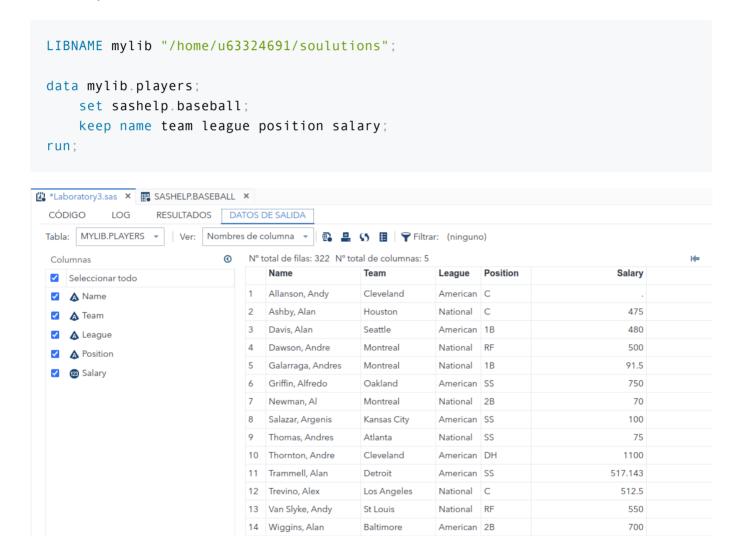
## 3. Keep, Drop, Rename and Sort

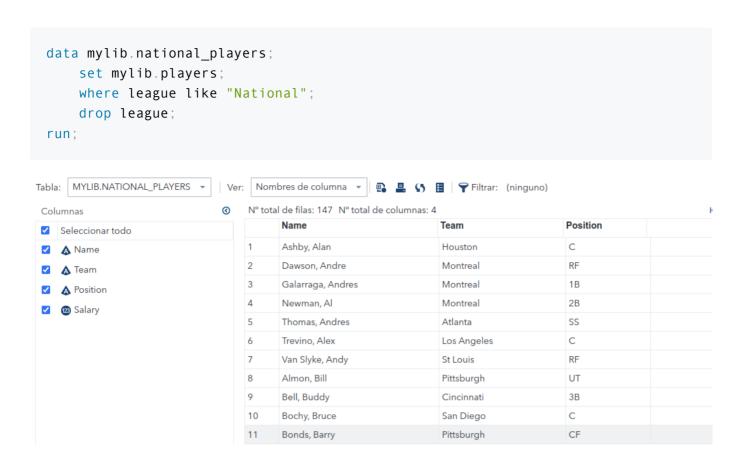
Daniel Alconchel Vázquez

**Exercise 1.** Using data set sashelp.baseball create data set *mylib.players*, which contains name, team, league, position and salary. Then using *mylib.players* create table *mylib.national* players containing observations about players from national league. drop colum *league*.

For the first part we are going to use the clausule **keep** that specifies the names of the variables to the output data set. Then, we have:



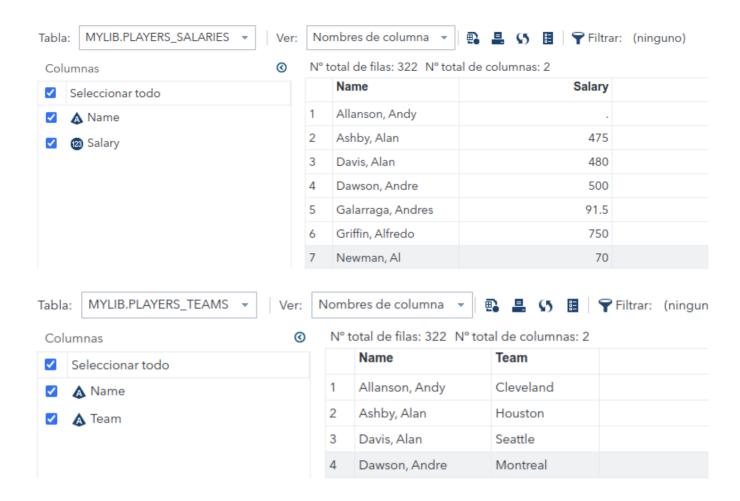
Now, for the second part we are going to search players from the national league and then drop this value using the clausule **drop**. Then:



