

## Naming Transposed Columns when the ID Column Has Duplicate Values

The **pg2.weather\_highlow** table contains weather data for four locations. The high and low temperatures are recorded for the months of June, July, and August.

1. Open **p207p06.sas** from the **practices** folder. Submit the program and examine the output table. Notice that table contains two rows for each value of **Location** and **Month**. The first row represents the high temperature and the second row is the low temperature.
2. Create a new program.
  - Write a PROC TRANSPOSE step to create a table, **work.lows**, that contains the low temperatures for each reporting location.
  - Use the LET option to transpose only the last row for each BY group. **Note:** The LET option transposes only the last row for each BY group. Be sure that your data is sorted in the order that you require. For more information about the LET option, view SAS Help.
  - Use the values of **Month** as the names for the transposed columns.
  - Submit the program and examine the output data.

```
proc transpose data=sort_highlow out=lowts let;  
    by location;  
    id Month;  
run;
```

3. Confirm that three columns (**Jun**, **Jul**, and **Aug**) exist for each value of **Location**. The values of the month columns should be the low temperatures.

**Note:** Warning messages will still appear in the log indicating that the **Month** values are duplicated within each value of **Location**.