

```
*SAS Correlation Analysis;
/*
Correlation analysis deals with relationships among variables.
The correlation coefficient is a measure of linear association between two variables.

Syntax:
PROC CORR DATA = dataset options;
VAR variable;

    Dataset is the name of the dataset.

    Options is the additional option with procedure like plotting a matrix etc.

    Variable is the variable name of the dataset used in finding the correlation.

*/
proc sql;
create table cars1 as
select invoice,horsepower,length,weight
from SASHELP.CARS
where make in ('Audi','BMW');
RUN;

proc corr data = cars1;
var invoice horsepower;
by make;
run;

*Correlation Between All Variables;
proc corr data = cars1;
run;

*Correlation Matrix;
/*
We can obtain a scatterplot matrix between the variables
by choosing the option to plot matrix in the PROC statement.
*/

proc corr data = cars1 plots=matrix;
var invoice horsepower;
run;
```