```
LIBNAME SSN2 '/home/debendra330/BATCH 202404/SESSION 2/A3.SAS DATASET';
/* READING DATA FROM EXCEL */
OPTIONS VALIDVARNAME=V7;
PROC IMPORT OUT=SSN2.MED 2024
           DATAFILE='/home/debendra330/BATCH_202404/SESSION_2/A1.RAW_DATA/a1.MED_STORE_2021.xlsx'
           DBMS= XLSX REPLACE;
           SHEET='MED_AUS';
RUN;
/* USING SET STATEMENT TO CREATE A NEW DATASET FROM EXISTING DATASET */
DATA MED AUS;
SET SSN2.MED 2024;
RUN:
PROC PRINT DATA=MED AUS;
RUN;
/* SAS PROGRAMMING STEP */
_____
/* 1. DATA STEP */
/* 2. PROC STEP */
/* 1. DATA STEP - TO CREATE DATASETS. STARTS WITH DATA STATEMENT AND ENDS WITH RUN */
DATA SSN2.STAFF;
INFILE '/home/debendra330/BATCH_202404/SESSION_2/A1.RAW_DATA/a2.EMPLIST.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 MMDDYY8.;
RUN;
/* 2. PROC STEP - IT CAN BE USED TO PRINT DATA, OR CREATE SUMMARIZED REPORTS */
PROC PRINT DATA=SSN2.STAFF;
RUN;
/* KEEP AS A STATEMENT AND AS AN OPTION */
_____
/* KEEP AS A STATEMENT */
DATA MED_V1;
SET SSN2.MED_2024;
KEEP CUSTOMER ID COMPANY GENDER AGE STATE CODE TOWN NO OF TRIPS SPENT AMOUNT;
RUN;
/* KEEP AS AN OPTION WITH DATA STATEMENT */
DATA MED V1 (KEEP=CUSTOMER ID COMPANY GENDER AGE STATE CODE TOWN NO OF TRIPS SPENT AMOUNT);
SET SSN2.MED 2024;
RUN;
/* KEEP AS AN OPTION WITH SET STATEMENT */
DATA MED V1;
SET SSN2.MED 2024 (KEEP=CUSTOMER ID COMPANY GENDER AGE STATE CODE TOWN NO OF TRIPS SPENT AMOUNT);
RUN;
/* INTERVIEW QUESTION : WHICH KEEP STATEMENT OR OPTION PROCESSES THE DATA FASTER */
/* 1. KEEP AS AN OPTION WITH SET STATEMENT IS FASTEST */
/* 2. KEEP AS AN OPTION WITH DATA STATEMENT */
/* 3. KEEP AS A STATEMENT */
/* DROP AS A STATEMENT AND AS AN OPTION */
______
```

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```
PROC PRINT DATA=SSN2.MED 2024;
/* DROP AS A STATEMENT */
DATA MED_V2;
SET SSN2.MED_2024;
DROP CARD_REG_DATE FIRST_USE_DTE;
/* DROP AS AN OPTION WITH DATA STATEMENT */
DATA MED V2 (DROP = CARD REG DATE FIRST USE DTE);
SET SSN2.MED 2024;
RUN;
/* DROP AS AN OPTION WITH SET STATEMENT */
DATA MED V2;
SET SSN2.MED 2024 (DROP=CARD REG DATE FIRST USE DTE);
RUN;
/* RENAME AS A STATEMENT AND AS AN OPTION */
______
PROC PRINT DATA=SSN2.STAFF;
RUN;
/* RENAME AS A STATEMENT */
DATA STAFF_NEW;
SET SSN2.STAFF;
RENAME LAST_NAME=SURNAME FIRST_NAME=FNAME EMP_CODE=EMP_ID JOBTITLE=DESIGNATION;
/* WHEN WE USE RENAME, IT PERMANENTLY CHANGES THE NAME OF THE COLUMN */
/* RENAME AS AN OPTION WITH DATA STATEMENT */
