Solutions to Practices

4. Generating an Accumulating Column within Groups

```
proc sort data=pg2.np_yearlyTraffic
          out=work.sortedTraffic(keep=ParkType ParkName
                                      Location Count);
    by ParkType ParkName;
run;

data TypeTraffic;
    set work.sortedTraffic;
    by ParkType;
    if First.ParkType=1 then TypeCount=0;
    TypeCount+Count;
    if Last.ParkType=1;
    format typeCount comma12.;
    keep ParkType TypeCount;
run;

/*ALTERNATE SOLUTION*/

data TypeTraffic;
    set work.sortedTraffic;
    by ParkType;
    retain TypeCount 0;
    if First.ParkType=1 then TypeCount=0;
    TypeCount=TypeCount+Count;
    if Last.ParkType=1;
    format TypeCount comma12.;
    keep ParkType TypeCount;
run;
```

5. Generating an Accumulating Column within Multiple Groups

```
proc sort data=sashelp.shoes out=sort_shoes;
    by Region Product;
run;

data profitsummary;
    set sort_shoes;
    by Region Product;
    Profit=Sales-Returns;
    if First.Product then Total=0;
    TotalProfit+Profit;
    if Last.Product=1;
    keep Region Product TotalProfit;
    format TotalProfit dollar12.;
run;
```

6. Creating Multiple Output Tables Based on Group Values

```
proc sort data=pg2.np_acres
          out=sortedAcres(keep=Region ParkName State GrossAcres);
    by Region ParkName;
run;

data multiState singleState;
    set sortedAcres;
    by Region ParkName;
    if First.ParkName=1 and Last.ParkName=1
        then output singleState;
    else output multiState;
    format GrossAcres comma15.;
run;
```

End of Solutions