```
LIBNAME SSN8 '/home/debendra330/BATCH 202401/SESSION 8/A3.SAS DATASET';
/* HOW TO CREATE A MACRO */
/* MACRO NAME CRITERIA */
/* HOW TO DEFINE A SAS MACRO VARIABLE USING %LET */
/st HOW TO DENOTE A MACRO AND MACRO VARIABLE IN THE PROGRAM st/
/* DOES MACRO NAME AND VARIABLE NAME AND VALUES ARE CASE SENSITIVE */
/* DEFINING MACRO VARIABLES USING PARAMATERS (POSITIONAL AND KEYWORD) */
/* DEFINING MACRO VARIABLE USING %GLOBAL STATEMENT */
/* DEFINING MACRO VARIABLE USING %LOCAL STATEMENT */
/* DEFINING MACRO VARIABLE USING PROC SQL INTO */
/* DEFINING MACRO VARIABLE USING %DO LOOP */
/* DEFINING MACRO VARIABLE USING CALL SYMPUT */
/* SAS MACRO DEBUGGING OPTIONS */
/* HOW TO STORE SAS MACRO TO A PERMANENT LIBRARY */
/* USE OF %INCLUDE */
/* HOW TO SEE ALL THE USER DEFINED MACRO VARIABLES IN THE SAME PROGRAM */
/* HOW TO MAKE SAS MACRO PROGRAM CONDITIONALLY CALL USING %IF %THEN */
/* HOW TO DO SAS MACRO SCHEDULING */
/* SAS MACRO FUNCTIONS BY EXAMPLES */
/* SAS PROGRAMMING TO READ BATCH FILES IN EXCEL, CSV AND TXT FORMAT */
/* HOW TO CREATE A MACRO */
/* ======= */
DATA SSN8.STAFF;
INFILE '/home/debendra330/BATCH 202401/SESSION 8/A1.RAW DATA/a1.EMPLIST FM.txt';
INPUT LAST NAME $ 1-20 FIRST NAME $ 21-30 EMP CODE $ 31-35 JOBTITLE $ 36-43 DOJ SALARY 54-59;
INFORMAT DOJ MMDDYY8.;
FORMAT DOJ MMDDYY10.;
RUN;
PROC PRINT DATA=SSN8.STAFF;
RUN:
%MACRO CREATE_STAFF_DATASET;
DATA SSN8.STAFF:
INFILE '/home/debendra330/BATCH 202401/SESSION 8/A1.RAW DATA/a1.EMPLIST FM.txt';
INPUT LAST NAME $ 1-20 FIRST NAME $ 21-30 EMP CODE $ 31-35 JOBTITLE $ 36-43 DOJ SALARY 54-59;
INFORMAT DOJ MMDDYY8.;
FORMAT DOJ MMDDYY10.;
RUN;
PROC PRINT DATA=SSN8.STAFF;
RUN;
%MEND:
%CREATE_STAFF_DATASET;
%MACRO CALL_DATASET;
PROC PRINT DATA=SASHELP.CLASS;
RUN;
%MEND:
%CALL_DATASET;
/* HOW DOES A MACRO STARTS AND ENDS? */
/* MACRO STARTS WITH %MACRO STATEMENT */
/* MACRO ENDS WITH %MEND */
/* MACRO NAME CRITERIA */
/* ======= */
/* 1. IT SHOULD NOT BE MORE THAN 32 CHARACTERS LONG */
/* 2. IT MUST START WITH AN ALPHABET OR AN UNDERSCORE ONLY */
/* 3. IT MUST FOLLOW WITH AN UNDERSCORE, ALPHABET AND NUMBERS ONLY */
/* HOW TO DEFINE A SAS MACRO VARIABLE USING %LET */
/* =========== */
```

```
PROC PRINT DATA=SSN8.STAFF;
RUN;
PROC PRINT DATA=SSN8.STAFF;
VAR LAST NAME FIRST NAME JOBTITLE SALARY;
RUN:
PROC PRINT DATA=SSN8.STAFF;
VAR LAST_NAME FIRST_NAME JOBTITLE SALARY;
WHERE JOBTITLE='Mechanic';
RUN;
%LET KEEP VAR=LAST NAME JOBTITLE SALARY;
%LET JBTL=Pilot:
PROC PRINT DATA=SSN8.STAFF;
VAR &KEEP_VAR.;
WHERE JOBTITLE="&JBTL.";
RUN;
/* WE USED %LET TO DEFINE MACRI VARIABLES */
/* AS */
/* 1. KEEP VAR */
/* 2. JOBTL */
/st THOSE MACRO VARIABLES CAN BE DENOTED IN THE PROG BY PRECEDED BY & SYMBOL st/
