

```
*SAS Frequency Plots;  
/*
```

A frequency distribution is a table showing the frequency of the data points in a data set. Each entry in the table contains the frequency or count of the occurrences of values within a particular group or interval, and in this way, the table summarizes the distribution of values in the sample

```
Syntax;  
PROC FREQ DATA = Dataset ;  
TABLES Variable_1 ;  
BY Variable_2 ;
```

Variables_1 is the variable names of the dataset whose frequency distribution needs to be calculated.

Variables_2 is the variables which categorised the frequency distribution result.
*/

```
proc sql;  
create table CARS1 as  
select make,model,type,invoice,horsepower,length,weight  
from SASHELP.CARS  
where make in ('Audi','BMW')  
;  
run;
```

```
proc freq data = CARS1;  
Tables horsepower;  
BY make;  
run;
```

```
*Multiple Variable Frequency Distribution;  
/*  
We can find the frequency distributions for  
multiple variables which groups them into all possible combinations.  
*/
```

```
proc FREQ data = CARS1 ;  
tables make type;  
run;
```

```
*Frequency Distribution with Weight;  
/*  
With the weight option we can calculate the frequency distribution  
biased with the weight of the variable. Here the value of the variable is  
taken as the number of observations instead of the count of value.  
*/
```

```
proc FREQ data = CARS1 ;  
tables make type;  
weight horsepower;  
run;
```