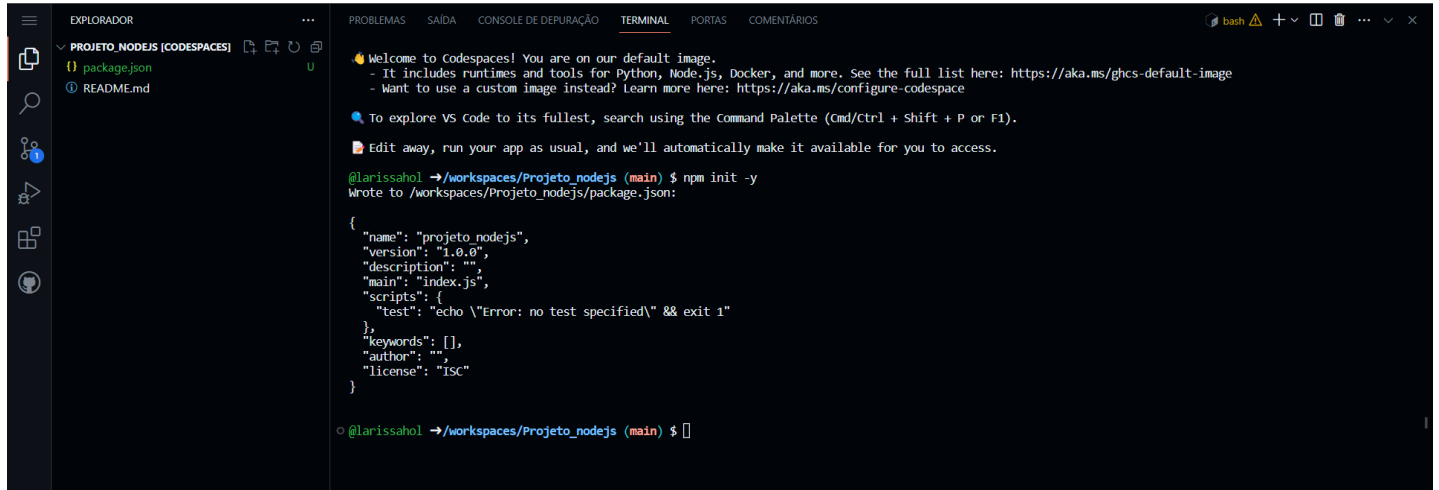


## Banco de Dados - Avaliação 10

### 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).

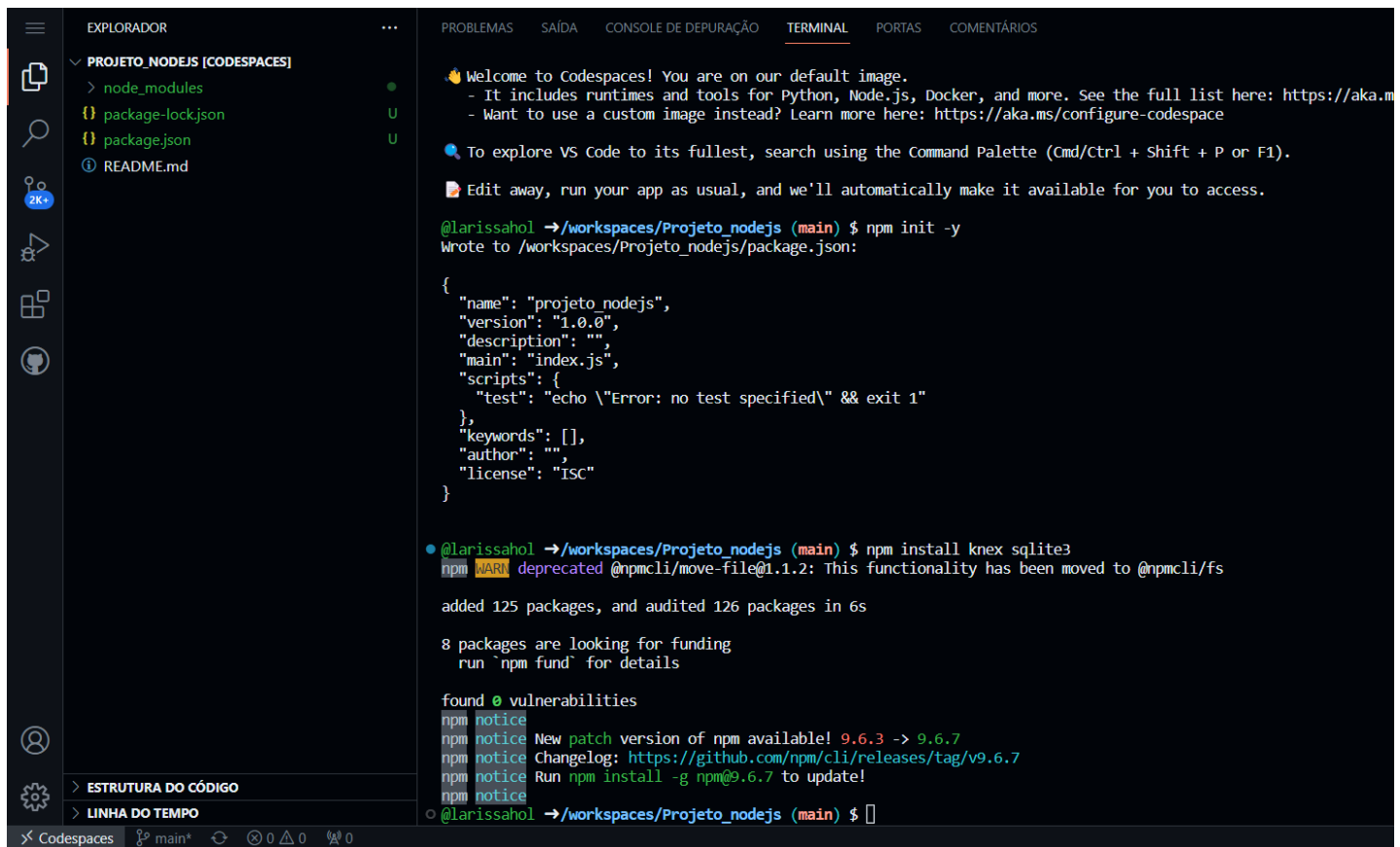
Edit away, run your app as usual, and we'll automatically make it available for you to access.