/* HOW TO DENOTE A MACRO AND MACRO VARIABLE IN THE PROGRAM */
/* =========== */
OPTIONS VALIDVARNAME=V7;
PROC IMPORT OUT=SSN8.MED 2024
           DATAFILE='/home/debendra330/BATCH 202401/SESSION 8/A1.RAW DATA/a1.MED STORE 2022.xlsx'
           DBMS=XLSX REPLACE;
RUN;
DATA MED_SELECT;
SET SSN8.MED 2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY='APPOLO' AND GENDER='Female' AND AGE >= 60 AND STATE CODE='NSW';
RUN:
%LET VAR_LIST=CUSTOMER_ID COMPANY GENDER AGE STATE CODE SPENT_AMOUNT;
%LET COMP=APPOLO;
%LET GEN=Female;
%LET AG=60;
%LET STCD=NSW;
DATA MED_SELECT;
SET SSN8.MED_2024;
KEEP &VAR_LIST.;
WHERE COMPANY="&COMP." AND GENDER="&GEN." AND AGE >= &AG. AND STATE_CODE="&STCD.";
RUN:
%LET VAR_LIST=CUSTOMER_ID COMPANY GENDER AGE STATE_CODE TOWN NO_OF_TRIPS SPENT_AMOUNT;
%LET COMP=CIPLA;
%LET GEN=Male;
%LET AG=40;
%LET STCD=QLD;
DATA MED SELECT;
SET SSN8.MED 2024;
KEEP &VAR LIST.;
WHERE COMPANY="&COMP." AND GENDER="&GEN." AND AGE >= &AG. AND STATE CODE="&STCD.";
RUN;
/* IN THIS PROGRAM WE HAVE CALLED 5 MACRO VARIABLES */
/* 1. &VAR_LIST. */
/* 2. &COMP. */
/* 3. &GEN. */
/* 4. &AG. */
/* 5. &STCD. */
/* DOES MACRO NAME AND VARIABLE NAME AND VALUES ARE CASE SENSITIVE */
/* =========== */
%MACRO CREATE_STAFF_DATASET;
```

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*/

```
DATA SSN8.STAFF;
INFILE '/home/debendra330/BATCH 202401/SESSION 8/A1.RAW DATA/a1.EMPLIST FM.txt';
INPUT LAST_NAME $ 1-20 FIRST_NAME $ 21-30 EMP_CODE $ 31-35 JOBTITLE $ 36-43 DOJ SALARY 54-59;
INFORMAT DOJ MMDDYY8.;
FORMAT DOJ MMDDYY10.;
RUN;
PROC PRINT DATA=SSN8.STAFF;
RUN;
%MEND;
%Create staff DATASET;
/* SAS MACRO NAME IS NOT CASE SENSITIVE */
%LET VAR_LIST=CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
%LET COMP=APPOLO;
%LET GEN=Female;
%LET AG=60;
%LET STCD=NSW;
DATA MED_SELECT;
SET SSN8.MED 2024;
KEEP &var_list.;
WHERE COMPANY="&COMP." AND GENDER="&GEN." AND AGE >= &ag. AND STATE CODE="&STcd.";
RUN:
/* MACRO VARIABLES NAME ARE NOT CASE SENSITIVE */
%LET VAR LIST=CUSTOMER ID COMPANY GENDER AGE STATE CODE SPENT AMOUNT;
%LET COMP=appolo;
%LET GEN=Female;
%LET AG=60;
%LET STCD=NSW;
DATA MED SELECT;
SET SSN8.MED_2024;
KEEP &var list.;
WHERE COMPANY="&COMP." AND GENDER="&GEN." AND AGE >= &ag. AND STATE_CODE="&STcd.";
RUN;
/* MACRO VARIABLE VALUES ARE CASE SENSITIVE */
%LET VAR LIST=CUSTOMER ID COMPANY GENDER AGE STATE CODE SPENT AMOUNT;
%LET COMP="APPOLO","CIPLA","GENO","RELEGARE";
%LET GEN=Female;
%LET AG=60;
%LET STCD="NSW","WA","QLD","SA";
DATA MED SELECT;
SET SSN8.MED 2024;
KEEP &var_list.;
WHERE COMPANY IN (&COMP.) AND GENDER="&GEN." AND AGE >= &AG. AND STATE_CODE IN (&STCD.);
RUN;
/* TEST */
