CST 8288 Object Oriented Programming

Lab Exercise #2

Purpose Explore DAO pattern

Activity Implement a console application:

- that implements the DAO design pattern
- using the NetBeans IDE, MySQL and JDBC
- and a database containing a partial list of recipients of *The Order of Ontario* (recipients.sql)1

Coding requirements:

- Be sure to include Javadoc comments and other comments in your code.
- Your application must be implement the following as Java packages:
 - businesslayer
 - o dataaccesslayer (including an class to encapsulate the "data source")
 - o transferobjects
- Your application must:
 - use **Properties** class and file called **database.properties** (as in Week3 example)
 - Be sure to place this file in the **src** folder ... just like in the example
 - use ResultSet to display the table contents
 - use **ResultSetMetaData** to display the column attributes:
 - column name
 - column type (the MySQL type) and
 - corresponding Java class for the column.
 - o output the contents of the recipients table
 - o insert a new row in that table and print the contents of the resulting table
 - o delete the newly inserted row and print the table contents
- Hints:
 - refer to StanPiedaDAOexampleNBproj.zip from Week4 lecture

¹ This example uses data from *Ontario's Data Catalogue*. The full dataset is available at: https://www.ontario.ca/page/order-ontario#section-6

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- export your NetBeans project as a .zip (use your own first and last names, of course)
 - o name your file Lastname.Firstname.Lab2.zip
 - $\circ \quad \mathsf{name} \ \mathsf{your} \ \mathsf{project} \ \ \boldsymbol{\mathsf{Lastname}}. \\ \textbf{Firstname}. \\ \textbf{Lab2}$