@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 sqlite3 e adiciona 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

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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:

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

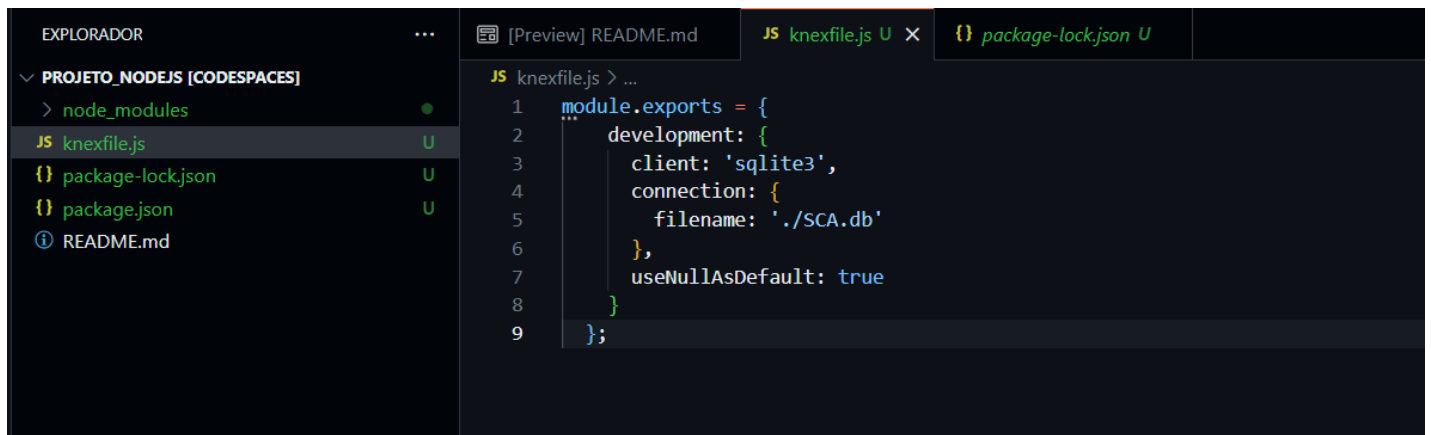
@larissahol →/workspaces/Projeto_nodejs (main) $ npm install knex sqlite3
npm WARN deprecated @npmcli/move-file@1.1.2: This functionality has been moved to @npmcli/fs