OPTIONS VALIDVARNAME=V7;
PROC IMPORT OUT=SSN8.GLOBAL_SALES
            DATAFILE='/home/debendra330/BATCH 202401/SESSION 8/A1.RAW DATA/a2.GLOBAL SALES 2022.xlsx'
            DBMS=XLSX REPLACE;
RUN;
PROC CONTENTS DATA=SSN8.GLOBAL_SALES VARNUM SHORT;
RUN;
Row_ID Order_ID Country Order_Date Order_Year
Order_Month Ship_Date Days_Gap Ship_Mode
Customer_ID Customer_Name Segment City
State Country_1 Postal_Code Market Region
Product_ID Category Sub_Category Product_Name Sales
Quantity Discount Discount_Amount Sales_After_Discount
Profit Shipping_Cost Order_Priority
```

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Code: SESSION 8 CODE.sas

```
/* CREATE A DATASET WITH THE LIST OF VARIABLES AS */
/* Row_ID */
/* Order_ID */
/* Country */
/* Customer_ID */
/* Segment */
/* Product_ID */
/* Product_Name */
/* Sales */
/* Quantity */
/* Order_Priority */
%LET LIST VARS=Row ID Order ID Country Customer ID Segment Product ID Product Name Sales Quantity Order Priority;
%LET SEG=Consumer;
%LET LOCATION=US;
DATA GLOBAL SALES;
SET SSN8.GLOBAL_SALES;
KEEP &LIST_VARS.;
WHERE SEGMENT="&SEG." AND COUNTRY="&LOCATION.";
RUN;
/* DEFINING MACRO VARIABLES USING PARAMATERS (POSITIONAL AND KEYWORD) */
/* =========== */
DATA MED_APPOLO;
SET SSN8.MED_2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY='APPOLO' AND GENDER='Female' AND AGE >= 50 AND STATE_CODE='NSW';
RUN;
DATA MED_CIPLA;
SET SSN8.MED 2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY='CIPLA' AND GENDER='Male' AND AGE >= 60 AND STATE CODE='WA';
RUN;
DATA MED_GENO;
SET SSN8.MED 2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY='GENO' AND GENDER='Female' AND AGE >= 50 AND STATE CODE='QLD';
RUN:
/st FROM THE ABOVE PROGRAM , WE CAN SEE IT IS REDUNDANT IN NATURE st/
/* FOR */
/* DATASETS NAME */
/* COMPANY VALUES */
/* GENDER VALUES */
/* AGE VALUES */
/* STATE_CODE VALUES */
/* TO AUTOMATE THIS PROCESS */
/* CREATE MACRO VARIABLES USING POSITIONAL PARAMATERS */
/* DEFINING MACRO VARIABLES USING POSITIONAL PARAMATER */
%MACRO MAC1 (COMP_NAME,COMP_VAL,GEN_VAL,AGE_VAL,STCD_VAL);
DATA MED_&COMP_NAME.;
SET SSN8.MED_2024;
KEEP CUSTOMER ID COMPANY GENDER AGE STATE CODE SPENT AMOUNT;
WHERE COMPANY="&COMP_VAL." AND GENDER="&GEN_VAL." AND AGE >= &AGE_VAL. AND STATE_CODE="&STCD_VAL.";
RUN:
%MEND;
/* CALL MACRO USING PASSING PARAMATER VALUES */
%MAC1 (RELEGARE, RELEGARE, Male, 50, WA);
%MAC1 (CIPLA, CIPLA, Male, 50, QLD);
%MAC1 (MED_PLUS, MED_PLUS, Female, 60, NSW);
/* DEFINING MACRO VARIABLES USING KEYWORD PARAMATER */
%MACRO MAC2 (COMP_NAME=,COMP_VAL=,GEN_VAL=,AGE_VAL=,STCD_VAL=);
DATA MED_&COMP_NAME.;
SET SSN8.MED 2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY="&COMP_VAL." AND GENDER="&GEN_VAL." AND AGE >= &AGE_VAL. AND STATE_CODE="&STCD_VAL.";
