



Practice

If you restarted your SAS session, open and submit the **libname.sas** program in the course files.

Level 1

1. Concatenating Like-Structured Tables

Create a table that contains monthly public use statistics for 2015 and 2016 from the National Park Service.

- Open the **p205p01.sas** program in the **practices** folder. Complete the SET statement to concatenate the **pg2.np_2015** and **pg2.np_2016** tables to create a new table, **np_combine**.
- Use a WHERE statement to include only rows where **Month** is 6, 7, or 8.
- Create a new column named **CampTotal** that is the sum of **CampingOther**, **CampingTent**, **CampingRV**, and **CampingBackcountry**. Format the new column with commas.

Note: Use a column list to specify that all columns beginning with *Camping* be included as arguments in the SUM function.

| | ParkCode | ParkType | Region | State | Year | Month | DayVisits | LodgingOther | CampTotal |
|---|----------|--------------------------|-----------|-------|------|-------|-----------|--------------|-----------|
| 1 | ABLI | National Historical Park | Southeast | KY | 2015 | 6 | 20,274 | 0 | 0 |
| 2 | ABLI | National Historical Park | Southeast | KY | 2015 | 7 | 23,214 | 0 | 0 |
| 3 | ABLI | National Historical Park | Southeast | KY | 2015 | 8 | 18,854 | 0 | 0 |
| 4 | ACAD | National Park | Northeast | ME | 2015 | 6 | 359,661 | 0 | 25,185 |
| 5 | ACAD | National Park | Northeast | ME | 2015 | 7 | 606,597 | 0 | 44,944 |
| 6 | ACAD | National Park | Northeast | ME | 2015 | 8 | 666,767 | 0 | 44,276 |
| 7 | ADAM | National Historical Park | Northeast | MA | 2015 | 6 | 30,123 | 0 | 0 |
| 8 | ADAM | National Historical Park | Northeast | MA | 2015 | 7 | 20,310 | 0 | 0 |










Level 2

2. Concatenating Unlike-Structured Tables

Create a table that contains monthly public use statistics for 2014, 2015, and 2016 from the National Park Service.

- Complete the Level 1 practice or open and run the **p205p01_s.sas** program in the **practices/solutions** folder.
- Open the **pg2.np_2014** table and compare the column names with the **np_combine** table. Which column or columns in **np_2014** must be renamed to match columns in **np_combine**?
- Modify the DATA step to concatenate the **pg2.np_2014**, **pg2.np_2015**, and **pg2.np_2016** tables. Rename the columns as necessary to align the columns with similar values.
- In addition to filtering rows by **Month**, also include only rows where **ParkType** is *National Park*.

- e. Arrange the newly created table in ascending order by **ParkType**, **ParkCode**, **Year**, and **Month**.

| |  ParkCode |  ParkType |  Region |  State |  Year |  Month |  DayVisits |  LodgingOther |  CampTotal |
|---|--|--|--|---|--|---|---|--|---|
| 1 | ACAD | National Park | Northeast | ME | 2014 | 6 | 338,845 | 0 | 24,894 |
| 2 | ACAD | National Park | Northeast | ME | 2014 | 7 | 561,073 | 0 | 43,781 |
| 3 | ACAD | National Park | Northeast | ME | 2014 | 8 | 638,152 | 0 | 45,117 |
| 4 | ACAD | National Park | Northeast | ME | 2015 | 6 | 359,661 | 0 | 25,185 |
| 5 | ACAD | National Park | Northeast | ME | 2015 | 7 | 606,597 | 0 | 44,944 |
| 6 | ACAD | National Park | Northeast | ME | 2015 | 8 | 666,767 | 0 | 44,276 |
| 7 | ACAD | National Park | Northeast | ME | 2016 | 6 | 445,410 | 0 | 33,729 |
| 8 | ACAD | National Park | Northeast | ME | 2016 | 7 | 686,854 | 0 | 52,052 |

End of Practices