

Solutions to Practices

1. Restructuring a Table Using the DATA Step: Wide to Narrow

```
data work.camping_narrow(drop=Tent RV Backcountry);
    set pg2.np_2017Camping;
    length CampType $11;
    format CampCount comma12.;
    CampType='Tent';
    CampCount=Tent;
    output;
    CampType='RV';
    CampCount=RV;
    output;
    CampType='Backcountry';
    CampCount=Backcountry;
    output;
run;
```

2. Restructuring a Table Using the DATA Step: Narrow to Wide

```
data work.camping_wide;
    set pg2.np_2016Camping;
    by ParkName;
    keep ParkName Tent RV Backcountry;
    format Tent RV Backcountry comma12.;
    retain ParkName Tent RV Backcountry;
    if CampType='Tent' then Tent=CampCount;
    else if CampType='RV' then RV=CampCount;
    else if CampType='Backcountry' then Backcountry=CampCount;
    if last.ParkName;
run;
```

3. Using Arrays to Restructure a Table

```
data np_lodge_stack;
    set pg2.np_lodging_array;
    keep ParkName Year Stays;
    format Stays comma12.;
    array Lodge[2015:2017] Lodge2015-Lodge2017;
    do Year=2015 to 2017;
        Stays=Lodge[Year];
        output;
    end;
run;
```

End of Solutions