Solutions for Integration Assignment 0.5

Solution Question 1 What is the balance for Acc_number 12346 for 03/01/2018? Please also provide the code that produced the answer for the question. Your answer proc import datafile='/home/ermin0/Balance_Bank xlsx' out=sheet1 dbms=xlsx; sheet=sheetl; run; proc import datafile='/home/ermin0/Balance_Bank xlsx' out=sheet2 dbms=xlsx; sheet=sheet2; run; proc contents data=sheet1; run; proc sort data=sheet1 out=sheet1_sorted; by Acc_number; proc sort data=sheet2 out=sheet2_sorted; by Acc_number; run: data my_balance; merge sheet1_sorted sheet2_sorted; by Acc_number; retain Balance; if first.Acc_number then Balance=Credit-Debit; else Balance=Balance+Credit-Debit;

run;

Question 2

How would you explain the role of first, in your code?

Your answer

When we use the BY statement, we are telling SAS to group by a particular variable. In our case, we told it to group by Acc_number. We also sorted our Acc_number to be in order.

By using first.Acc_number, this indicator variable will identify if a particular row/observation should be included into a group. For example, most oustomers will have many transactions, therefore, their Acc_number will be in many rows/observations to reflect all their transactions. We need first, to tell us if a transaction on a particular row should be grouped with a particular Acc_number.

first, will identify if a particular row/observation will be included for a particular customer/Acc_number by assignining = 1 for an observation when an observation is the first observation in each group of values (first time it sees a particular Acc_number) and assign = 0 when a row/obs is not the first observation in each group of values. (the 2nd, 3rd, 4th, etc. times it sees that Acc_number).

So, when it moves on to a new Acc_number it once again assigns = 1, then 0's and so it goes on

The solution for Integration Assignment 0.5 is attached.