```
C:\Users\laraa\Documents\BD-P4-INFO\avaliacoes\avaliacao-10>npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.

See `npm help init` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (avaliacao-10)
version: (1.0.0)
description:
entry point: (index.js)
test command:
git repository:
keywords:
author:
license: (ISC)
About to write to C:\Users\laraa\Documents\BD-P4-INFO\avaliacoes\avaliacao-10\package.json:

{
  "name": "avaliacao-10",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "",
  "license": "ISC"
}
```

```
git repository:
keywords:
author:
license: (ISC)
About to write to C:\Users\laraa\Documents\BD-P4-INFO\avaliacoes\avaliacao-10\package.json:

{
  "name": "avaliacao-10",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "",
  "license": "ISC"
}


Is this OK? (yes)
npm notice
npm notice New minor version of npm available! 9.5.1 -> 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

C:\Users\laraa\Documents\BD-P4-INFO\avaliacoes\avaliacao-10>npm install sqlite3 knex
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 2m

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

found 0 vulnerabilities
```
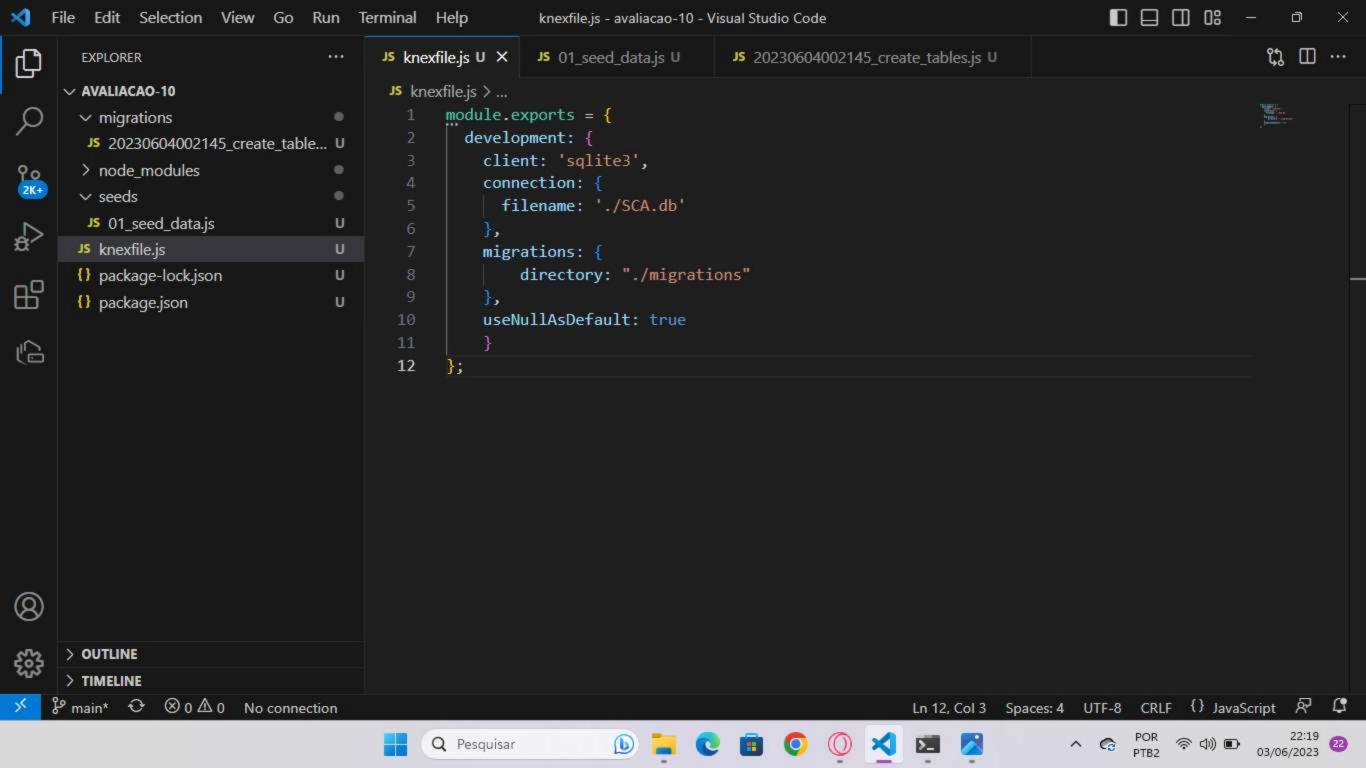
EXPLORER

