

PROC TRANSPOSE

This procedure changes variables into observations or observations into variables. Proc transpose reads in a dataset and then outputs the results to another dataset.

Syntax:-

```
PROC TRANSPOSE < OPTIONS >;

VAR VARIABLE-LIST;

BY VARIABLE-LIST;

ID VARIABLE<S>;

COPY VARIABLE<S>;

RUN;

Examples:-
```

Data ds:

```
Infile Datalines;
Input id name$ sex$ age salary dollar5.;
Datalines;
101 abc m 23 $5000
102 def f 25 $4500
103 jkl f 21 $4500
104 mno m 29 $5000
105 xyz m 32 $6000
;
```

Options:-

Data=dataset: - Specify dataset name which SAS will be transposed.

Proc transpose data=ds;

Run:

Run;

Out=dataset: - Specify output dataset name where we can get transposed data.

Create new SAS dataset with transpose variables

If we won't specify out=dataset name proc transpose reads data from data=dataset and gives result in system created dataset DATA1, DATA2 etc...

Prefix = Name

U can specify a prefix for naming transposed variables, default that name will come as col1, col2, ... colN but when we specify Prefix=Name that names will come as Name21, Name2,...., NameN etc...

Prefix will change column names permanently.





```
Example:-
Data ds:
Infile Datalines:
Input id name$ sex$ age salary dollar5.;
Datalines:
101 abc m 23 $5000
102 def f 25 $4500
103 ikl f 21 $4500
104 mno m 29 $5000
105 xyz m 32 $6000
Run;
Proc transpose data=ds;
Run;
In above program it reads data from DS1 and creates a dataset DATA1 with transposing
values, we didn't specify out variable so system is creating output dataset as data1
Proc transpose data=ds out=ds2;
Run:
In above program it reads data from DS1 and creates a dataset DS2 with transposing values
Default it transposes only numeric variables but if we want to transpose any specific /
character variables use VAR statement
Whatever variables want to transpose specify those in VAR statement.
Proc transpose data=ds out=ds2;
Var id name sex age salary;
Run;
Proc transpose data=ds out=ds2 Prefix=Stansys;
Var id name sex age salary;
Run:
Proc sort data=ds out=dss;
By sex;
Run;
Proc transpose data=dss out=ds2 Prefix=Stansys;
Var id name sex age salary;
By sex;
Run;
```

Anyhow sex is coming as a by variable remove sex from Var and look on the output.



Var id name age salary;

Proc transpose data=dss out=ds2 Prefix=Stansys;



```
By sex;
Run;
Proc transpose data=dss out=ds2 Prefix=Stansys;
Var id name sex age salary;
By sex;
Id name;
Run;
Proc transpose data=dss out=ds2 Prefix=Stansys;
Var id name sex salary;
/*By sex;*/
/*Id name;*/
Copy age;
Run;
Proc transpose data=dss out=ds2 Prefix=Stansys;
Var id name sex salary;
By sex;
/*Id name;*/
Copy age;
Run;
Proc transpose data=dss out=ds2 Prefix=Stansys;
Var id name sex salary;
By sex;
Id name;
Copy age;
Run;
```