DATA STAFF_NEW (RENAME=(LAST_NAME=SURNAME FIRST_NAME=FNAME EMP_CODE=EMP_ID JOBTITLE=DESIGNATION));
SET SSN2.STAFF;
RUN:
/* RENAME AS AN OPTION WITH SET STATEMENT */
DATA STAFF_NEW;
SET SSN2.STAFF (RENAME=(LAST_NAME=SURNAME FIRST_NAME=FNAME EMP_CODE=EMP_ID JOBTITLE=DESIGNATION));
RUN;
/* LABEL AS A STATEMENT AS AND AS AN OPTION */
______
DATA STAFF NEW;
SET SSN2.STAFF;
LABEL LAST NAME = 'LAST NAME OF EMPLOYEE'
     FIRST NAME = 'FIRST NAME OF EMPLOYEE'
     EMP CODE= 'UNIQUE EMPLOYEE CODE'
     JOBTITLE= 'DESIGNATION OF EMPLOYEE'
     DOJ = 'DATE OF JOINING FOR EMPLOYEE';
RUN;
PROC CONTENTS DATA=STAFF_NEW VARNUM;
RUN;
/* LABEL AS AN OPTION */
DATA STAFF_NEW (LABEL=(LAST_NAME = 'LAST NAME OF EMPLOYEE'
     FIRST NAME = 'FIRST NAME OF EMPLOYEE'
     EMP CODE= 'UNIQUE EMPLOYEE CODE'
     JOBTITLE= 'DESIGNATION OF EMPLOYEE'
     DOJ= 'DATE OF JOINING FOR EMPLOYEE'));
SET SSN2.STAFF;
RUN;
/* WE ARE NOT ALLOWED TO USE LABELS AS AN OPTION */
```

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```
/* WHERE AS A STATEMENT AND AS AN OPTION */
______
/* WHERE AS A STATEMENT */
DATA MED_ALL;
SET SSN2.MED_2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY='APPOLO' AND GENDER='Female';
RUN;
/* WHERE COMPANY='APPOLO' AND GENDER='Female'; */
/* OPERAND - COMPANY, GENDER */
/* OPERATOR - =, AND */
/* CONDITIONAL VALUE - 'APPOLO', 'Female' */
/* WHERE AS AN OPTION WITH DATA STATEMENT */
DATA MED_ALL (WHERE=(COMPANY='APPOLO' AND GENDER='Female'));
SET SSN2.MED 2024;
KEEP CUSTOMER ID COMPANY GENDER AGE STATE CODE SPENT AMOUNT;
RUN:
/* WHERE AS AN OPTION WITH SET STATEMENT */
DATA MED_ALL;
SET SSN2.MED 2024 (WHERE=(COMPANY='APPOLO' AND GENDER='Female'));
KEEP CUSTOMER ID COMPANY GENDER AGE STATE CODE SPENT AMOUNT;
RUN;
/* WHERE AS A STATEMENT WITH OPERATORS AND OPERANDS */
______
/* THERE ARE 4 TYPES OF OPERATORS */
/* 1. LOGICAL OPERATOR - AND, OR, NOT IN, IN */
/* 2. COMPARISION OPERATOR - >, <, >=, <=, =, <>, GT, GE, LT, LE, EQ, NE */
/* 3. SPECIAL OPERATORS - LIKE, BETWEEN */
/* 4. ARITHMETIC - +, -., *, / */
/* 1. LOGICAL OPERATORS */
DATA MED_ALL;
SET SSN2.MED 2024;
KEEP CUSTOMER ID COMPANY GENDER AGE STATE CODE SPENT AMOUNT;
WHERE COMPANY='APPOLO' AND GENDER='Female';
RUN;
DATA MED ALL;
SET SSN2.MED 2024;
KEEP CUSTOMER ID COMPANY GENDER AGE STATE CODE SPENT AMOUNT;
WHERE COMPANY='APPOLO' OR GENDER='Female';
RUN;
DATA MED ALL;
SET SSN2.MED 2024;
KEEP CUSTOMER ID COMPANY GENDER AGE STATE CODE SPENT AMOUNT;
