5. PROC TRANSPOSE and PROC IMPORT

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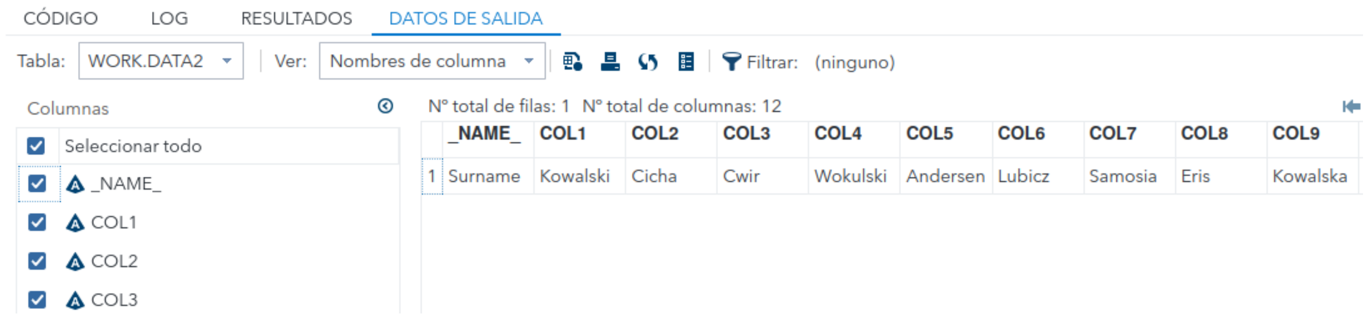
Exercise 1. Transpose variable Surname from table

```
data surnames;
    input stid Surname$;
    datalines;
    100 Kowalski
    101 Cicha
    102 Cwir
    103 Wokulski
    104 Andersen
    110 Lubicz
    111 Samosia
    112 Eris
    113 Kowalska
    114 Losski
    116 Rajska
    ;
run;
```

```
proc transpose data=surnames;
    var surname;
run;
```



Nº total de filas: 1 Nº total de columnas: 12

	NAME	COL1	COL2	COL3	COL4	COL5	COL6	COL7	COL8	COL9
1	Surname	Kowalski	Cicha	Cwir	Wokulski	Andersen	Lubicz	Samosia	Eris	Kowalska

Exercise 2. Merge the follwing tables and surnames by variable stid and then transpose the output set by shoesize. Make variable names begin with 'person'.

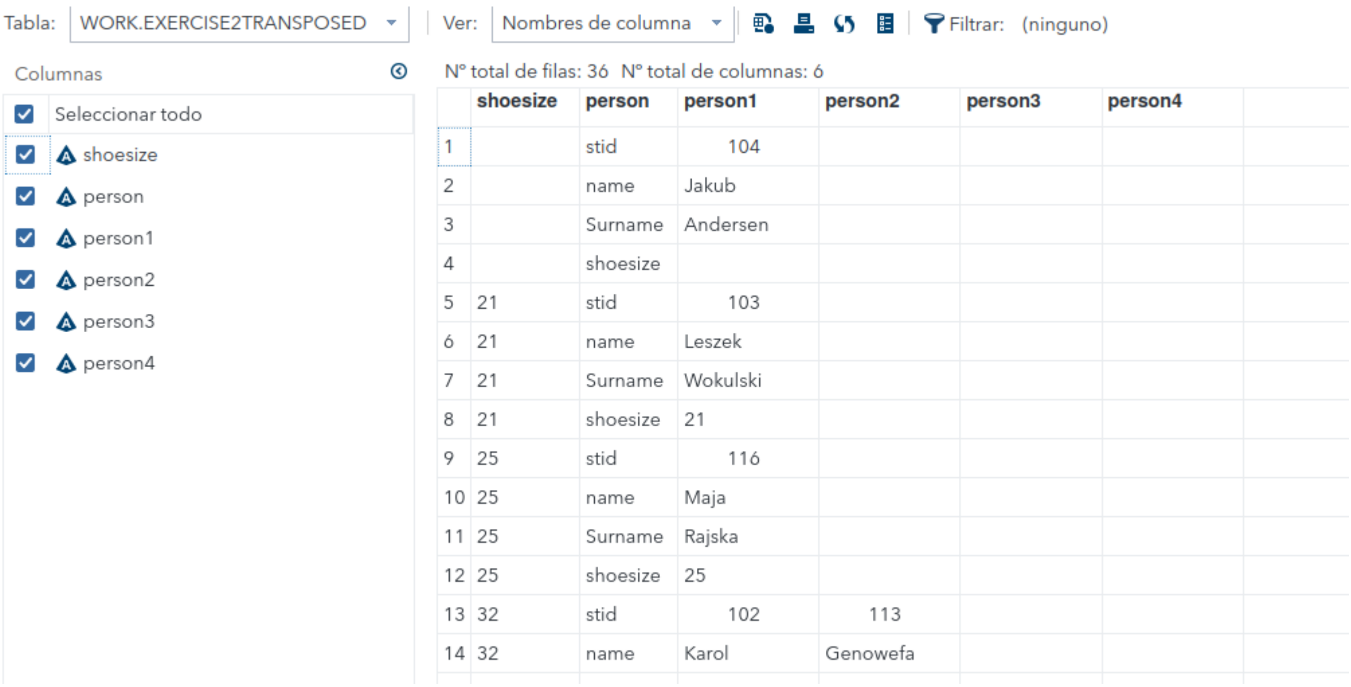
```
data names;
    input stid name$;
    datalines;
    100 Anna
    101 Jan
    102 Karol
    103 Leszek
    104 Jakub
    110 Gosia
    111 Donata
    112 Justyna
    113 Genowefa
    114 Lucyna
    116 Maja
    115 Konstancja
    105 Remek
    ;
run;

data shoes;
    input stid shoesize$;
    datalines;
    101 34
    101 65
    102 32
    103 21
    100 43
    110 43
    111 35
    112 44
    113 32
    114 34
    116 25
    115 34
    105 34
    ;
run;
```

