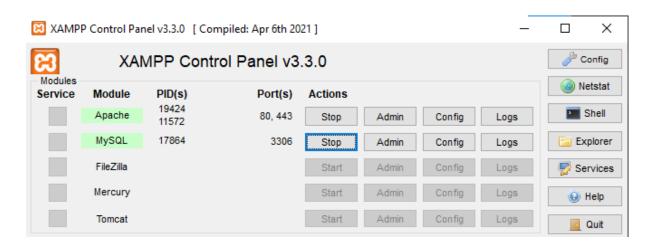
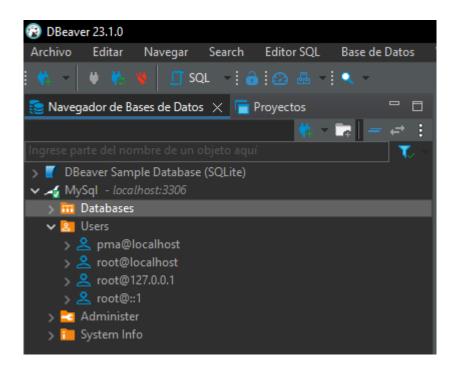
INFORME DE TALLER 2 BACKEND

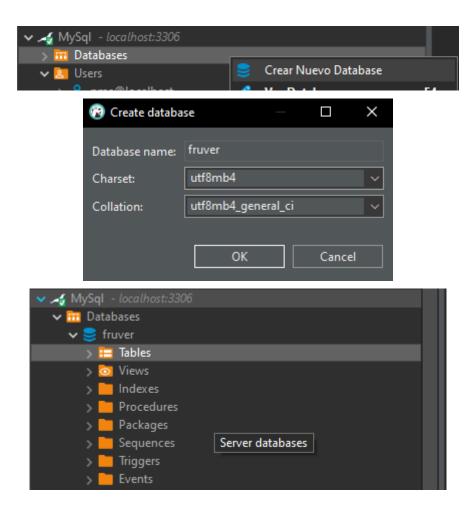
Se activa la base de datos vía XAMPP



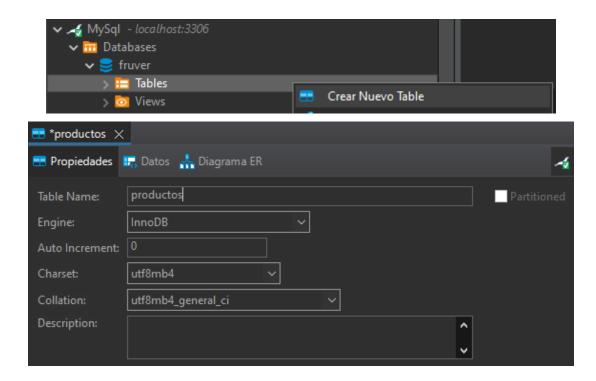
• Se crea la coneccion en DBeaver



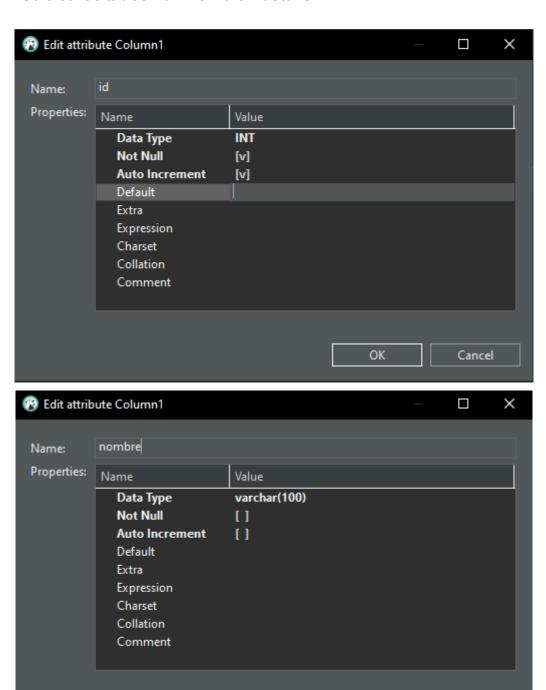
Se crea la base de datos "fruver"