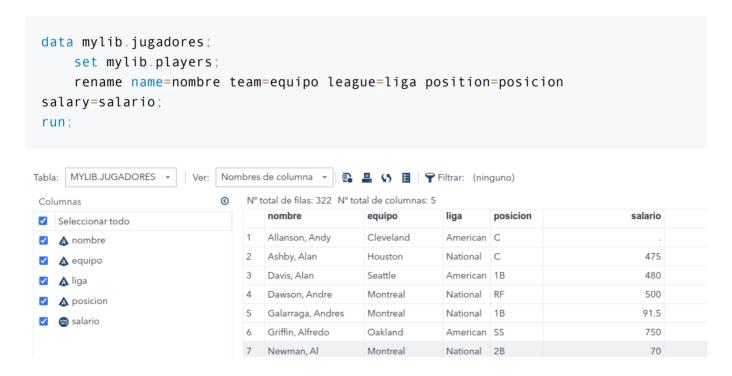
## **Exercise 2.** In one data step create two data sets:

- mylib.players\_salaries containing names and salaries of baseball players from th table sashelp.baseball.
- mylib.players\_teams containing names and teams of baseball players from the table sashelp.baseball

```
data mylib.players_salaries(keep=name salary) mylib.players_teams(keep=name
team);
    set sashelp.baseball;
run;
```



**Exercise 3.** Change names of variables in data set *mylib.players* to spanish.

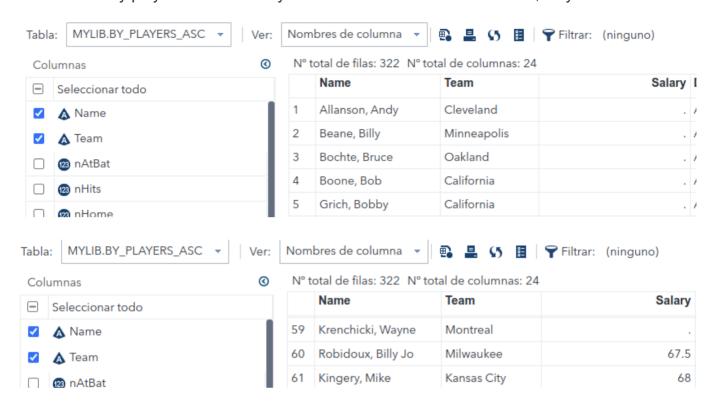


## Exercise 4.

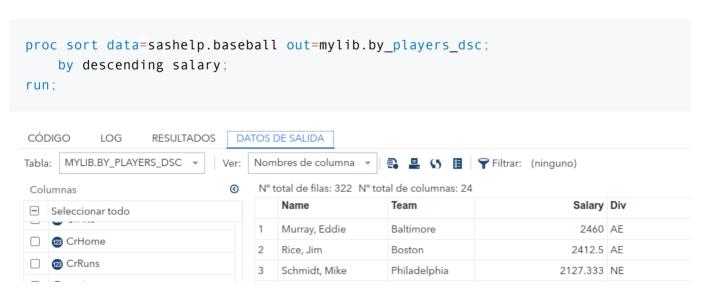
1. Sort data set sashelp.baseball by Salary in ascending (default) order. Store the results in new data set by\_players\_asc. Who has the lowest salary?

```
proc sort data=sashelp.baseball out=mylib.by_players_asc;
  by salary;
run;
```

There are many players without salary. The first ont to have it is Robidoux, Billy Jo:

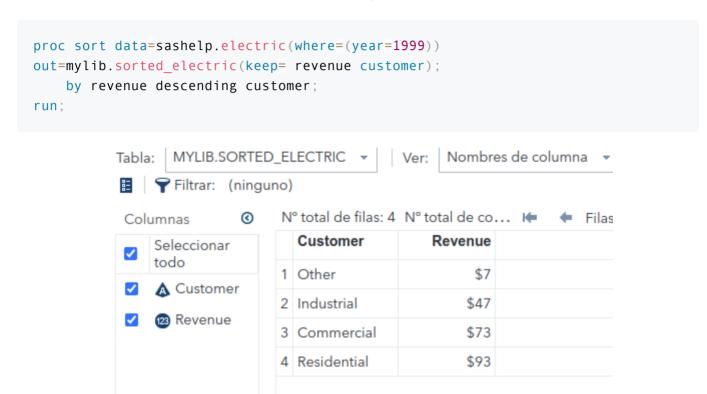


2. Sort data set *sashelp.baseball* by Salary in descending order. Store the results in new data set by\_players\_dsc. Who has the highest salary?



