DreamCandies File Tool

Feature	CR1888_DRC
Customer	DreamCandies
Release	1.1
Keywords	<keyword>
Author	Stonebranch
Reviewed	No
Document Name	DreamCandies.docx
Document Version	1.0
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Customer Approval	
Date	
Name	
Signature	

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1 Business Requirements

DreamCandies, a company selling cadies has engaged Stonebranch to migrate their current billing system to a completely new platform. To ensure the final migrated system is bug free, Stonebranch system integration team has decided to implement a test automation process to continuously verify correctness of their implementation throughout the entire project lifecycle.

On a daily basis, the team will receive three FULL database extraction files from DreamCandies, to ensure a speedy test automation process, the team will pre-select 1000 customers as test sample, based on this input, we should extract all relevant entries from the three full extraction files to produce three smaller files containing all the pre-selected customers data. The test automation process will then ingest these smaller set of files to perform the test automation execution quickly.

1.1 Extraction File Format

On daily basis, the customer (DeamCandies) will deliver to Stonebranch System Integration Team three full extraction files, all extraction files will have the following files specification:

- ASCII file (UNIX format)
- First line of the file is the heading
- Each field are separated by comma character “,”
- All Field are double quoted regardless of data type (e.g. “Olivier”)
- Thousand separator should not be used in the field with FLOAT data type
- Decimal point “.” will be used in field with FLOAT data type as decimal mark

CUSTOMER.CSV (contain approximately 500k customer)

Columns	Data Type
CUSTOMER_CODE	CHAR(30)
FIRSTNAME	CHAR(100)
LASTNAME	CHAR(100)

INVOICE.CSV (contain approximately 1 million invoices)

Columns	Data Type
CUSTOMER_CODE	CHAR(30)
INVOICE_CODE	CHAR(30)
AMOUNT	FLOAT
DATE	DATE

INVOICE_ITEM.CSV (contain approximately 5 million invoice items)

Columns	Data Type
INVOICE_CODE	CHAR(30)
ITEM_CODE	CHAR(30)
AMOUNT	FLOAT
QUANTITY	INTEGER

Example:

The following example show two customers, Maria (CUSTOMER_CODE= CUST0000010231) with two invoices for Jan and Feb 2016, whereas George (CUSTOMER_CODE= CUST0000010235) has only one invoice for Jan 2016.

CUSTOMER.CSV

```
"CUSTOMER_CODE","FIRSTNAME","LASTNAME"
"CUST0000010231","Maria","Alba"
"CUST0000010235","George","Lucas"
```

INVOICE.CSV

```
"CUSTOMER_CODE","INVOICE_CODE","AMOUNT","DATE"
"CUST0000010231","IN0000001","105.50","01-Jan-2016"
"CUST0000010235","IN0000002","186.53","01-Jan-2016"
"CUST0000010231","IN0000003","114.14","01-Feb-2016"
```

INVOICE_ITEM.CSV

```
"INVOICE_CODE","ITEM_CODE","AMOUNT","QUANTITY"
"IN0000001","MEIJI","75.60","100"
"IN0000001","POCKY","10.40","250"
"IN0000001","PUCCHO","19.50","40"
"IN0000002","MEIJI","113.40","150"
"IN0000002","PUCCHO","73.13","150"
"IN0000003","POCKY","16.64","400"
"IN0000003","PUCCHO","97.50","200"
```

1.2 Customer Sample File

System Integration Team will pre-select 1000 customer into an ASCII file, this file should be served as the input of the new tool to be developed. The files will have the following specification:

- ASCII file (UNIX format)
- First line of the file is the heading

CUSTOMER_SAMPLE.CSV

Columns	Data Type
CUSTOMER_CODE	CHAR(30)

Example:

```
"CUSTOMER_CODE"
"CUST0000010231"
"CUST0000010235"
```

2 New Business Process

Develop a tool in Java or Python. The input of the tool is the customer sample input file (see chapter 1.2) and the expected output from the tool is three smaller files containing extracted customer data from the full extraction files (see chapter 1.1).