RUN;
%MEND;
```

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```
%MAC2 (COMP NAME=APPOLO, COMP VAL=APPOLO, GEN VAL=Male, AGE VAL=60, STCD VAL=NSW);
%MAC2 (COMP NAME=RELEGARE, COMP VAL=RELEGARE, GEN VAL=Male, AGE VAL=60, STCD VAL=WA);
/* WE CAN INTERCHANGE THE MACXRO KEYWORD PAPAMETER VARIABLES */
%MAC2 (AGE_VAL=60,COMP_NAME=RELEGARE,GEN_VAL=Male,STCD_VAL=WA,COMP_VAL=RELEGARE);
/* CAN WE HAVE BOTH POSITIONAL AND KEYWORD PARAMTER TOGETHER */
/* ======== */
%MACRO MAC3 (COMP_NAME,COMP_VAL,GEN_VAL,AGE_VAL=,STCD_VAL=);
DATA MED &COMP NAME.;
SET SSN8.MED 2024;
KEEP CUSTOMER ID COMPANY GENDER AGE STATE CODE SPENT AMOUNT;
WHERE COMPANY="&COMP_VAL." AND GENDER="&GEN_VAL." AND AGE >= &AGE_VAL. AND STATE_CODE="&STCD_VAL.";
RUN;
%MEND:
%MAC3 (GSK,GSK,Female,AGE_VAL=50,STCD_VAL=ACT);
/* WE CAN USE BOTH POSITIONAL AND KEYWORD PARAMETERS TOGETHER. HOWEVER, IT MUST START WITH POSITIONAL PARAMETERS */
/* DEFINING MACRO VARIABLE USING %GLOBAL STATEMENT */
/* ========= */
%LET COMP_VAL=APPOLO;
DATA MED_SELECT;
SET SSN8.MED_2024;
KEEP CUSTOMER ID COMPANY GENDER AGE STATE CODE SPENT AMOUNT;
WHERE COMPANY="&COMP_VAL.";
RUN;
%MACRO MAC4;
%GLOBAL COMP;
%LET COMP=&COMP_VAL.;
DATA MED_SELECT;
SET SSN8.MED 2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY="&COMP.";
RUN:
%MEND;
%MAC4;
%MACRO MAC4;
%GLOBAL COMP;
%LET COMP=CIPLA;
DATA MED_SELECT;
SET SSN8.MED 2024;
KEEP CUSTOMER ID COMPANY GENDER AGE STATE CODE SPENT AMOUNT;
WHERE COMPANY="&COMP.";
RUN:
%MEND;
%MAC4;
DATA MED SELECT;
SET SSN8.MED_2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY="&COMP.";
RUN;
/* ANY MACRO VARIABLE DEFINED USING %GLOBAL IS CALLED A GLOBAL MACRO VARIABLE */
/* BENEFIT OF HAVING GLOBAL MACRO VARIABLE IS THAT , IT CAN BE CALLED WITHIN THE MACRO AND OUTSIDE THE MACRO */
/* DEFINING MACRO VARIABLE USING %LOCAL STATEMENT */
/* =========== */
%LET COMP_VAL=APPOLO;
DATA MED SELECT;
SET SSN8.MED 2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY="&COMP_VAL.";
RUN;
```

```
%MACRO MAC5 (COMP VAL);
%LOCAL COMP_LOCAL;
%LET COMP_LOCAL=&COMP_VAL.;
DATA MED_SELECT;
SET SSN8.MED 2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY="&COMP_LOCAL.";
RUN:
%MEND;
%MAC5 (GSK);
DATA MED_SELECT;
SET SSN8.MED 2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY="&COMP_LOCAL.";
RUN;
/* %LOCAL MACRO VARIABLE IS A LOCCAL MACRO VARIABLE AND IT CAN NOT CALLED OUTSIDE THE MACRO PROGRAM */
/* TEST */
%LET MED COMP=GSK;
DATA MED NEW;
SET SSN8.MED_2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY="&MED_COMP.";
RUN;
%MACRO MAC6;
%GLOBAL MED COMP;
%LET MED COMP=RELEGARE;
DATA MED_NEW;
