

Unit Test Plan

In total there are 85 unit-tests. The tests have been written in a way to cover the entire code. Each test tries to uncover bugs in a given method of a class.

To test the correctness of the application, a dummy database is used.

For void methods and methods for Commandline classes, tests are used to check if correct output is being printed to the console and hence implying the working of code as expected.

For methods returning a SQL ResultSet, tests have been written to check if ResultSet is null when expected and otherwise a loop over the values is used to determine the correctness of the output.

For methods return integers, floats, Boolean and string direct comparison with the expected output is made for testing.

The jacoco coverage report outputs a 94% coverage of instructions and 77% coverage of branches.