**APPLICATION PROCESS – JAVA PROJECT**

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| **Role Title:** | **Software Engineer** |  |

Please complete the Java exercise below.

**Assumptions and prerequisites for this project:**

* There exist a database with following two tables:
  + PERSON [ PERSON\_ID (Primary Column), LAST\_NAME, FIRST\_NAME, STREET, CITY ]
  + ORDER [ ORDER\_ID (Primary Column), ORDER\_NO, PERSON\_ID ]
* Input files to be processed:
* Person.data – The file has Person ID, First Name, Last Name, Street, City separated by comma (‘,’).



* Order.data – The file Order ID, Order Number and Person ID separated by pipe (‘I’) character. Person ID is present in both the files.



**Requirement - Write a Java program to:**

* Read the files (Person.data and Order.data) and populate the tables (PERSON and ORDER)
* 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)

**Artefacts to be submitted at the end of this exercise:**

* A zipped version of the source code with a project summary write up.

**Mandatory requirements:**

* Java 5 or above should be used.
* No third party libraries other than JDBC and JUnit
* The unzipped project files should be portable to a standard IDE such as Eclipse or NetBeans

**The project work will be evaluated based on:**

* Usage of Java coding standards
* Usage of control statements (if, for, while, switch, etc.), Collection API
* Utilisation of OOPs concepts
* Efficiency of the code
* Exception Handling
* Usage of Design Patterns
* Test Cases (preferably in JUnit)