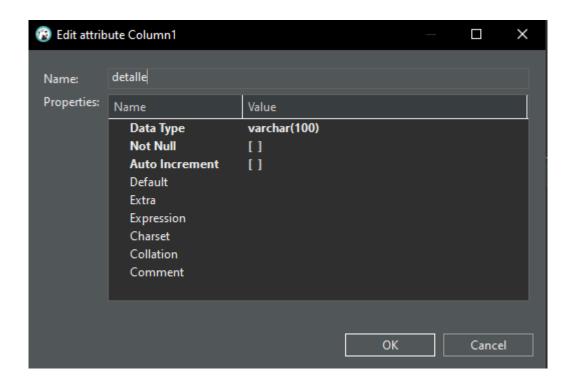
• Se crea la tabla "productos"



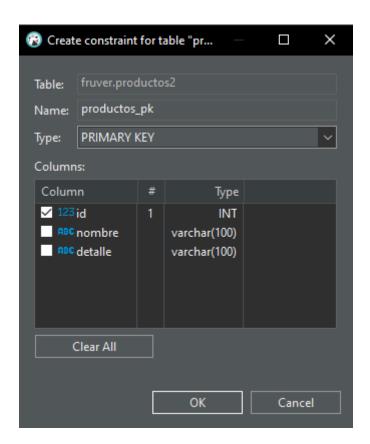
• Se crea las tablas "id" "nombre" "detalle"



Cancel



• Se declara la llave primaria

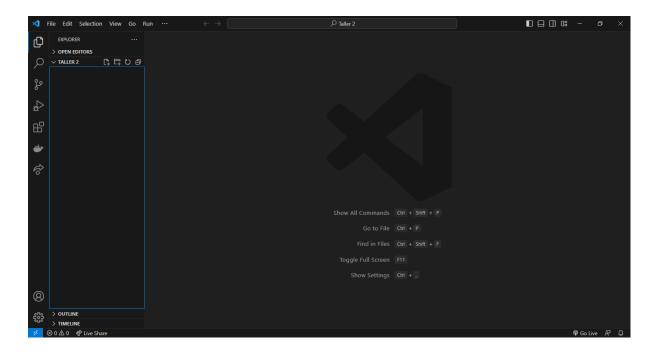


Se guarda la base de datos

```
Previsualización de SQL:

CREATE TABLE fruver.productos1 (
    id INT auto_increment NOT NULL,
    nombre varchar(100) NULL,
    detalle varchar(100) NULL,
    CONSTRAINT productos_pk PRIMARY KEY (id)
)
ENGINE=InnoDB
DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_general_ci;
```

• Se crea un nuevo directorio de trabajo y se abre Visual Studio Code en el.



• Se ejecuta los siguientes comandos en la terminal

PS C:\Users\Acer\OneDrive\Documentos\GitHub\Taller 2> npm init
\GitHub\Taller 2> npm i express cors sequelize mysql mysql2 nodemon

 Se declara a nodemon como dependencia de desarrollo y tipo de API como módulo

```
package.json X
package.json > • type
         "name": "taller-2",
         "version": "1.0.0",
         "description": "",
         "main": "index.js",
         Debug
         "scripts": {
          "test": "echo \"Error: no test specified\" && exit 1"
         "author": "",
         "license": "ISC",
         "dependencies": {
           "cors": "^2.8.5",
           "express": "^4.18.2",
           "mysql": "^2.18.1",
           "mysq12": "^3.4.2",
           "sequelize": "^6.32.1"
         "devDependencies": {
           "nodemon": "^2.0.22"
         "type": "module"
 21
```

• Se crea la carpeta "models" y se crea el modelo "producto.js"

```
■ producto.js ×
 EXPLORER
> OPEN EDITORS
                              models > Js producto.js > [4] Product > 1/9 detalle > 1/9 type
                                     import { DataTypes } from "sequelize";
∨ TALLER 2
               回の哲却
                                     import { sequelize } from "../database/database.js";

✓ ■ models

    Js producto.js
                                     const Product = sequelize.define('productos', {
 > node_modules
   package-lock.json
                                         type: DataTypes.INTEGER,
   package.json
                                         allowNull: false,
                                         primaryKey:true,
                                         autoIncrement:true
                                       nombre: {
                                        type: DataTypes.STRING
                                       detalle:{
                                15
                                        type:DataTypes.STRING
                                         createdAt:false,
                                         version:false,
                                         updatedAt:false
                                     });
                                     export {Product}
```