WHERE COMPANY IN ('APPOLO', 'GSK', 'GENO') AND GENDER='Female';
RUN;
DATA MED_ALL;
SET SSN2.MED_2024;
KEEP CUSTOMER ID COMPANY GENDER AGE STATE CODE SPENT AMOUNT;
WHERE COMPANY NOT IN ('APPOLO', 'GSK', 'GENO') AND GENDER='Female';
RUN:
/* 2. COMPARISION OPERATOR */
DATA MED ALL;
SET SSN2.MED 2024;
KEEP CUSTOMER ID COMPANY GENDER AGE STATE CODE SPENT AMOUNT;
```

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```
WHERE COMPANY EQ 'APPOLO';
RUN;
DATA MED_ALL;
SET SSN2.MED_2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE COMPANY NE 'APPOLO';
RUN;
DATA MED_ALL;
SET SSN2.MED_2024;
KEEP CUSTOMER ID COMPANY GENDER AGE STATE CODE SPENT AMOUNT;
WHERE COMPANY EQ 'APPOLO' AND SPENT AMOUNT GE 1000;
RUN;
/* 3. SPECIAL OPERATORS */
DATA MED ALL;
SET SSN2.MED 2024;
KEEP CUSTOMER_ID COMPANY GENDER AGE STATE_CODE SPENT_AMOUNT;
WHERE AGE BETWEEN 30 AND 50;
RUN;
DATA MED_ALL;
SET SSN2.MED_2024;
KEEP CUSTOMER ID COMPANY GENDER AGE TOWN STATE CODE SPENT AMOUNT;
WHERE TOWN LIKE 'K%';
RUN;
DATA MED_ALL;
SET SSN2.MED_2024;
KEEP CUSTOMER ID COMPANY GENDER AGE TOWN STATE CODE SPENT AMOUNT;
WHERE TOWN LIKE '%K%';
RUN;
DATA MED_ALL;
SET SSN2.MED 2024;
KEEP CUSTOMER ID COMPANY GENDER AGE TOWN STATE CODE SPENT AMOUNT;
WHERE TOWN LIKE 'K____';
RUN;
/* 4. ARITHMETIC OPERATOR */
DATA SALES ALL;
INPUT PROD $ VALUE1 VALUE2;
ADDITION=VALUE1 + VALUE2;
SUBTRACTION=VALUE1-VALUE2;
MULTIPLICATION=VALUE1*VALUE2;
DIVISION=VALUE1/VALUE2;
CARDS;
APPLE 100 300
DELL 300 400
HP 200 800
LENOVO 800 100
RUN;
PROC PRINT;
RUN;
/* HOW TO SORT DATASETS IN SAS */
_____
DATA STU NAME;
INPUT NAME $20.;
CARDS;
AYASHKANT
ASHOK
ROHIT
```

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```
PROC PRINT;
RUN;

/* GET PRODUCT AND YEAR-WISE SALES AMOUNT IN DESCENDING */

PROC SORT DATA=SSN2.PROD_SALES;
BY PROD YEAR DESCENDING SALES;
RUN;

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```

```
PROC PRINT;
RUN;
/* GET CITY AND YEAR-WISE SALES AMOUNT IN DESCENDING */
PROC SORT DATA=SSN2.PROD_SALES;
BY CITY YEAR DESCENDING SALES;
RUN;
PROC PRINT;
RUN;
/* HOW TO COPY A SORTED DATASET TO ANOTHER DATASET */
PROC SORT DATA=SSN2.PROD SALES OUT=PROD SALES V1;
BY CITY YEAR DESCENDING SALES;
RUN:
PROC PRINT DATA=PROD_SALES_V1;
RUN;
/* MASTER DATASET = SSN2.PROD SALES */
/* COPY DATASET WITH SORTING = PROD_SALES_V1 */
/* EXAMPLE-1 */
PROC PRINT DATA=SSN2.STAFF;
RUN;
/* SORT THIS DATASET BY JOBTITLE AND DESCENDING SALARY.