We do merge first:

```
proc sort data=shoes;
    by stid;
run;
proc sort data=surnames;
    by stid;
run;
proc sort data=names;
    by stid;
run;
data exercise2;
    merge names surnames shoes;
    by stid;
run;
```

Now we can:

```
proc sort data=exercise2;
    by shoesize;
run;
proc transpose data=exercise2 out=exercise2transposed(rename=(_name_=person))
prefix=person;
    var stid name surname shoesize;
    by shoesize;
run;
```



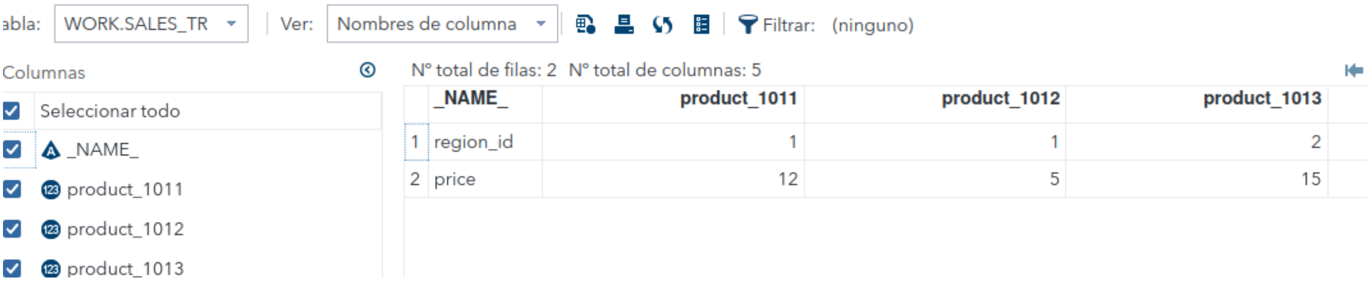
☑ Seleccionar todo
☑ shoesize
☑ person
☑ person1
☑ person2
☑ person3
☑ person4

Nº total de filas: 36 Nº total de columnas: 6

	shoesize	person	person1	person2	person3	person4
1		stid	104			
2		name	Jakub			
3		Surname	Andersen			
4		shoesize				
5	21	stid	103			
6	21	name	Leszek			
7	21	Surname	Wokulski			
8	21	shoesize	21			
9	25	stid	116			
10	25	name	Maja			
11	25	Surname	Rajska			
12	25	shoesize	25			
13	32	stid	102	113		
14	32	name	Karol	Genowefa		

Exercise 3. Create your own PROC TRANSPOSE example using ID.

```
data sales;
    input product_id region_id price name$;
    cards;
    1011 1 12 t-shirt
    1012 1 5 socks
    1013 2 15 helmet
    1014 3 20 shoes
    ;
run;
proc transpose data=sales out=sales_tr prefix=product_;
id product_id;
run;
```



abla: WORK.SALES_TR   Ver: Nombres de columna   Filtrar: (ninguno)

Columnas

- ☑ Seleccionar todo
- ☑ _NAME_
- ☑ product_1011
- ☑ product_1012
- ☑ product_1013

