Assignment 4

In this assignment we asked to do two tasks:

- 1) Add Gradle support.
- 2) Add ability for read data from SQL table (Data-Base), and add to GUI a login button to the SQL table.

Part A:

Gradle:

<u>What is Gradle?</u> Gradle is "*Gradle* is an advanced general purpose build management system based on Groovy and Kotlin. Gradle supports the automatic download and configuration of dependencies or other libraries. It supports Maven and Ivy repositories for retrieving these dependencies. This allows reusing the artifacts of existing build systems. Gradle supports multi-project and multi-artifact builds. Gradle has the notion of *projects* and *tasks*."

Wiki Gradle - https://en.wikipedia.org/wiki/Gradle

We used Gradle for easy run tasks, when we run Gradle it will execute -

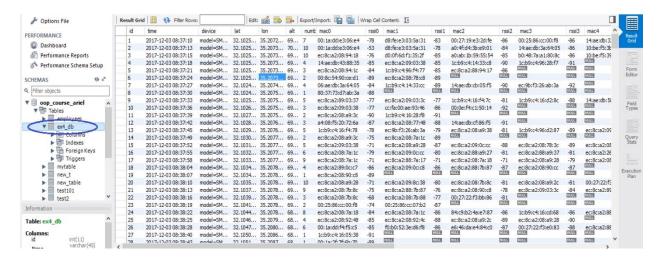
- 1) Junit Testing
- 2) Java documents
- 3) Jar
- 4) Running GUI

Link to download Gradle for Eclipse -

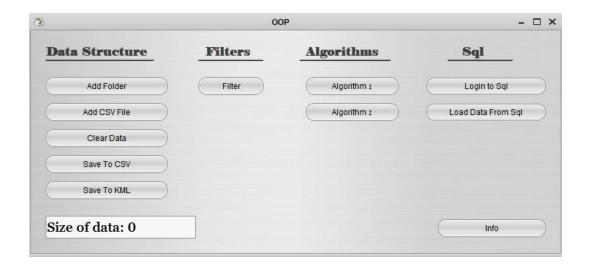
https://projects.eclipse.org/projects/tools.buildship/downloads

Part B:

Data-Base SQL Table:



We added a Login button which ask for User, Password, IP and Port after you insert the login information the system will connect to the table only if the table exists and all the information are correct.



After login you can press "Load Data From Sql" for loading all data from the table to our data structure.