AIM :

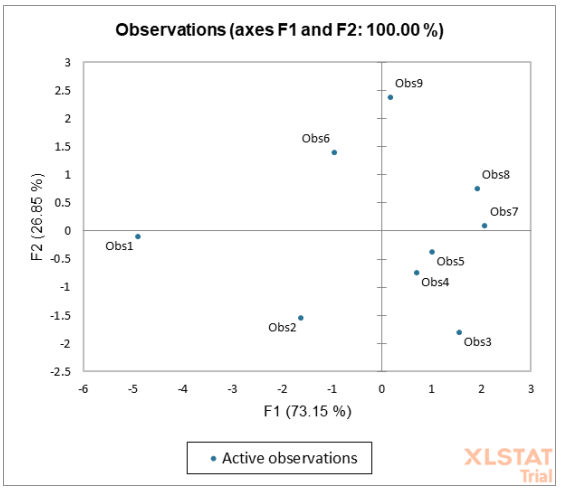
PROCEDURE :

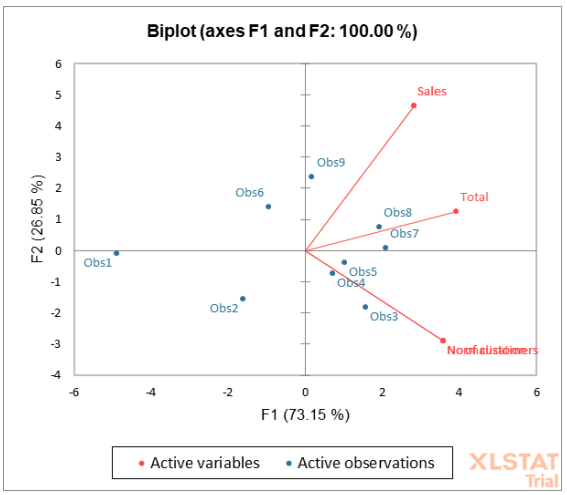
Step 1 : Start Ms Excel application in Ms- office.
Step 2 : Open XLSTAT . Select the XLSTAT / Analyzing data / Principal components analysis command. The Principal Component Analysis dialog box will appear.
Step 3 : Select the data on the Excel sheet.
Step 4 : Select Observations/variables in the Data format field because of the format of the input data and Select Correlation in the PCA type field.
Step 5: In the Outputs tab, activate the option to display significant correlations in bold characters (Test significance).
Step 6 : In the Charts tab, in order to display the labels on all charts, and to display all the observations (observations charts and biplots), uncheck the filtering option.
Step 7 : If there is a lot of data, displaying the labels might slow down the global display of the results. Displaying all the observations might make the results unreadable. In these cases, filtering the observations to display is recommended
Step 8: Click OK to launch the computations.
Step 7 : Save the excel file and Close the Ms Excel application.

INPUT :

Sno	Region	State	Branch	Month	No of customers	Sales	No of customers	Sales	Total
1	South	Kentucky	A1	Jan	32	10000	0	0	0
2	West	California	A2	Jan	45	12000	0.57	0.1	0.67
3	South	Florida	A3	Jan	55	18000	1	0.4	1.4
4	West	California	A4	Jan	50	20000	0.78	0.5	1.28
5	South	North Carolina	A5	Jan	50	22000	0.78	0.6	1.38
6	West	Washington	A6	Jan	40	24000	0.35	0.7	1.05
7	Central	Texas	A7	Jan	52	26000	0.87	0.8	1.67
8	Central	Wisconsin	A8	Jan	50	28000	0.78	0.9	1.68
9	West	Utah	A9	Jan	41	30000	0.39	1	1.39

OUTPUT :





RESULT :