

Programming Technologies

Lesson 8

1. Carefully follow the presentation about JDBC (available online at the page of the class).

Create a project that can connect to a DB and then run some DDL, DML and SELECT statements

2. Download `ojdbc7.jar` from the page of the class.

3. Create a new project in NetBeans with a main class. (Project `JDBCTest`, package `jdbctest`, main class: `Main`). Include the `ojdbc7.jar` to the Libraries of the project so that you can use `oracle.jdbc`.

4. Register the oracle driver using

```
DriverManager.registerDriver(new oracle.jdbc.OracleDriver());
```

Do not forget to catch `SQLException`.

5. Get a new connection using

```
DriverManager.getConnection("jdbc:oracle:thin:@db.inf.unideb.hu  
:1521:orallg", "-----", "-----");  
DriverManager.getConnection("jdbc:oracle:thin:@codd.inf.unideb.hu  
:1521:ora12c", "-----", "-----");  
DriverManager.getConnection("jdbc:derby://localhost:1527/sample,  
"-----", "-----");
```

Do not forget to close the connection at the end.

6. Create the

```
STUDENT (neptun VARCHAR2(6)  
        , name   VARCHAR2(100)  
        , credits NUMBER(4)) table in the DB.
```

If the table is already in the schema `SQLException` is thrown with `ErrorCode 955`.

7. Use a `PreparedStatement` to insert data into the table. Read the data from the keyboard. Read until the users answers “no” after an entry for the question: “More?”.
8. Using a `statement` read all the entries from the `STUDENT` table and print them to the screen. (Get the result of the `SELECT` into a `ResultSet` and then print all entries.)
9. Read the `neptun` code of a student form the keyboard and `DELETE` the matching line from the `STUDENT` table (if there is such a line).
10. Print out the rows of the table again.