∨ AVALIACAO-10

∨ migrations
  JS 20230604002145_create_table...   U
> node_modules
∨ seeds
  JS 01_seed_data.js   U
JS knexfile.js   U
{} package-lock.json   U
{} package.json   U

JS knexfile.js U ✕   JS 01_seed_data.js U   JS 20230604002145_create_tables.js U

JS knexfile.js > ...

```
 1   module.exports = {
 2     development: {
 3       client: 'sqlite3',
 4       connection: {
 5         filename: './SCA.db'
 6       },
 7       migrations: {
 8           directory: "./migrations"
 9       },
10      useNullAsDefault: true
11      }
12   };
```

> OUTLINE
> TIMELINE

main*   ⊗ 0 ⚠ 0   No connection   Ln 12, Col 3   Spaces: 4   UTF-8   CRLF   {} JavaScript

migrations > JS 20230604002145_create_tables.js > ...

```javascript
/**
 * @param { import("knex").Knex } knex
 * @returns { Promise<void> }
 */
exports.up = function(knex) {
    return knex.schema
    .createTable('tb_alunos', function(table) {
      table.increments('id').primary();
      table.string('nome').notNullable();
      table.string('email').notNullable().unique();
    })
    .createTable('tb_professores', function(table) {
      table.increments('id').primary();
      table.string('nome').notNullable();
      table.string('email').notNullable().unique();
    })
    .createTable('tb_disciplinas', function(table) {
      table.increments('id').primary();
      table.string('nome').notNullable();
      table.integer('professor_id').unsigned().references('id').inTable('professores');
    });
};

/**
 * @param { import("knex").Knex } knex
 * @returns { Promise<void> }
 */
exports.down = function(knex) {
    return knex.schema
    .dropTableIfExists('tb_disciplinas')
    .dropTableIfExists('tb_alunos')
    .dropTableIfExists('tb_professores');
};
```

```
C:\Users\laraa\Documents\BD-P4-INFO\avaliacoes\avaliacao-10>npx knex migrate:make create_tables
Using environment: development
Using environment: development
Using environment: development
Created Migration: C:\Users\laraa\Documents\BD-P4-INFO\avaliacoes\avaliacao-10\migrations\20230604002145_create_tables.js

