**Assignment 5 Schema and Table Creation**

The purpose of this assignment is to, via JDBC, populate a two-table database with the contents of a file containing XML-like syntax.

A file called CreateTable.txt contains a list of authors and their books, formatted as in the following example:

**<Author>**Isaac Asimov

<Title>Foundation</Title>

<Title>Second Foundation</Title>

<Title>Foundation And Empire</Title>

<Title>I, Robot</Title>

</Author>

**<Author>**Ray Bradbury

<Title>Fahrenheit 451</Title>

<Title>The Martian Chronicles</Title>

</Author>

This information will be loaded and installed into a two-table relational database schema called **BOOKS**. It is your responsibility to determine the correct organization of these tables from no more than the organization of this XML-like file (the above formatting ought to be enough) and without any assumptions on the actual data found there. The table organization should be enough to allow queries as in the following to be executed:

* Given a book’s name, who is the author?
* Given the author, what are that author’s books.

The Java program will, **after** having parsed the file and **after** loading its contents into an internal data repository, a Java object, this program will create the BOOKS database. If the BOOKS database already exists, the database BOOKS is deleted followed subsequently by recreating the BOOKS database.

Next, create the two tables. Ensure appropriate constraints are defined in the table’s columns.

Insert the data in the internal data repository into the two tables. On one of the tables, use a PreparedStatement and on the other use a repeatedly generated static SQL statement. For the more frequently executed of the two, use the PreparedStatement.

Finally, using a single query, print out the contents of these tables to appear as in the following example:

**Author: Isaac Asimov | Title: Foundation**

**Author: Isaac Asimov | Title: Second Foundation**

**Author: Isaac Asimov | Title: Foundation And Empire**

**Author: Isaac Asimov | Title: I, Robot**

**Author: Ray Bradbury | Title: Fahrenheit 451**

**Author: Ray Bradbury | Title: The Martian Chronicles**

As usual, ensure that all related JDBC objects are closed upon completion.

You may use User “**root**” for the time being.

Please call the Eclipse project **DBCreateTable**. As usual, please submit this assignment via class storage.