PROJECT4: Using JDBC to create a Books database, populate it, and then execute SQL statements to query/manipulate the Books database.

The implementation steps are as follows:

STEP1:

The project consists of two java programs created in eclipse:

a)PVasaCreate.java: This class creates, populates and manipulates the database tables.

b)PVasaDrop.java: This class drops all the database tables once they have been created.

STEP2:

The two java programs need a .jar file to run called “ojdbc14.jar” which can be added from:
http://www.oracle.com/technetwork/apps-tech/jdbc-10201-088211.html

to the following space in eclipse:

project->properties->build path->libraries->add external jar.

STEP3:

The program initially loads the JDBC Driver followed by connecting to the JDBC by passing three parameters:

a)username

b)password

c)connection URL

STEP4:

The java program PVasaCreate.java calls two separate functions from within the main():

a)createAllTables: Creates all the database tables.

b)populateTables: Populates all the tables with values.

STEP5:

The program implements a switch case to ask for the user choice and according the user input between (1-8) there are 8 different functions to implement the 8 queries and the 9th option exits the program.

STEP6:

The java program PVasaDrop.java also loads the JDBC driver followed by the connection to the JDBC with the SQL server which has the databases by passing the same three parameters again.

Further, this program runs queries to drop all the initially created tables from the database.

NOTE:

In order to execute PVasaCreate.java several times, make sure that you execute PVasaDrop.java also.

STEP7:

The following software are required to implement this project:

a)Eclipse

b)JDBC

c)SQL server provided by Oracle