

```
*SAS Standard Deviation;
```

```
/*
```

```
ROC means DATA = dataset STD;
```

```
*/
```

```
.....  
PROC SQL;
```

```
create table CARS1 as
```

```
SELECT make, type, invoice, horsepower, length, weight
```

```
FROM
```

```
SASHELP.CARS
```

```
WHERE make in ('Audi','BMW')
```

```
;
```

```
RUN;
```

```
.....  
proc means data = CARS1 STD;
```

```
run;
```

```
*Using PROC SURVEYMEANS;
```

```
/*
```

This procedure is also used for measurement of SD along with some advance features like measuring SD

for categorical variables as well as provide estimates in variance.

Syntax;

```
PROC SURVEYMEANS options statistic-keywords ;
```

```
BY variables ;
```

```
CLASS variables ;
```

```
VAR variables ;
```

```
*/
```

```
.....  
proc surveymeans data= CARS1 STD;
```

```
class type;
```

```
var type horsepower;
```

```
ods output statistics = rectangle;
```

```
run;
```

```
proc print data = rectangle;
```

```
run;
```

```
*Using BY option;
```

```
/*
```

The below code gives example of BY option.

In it the result is grouped for each value in the BY option.

```
*/
```

```
.....  
proc surveymeans data = CARS1 STD;
```

```
var horsepower;
```

```
BY make;
```

```
ods output statistics = rectangle;
```

```
run;
```

```
proc print data = rectangle;
```

```
run;
```