Tools used: phpMyAdmin for SQL administration;

mysql jdbc connector – to connect to database;

notepad++ to view the given files;

Project structure is as follows:

1x resource folder for the Person.txt and Order.txt files

3x source code packages:

1. com.simpleobjects:

This is where I have placed two simple classes. The person class and the order class are simple classes with just setters and getters. They are meant to store the information processed from the files according to the columns given.

1. com.readfiles:

This is where I have placed the two classes that read the contents of the 2 files and store it in their specific objects. They both follow the same algorithm. They open the file into an input-stream which is then put into a buffered-reader. An array-list of strings is used to store all of the strings that are the lines being read from the file. After that the array-list is being cleared of any “,” or “|” symbols and a new array in which all of the elements have been cleanly stored is being created. After that the elements of the array are being read and stored into their respective object’s properties.

1. com.connection.main:

This is where the main class is situated. First the constants needed are being declared. They are the connection’s properties and the few SQL statements needed. After that the readerFile objects are being created and the connection to the database is being established. After that 2 lists of simple objects are created and read through. Reading through their objects’ “getters” the necessary information to be stored in the tables inside the database. A SystemOutPrintln is called to verify that the connection has been established with the database.

After that a query inside the database to Fetch data from these two database tables (using plain JDBC) and *print*:

* + Persons with at least one Order
  + All Orders with First Name of the corresponding person (if available)

After that the connection is closed.