SET SSN8.MED_2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY="&MED COMP.";
RUN;
%MEND;
%MAC6;
DATA MED NEW;
SET SSN8.MED_2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY="&MED_COMP.";
RUN;
/* %LOCAL TEST */
%LET MED_COMP=GSK;
DATA MED NEW;
SET SSN8.MED_2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY="&MED_COMP.";
RUN;
%MACRO MAC7 (COMP);
%LOCAL MED_COMP;
%LET MED COMP=&COMP.;
DATA MED_NEW;
SET SSN8.MED_2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY="&MED_COMP.";
RUN;
%MEND;
%MAC7 (APPOLO);
DATA MED_NEW;
SET SSN8.MED_2024;
KEEP CUSTOMER ID COMPANY GENDER AGE STATE CODE SPENT AMOUNT;
WHERE COMPANY="&MED_COMP.";
RUN;
```

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Code: SESSION 8 CODE.sas

```
/* EXAMPLE */
%LET STCD=NSW;
DATA MED_SELECT;
SET SSN8.MED 2024;
KEEP CUSTOMER_ID COMPANY GENDER STATE_CODE;
WHERE STATE_CODE="&STCD.";
RUN;
%MACRO MAC7;
%GLOBAL STCD;
%LET STCD=QLD;
DATA MED SELECT;
SET SSN8.MED_2024;
KEEP CUSTOMER ID COMPANY GENDER STATE CODE;
WHERE STATE_CODE="&STCD.";
RUN;
%MEND;
%MAC7;
DATA MED_SELECT;
SET SSN8.MED 2024;
KEEP CUSTOMER_ID COMPANY GENDER STATE_CODE;
WHERE STATE CODE="&STCD.";
RUN;
/* %GLOBAL IS ALWAYS A GLOBAL MACRO VARIABLE */
%LET STCD=NSW;
DATA MED_SELECT;
SET SSN8.MED_2024;
KEEP CUSTOMER ID COMPANY GENDER STATE CODE;
WHERE STATE CODE="&STCD.";
RUN;
%MACRO MAC8 (STCD_VAL);
%LOCAL STCD;
%LET STCD=&STCD_VAL.;
DATA MED_SELECT;
SET SSN8.MED_2024;
KEEP CUSTOMER_ID COMPANY GENDER STATE_CODE;
WHERE STATE_CODE="&STCD.";
RUN;
%MEND;
%MAC8 (WA);
DATA MED_SELECT;
SET SSN8.MED_2024;
KEEP CUSTOMER_ID COMPANY GENDER STATE_CODE;
WHERE STATE_CODE="&STCD.";
RUN;
/* %LOCAL MACRO VARIABLE IS CALLED WITHIN THE MACRO ONLY */
/* DEFINING MACRO VARIABLE USING PROC SQL INTO */
/* ======== */
PROC SQL;
SELECT DISTINCT COMPANY FROM SSN8.MED_2024;
QUIT;
/* LETS STORE ALL THE UNIQUE VALUES TO MACRO VARIABLE VALUES */
PROC SQL;
SELECT DISTINCT COMPANY
       INTO :COMP1 - :COMP9
FROM SSN8.MED_2024;
QUIT;
%PUT &COMP1.;
%PUT &COMP2.;
%PUT &COMP9.;
```

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```
DATA MED &COMP1.;
SET SSN8.MED_2024;
KEEP CUSTOMER ID COMPANY GENDER STATE CODE;
WHERE COMPANY="&COMP1.";
RUN;
DATA MED &COMP9.;
SET SSN8.MED_2024;
KEEP CUSTOMER ID COMPANY GENDER STATE CODE;
WHERE COMPANY="&COMP9.";
RUN;
PROC SQL;
CREATE TABLE MED_&COMP1.
SELECT
CUSTOMER ID,
COMPANY,
GENDER,
AGE,
STATE CODE,
SPENT_AMOUNT
FROM SSN8.MED 2024
WHERE COMPANY="&COMP1.";
QUIT;
PROC SQL;
CREATE TABLE MED_&COMP2.
AS
SELECT
CUSTOMER ID,
COMPANY,
GENDER,
AGE,
STATE_CODE,
SPENT_AMOUNT
FROM SSN8.MED 2024
WHERE COMPANY="&COMP2.";
QUIT;
%MACRO HAHAHA;
%DO I=1 %TO 9;
PROC SQL;
CREATE TABLE MED_&&COMP&I.