Murray has the highest salary.

**Exercise 5.** See how to use PROC SORT with keep and WHERE (as statement and as option). Using *sashelp.electric* create new data set *sorted\_electric*, which will be sorted ascending by variable *revenue* and descending by variable *customer*. The result should contain only variables *customer* and *revenue* and observations from the year 1999.



**Exercise 6.** Sort first 10 observations from data set *account* by variable *Town* without reapeating values of variable *Town*. Save results to the set *by\_town10*. Save duplicates to the set *town\_duplicates*.

```
data account:
 INPUT Company $ 1-23 Debt 25-30 AccountNumber 33-36 Town $ 39-51;
 /*1-22.25-30 etc - columns*/
      dataLINES:
      Paul's Pizza
                                     83.00 1019 Apex
      World Wide Electronics 119.95 1122 Garner
      Strickland Industries 657.22 1675 Morrisville
      Ice Cream Delight
                                   299.98 2310 Holly Springs
      Watson Tabor Travel
                                   37.95 3131 Apex
      Body & Sons Accounting 312.49 4762 Garner
      Bob's Beds
                                   119.95 4998 Morrisville
      Tina's Pet Shop
                                    37.95 5108 Apex
      Elway Piano and Organ 65.79 5217 Garner
      Tim's Burguer Stand 119.95 6335 Holly Springs
      Peter's Auto Parts
                                    65.79 7288 Apex
      Deluxe Hardware
                                   467.12 8941 Garner
      Pauline's Antiques
                                  302.05 9112 Morrisville
      Apex Catering
                                    37.95 9923 Apex
 run;
 proc sort data=account(FIRSTOBS=1 OBS=10) out=by town10 dupout=town duplicates
 NODUPKEY:
      by town;
 run;
               RESULTADOS DATOS DE SALIDA
Tabla: WORK.BY_TOWN10 ▼ | Ver: Nombres de columna ▼ | 🖺 💄 😘 🖺 | 🕆 Filtrar: (ninguno)
                        N° total de filas: 4 N° total de columnas: 4
                                                                                          I← ← Filas 1-4 →
Columnas
                             Company
                                                                     Debt
                                                                                   AccountNumber Town
✓ Seleccionar todo
                           1 Paul's Pizza
                                                                      83
                                                                                          1019 Apex
Company
                           2 World Wide Electronics
                                                                    119.95
                                                                                          1122 Garner
Debt
                           3 Ice Cream Delight
                                                                    299.98
                                                                                          2310 Holly Springs
AccountNumber
                           4 Strickland Industries
                                                                                          1675 Morrisville
                                                                    657.22
Town
CÓDIGO LOG
             RESULTADOS DATOS DE SALIDA
Tabla: WORK.TOWN_DUPLICATES 🔻 | Ver: Nombres de columna 🔻 🖺 🖺 👣 🔡 📦 Filtrar: (ninguno)
                          Nº total de filas: 6 Nº total de columnas: 4
                                                                                            ← Filas 1-6 → →
Columnas
                                                          Debt
                                                                   AccountNumber Town
                            Company
✓ Seleccionar todo
                           1 Watson Tabor Travel
                                                         37.95
                                                                         3131 Apex
Company
                           2 Tina's Pet Shop
                                                         37.95
                                                                         5108 Apex
Debt
                           3 Body & Sons Accounting
                                                        312.49
                                                                         4762 Garner
AccountNumber
                           4 Elway Piano and Organ
                                                         65.79
                                                                         5217 Garner
Town
                           5 Tim's Burguer Stand
                                                         119.95
                                                                         6335 Holly Springs
                           6 Bob's Beds
                                                         119.95
                                                                         4998 Morrisville
```