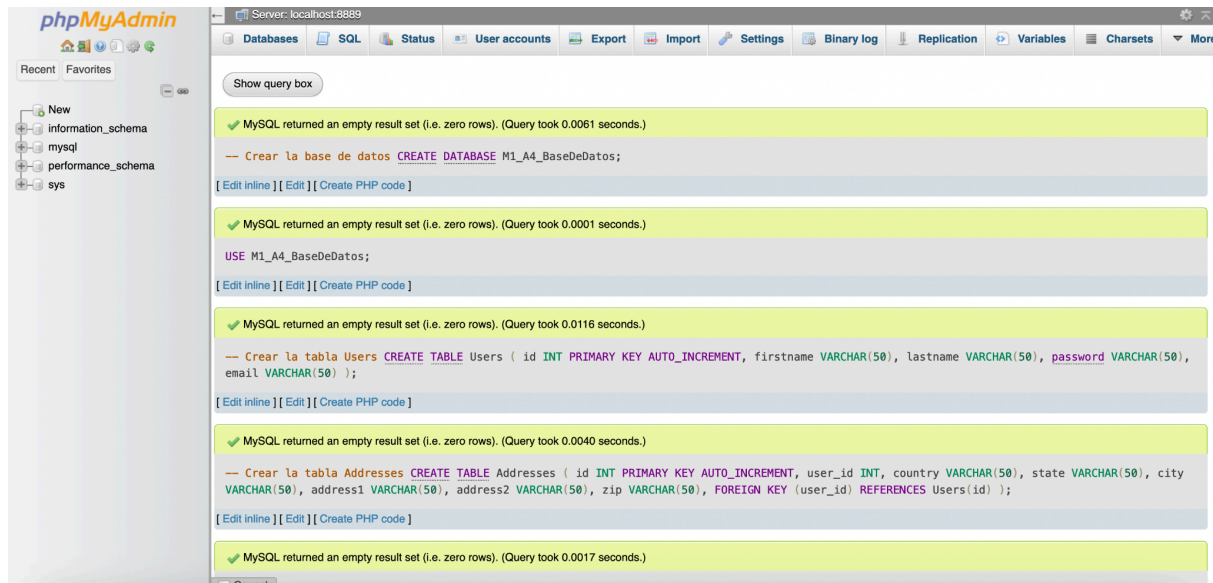# Base de Datos

-- Crear la base de datos
CREATE DATABASE M1_A4_BaseDeDatos;
USE M1_A4_BaseDeDatos;

-- Crear la tabla Users
CREATE TABLE Users (
       id INT PRIMARY KEY AUTO_INCREMENT,
       firstname VARCHAR(50),
       lastname VARCHAR(50),
       password VARCHAR(50),
       email VARCHAR(50)
);

-- Crear la tabla Addresses
CREATE TABLE Addresses (
       id INT PRIMARY KEY AUTO_INCREMENT,
       user_id INT,
       country VARCHAR(50),
       state VARCHAR(50),
       city VARCHAR(50),
       address1 VARCHAR(50),
       address2 VARCHAR(50),
       zip VARCHAR(50),
       FOREIGN KEY (user_id) REFERENCES Users(id)
);

-- Crear la tabla Payment_Methods
CREATE TABLE Payment_Methods (
       id INT PRIMARY KEY AUTO_INCREMENT,

```sql
        name VARCHAR(50)
);

-- Crear la tabla Orders
CREATE TABLE Orders (
        id INT PRIMARY KEY AUTO_INCREMENT,
        user_id INT,
        timestamp DATETIME,
        payment_method_id INT,
        FOREIGN KEY (user_id) REFERENCES Users(id),
        FOREIGN KEY (payment_method_id) REFERENCES Payment_Methods(id)
);

-- Crear la tabla Products
CREATE TABLE Products (
        id INT PRIMARY KEY AUTO_INCREMENT,
        name VARCHAR(100),
        description TEXT,
        price DECIMAL(10, 2),
        stock INT,
        category_id INT
);

-- Crear la tabla Product_Details
CREATE TABLE Product_Details (
        order_id INT,
        product_id INT,
        count INT,
        FOREIGN KEY (order_id) REFERENCES Orders(id),
        FOREIGN KEY (product_id) REFERENCES Products(id),
        PRIMARY KEY (order_id, product_id)
);

-- Crear la tabla Categories
CREATE TABLE Categories (
        id INT PRIMARY KEY AUTO_INCREMENT,
        name VARCHAR(50)
);

-- Agregar la clave foránea a la tabla Products para la relación con Categories
ALTER TABLE Products
ADD FOREIGN KEY (category_id) REFERENCES Categories(id);
```