AS
SELECT
CUSTOMER_ID,
COMPANY,
GENDER,
AGE,
STATE_CODE,
SPENT_AMOUNT
FROM SSN8.MED 2024
WHERE COMPANY="&&COMP&I.";
QUIT;
%END;
%MEND;
%НАНАНА;
/* CRAETE MULTIPLE DATASETS USING BASE SAS PROGRAMMING */
DATA MED AUS &COMP1.;
SET SSN8.MED_2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY="&COMP1.";
RUN;
DATA MED_AUS_&COMP9.;
SET SSN8.MED_2024;
KEEP CUSTOMER ID COMPANY GENDER AGE STATE CODE SPENT AMOUNT;
WHERE COMPANY="&COMP9.";
RUN;
DATA MED_AUS_APPOLO MED_AUS_CIPLA MED_AUS_GENO MED_AUS_OTHERS;
SET SSN8.MED_2024;
```

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```
KEEP CUSTOMER ID COMPANY GENDER AGE STATE CODE SPENT AMOUNT;
IF COMPANY='APPOLO' THEN OUTPUT MED_AUS_APPOLO;
ELSE IF COMPANY='CIPLA' THEN OUTPUT MED_AUS_CIPLA;
ELSE IF COMPANY='GENO' THEN OUTPUT MED_AUS_GENO;
ELSE OUTPUT MED AUS OTHERS;
RUN;
%MACRO ALL_DATASET;
DATA %DO I=1 %TO 9;
     MED AUS &&COMP&I.
     %END;;
SET SSN8.MED 2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
%DO I=1 %TO 9;
IF COMPANY="&&COMP&I." THEN OUTPUT MED_AUS_&&COMP&I.;
%END;
RUN;
%MEND;
%ALL_DATASET;
/* TEST */
/* CREATE ALL STATEMES INDIVIDUAL DATASET */
PROC SQL;
SELECT DISTINCT STATE_CODE FROM SSN8.MED_2024;
QUIT;
PROC SQL;
SELECT DISTINCT STATE_CODE
INTO :STCD1 - :STCD7
FROM SSN8.MED_2024;
QUIT;
%PUT &STCD1.;
%PUT &STCD7.;
%MACRO BABABA;
%DO I=1 %TO 7;
PROC SQL;
CREATE TABLE MED_&&STCD&I.
AS
SELECT
CUSTOMER ID,
COMPANY,
GENDER,
AGE,
STATE CODE,
SPENT_AMOUNT
FROM SSN8.MED_2024
WHERE STATE_CODE="&&STCD&I.";
QUIT;
%END;
%MEND;
%BABABA;
%MACRO ALL_DATASET;
DATA %DO I=1 %TO 7;
     MED_AUS_&&STCD&I.
     %END;;
SET SSN8.MED_2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
%DO I=1 %TO 7;
IF STATE_CODE="&&STCD&I." THEN OUTPUT MED_AUS_&&STCD&I.;
%END;
RUN;
%MEND;
```

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Code: SESSION 8 CODE.sas

```
%ALL_DATASET;
/* PRACTICAL */
/* ======= */
OPTIONS VALIDVARNAME=V7;
PROC IMPORT OUT=MED_APPOLO
            DATAFILE='/home/debendra330/BATCH_202401/SESSION_8/A1.RAW_DATA/a3.MED_ALL_2023.xlsx'
            DBMS=XLSX REPLACE;
            SHEET='APPOLO';
RUN;
OPTIONS VALIDVARNAME=V7;
PROC IMPORT OUT=MED_CIPLA
            DATAFILE='/home/debendra330/BATCH 202401/SESSION 8/A1.RAW DATA/a3.MED ALL 2023.xlsx'
            DBMS=XLSX REPLACE;
            SHEET='CIPLA';
RUN;
OPTIONS VALIDVARNAME=V7;
PROC IMPORT OUT=MED GENO
            DATAFILE='/home/debendra330/BATCH_202401/SESSION_8/A1.RAW_DATA/a3.MED_ALL_2023.xlsx'
            DBMS=XLSX REPLACE;
            SHEET='GENO';
RUN;
%PUT &COMP1.;
%PUT &COMP2.;
%PUT &COMP3.;
%PUT &COMP4.;
%PUT &COMP5.;
%PUT &COMP6.;
%PUT &COMP7.;
%PUT &COMP8.;
%PUT &COMP9.;
%MACRO IMPORT_ALL;
%DO I=1 %TO 9;
OPTIONS VALIDVARNAME=V7;
PROC IMPORT OUT=MED_&&COMP&I.
            DATAFILE='/home/debendra330/BATCH_202401/SESSION_8/A1.RAW_DATA/a3.MED_ALL_2023.xlsx'
            DBMS=XLSX REPLACE;
            SHEET="&&COMP&I.";
RUN;
%END;
%MEND;
%IMPORT_ALL;
/* WHY WE USE && */
%LET COMP1=APPOLO;
%LET N=1;
%PUT &&COMP&N.;
%LET NAME1=SWETA;
%LET NAME2=RAVI;
%LET N=2;
%PUT &&NAME&N.;
```

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