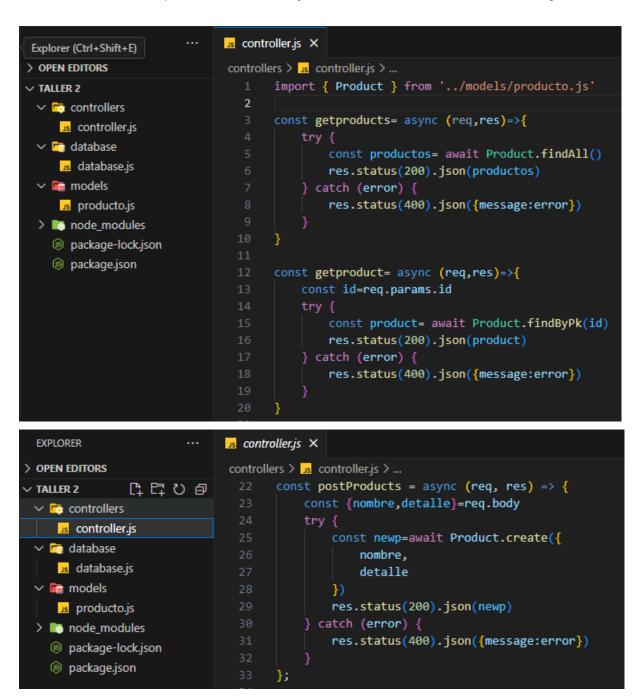
• Se crea la carpeta "database" y se crea el archivo "database.js"

```
EXPLORER
                              us database.js X
> OPEN EDITORS
                               database > Js database.js > ...
                                      import { Sequelize } from "sequelize";
∨ TALLER 2
 database
                                      const sequelize = new Sequelize('fruver', 'root', '', {
     us database.js
                                          host: 'localhost',

✓ ■ models

                                          dialect: 'mysql'
     producto.js
 > node_modules
                                     export {sequelize}
   package-lock.json
   package.json
```

• Se crea la carpeta "controllers" y se crea el controlador "controller.js"



```
EXPLORER
                                     s controller.js X
                                     controllers > Js controller.js > ...
> OPEN EDITORS
                                              const putProducts = async (req, res) => {
                   回の哲却

✓ TALLER 2

                                                   const {id} =req.params

∨ □ controllers

                                                   const {nombre,detalle}=req.body
      s controller.js
                                                   try {

✓ <a> database</a>
                                                        const prev=await Product.findByPk(id)
      us database.js
                                                        prev.nombre=nombre

✓ ■ models

                                                        prev.detalle=detalle
                                                        const newp=await prev.save()
      Js producto.js
                                                        res.status(200).json(newp)
  > node_modules
                                                   } catch (error) {
     package-lock.json
                                                        res.status(400).json({message:error})
     package.json
 EXPLORER
                          ■ controller.js ×
> OPEN EDITORS
                          controllers > Js controller.js > ...
             日の甘む
V TALLER 2
                                 const deleteProducts = async (req, res) => {

∨ Image: ✓ controllers

                                    const {id} =req.params
    s controller.js
 v 👼 database
                                        const resp=await Product.destroy({
                                           where:{
    us database.js
                                               id

✓ ■ models

    Js producto.js
 > node_modules
                                        res.status(200).json({message:'regitro eliminado'})
   package-lock.json
                                    } catch (error) {
   package.json
                                        res.status(200).json({message: `registro ${id} no eliminado `+error})
                                    getproducts,
                                    getproduct,
                                    deleteProducts,
                                    putProducts,
```

Se crea la carpeta "Routes" y se crea el archivo de rutas "routes.js"

postProducts

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```
EXPLORER
                                     s controller.js
                                                           † routes.js X
OPEN EDITORS
                                              import {deleteProducts, getproducts,postProducts,putProducts,getproduct} from '../controllers/controller.js

