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/* PROC TABULATE: */

/* IT IS THE PROCEDURE WHICH HELPS TO PRESENT DESCRIPTIVE STATISTICS IN A TABULAR FORMAT PROFESSIONALLY. */

/* SYNTAX--> */
/* PROC TABULATE DATA=<TABLE_NAME>; */
/* CLASS<VARIABLES>;    CATEGORY VARIABLES FOR CREATING CATEGORIZATION */
/* VAR<VARIABLES>;      NUMERIC VARIABLE FOR MATHEMATIC OPERATION */
/* TABLES<VARIABLES>;  MATHEMATICAL OPERATIONS LIKE 'SUM,MEAN,DIVISON' */
/* RUN; */

/* NOTE:--> */
/* TABLES , ;--> */
/* IN THE RIGHT HAND SIDE OF COMMA YOU PUT VARIABLE WHICH YOU SEE IN THE COLUMN LABEL */
/* IN THE LEFT HAND SIDE OF COMMA YOU PUT VARIABLE WHICH YOU SEE IN THE ROW LABEL */

/* TABLES VAR1*VAR2;--> */
/* IT WILL TAKE EVREYTHING INTO COLUMN LABEL. */

/* EG-1: */
/* TABLES , ;--> */
/* IN THE RIGHT HAND SIDE OF COMMA YOU PUT VARIABLE WHICH YOU SEE IN THE COLUMN LABEL */
/* IN THE LEFT HAND SIDE OF COMMA YOU PUT VARIABLE WHICH YOU SEE IN THE ROW LABEL */



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PROC TABULATE DATA=SASHELP.CARS;
CLASS ORIGIN TYPE;
TABLES ORIGIN,TYPE;
RUN;

/* EG-2: */
/* TABLES VAR1*VAR2;--> */
/* IT WILL TAKE EVREYTHING INTO COLUMN LABEL. */



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PROC TABULATE DATA=SASHELP.CARS;
CLASS ORIGIN TYPE;
TABLES ORIGIN*TYPE;
RUN;

/* EG-3: */
/* IF YOU SEE THE GRAND_TOTAL IN ROW LABEL. */



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PROC TABULATE DATA=SASHELP.CARS;
CLASS ORIGIN TYPE;
TABLES ORIGIN ALL="GRAND_TOTAL",TYPE;
RUN;

/* EG-4: */
/* IF YOU SEE THE GRAND_TOTAL IN COLUMN LABEL. */



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PROC TABULATE DATA=SASHELP.CARS;
CLASS ORIGIN TYPE;
TABLES ORIGIN ,TYPE ALL="GRAND_TOTAL";
RUN;

/* EG-5: */
/* IF YOU SEE THE GRAND_TOTAL IN BOTH COLUMN AND ROW LABEL. */



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PROC TABULATE DATA=SASHELP.CARS;
CLASS ORIGIN TYPE;
TABLES ORIGIN ALL="GRAND_TOTAL" ,TYPE ALL="GRAND_TOTAL";
RUN;

/* EG-6: */
/* ORIGIN WISE TYPE WISE SUM OF MSRP. */
/* BY DEFAULT IT WILL SHOW SUM */
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PROC TABULATE DATA=SASHELP.CARS;  
CLASS ORIGIN TYPE;  
VAR MSRP;  
TABLES TYPE,ORIGIN*MSRP;  
RUN;
```

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/* EG-7: */  
/* ORIGIN WISE TYPE WISE AVG OF MSRP. */
```

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PROC TABULATE DATA=SASHELP.CARS;  
CLASS ORIGIN TYPE;  
VAR MSRP;  
TABLES TYPE,ORIGIN*MSRP*(N SUM MEAN);  
RUN;
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/* EG-8: */  
/* MULTIPLE VARIABLE SUMMARY. */
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/* SCENARIO-1: */  
PROC TABULATE DATA=SASHELP.CARS;  
CLASS ORIGIN TYPE DRIVETRAIN;  
VAR MSRP;  
TABLES ORIGIN*TYPE,DRIVETRAIN*MSRP*(N SUM MEAN);  
RUN;
```

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/* SCENARIO-2: */  
/* IT WILL CRAETE A SEPARATE TABLE FOR INVOICE */  
PROC TABULATE DATA=SASHELP.CARS;  
CLASS ORIGIN TYPE DRIVETRAIN;  
VAR MSRP INVOICE;  
TABLES ORIGIN*TYPE,DRIVETRAIN*MSRP INVOICE*(N SUM MEAN);  
RUN;
```

```
/* SCENARIO-3: */  
PROC TABULATE DATA=SASHELP.CARS;  
CLASS ORIGIN TYPE DRIVETRAIN;  
VAR MSRP INVOICE;  
TABLES ORIGIN*TYPE,DRIVETRAIN*(MSRP INVOICE)*(N SUM MEAN);  
RUN;
```

```
/* SCENARIO-3: */  
/* IF YOU WANT TO SUM FOR MSRP AND AVG FOR INVOICE */  
PROC TABULATE DATA=SASHELP.CARS;  
CLASS ORIGIN TYPE DRIVETRAIN;  
VAR MSRP INVOICE;  
TABLES ORIGIN*TYPE,DRIVETRAIN*MSRP*(SUM="TOTAL")  
          DRIVETRAIN*INVOICE*(N="COUNT" MEAN="AVG");  
RUN;
```