

GitHub knisterpeter.vscode-githyl

KnisterPeter 📗 🖎 236.629

Integrates github and its workflows into vacode alaini

Install

## PROYECTO SQL

TRABAJO CON BASES DE DATOS

https://github.com/jviejocodecripto/curso-sql-12.git



## **OBJETIVOS**

### SQL

- Se trata de instalar en Docker diferentes bases de datos
  - MYSQL, SQLSERVER, ORACLE, POSTRGRES
- Carga de datos de la base Northwidn
- Hacer un servidor web que acceda a las distintas bases de datos

# SQLITE

## sqlite

https://github.com/jpwhite3/northwind-SQLite3/blob/master/Northwind\_small.sqlite

## MYSQL

docker run --name curso-mysql -p 3306:3306 -e MYSQL\_ROOT\_PASSWORD=my-secret-pw -d mysql:8.0.28

Instalar mysql

https://dbeaver.io/download/

https://www.dbvis.com/download/

Download byeaver

Download dbvisualize

Docker <a href="https://hub.docker.com/\_/phpmyadmin">https://hub.docker.com/\_/phpmyadmin</a>

Instalar phpadmin

## **POSTGRES**

https://hub.docker.com/\_/postgres

docker run --name curso-pg-14 -e POSTGRES\_PASSWORD=my-secret-pw -p 5437:5432 -d postgres:13

## SQLSERVER

#### https://hub.docker.com/\_/microsoft-mssql-server

docker run -e "ACCEPT\_EULA=Y" -e "SA\_PASSWORD=my-secret-pw" -p 1433:1433 -d mcr.microsoft.com/mssql/server:2019-CU15-ubuntu-20.04



# CARGA DE DATOS MYSQL

#### carga de datos mysql

https://www.aspsnippets.com/Handlers/DownloadFile.ashx?File=9cb579c6-86db-4596-84c3-d549428fdcf5.zip

#### carga de datos pg

https://raw.githubusercontent.com/pthom/northwind\_psql/master/northwind.sql

#### carga de datos sql server

https://raw.githubusercontent.com/microsoft/sql-server-samples/master/samples/databases/northwind-pubs/instnwnd.sql

#### **MYSQL**

```
const mysql = require("mysql8")
var pool = mysql.createPool({
    connectionLimit: 10,
    host: 'localhost',
    user: 'root',
    password: 'my-secret-pw',
    database: 'northwind'
function q(sql) {
    return new Promise((resolver, reject) => {
        pool.query(sql, function (error, results, fields) {
            if (error) reject(error);
            return resolver(results);
       });
    });
```



## ACCESO CON SQL SERVER

```
const mssql = require('mssql')
const sqlConfig = {
    user: process.env.SQLSERVER USER,
    password: process.env.SQLSERVER PASSWORD,
    database: process.env.SQLSERVER_DATABASE,
    server: process.env.SQLSERVER_HOST,
    pool: {
       max: 10,
       min: 0,
        idleTimeoutMillis: 30000
    options: {
        encrypt: true,
        trustServerCertificate: true
```

#### SQL SERV

```
async function q(sql, params) {
    try {

        await mssql.connect(sqlConfig)
        const result = await mssql.query(`select * from

Customers`)
        return result;
    } catch (err) {
        return {err:JSON.stringify(err)}
    }
}
```



## ACCESO A POSTGRES

```
const { Pool } = require('pg');
                                          async function q(sql, parametros) {
const util = require("util")
                                              return new Promise(async (resolve, reject) => {
                                                 poolPg.connect((err, client, done) => {
                                                    if (err) reject(err)
const poolPg = new Pool({
                                                    client.query(sql, parametros, (err, result) => {
    user: process.env.PG USER,
    host: process.env.PG_HOST,
                                                         if (err) {
    database: 'postgres',
                                                             reject(err)
    password: process.env.PG_PASSWORD
                                                         } else {
    port: process.env.PG_PORT,
                                                             resolve(result.rows)
                                          module.exports = {
```

#### **POSTGRES**

## ORACLE

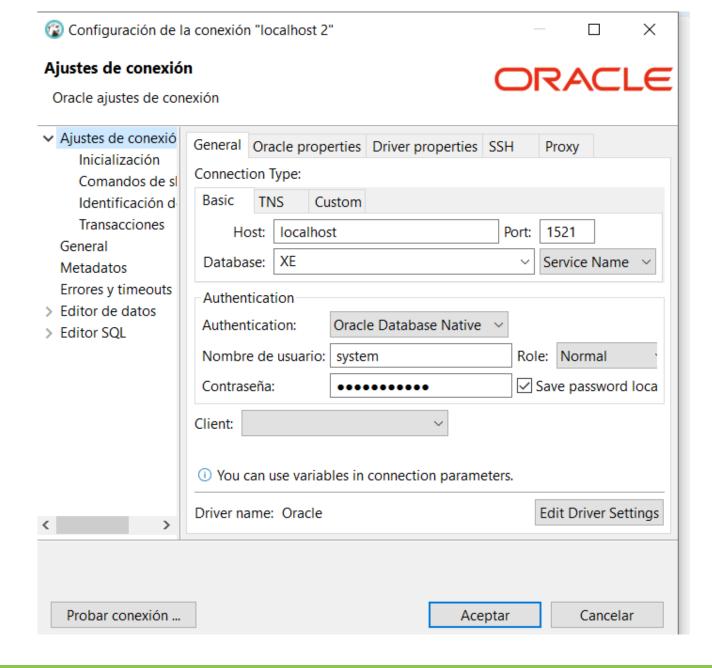
docker run -d --name orcl1 -e ORACLE\_PWD=changeme123 -p 1521:1521 container-registry.oracle.com/database/express:21.3.0-

xe

USUARIO:SYS AS SYSDBA password:changeme123

#### carga de datos oracle

https://gist.githubusercontent.com/Jviejo/4f59dfe1d31d55c633b6c4a441bfb806/raw/800005c1ea4264f4e16b2a13cca7af28431f3879/northwind%2520oracle



HOST: localhost

SERVICE: XE PORT: 1521

Usuario: SYS Role: SYSDBA

Contraseña: changeme123

#### carga de datos oracle

https://raw.githubusercontent.com/dshifflet/NorthwindOracle\_DDL/master/northwind\_export.sql



#### HAY QUE INSTALAR EL CLIENTE DE ORACLE

https://www.oracle.com/database/technologies/instant-client/winx64-64-downloads.html

```
const oracledb = require('oracledb');
var pool = null
try {
    oracledb.initOracleClient({ libDir: 'C:\\Users\\jviejo\\Downloads\\instantclient-basiclite-windows.x64-
21.3.0.0.0\\instantclient_21_3' });
} catch (err) {
    console.error('Whoops!');
    console.error(err);
    process.exit(1);
```

```
async function getPool(con) {
    return new Promise(async (resolve, reject) => {
        if (pool) resolve(pool)
       try {
            console.log("obtengo pool")
            pool = await oracledb.createPool(con)
            resolve(pool)
        } catch (error) {
           reject(error)
```

```
async function q(sql, parametros) {
    let connection;
    try {
        await getPool({
            user: process.env.ORACLE_USER, password: process.env.ORACLE_PASSWORD,
            connectString: process.env.ORACLE_CN, poolAlias: "curso"
        connection = await oracledb.getConnection("curso");
        const result = await connection.execute(
            sql,
            parametros, { outFormat: oracledb.OBJECT},
       return (result.rows);
     catch (err) {
       return err;
    } finally {
       if (connection) {
           try {
                await connection.close();
            } catch (err) {
                return err;
```