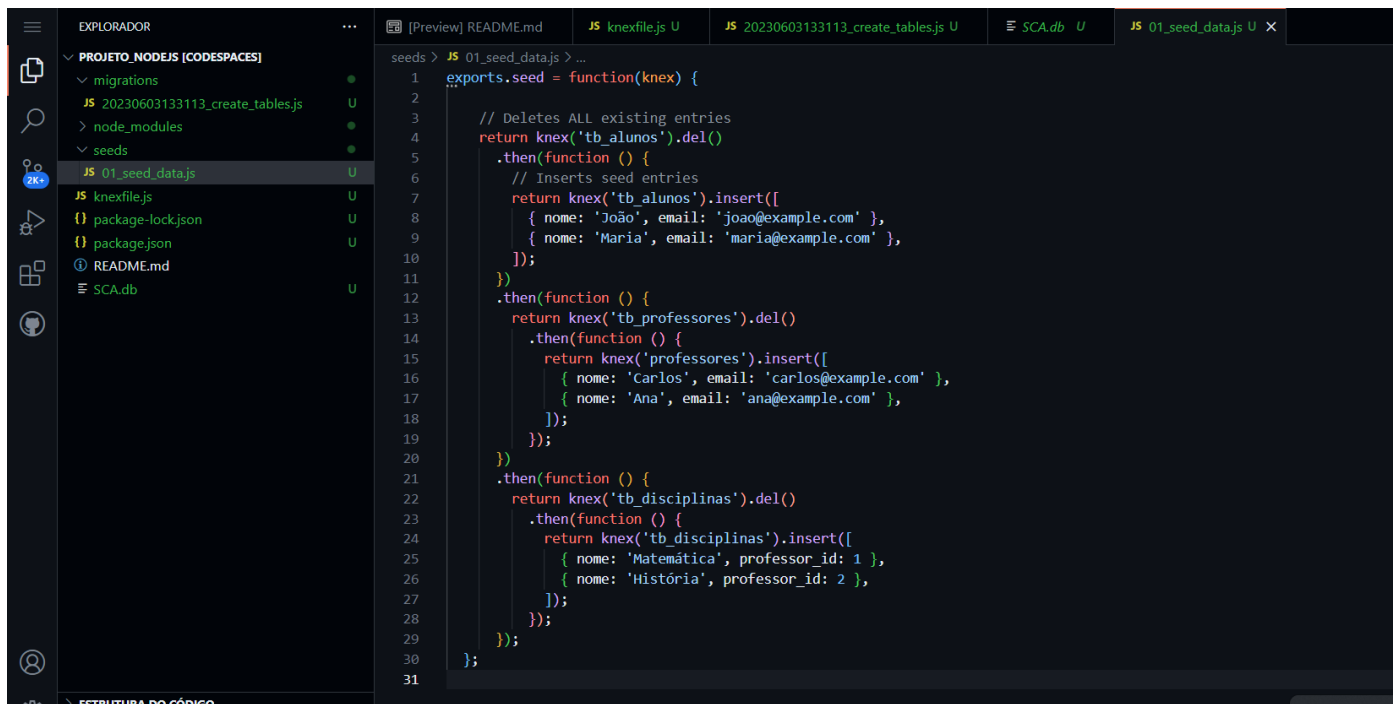
Código adicionado ao arquivo:



O comando “`npx knex migrate:latest`” executa as migrações mais recentes e abre o SCA.db (que é o banco de dados em si).



## Criação do diretório seeds e do arquivo 01\_seed\_data.js



The image shows a VS Code editor window with the following structure:

- EXPLORADOR (Left Panel):**
  - PROJETO\_NODEJS [CODESPACES]
  - migrations
  - JS 20230603133113\_create\_tables.js U
  - node\_modules
  - seeds
    - JS 01\_seed\_data.js U
  - knexfile.js U
  - package-lock.json U
  - package.json U
  - README.md
  - SCA.db U
- seeds > JS 01\_seed\_data.js > ... (Main Editor):**

```
1 exports.seed = function(knex) {  
2  
3   // Deletes ALL existing entries  
4   return knex('tb_alunos').del()  
5   .then(function () {  
6     // Inserts seed entries  
7     return knex('tb_alunos').insert([  
8       { nome: 'João', email: 'joao@example.com' },  
9       { nome: 'Maria', email: 'maria@example.com' },  
10    ]);  
11  })  
12  .then(function () {  
13    return knex('tb_professores').del()  
14    .then(function () {  
15      return knex('professores').insert([  
16        { nome: 'Carlos', email: 'carlos@example.com' },  
17        { nome: 'Ana', email: 'ana@example.com' },  
18      ]);  
19    });  
20  })  
21  .then(function () {  
22    return knex('tb_disciplinas').del()  
23    .then(function () {  
24      return knex('tb_disciplinas').insert([  
25        { nome: 'Matemática', professor_id: 1 },  
26        { nome: 'História', professor_id: 2 },  
27      ]);  
28    });  
29  });  
30 }  
31
```