

Compute average credit period

Objective : Compute the average credit period for receipt of payment in garment industry.

Background:

The sales cycle in garment industry follows this pattern:

1. Purchase order is placed and the item is delivered (N times)
2. Payment is not made by the customer immediately for each order but made as a lumpsum amount that might not add up to all value of all the purchases made.
3. These purchase-payment transactions are recorded in the ledgers of the company as follows.

A purchase transaction is recorded in the system as follows (Note the negative amount)

Date	Voucher type		Amount
10-07-2020	Purchase		-25561.00
17-07-2020	Purchase		-572778.00

A payment transaction is recorded as follows

Date	Voucher type	Amount
27-07-2020	Payment	500000.00
31-08-2020	Payment	230000.00

“Average credit period” is a metric used in identifying the customers who pay the bills on time(or otherwise). The logic to compute the average credit period is as follows:

1. Credit period for a purchase transaction = Date of Payment – Date of purchase
2. Average credit period is the average of credit periods for all purchase transactions.

Problem Statement

Write a program to compute the average credit period for any customer. Sample purchase-payment transactions data is available in the attached spreadsheet.



Transactions.xlsx