SAVE THE SORTED DATASET IN ANOTHER DATASET */
PROC SORT DATA=SSN2.STAFF OUT=STAFF NEW V1;
BY JOBTITLE DESCENDING SALARY;
RUN;
PROC PRINT DATA=STAFF NEW V1;
RUN;
/* WE CAN ALSO USE PROC SORT TO REMOVE DUPLICATES IN A DATASET */
______
DATA STU_SCORE;
INFILE CARDS DLM='09'X;
INPUT STU NAME $ APPLICATION : $15. COMPANY : $15. SCORE;
CARDS;
HARSHA SAS INFOSYS 111
HARSHA PYTHON INFOSYS 388
HARSHA ML INFOSYS 392
HARSHA ML INFOSYS 392
SANJAY SAS INFOSYS 481
SANJAY PYTHON INFOSYS 814
SANJAY ML INFOSYS 175
SANJAY VISUALIZATION
                     INFOSYS 760
PREETHI SAS INFOSYS 785
PREETHI PYTHON INFOSYS 474
PREETHI PYTHON INFOSYS 474
PREETHI VISUALIZATION
                     INFOSYS 599
HARSHA SAS WIPRO
                 618
HARSHA SAS WIPRO
                 367
HARSHA ML WIPRO
                 531
HARSHA VISUALIZATION
                      WIPRO
                              688
SANJAY SAS WIPRO 637
SANJAY PYTHON WIPRO
                      125
SANJAY ML WIPRO 658
SANJAY VISUALIZATION
                      WIPRO
                              840
PREETHI SAS WIPRO 298
PREETHI PYTHON WIPRO
                      129
PREETHI VISUALIZATION
                     WIPRO
                              579
```

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```
PREETHI VISUALIZATION
                      WIPRO
                               578
RUN;
PROC PRINT DATA=STU_SCORE;
RUN;
PROC SORT DATA=STU_SCORE;
BY STU_NAME APPLICATION COMPANY;
RUN;
DATA STU SCORE V1;
SET STU SCORE;
RUN;
PROC SORT DATA=STU SCORE V1 NODUPKEY DUPOUT=STU SCORE V2;
BY STU NAME;
RUN;
/* NODUPKEY DOES NTO CONSIDER THE CORRESPONDING COLUMNS WHILE CHECKING FOR DUPLICATES */
DATA STU SCORE V1;
SET STU_SCORE;
RUN;
PROC PRINT;
RUN;
PROC SORT DATA=STU_SCORE_V1 NODUP DUPOUT=STU_SCORE_V2;
BY STU_NAME;
/* NODUP CONSIDERS ALL CORRESPONDING COLUMNS WHILE REMOVING DUPLICATES */
/* INTERVIEW QUESTION */
/* HOW CAN YOU USE NODUPKEY TO ENSURE ALL CORRESPONDING COLUMNS ARE CHECKED */
DATA STU SCORE V1;
SET STU SCORE;
RUN;
PROC SORT DATA=STU_SCORE_V1 NODUPKEY DUPOUT=STU_SCORE_V2;
BY STU_NAME APPLICATION COMPANY;
RUN;
/* THERE IS A PROC SORT REMOVE DUPLICATE DATASET IN YOUR RAW FOLDER */
/* TRY IT OUT */
/* WHAT IS LIST REPORT */
_____
PROC PRINT DATA=SSN2.STAFF;
RUN;
/* TO PRINT 1ST 10 OBS */
PROC PRINT DATA=SSN2.STAFF (OBS=10);
RUN;
/* TO PRINT FROM 5TH RECORD TO 10TH RECORD */
PROC PRINT DATA=SSN2.STAFF (FIRSTOBS=5 OBS=10);
RUN;
/* TO PRINT ONLY THE 10TH RECORD */