∨ □ controllers

    us controller.is
                                              const router=Router()
 v 🖻 database
                                              router.get("/",(req,res)=>{
    res.send("SE USO FUNCIN FLECHA PORQUE YOLO")
    Js database.js
 ∨ 📻 models
    Js producto.js
> node_modules
 ∨ 🐼 Routes
                                        router.get("/productos", getproducts);
router.get("/productos/:id", getproduct);
    package-lock.json
                                              router.post("/productos",postProducts);
router.put("/productos/:id",putProducts);
router.delete(""/productos/:id", deleteProducts();
   package.json
```

• Finalmente se crea el archivo "server.js" el cual ejecuta el servidor en puerto 3000

```
EXPLORER
                                                                                                   server.js X
> OPEN EDITORS
                                                                                                      Js server.js > [∅] test
                                                                                                             1 v import express from 'express';
2 import router from './Routes/routes.js';

✓ TALLER 2

                                                  中の甘口

∨ □ controllers

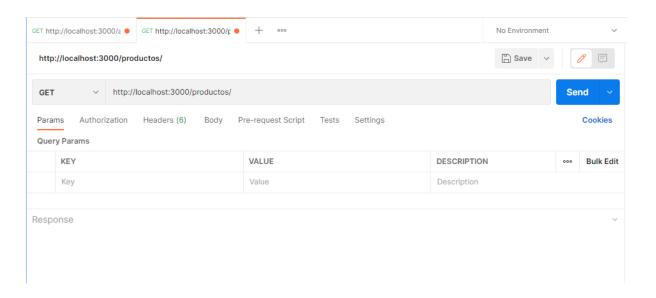
                                                                                                               3 import { sequelize } from './database/database.js';
               us controller.js
                                                                                                                        import cors from 'cors'
    database
               us database.js
                                                                                                              6 const app = express()
     ∨ 🛅 models
                Js producto.js
                                                                                                        8 app.use(cors())
                                                                                                         9 app.use(express.json())
     > node_modules
                                                                                                          10 app.use(router)

