Module 2: Basic Data Manipulation using R

Assignment

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Version 2.0

Solve the following questions:

1. Given Data:

    X = C(1,2,3,4,23,42,5,311,1)
    Y = C(23,43,54,75,76,6,87,5,43,234,2)

a. Calculate the Mean of X and Y?
b. Calculate the Standard Deviation of X and Y?
c. Calculate the Sum of X and Y?
d. Create a custom function that can calculate the square of any number.

2. Import the following file formats into R:

→ sas7bdata dataset
→ spss dataset

3. The following data is available in the LMS. It contains Credit card data that is generated in batches periodically. The first dataset contains data collected so far, whereas another dataset is generated in the last hour is to be combined with this data, so that the organization has the updated complete data.

Transaction_data

custID	gender	state	cardholder	balance	numTrans	numIntlTrans	creditLine	fraudRisk
1	1	35	1	3000	4	14	2	0
2	2	2	1	0	9	0	18	0
3	2	2	1	0	27	9	16	0
4	1	15	1	0	12	0	5	0
5	1	46	1	0	11	16	7	1
6	2	44	2	5546	21	0	13	0

Hour_transaction

custID	gender	state	cardholder	balance	numTrans	numIntlTrans	creditLine	fraudRisk
8	1	10	1	6016	20	3	6	0
9	2	32	1	2428	4	10	22	0
10	1	23	1	0	18	56	5	1

Problem: Import this data into R and Combine the data using any of the built-in functions present in R.