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) $
```

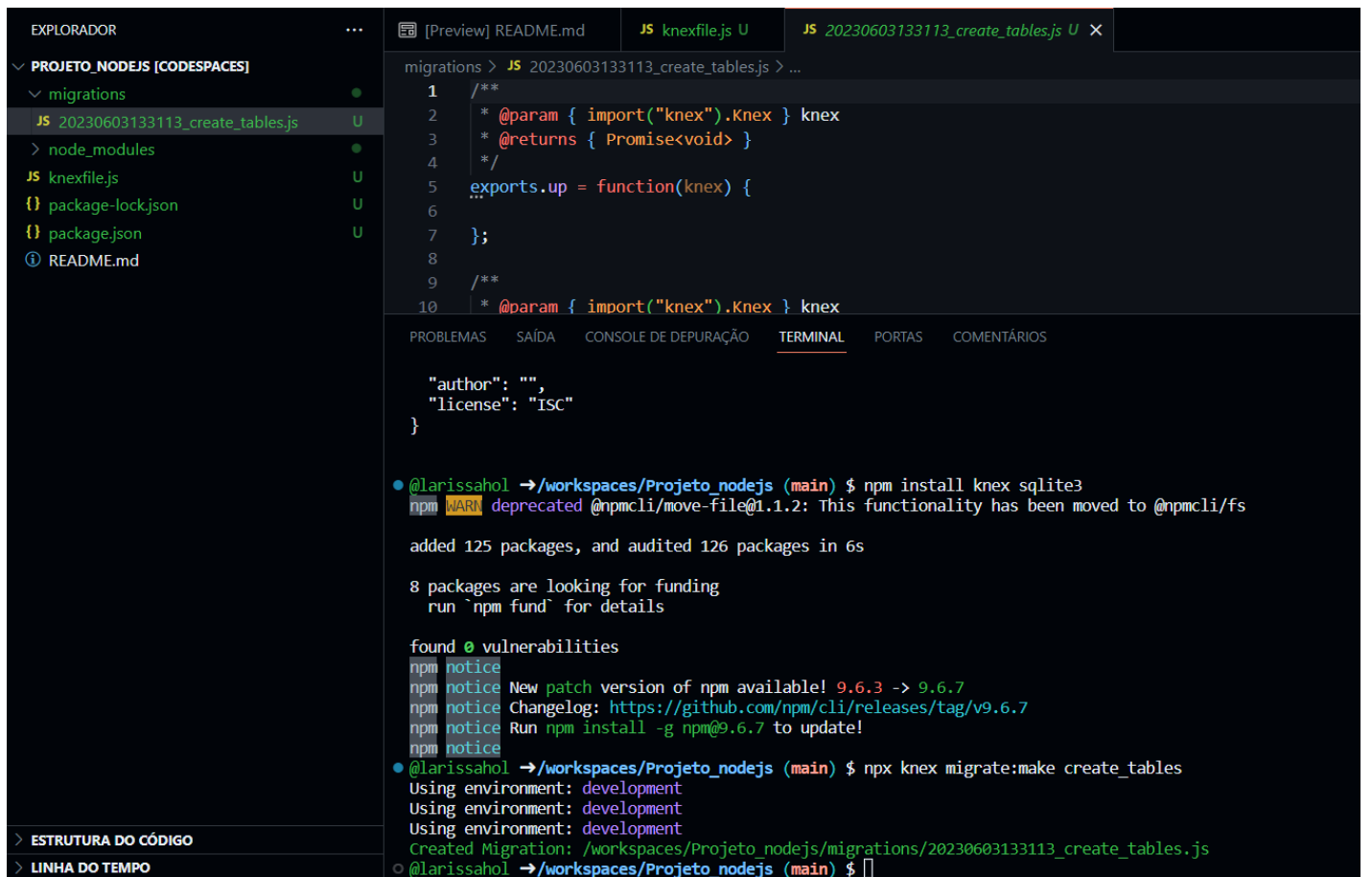
## Criação do arquivo knexfile.js:



The screenshot shows the VS Code interface with the Explorer on the left and the Editor on the right. The Explorer shows a project named 'PROJETO\_NODEJS [CODESPACES]' with a 'node\_modules' folder and files 'knexfile.js', 'package-lock.json', 'package.json', and 'README.md'. The Editor shows the 'knexfile.js' file 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 on the left and the Editor on the right. The Explorer shows a project named 'PROJETO\_NODEJS [CODESPACES]' with a 'migrations' folder and files '20230603133113\_create\_tables.js', 'node\_modules', 'knexfile.js', 'package-lock.json', 'package.json', and 'README.md'. The Editor shows the '20230603133113\_create\_tables.js' file 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
```

The Terminal shows the output of the command `npx knex migrate:make create_tables`:

```
migrations > JS 20230603133113_create_tables.js > ...
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
```

```
PROBLEMAS SAÍDA CONSOLE DE DEPURAÇÃO TERMINAL PORTAS COMENTÁRIOS

"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

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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:

EXPLORADOR

PROJETO\_NODEJS [CODESPACES]

migrations

JS 20230603133113\_create\_tables.js

node\_modules

JS knexfile.js

package-lock.json

package.json

README.md

[Preview] README.md

JS knexfile.js U

JS 20230603133113\_create\_tables.js U X

migrations > JS 20230603133113\_create\_tables.js > ...

