Practical session 10

This work should be completed before the next lecture.

Task 1: Query the sample customer table

Download the lecture example from Blackboard.

Using NetBeans, modify the example so it queries the `Customer` table in the sample Java DB database and prints all data to the console.

Hint: Use NetBeans to explore the table.

Portfolio requirements:
- The NetBeans project for this completed task

Task 2: Insert a customer

Copy your NetBeans project from Task 1.

Add code to the application so that it prompts the user for information about a new customer and inserts the data into a new row in the `Customer` table. Query and print the data in the `Customer` table.

Portfolio requirements:
- The NetBeans project for this completed task

Task 3: Delete a customer

Copy your NetBeans project from Task 2.

Add code to the application so that it prompts the user for a customer id and deletes from the `Customer` table the row with that id. Query and print the data in the `Customer` table.

Portfolio requirements:
- The NetBeans project for this completed task

Task 4: VowelCount with database

Step 1: Download a NetBeans project

Download the VowelCount NetBeans project from Blackboard, unzip the file, and open it in NetBeans.

Run the program and examine the code in the main() method and the VowelCounter class. Make sure you understand it. Ask for help, if needed.

Step 2: Create a database table

In your database, create a table called VowelTally, which is described as follows:

Column name	Type	Length	Comments
Vowel	String	1	Not null, an uppercase vowel
Tally	Integer		Not null, initially zero

Insert five rows (one for each vowel) with Tally initialised to zero.

Step 3: Modify the application to use your database

Write the required code in each method of the VowelTallyGateway class.

Modify the main() method in the application so that it uses the methods in the VowelTallyGateway class to:

- Add the number of vowels in the user's string to the tally in the database
- Get all tallies from the database and print them

Portfolio requirements:
- The NetBeans project for this completed task