**Marked Lab: Advanced Programming**

*This lab must be prepared in pair or alone and submitted on Campus. You can check the due date in the submission area.*

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# Work to Do

You have to develop a Java application that uses the relational database developed in ML2. More specifically, you must implement the DataAccess class, whose role is to interface with the database and provide the common operations defined in ML2.

The database the application interacts with is created and populated by the database.sql script, which is executed by the initiDatabase() method of the DataAccess class. The database.sql script is the one you submitted for ML2, sections 1 and 2. You may improve the script if you want to.

The DataAccess class and test application sketch is provided on Campus as a NetBeans project. You may use another IDE if you wish.

If you have a question regarding the lab, please post it on the Questions & Answers forum. I will not reply to emails sent to my email address. Thank you.

# Beware

I will test your DataAccessclass by running a test program of my own, similar to the one provided in the application.SimpleTest class. I will use the MySQL server running on sql-users.ece.fr and my personal database on that server.

Therefore, you must not: (1) alter the interface of the DataAccess class[[1]](#footnote-1), (2) alter any other class of the model package, (3) hard code in DataAccess.java the url, login or password required to connect to the database, (4) hard-code in database.sql the name of the database to use (e.g. **use** mydatabase, create table **mydatabase.**foo, etc.).

If you fail to follow these instructions, my test program will not compile or it will not work correctly.

# Submission

## Deliverable

The deliverable consists of two files:

* the source file DataAccess.java
* the SQL script database.sql

Put the files into an archive file named LASTNAME1.FirstName1.LASTNAME2.FirstName2.zip **without any space character**, to identify the team members.

## Submitting

Submit your archive into the appropriate Campus area. You may submit it again as often as you wish until the deadline, provided you **always do so under the same Campus user**.

1. thrown exceptions are part of a method’s interface [↑](#footnote-ref-1)