

Coding Challenge Instructions

1. Create a Java application that will process 2 input CSV formatted files and parse their contents accordingly:
 - a. Input files:
 - i. CodingChallenge - Clients.csv
 - ii. CodingChallenge - Transactions.csv
 - b. Lines are separated by CRLF or LF control characters.
 - c. Top line contains field names for the columns
 - d. Values that are meant to contain commas will be double quoted
 - e. Using MySQL, create a table for each file to contain the column values
 - i. Save the DDL commands in the readme file to be created later.
 - ii. When creating Clients table, make sure to add primary key auto-incrementing column named *clientid*
 - iii. When creating Transactions table:
 1. make sure to add primary key auto-incrementing column named *transactionid*
 2. include new column named *clientid* after column **Client Name**
 - f. Lines with the correct number of columns are to be saved in their respective tables
 - g. When processing Transactions input file
 - i. search for client name in Clients table
 - ii. Get clientid retrieved from search, and save it with the transaction record
 - h. Invalid lines should be saved in respective files:
 - i. **bad-record_clients_timestamp.csv**
 - ii. **bad-record_transactions_timestamp.csv**
 - i. After the file is processed, write statistics to **logfile_timestamp.txt**
 - i. clients
 1. # of records received
 2. # of records successful
 3. # of records failed
 - ii. transactions
 1. # of records received
 2. # of records successful
 3. # of records failed
2. Make sure the application is optimized for processing very large files
3. Utilizing maven and open source libraries is encouraged
4. In the folder containing your source code, create a README file that will contain the following sections:
 - a. Requirements of the coding challenge
 - b. Instructions on how to compile and use from the command line
 - c. Description of different steps in your solution
 - d. DDL commands previously mentioned

5. Create a bitbucket account and repository to which you'll upload your source code.
6. Share your repository with us using our accounts:
 - a. ChristiaanTogonon
 - b. Mmurgia
 - c. wensan or wensansiegfred@gmail.com
7. A finished solution is best. But if incomplete, approach will be evaluated, and extension of deadline may be considered.
8. When deadline is reached, regardless of completion status, make sure you have a readme file with complete section: ***description of different steps in your solution.***