

Jumo Coding Question

Situation

Every two months we are given a text file from our accounting department detailing all the loans given out on our networks. This needs to be validated against our internal systems by the composite key of Network, Product and Month. We will drill down as necessary into problem areas.

Task

Given the below CSV from a Mobile Network calculate the aggregate loans by the tuple of network, product and month with the total currency amounts and counts and output into a file CSV file Output.csv

Loans.csv

```
MSISDN,Network,Date,Product,Amount
27729554427,'Network 1','12-Mar-2016','Loan Product 1',1000.00
27722342551,'Network 2','16-Mar-2016','Loan Product 1',1122.00
27725544272,'Network 3','17-Mar-2016','Loan Product 2',2084.00
27725326345,'Network 1','18-Mar-2016','Loan Product 2',3098.00
27729234533,'Network 2','01-Apr-2016','Loan Product 1',5671.00
27723453455,'Network 3','12-Apr-2016','Loan Product 3',1928.00
27725678534,'Network 2','15-Apr-2016','Loan Product 3',1747.00
27729554427,'Network 1','16-Apr-2016','Loan Product 2',1801.00
```

Solution considerations

- The expectation is a file called Output.csv with a line detailing the totals by the tuple of Network, Product and Month summing the amount and count of loans.
- A readme.txt detailing the project, usage and assumptions you've made as well as the choices around your language.
- Follow proper coding conventions, object orientated design, detail performance and scaling considerations.
- Implement this as you would in a work environment.