PROC PRINT DATA=SSN2.STAFF (FIRSTOBS=10 OBS=10);
RUN;
/* TO APPLY A FORMAT IN SALARY */
PROC PRINT DATA=SSN2.STAFF;
FORMAT SALARY DOLLAR15.;
```

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```
RUN;
/* IN PROC PRINT KEEP IS NOT ALLOWED. IT IS ALLOWED ONLY IN DATA STATEMENT */
/* TO PRINT SELECTED VARIABLES IN PROC PRINT, WE USE VAR */
PROC PRINT DATA=SSN2.STAFF;
VAR LAST_NAME FIRST_NAME JOBTITLE SALARY;
FORMAT SALARY DOLLAR15.;
RUN;
PROC PRINT DATA=SSN2.STAFF;
VAR LAST NAME FIRST NAME JOBTITLE SALARY;
FORMAT SALARY DOLLAR15.;
SUM SALARY;
RUN:
PROC SORT DATA=SSN2.STAFF;
BY JOBTITLE;
RUN;
PROC PRINT DATA=SSN2.STAFF;
VAR LAST_NAME FIRST_NAME JOBTITLE SALARY;
BY JOBTITLE;
FORMAT SALARY DOLLAR15.;
SUM SALARY;
RUN;
PROC PRINT DATA=SSN2.STAFF;
VAR LAST_NAME FIRST_NAME JOBTITLE SALARY;
BY JOBTITLE;
ID JOBTITLE;
FORMAT SALARY DOLLAR15.;
SUM SALARY;
RUN;
PROC PRINT DATA=SSN2.STAFF;
VAR LAST NAME FIRST NAME JOBTITLE SALARY;
BY JOBTITLE;
ID JOBTITLE;
FORMAT SALARY DOLLAR15.;
SUM SALARY;
TITLE 'EMPLOYEE SALARY REPORT';
FOOTNOTE 'DATA AS OF MAR 31ST';
RUN;
/* 1. VAR - TO KEEP ONLY SELECTED COLUMNS IN RESULTS WINDOW */
/* 2. BY - TO GROUP THE DATA INTO VARIOUS PARTS */
/* 3. ID - TO REPLACE NO OF OBS, AND SHOW GROUP NAME */
/* 4. FORMAT - TO ASSIGN CORRECT FORMAT TO DATA */
/* 5. SUM - TO SHOW SUMMATION OF THE GROUP IN THE OUTPUT */
/* 6. TITLE AND FOOTNOTE - TO ADD HEADER AND FOOTER IN OUTPUT */
/* WHAT IS ODS */
_____
/* ODS- OUTPUT DELIVERY SYSTEM */
ODS PDF FILE='/home/debendra330/BATCH_202404/SESSION_2/A4.SAS_OUTPUT/EMPLOYEE_SALARY_REPORT.pdf';
PROC PRINT DATA=SSN2.STAFF;
VAR LAST_NAME FIRST_NAME JOBTITLE SALARY;
BY JOBTITLE;
ID JOBTITLE;
FORMAT SALARY DOLLAR15.;
SUM SALARY;
TITLE 'EMPLOYEE SALARY REPORT';
FOOTNOTE 'DATA AS OF MAR 31ST';
RUN:
ODS PDF CLOSE;
```

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```
ODS RTF FILE='/home/debendra330/BATCH_202404/SESSION_2/A4.SAS_OUTPUT/EMPLOYEE_SALARY_REPORT.rtf';
PROC PRINT DATA=SSN2.STAFF;
VAR LAST_NAME FIRST_NAME JOBTITLE SALARY;
BY JOBTITLE;
ID JOBTITLE;
FORMAT SALARY DOLLAR15.;
SUM SALARY;
TITLE 'EMPLOYEE SALARY REPORT';
FOOTNOTE 'DATA AS OF MAR 31ST';
ODS RTF CLOSE;
ODS HTML FILE='/home/debendra330/BATCH 202404/SESSION 2/A4.SAS OUTPUT/EMPLOYEE SALARY REPORT.html';
PROC PRINT DATA=SSN2.STAFF;
VAR LAST NAME FIRST NAME JOBTITLE SALARY;
BY JOBTITLE;
ID JOBTITLE:
FORMAT SALARY DOLLAR15.;
SUM SALARY;
TITLE 'EMPLOYEE SALARY REPORT';
FOOTNOTE 'DATA AS OF MAR 31ST';
