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/* ARRAYS IN SAS: */
/* a. INTRODUCTION TO ARRAYS: */
/* AN ARRAY IS SIMPLY A WAY TO REFER TO A GROUP OF VARIABLES IN ONE OBERVATION WITH A SINGLE NAME. */
/* SYNTAX--> */
/* ARRAY_ARRAY_NAME (SUBSCRIPT)<$><ARRAY_ELEMENTS><(INITIAL_VALUE_LIST)> */
/* EXPLAIN ABOUT THE SYNTAX: */
/* ARRAY: KEYWORD TO START THE ARRAY STATEMENT OR DEFINE THE ARRAY VARIABLES IN SAS. */
/* ARRAY_NAME: A NAME WHICH YOU WOULD LIKE TO GIVE TO THE ARRAY VARIABLE.
                THIS FOLLOWS THE SAME RULE AS OTHER VARIABLES
                AND THAT MUST NOT BE SAME AS A VARIABLE IN YOUR DATA. */
/* SUBSCRIPT: IT'S A NUMBER, YOU NEED TO PROVIDE TO TELL SAS HOW MANY ELEMENTS/VARIABLES
                YOU WANT TO STORE IN THIS ARRAY VARIABLE. */
/* $: AN OPTIONAL ARGUMENT, WHICH NEED TO BE USED WHEN ALL THE ELEMENTS/VARIABLES
        YOU WANT TO STORE IN THE ARRAY VARIABLE ARE CHARACTER TYPE. */
/* ARRAY ELEMENTS: LIST OF ALL THE VARIABLES YOU WANT TO STORE IN THE ARRAY VARIABLE. */
/* EG-1: */
DATA TEST;
ARRAY X(10) D1-D10;
RUN;
/* b. USING 'IN' OPERATOR IN ARRAYS: */
DATA SAMPLE:
SET WORK.psa;
ARRAY X(7) DAY_1-DAY_7;
IF 'A' IN X THEN EVER_ABSENT = 'YES';
ELSE EVER_ABSENT = 'NO';
IF 'P' IN X THEN EVER_PRESENT = 'YES';
ELSE EVER_PRESENT = 'NO';
RUN;
/* c. USING 'OF' OPERATOR IN ARRAYS: */
DATA SAMPLE2;
SET WORK.sales_cus;
ARRAY Y(12) JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC;
MAX_UNIT_SOLD = MAX(OF Y(*));
MIN_UNIT_SOLD = MIN(OF Y(*));
RUN;
/* SIMPLEST FORM: */
DATA SAMPLE2;
SET WORK.sales_cus;
ARRAY Y1(*) _NUMERIC_ ;
MAX_UNIT_SOLD = MAX(OF Y1(*));
MIN_UNIT_SOLD = MIN(OF Y1(*));
RUN;
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/* DEFAULT OPTION PROVIDED BY SAS ARE: */
/* 1. _NUMERIC_ */
/* 2. _CHARACTER_ */
/* 3. _ALL_ */
/* d. USING 'DO LOOP' WITH ARRAYS: */
DATA SAMPLE3;
SET WORK.mis_vall;
ARRAY Z(10) a1-a10;
DO i = 1 TO 10;
   IF MISSING(Z(i)) THEN Z(i) = 0;
END:
RUN;
/* SIMPLEST FORM: */
DATA SAMPLE4;
SET WORK.mis_vall;
ARRAY Z1(*) _NUMERIC_;
DO j = 1 TO DIM(Z1);
    IF MISSING(Z1(j)) THEN Z1(j) = 0;
END;
RUN;
/* DIM: IT COUNTS NUMBER OF VARIABLES STORE IN ARRAY VARIABLE.

IT ONLY USE WHEN YOU USE DO LOOP BECAUSE IF YOU DO NOT KNOW HOW MANY VARIABLES/ELEMENTS PRESENT INSIDE AN ARRAY YOU
         IT IS THE ENDING PART OF DO LOOP. */
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