N° total de filas: 2 N° total de columnas: 5

	NAME	product_1011	product_1012	product_1013
1	region_id	1	1	2
2	price	12	5	15

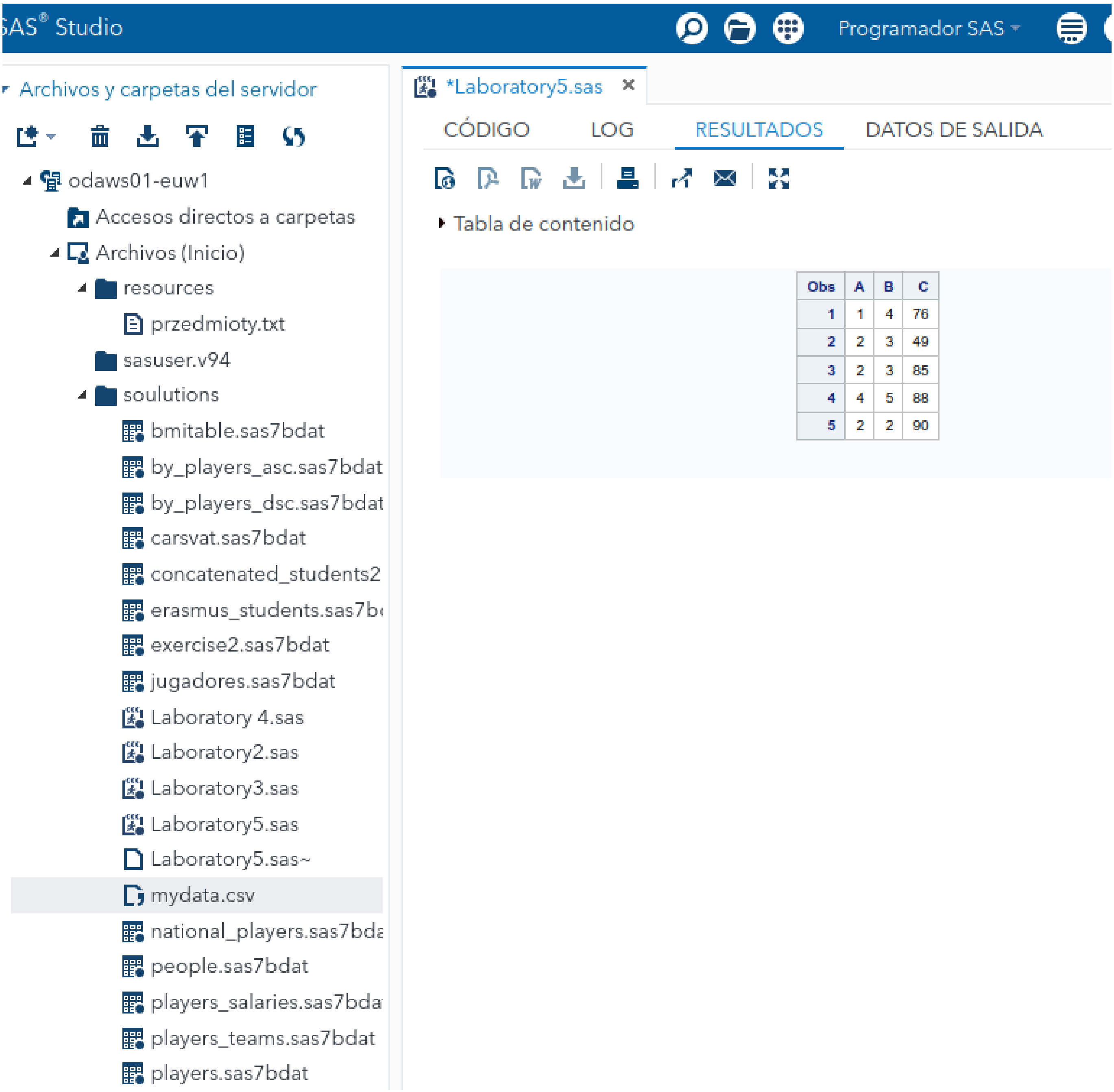
Exercise 4. Find some data to import it to sas.

Let's create in our sas_home directory a csv file called mydata.csv with the following data:

```
A,B,C
1,4,76
2,3,49
2,3,85
4,5,88
2,2,90
```

Now:

```
proc import out=csvfiledata
    datafile="/home/u63324691/soulutions/mydata.csv"
    dbms=csv
    replace;
    getnames=yes;
run;
proc print data=csvfiledata;
```



Obs	A	B	C
1	1	4	76
2	2	3	49
3	2	3	85
4	4	5	88
5	2	2	90