Homework

**1) Theory**

Oracle documentation:

<https://docs.oracle.com/javase/tutorial/jdbc/basics/connecting.html>

<https://docs.oracle.com/javase/tutorial/jdbc/basics/processingsqlstatements.html>

<https://docs.oracle.com/javase/tutorial/jdbc/basics/prepared.html>

<https://docs.oracle.com/javase/tutorial/jdbc/basics/transactions.html>

JDBC schema:

<https://www.javatpoint.com/java-jdbc>

DAO:

<https://www.baeldung.com/java-dao-pattern>

Statement vs PreparedStatement:

<https://www.baeldung.com/java-statement-preparedstatement>

**2) Practical tasks**

1. Build Java hierarchy for Schema from previous homework.
2. Create DAO classes with necessary interfaces, abstract classes, and Generics. DAO should be scalable and flexible to support another framework and another database as well. All CRUD operations should be supported using JDBC.
3. Implement Service layer with necessary abstraction to be able to switch between databases and frameworks.
4. Use connection pool from Java block to connect from multiple threads