RUN;
ODS HTML CLOSE;
/* IF THEN STATEMENT AND IF THEN DO */
_____
PROC PRINT DATA= SSN2.MED_2024 (OBS=10);
RUN;
DATA MED SELECT;
SET SSN2.MED 2024;
KEEP CUSTOMER ID COMPANY AGE GENDER STATE CODE NO OF TRIPS SPENT AMOUNT;
RUN;
/* AGE BUCKET */
/* IF AGE >= 60 THEN 'OLD-AGE' */
/* IF AGE >= 50 THEN 'MID-OLD-AGE' */
/* IF AGE >= 40 THEN 'MID-AGE' */
/* IF AGE >= 30 THEN 'MID-YOUNG-AGE' */
/* ELSE 'YOUNG' */
DATA MED SELECT;
SET SSN2.MED 2024;
KEEP CUSTOMER_ID COMPANY AGE GENDER STATE_CODE NO_OF_TRIPS SPENT_AMOUNT AGE_BUCKET;
LENGTH AGE_BUCKET $20.;
IF AGE >=60 THEN AGE_BUCKET='OLD-AGE';
ELSE IF AGE >= 50 THEN AGE BUCKET='MID-OLD-AGE';
ELSE IF AGE >= 40 THEN AGE BUCKET= 'MID-AGE';
ELSE IF AGE>= 30 THEN AGE BUCKET= 'MID-YOUNG-AGE';
ELSE AGE BUCKET='YOUNG';
RUN;
/* VISIT BUCKET */
/* IF NO OF TRIPS >=30 THEN 'LOYAL' */
/* IF NO_OF_TRIPS >=10 THEN 'REGULAR' */
/* ELSE 'CASUAL' */
DATA MED SELECT;
SET SSN2.MED 2024;
KEEP CUSTOMER ID COMPANY AGE GENDER STATE CODE NO OF TRIPS SPENT AMOUNT VISIT BUCKET;
LENGTH VISIT BUCKET $20.;
IF NO_OF_TRIPS >= 30 THEN VISIT_BUCKET = 'LOYAL';
ELSE IF NO OF TRIPS >=10 THEN VISIT BUCKET = 'REGULAR';
ELSE VISIT BUCKET='CASUAL';
RUN;
```

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```
/* IF THEN DO STATEMENT */
_____
/* EXAMPLE-1 */
DATA MOBILE_USAGE;
INPUT MOBILE PLAN $ LOCAL_MOU STD_MOU ISD_MOU;
CARDS;
9669804070 PPS60 1000 200 10
9634528913 PPS30 1200 500 100
8114413387 PPM30 1000 500 300
RUN;
/* PLAN BENEFITS */
/* PPS60 - LOCAL/STD .60 PER MINUTE AND 3 PER ISD MINUTE */
/* PPS30 - LOCAL/STD .30 PER MINUTE AND 5 PER ISD MINUTE */
/* PPM30 - LOCAL/STD .30 PER MINUTE AND 2 PER ISD MINUTE */
DATA MOBILE USAGE V1;
SET MOBILE USAGE;
/* PPS60 */
IF PLAN='PPS60' THEN DO;
LOCAL_REV = LOCAL_MOU*0.6;
STD_REV = STD_MOU*0.6;
ISD_REV= ISD_MOU*3;
END;
/* PPS60 */
IF PLAN='PPS30' THEN DO;
LOCAL_REV = LOCAL_MOU*0.3;
STD_REV = STD_MOU*0.3;
ISD_REV= ISD_MOU*5;
END;
/* PPM30 */
IF PLAN='PPM30' THEN DO;
LOCAL_REV = LOCAL_MOU*0.3;
STD_REV = STD_MOU*0.3;
ISD REV= ISD MOU*2;
END;
TOTAL_MOU = LOCAL_MOU + STD_MOU + ISD_MOU;
TOTAL_REV = LOCAL_REV + STD_REV + ISD_REV;
RUN;
/* EXAMPLE-2 */
DATA PROD_SALES;
INFILE CARDS DLM='09'X;
INPUT PRODUCT $ CITY : $15. PRICE UNITS;
CARDS;
APPLE
       BANGALORE 36000 838
APPLE
       DELHI 49000 836
APPLE BHUBANESWAR 44000 555
APPLE MUMBAI 32000 841
APPLE CHENNAI 38000 767
DELL BANGALORE 49000 535
     DELHI 35000 183
DELL
      BHUBANESWAR 48000
DELL
      MUMBAI 45000 557
