



Lecture 13

Long to Short and Short to Long SAS data

Long to Short

Using PROC TRANSFER

```
PROC TRANSPOSE DATA = old-data-name OUT = new-data-  
name;  
BY variable – list; *  
ID variable; **  
VAR variable – list; ***  
RUN;
```

- * BY statement: if you have any grouping variables that you want to keep as variables and these variables are included in the transposed data set. Data must be sorted by these variables before transpose.
- ** ID statement: The ID statement names the variable whose formatted values will become the new variable names.
- *** VAR statement The VAR statement names the variables whose values you want to transpose.

Long to Short

Using SET and MERGE statement.

```
DATA Subsetname1 (Conditions);  
    Subsetname2 (Conditions);  
    Subsetname3 (Conditions);  
    Subsetname4 (Conditions);  
SET MasterData;  
RUN;
```

```
DATA      NewName;  
MERGE     Subsetname1 Subsetname2 Subsetname3  
          Subsetname4;  
  
By ID;  
RUN;
```

Short to Long

1. Using multiple data steps and Concatenation;
2. Using Output Statement;
3. Using Array, DDO and Output;