**CSV Processor**

System Requirements

* Maven 3 or higher
* Java 8 or higher
* Internet connection to download dependencies

Compile and Build

1. Go to project directory
2. Execute ‘mvn install’
3. Jar file is located in ‘target/process-csv-1.0-SNAPSHOT.jar ‘

Run application

1. Copy process-csv-1.0-SNAPSHOT.jar to any directory
2. Run ‘java –jar process-csv-1.0-SNAPSHOT.jar <clientNumber> [<InputFile>] [<OutputFile>]

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| --- | --- | --- | --- |
| Parameter | Optional | Default Value | Description |
| clientNumber | No |  | Client number to query |
| InputFile | Yes | Input.txt | Input file with cleared transactions |
| OutputFile | Yes | Output.csv | Output file with daily summary for the specified client number. |

Sample Output:

Client\_Information,Product\_Information,Total\_Transaction\_Amount

123400030001,CMEFUNK.20100910,-215

123400020001,SGXFUNK20100910,-52

123400030001,CMEFUN120100910,285

Log Output:

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:: Spring Boot :: (v2.0.2.RELEASE)

2018-08-15 16:42:03.197 INFO 36339 --- [ main] au.abn.ambro.process.csv.Application : Starting Application on AtlasII.local with PID 36339 (/Users/jacob/projects/processcsv/target/classes started by jacob in /Users/jacob/projects/processcsv)

2018-08-15 16:42:03.200 INFO 36339 --- [ main] au.abn.ambro.process.csv.Application : No active profile set, falling back to default profiles: default

2018-08-15 16:42:03.248 INFO 36339 --- [ main] s.c.a.AnnotationConfigApplicationContext : Refreshing org.springframework.context.annotation.AnnotationConfigApplicationContext@6193932a: startup date [Wed Aug 15 16:42:03 AEST 2018]; root of context hierarchy

2018-08-15 16:42:04.087 INFO 36339 --- [ main] o.s.j.e.a.AnnotationMBeanExporter : Registering beans for JMX exposure on startup

2018-08-15 16:42:04.089 INFO 36339 --- [ main] o.s.j.e.a.AnnotationMBeanExporter : Bean with name 'dataSource' has been autodetected for JMX exposure

2018-08-15 16:42:04.094 INFO 36339 --- [ main] o.s.j.e.a.AnnotationMBeanExporter : Located MBean 'dataSource': registering with JMX server as MBean [com.zaxxer.hikari:name=dataSource,type=HikariDataSource]

2018-08-15 16:42:04.108 INFO 36339 --- [ main] au.abn.ambro.process.csv.Application : Started Application in 1.194 seconds (JVM running for 1.624)

2018-08-15 16:42:04.109 INFO 36339 --- [ main] au.abn.ambro.process.csv.Application : Start processing inputFile=Input.txt outputFile=Output.csv clientNumber=1234

2018-08-15 16:42:04.109 INFO 36339 --- [ main] a.a.a.p.csv.service.impl.DataStoreImpl : initialise

2018-08-15 16:42:04.111 INFO 36339 --- [ main] a.a.a.p.csv.service.impl.DataStoreImpl : DROP TABLE customers IF EXISTS;

CREATE TABLE TRANSACTIONS (

CLIENT\_TYPE VARCHAR(255),

CLIENT\_NUMBER VARCHAR(255),

ACCOUNT\_NUMBER VARCHAR(255),

SUBACCOUNT\_NUMBER VARCHAR(255),

EXCHANGE\_CODE VARCHAR(255),

PRODUCT\_GROUP\_CODE VARCHAR(255),

SYMBOL VARCHAR(255),

EXPIRATION\_DATE VARCHAR(255),

QUANTITY\_LONG INTEGER,

QUANTITY\_SHORT INTEGER

);

2018-08-15 16:42:04.113 INFO 36339 --- [ main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...

2018-08-15 16:42:04.244 INFO 36339 --- [ main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.

2018-08-15 16:42:04.263 INFO 36339 --- [ main] a.a.a.process.csv.model.InputCsvFile : Read 100 records

2018-08-15 16:42:04.290 INFO 36339 --- [ main] a.a.a.process.csv.model.InputCsvFile : Read 200 records

2018-08-15 16:42:04.311 INFO 36339 --- [ main] a.a.a.process.csv.model.InputCsvFile : Read 300 records

2018-08-15 16:42:04.323 INFO 36339 --- [ main] a.a.a.process.csv.model.InputCsvFile : Read 400 records

2018-08-15 16:42:04.337 INFO 36339 --- [ main] a.a.a.process.csv.model.InputCsvFile : Read 500 records

2018-08-15 16:42:04.351 INFO 36339 --- [ main] a.a.a.process.csv.model.InputCsvFile : Read 600 records

2018-08-15 16:42:04.358 INFO 36339 --- [ main] a.a.a.process.csv.model.InputCsvFile : Read 700 records

2018-08-15 16:42:04.368 INFO 36339 --- [ main] a.a.a.process.csv.model.InputCsvFile : Read 717 records

2018-08-15 16:42:04.369 INFO 36339 --- [ main] a.a.a.process.csv.model.InputCsvFile : Read 717 records

2018-08-15 16:42:04.409 INFO 36339 --- [ main] a.a.a.process.csv.model.OutputCsvFile : Write to output file:

2018-08-15 16:42:04.411 INFO 36339 --- [ main] a.a.a.process.csv.model.OutputCsvFile : 123400030001,CMEFUNK.20100910,-215

2018-08-15 16:42:04.412 INFO 36339 --- [ main] a.a.a.process.csv.model.OutputCsvFile : 123400020001,SGXFUNK20100910,-52

2018-08-15 16:42:04.414 INFO 36339 --- [ main] a.a.a.process.csv.model.OutputCsvFile : 123400030001,CMEFUN120100910,285

2018-08-15 16:42:04.415 INFO 36339 --- [ main] au.abn.ambro.process.csv.Application : Completed Processing Input.txt. Output file generated: Output.csv

2018-08-15 16:42:04.416 INFO 36339 --- [ Thread-2] s.c.a.AnnotationConfigApplicationContext : Closing org.springframework.context.annotation.AnnotationConfigApplicationContext@6193932a: startup date [Wed Aug 15 16:42:03 AEST 2018]; root of context hierarchy

2018-08-15 16:42:04.418 INFO 36339 --- [ Thread-2] o.s.j.e.a.AnnotationMBeanExporter : Unregistering JMX-exposed beans on shutdown

2018-08-15 16:42:04.418 INFO 36339 --- [ Thread-2] o.s.j.e.a.AnnotationMBeanExporter : Unregistering JMX-exposed beans

2018-08-15 16:42:04.418 INFO 36339 --- [ Thread-2] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown initiated...

2018-08-15 16:42:04.420 INFO 36339 --- [ Thread-2] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown completed.