DFLL
       CHENNAI 31000 490
DELL
HP BANGALORE 43000 596
HP DELHI 33000 136
HP BHUBANESWAR 48000 691
HP MUMBAI 39000 309
HP CHENNAI 48000 312
RUN;
/* CONDITION FOR DISCOUNT */
```

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```
/* IF PRODUCT='APPLE' AND CITY='BANGALORE' THEN .30*PRICE; */
/* IF PRODUCT='APPLE' AND CITY='MUMBAI' THEN .20*PRICE; */
/* IF PRODUCT='DELL' AND CITY='BHUBANESWAR' THEN .30*PRICE; */
/* IF PRODUCT='DELL' AND CITY='DELHI' THEN .25*PRICE; */
/* IF PRODUCT='HP' AND CITY='CHENNAI' THEN .10*PRICE; */
/* IF PRODUCT='HP' AND CITY='MUMBAI' THEN .20*PRICE; */
DATA PROD_SALES_V1;
SET PROD_SALES;
IF PRODUCT='APPLE' THEN DO;
           IF CITY='BANGALORE' THEN DISCOUNT=0.3*PRICE;
           ELSE IF CITY='MUMBAI' THEN DISCOUNT = 0.2*PRICE;
           ELSE DISCOUNT=0;
END:
ELSE IF PRODUCT='DELL' THEN DO;
           IF CITY='BHUBANESWAR' THEN DISCOUNT=0.3*PRICE;
           ELSE IF CITY='DELHI' THEN DISCOUNT=0.25*PRICE:
           ELSE DISCOUNT=0;
END:
ELSE IF PRODUCT='HP' THEN DO;
           IF CITY='CHENNAI' THEN DISCOUNT=0.1*PRICE;
           ELSE IF CITY='MUMBAI' THEN DISCOUNT=0.2*PRICE;
           ELSE DISCOUNT=0;
END;
NEW SALES PRICE = PRICE - DISCOUNT;
TOTAL SALES REV = UNITS*NEW SALES PRICE;
RUN;
/* HOW TO CREATE MULTIPLE DATASET FROM AN EXISTING DATASET */
_____
PROC PRINT DATA=SSN2.STAFF;
RUN;
DATA STAFF PILOT STAFF MECHANIC;
SET SSN2.STAFF;
IF JOBTITLE='Mechanic' THEN OUTPUT STAFF MECHANIC;
ELSE IF JOBTITLE='Pilot' THEN OUTPUT STAFF PILOT;
RUN;
/* TEST */
/* I WANT TO CREATE DATASET FOR ALL COMPANIES IN MY MED 2024 DATA */
DATA MED_APPOLO MED_CIPLA MED_GENO MED_RELEGARE MED_OTHERS;
SET SSN2.MED_2024;
IF COMPANY='APPOLO' THEN OUTPUT MED APPOLO;
ELSE IF COMPANY = 'CIPLA' THEN OUTPUT MED CIPLA;
ELSE IF COMPANY = 'GENO' THEN OUTPUT MED GENO;
ELSE IF COMPANY = 'RELEGARE' THEN OUTPUT MED RELEGARE;
ELSE OUTPUT MED OTHERS;
RUN;
/* WHAT IS SAS FORMAT HOW TO CREATE YOUT OWN FORMATS */
______
DATA STU_SCORE;
INPUT STU_NAME $ SCORE;
CARDS;
A 30
B 44
C 55
D 90
RUN;
```

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```
PROC FORMAT;
VALUE $NAME 'A'='AYASHKANT'
            'B'='BHAVESH'
            'C'='CAROLINE'
            'D'='DEEPAK';
RUN;
DATA STU_SCORE_V1;
SET STU_SCORE;
FORMAT STU_NAME $NAME.;
RUN;
PROC FORMAT;
VALUE GRADE 1-33 = 'FAIL'
            34-50 = '3RD'
            51-60 = '2ND'
            61-100='1ST';
RUN;
```

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