✓ Image: Value of the valu
                                                                                                          11 app.set('port',3000);
                🕇 routes.js
           package-lock.json
                                                                                                           13 ∨ const test=async()=>{
          package.json
           us server.js
                                                                                                                                         await sequelize.sync();
                                                                                                                                     console.log('Connection has been established successfully.');
                                                                                                                              } catch (error) {
                                                                                                                                           console.error('Unable to connect to the database:', error);
                                                                                                           20
                                                                                                                           test()
                                                                                                           24 vapp.listen(app.get('port'), () => {
                                                                                                                                            console.log(`Servidor Escuchando por puerto ${app.get('port')}`);
```

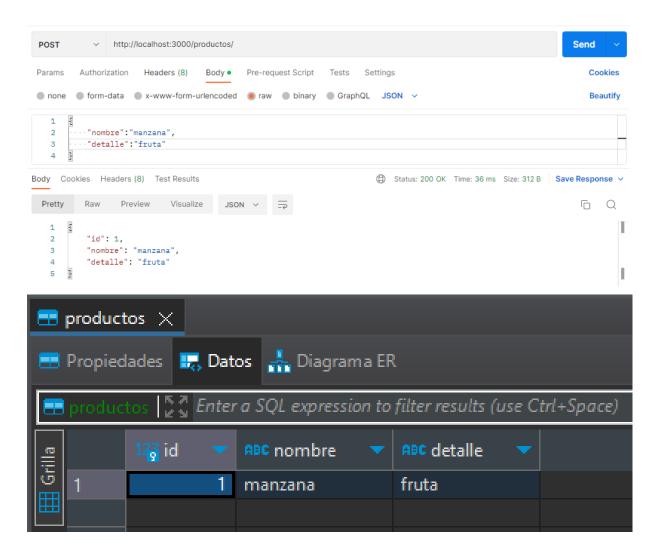
 Para poner en marcha el servidor se ejecuta el siguiente comando en la terminal

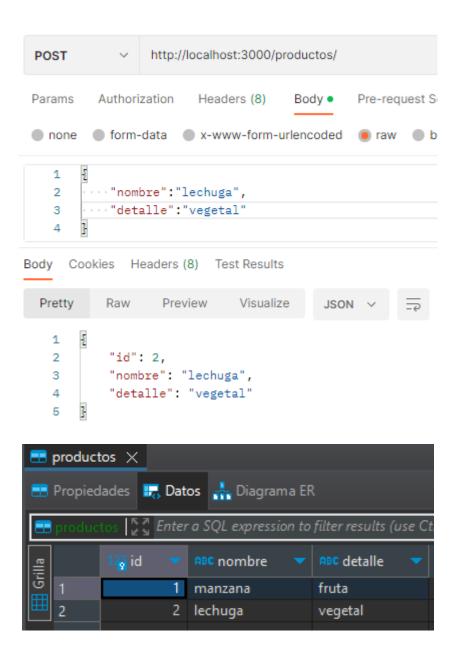
PS C:\Users\Acer\OneDrive\Documentos\GitHub\Taller 2> nodemon server.js

Se abre la aplicación "Postman"

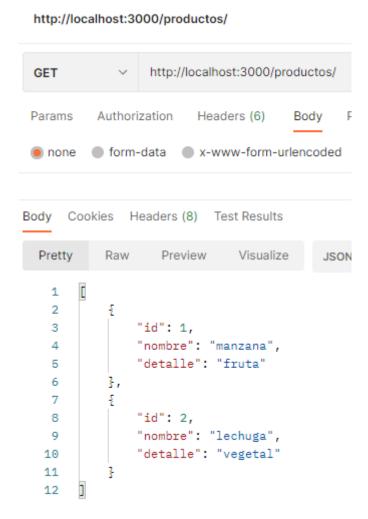


Se prueba la solicitud "postProducts" para crear 2 productos

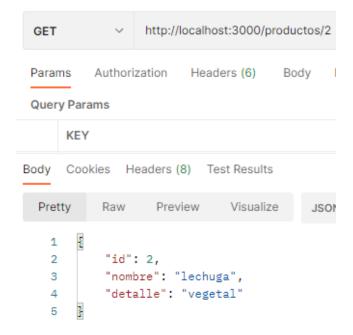




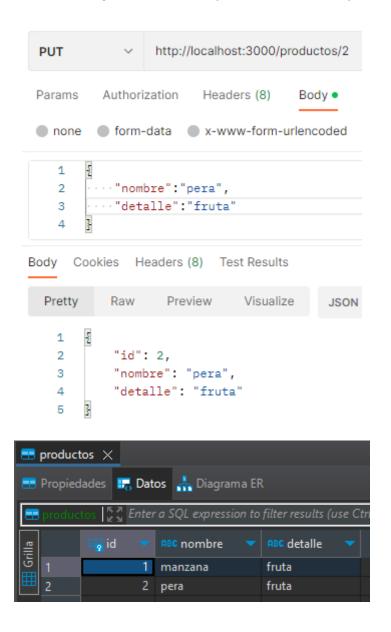
• Se prueba la solicitud "getproducts" para traer todos los productos



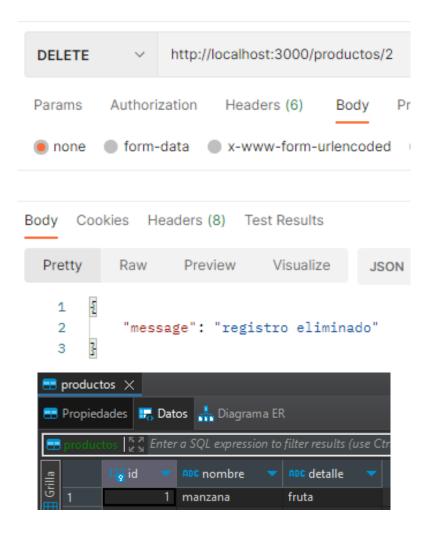
Se prueba la solicitud "getproduct/id" para traer un producto específico



• Se prueba la solicitud "putProduct/id" para actualizar un producto



• Se prueba la solicitud "deleteProducts/id" para eliminar un producto



Andres Mauricio Mora Cuasquer / 218034238