

Lab 4

Goals for this Lab

1. Familiarize yourself with JDBC for SQL Server
2. Create and populate a database.

Task Description

Your goal for this lab is to write a program that creates and populates a SQL Server database with data from the provided csv file of USGS earthquake data. You will use the Docker install of SQL Server and the JDBC driver from the previous lab to accomplish this.

Overall this lab will require reading each line from the csv and inserting it into the database properly. Before this can be done a database must be created with a single table for the data to be inserted into.

You will be turning in your program that populates the database. In order to test that all of the data has been imported properly I will be performing different selects. You may want to test your database in a similar manner.

Requirements

1. Program class must be named “USGSDatabase”.
2. Program must read the data from the provided csv and import it into the created database.
3. The database must be named “usgs”.
4. The database table must be named “earthquake_data”.
5. Each column must have the same name as the csv file.

Notes

The specific details of this lab are again left up to you, the programmer. Please keep in mind big O notation, how you choose to read and parse the csv, and what data structure you use.

Testing

This lab's results will be manually tested using mssql on the commandline. You may want to manually test your database using a similar program or by performing selects using JDBC and writing a second program.