C:\Users\laraa\Documents\BD-P4-INFO\avaliacoes\avaliacao-10>knex migrate:latest
'knex' não é reconhecido como um comando interno
ou externo, um programa operável ou um arquivo em lotes.

C:\Users\laraa\Documents\BD-P4-INFO\avaliacoes\avaliacao-10>cd
migrations

C:\Users\laraa\Documents\BD-P4-INFO\avaliacoes\avaliacao-10\migrations>knex migrate:latest
'knex' não é reconhecido como um comando interno
ou externo, um programa operável ou um arquivo em lotes.

C:\Users\laraa\Documents\BD-P4-INFO\avaliacoes\avaliacao-10\migrations>knex migrate:latest
'knex' não é reconhecido como um comando interno
ou externo, um programa operável ou um arquivo em lotes.

C:\Users\laraa\Documents\BD-P4-INFO\avaliacoes\avaliacao-10\migrations>cd..

C:\Users\laraa\Documents\BD-P4-INFO\avaliacoes\avaliacao-10>npx knex migrate:latest
Using environment: development
Batch 1 run: 1 migrations

C:\Users\laraa\Documents\BD-P4-INFO\avaliacoes\avaliacao-10>
```
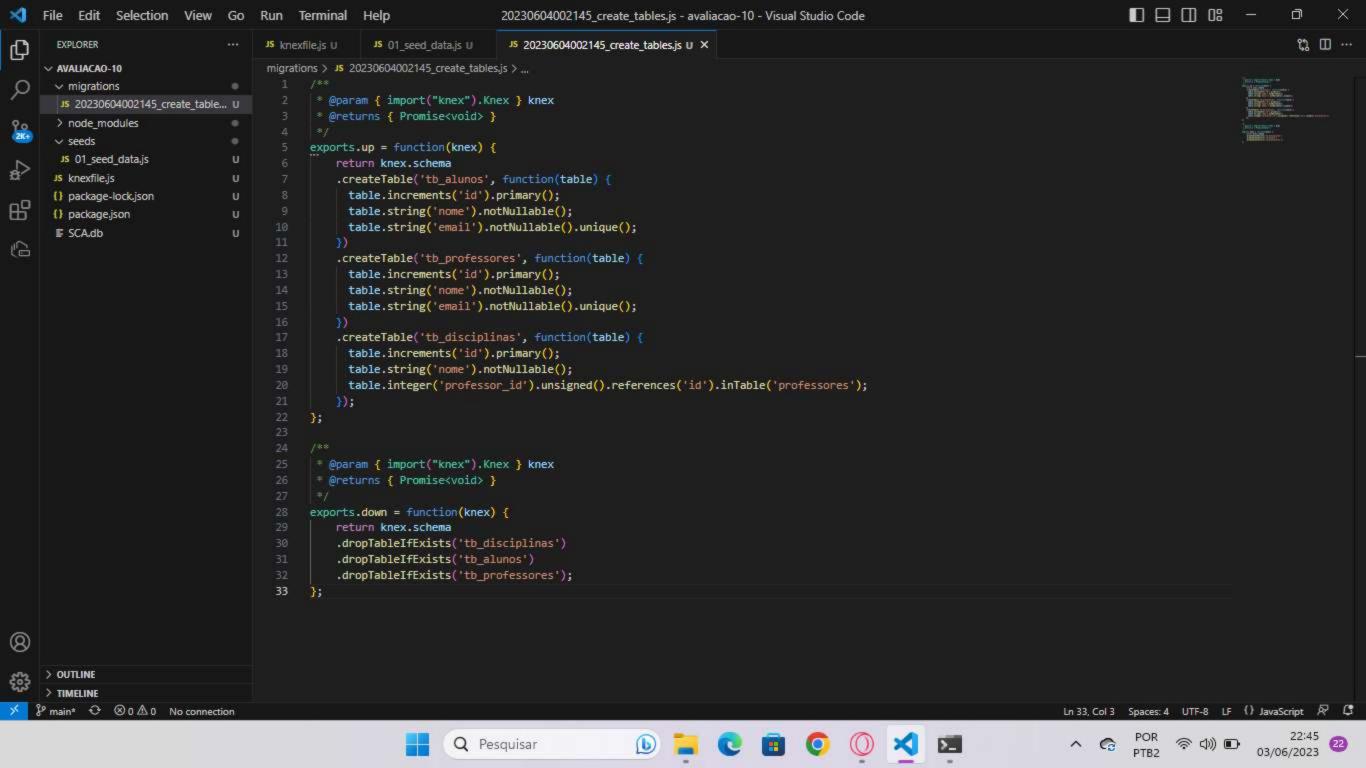
```javascript
exports.seed = function(knex) {
    // Deletes ALL existing entries
    return knex('tb_alunos').del()
        .then(function () {
            // Inserts seed entries
            return knex('tb_alunos').insert([
                { nome: 'João', email: 'joao@example.com' },
                { nome: 'Maria', email: 'maria@example.com' },
            ]);
        })
        .then(function () {
            return knex('tb_professores').del()
                .then(function () {
                    return knex('professores').insert([
                        { nome: 'Carlos', email: 'carlos@example.com' },
                        { nome: 'Ana', email: 'ana@example.com' },
                    ]);
                });
        })
        .then(function () {
            return knex('tb_disciplinas').del()
                .then(function () {
                    return knex('tb_disciplinas').insert([
                        { nome: 'Matemática', professor_id: 1 },
                        { nome: 'História', professor_id: 2 },
                    ]);
                });
        });
};
```