```
/* CREATE A TABLE */
 data mylib.first data;
 input employee $6. salary;
 datalines;
 sammer 1232
rohan 2343
raka 5634
raj
      2343
james 2536
;
run;
/* HOW TO IMPORT EXCEL FILE IN SAS */
PROC IMPORT DATAFILE="/home/u63730693/my_sas/D_1.xlsx"
                out=catt
                dbms=xlsx replace;
                sheet="Sheet1";
run;
/* HOW TO READ FROM LIBRARY DATSET */
 data test;
 set mylib.first_data;
run;
PROC IMPORT DATAFILE = "/home/u63730693/my_sas/D_1.xlsx"
                OUT=ORD DTA
                DBMS=xlsx replace;
                sheet= "Sheet2";
run;
/* HOW TO CREATE A VARIABLE */
data test;
 set work.ord_dta;
price = qant*5;
run;
/* HOW TO RENAME A VARIABLE */
DATA TEST;
SET WORK.ORD DTA;
RENAME QANT=QTY;
RUN;
/* HOW TO DROP A VARIABLE */
DATA TEXT;
SET WORK.ORD_DTA;
DROP PRODUCT_ID;
RUN;
```

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```
/* HOW TO FILTER DATA: */
DATA TEST;
SET WORK.CATT;
WHERE SALARY>5000;
RUN;
PROC IMPORT DATAFILE = "/home/u63730693/my_sas/D_1.xlsx"
                OUT=CUST
                DBMS=xlsx replace;
                sheet= "Sheet3";
/* IF THEN ELSE CONDITION : */
/* A. IF THEN: */
DATA TEST;
SET WORK.CUST;
IF SALARY < 2500 THEN CATEGORY="BELOW AVG";
ELSE CATEGORY="ABOVE AVG";
RUN;
/* B. IF THEN ELSE IF THEN ELSE */
DATA TEST;
SET WORK.CUST;
IF SALARY < 2500 THEN CATEG="BELOW AVG";</pre>
ELSE IF SALARY >= 2500 AND SALARY < 5000 THEN CATEG="PREMIUM";
ELSE CATEG="ELITE";
RUN;
/* DATA SET OPTIONS: */
/* KEEPS: */
/* BELOW CODE GIVE ALL THE OBSERVATIONS WITH ALL THE VARIABLES. */
DATA KEEPS:
SET SASHELP.CARS;
RUN;
/* IT ONLY GIVE ALL THE OBSERVATIONS WITH SPECIFIC VARIABLES THAT YOU WOULD LIKE TO GET. */
DATA KEEPS (KEEP=MODEL TYPE MSRP);
SET SASHELP.CARS;
RUN;
/* OTHER WAY TO DO THIS. */
DATA KEEPS;
SET SASHELP.CARS (KEEP=MODEL TYPE MSRP);
RUN;
```

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/* IT ORDERS THE OBSERVATIONS IN DATA/TABLE IN */

/* ONE OR MORE CHARACTER/NUMERIC VARIABLES/COLUMNS. */

/* INCREASING/DECREASING ORDER BY */

```
PROC SORT DATA=WORK.CUST;
BY COUNTRY;
RUN;
PROC SORT DATA=WORK.CUST;
BY COUNTRY;
BY SALARY;
RUN;
/* OTHER WAY */
PROC SORT DATA=WORK.CUST;
BY COUNTRY SALARY;
RUN;
/* OPTIONS: */
/* OUT: */
PROC SORT DATA=WORK.CUST OUT=SORTED;
BY COUNTRY SALARY;
RUN;
/* DESCENDING: */
PROC SORT DATA=WORK.CUST OUT=SORTED;
BY DESCENDING COUNTRY SALARY;
RUN;
/* NODUPKEY: */
/* REMOVE THE DUPLICATES BASICS OF ONE COLUMN. */
PROC SORT DATA=WORK.CUST NODUPKEY OUT=SORTED;
BY COUNTRY;
RUN;
/* NODUP: */
/* DELETE OBSERVATIONS WITH COMMON VALUES IN ALL THE VARIABLES. */
PROC SORT DATA=WORK.CUST NODUP OUT=SORTED;
BY COUNTRY;
RUN;
/* OTHER CRITERIA: */
PROC SORT DATA=WORK.CUST NODUP OUT=SORTED;
BY _ALL_;
RUN;
/* DUPOUT: */
PROC SORT DATA=WORK.CUST NODUP OUT=SORTED DUPOUT=DUP ;
BY _ALL_;
RUN;
```

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```
/* PROC FREQUENCY: */
/* COUNT THE FREQUENCY. */
PROC FREQ DATA=WORK.CUST;
TABLES COUNTRY;
RUN;
/* IF YOU WANT FREQUNCY VARIABLE ONLY. */
PROC FREQ DATA=WORK.CUST;
TABLES COUNTRY/NOPERCENT NOCUM;
RUN:
PROC IMPORT DATAFILE = "/home/u63730693/my_sas/D_1.xlsx"
                OUT=CUSTt
                DBMS=xlsx replace;
                sheet= "Sheet3";
/* TWO DIMENSIONAL FREQUNCY REPORT: */
PROC FREQ DATA=WORK.CUSTt;
TABLES CITY * COUNTRY/NOPERCENT NOROW NOCOL;
RUN;
/* CONDITIONAL FREQUENCY: */
PROC FREO DATA=WORK.CUSTt;
TABLES CITY * COUNTRY/NOPERCENT NOROW NOCOL;
WHERE SALARY >=2000;
RUN;
/* PROC TRANSPOSE: */
/* IT TRANSFORMATION FROM OBSERVATIONS TO VARIABLES AND VICE VERSA. */
/* THE DATASET SHOULD BE UNIQUE.
SO FIRST REMOVE THE DUPLICATE DATA. */
/* FIRST SORT THE TABLE: */
PROC SORT DATA=WORK.CUSTT NODUPKEY OUT=TRANSP;
BY CITY COUNTRY;
RUN;
/* THEN DO THIS BELOW STEP: */
PROC TRANSPOSE DATA=TRANSP PREFIX=TRANS_ OUT=TARNS(DROP=_:);
BY CITY;
ID COUNTRY;
VAR SALARY;
RUN;
```

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