



Solution

SP4r03s02.sas

Use the **Cars** data set in the **SP4R** library to complete this exercise.

1. Creating a New Data Set Variable Conditionally

- a. Use the new variable that you created in Exercise 1. Create a new variable in the **Cars** data set called **mpg_quality**, which is a character variable. Set **mpg_quality** according to the following table:

Mpg_average	Mpg_quality
<20	Low
20-29	Medium
>30	High

```
data sp4r.cars;
  length mpg_quality $ 6;
  set sp4r.cars;
  if mpg_average < 20 then mpg_quality='Low';
  else if mpg_average < 30 then mpg_quality='Medium';
  else mpg_quality='High';
run;
```

- b. Print observations 65 through 70 for the variables **mpg_average** and **mpg_quality** to ensure that the variable is created.

```
proc print data=sp4r.cars (firstobs=65 obs=70);
  var mpg_average mpg_quality;
run;
```

Obs	mpg_average	mpg_quality
65	16.0	Low
66	18.5	Low
67	20.5	Medium
68	31.0	High