

```
/* PROCEDURAL SORT: */
```

```
/* IT ORDERS THE OBSERVATIONS IN DATA/TABLE IN INCREASING/DECREASING ORDER BY */  
/* ONE OR MORE CHARACTER/NUMERIC VARIABLES/COLUMNS. */
```

```
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: */  
/* IT SORT THE DATA AND STORE IT TO ANOTHER TABLE. BUT THE MAIN TABLE NOT SORTED */  
PROC SORT DATA=WORK.CUST OUT=SORTED;  
BY COUNTRY SALARY;  
  
RUN;
```

```
/* DESCENDING: */  
/* IT SORT THE DATA IN DESCENDING ORDER */  
PROC SORT DATA=WORK.CUST OUT=SORTED;  
BY DESCENDING COUNTRY SALARY;  
  
RUN;
```

```
/* NODUPKEY: */
```

```
/* REMOVE THE DUPLICATES BASICS OF ONE COLUMN. */  
/* DELETE OBSERVATIONS WITH COMMON VALUES IN "BY" VARIABLE/VARIABLES. */
```

```
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: */  
/* IT COMPARE ALL DUPLICATE DATA AND GIVE THE OUTPUT */
```

```
PROC SORT DATA=WORK.CUST NODUP OUT=SORTED ;  
BY _ALL_;
```

  

```
RUN;
```

```
/* DUPOUT: */  
/* PRODUCE THE DUPLICATES VALUES, IDENTIFIED BY NODUPKEY/NODUP, IN A SEPARATE TABLE. */  
/* THE DUPLICATE VALUES ARE STORE IN ANOTHER TABLE */
```

```
PROC SORT DATA=WORK.CUST NODUP OUT=SORTED DUPOUT=DUP ;  
BY _ALL_;
```

  

```
RUN;
```