```
14
15 };
16
17 exports.up = function(knex) {
18   return knex.schema
19     .createTable('tb_alunos', function(table) {
20       table.increments('id').primary();
21       table.string('nome').nullable();
22       table.string('email').nullable().unique();
23     })
24     .createTable('tb_professores', function(table) {
25       table.increments('id').primary();
26       table.string('nome').nullable();
27       table.string('email').nullable().unique();
28     })
29     .createTable('tb_disciplinas', function(table) {
30       table.increments('id').primary();
31       table.string('nome').nullable();
32       table.integer('professor_id').unsigned().references('id').inTable('professores');
33     });
34 };
35
36 exports.down = function(knex) {
37   return knex.schema
38     .dropTableIfExists('tb_disciplinas')
39     .dropTableIfExists('tb_alunos')
40     .dropTableIfExists('tb_professores');
41 };
```

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

EXPLORADOR

PROJETO\_NODEJS [CODESPACES]

migrations

JS 20230603133113\_create\_tables.js

node\_modules

JS knexfile.js

package-lock.json

package.json

README.md

SCA.db

[Preview] README.md

JS knexfile.js U

JS 20230603133113\_create\_tables.js U

SCA.db U X

SCA.db

O arquivo não é exibido no editor de texto porque é binário ou usa uma codificação de texto não suportada.

Abrir Mesmo Assim

PROBLEMAS SAÍDA CONSOLE DE DEPURACÃO TERMINAL PORTAS COMENTÁRIOS

```
"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

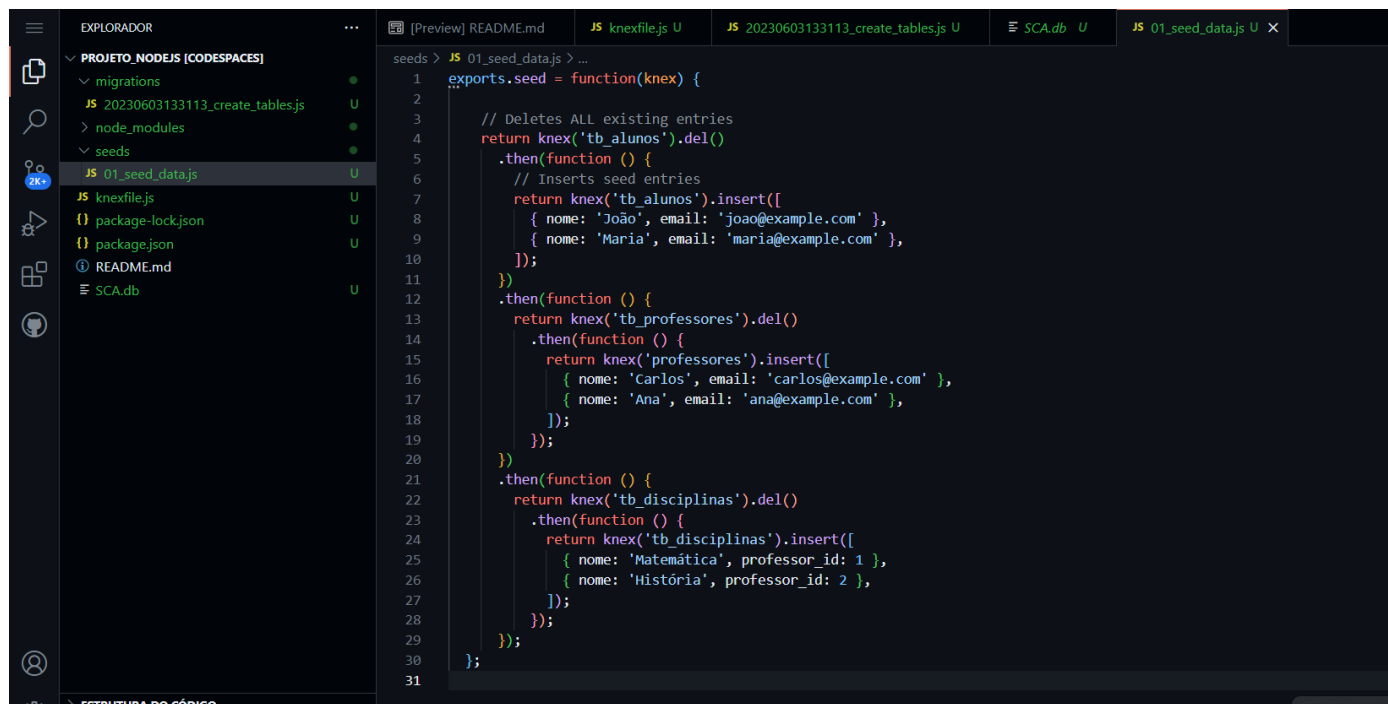
8 packages are looking for funding
run `npm fund` for details

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!
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) $ npx knex migrate:latest
Using environment: development
Batch 1 run: 1 migrations
@larissahol →/workspaces/Projeto_nodejs (main) $
```

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



```
seeds > JS 01_seed_data.js > ...
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
```