
SAS output is rarely the form in which results are presented. Many create results tables in Excel. This page will provide an example of how to generate a multi-tab spreadsheet containing SAS results. We will be using the Output Delivery System (ODS) to do so. ODS allows you to generate tabular output from your raw output that can be placed into Excel sheets. In the code below, we are creating an Excel file (giving it a name and location), indicating a style to be used (“minimal” in this example), and specifying a few other options.

```
ODS TAGSETS.EXCELXP
file='D:\work\sas9regression.xls'
STYLE=minimal
OPTIONS ( Orientation = 'landscape'
FitToPage = 'yes'
Pages_FitWidth = '1'
Pages_FitHeight = '100' );
```

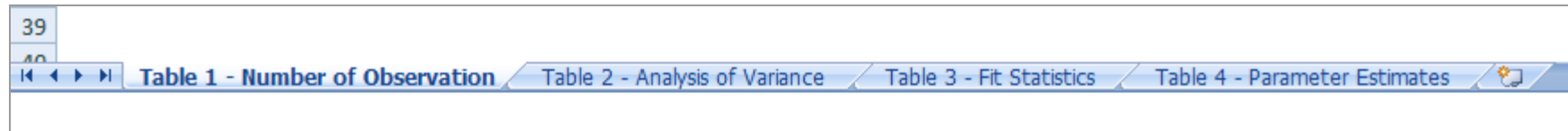
After this code, we can analyze our data and a new tab will be created for each separate ODS table from your output.

```
quit;  
proc format;  
  value fm 1='Female' 0='Male' ;  
  value ses 1='Low' 2='Middle' 3='High' ;  
run;
```

After completing our analysis, we “close” the Excel file.

```
ods tagsets.excelxp close;
```

We can now open the Excel file and see the separate tabs for each ODS table.



The style indicated effects the appearance of the output we see in Excel. For example, we used the “minimal” style and we can look at the ANOVA table in the second tab for an example of this style:

1	Analysis of Variance					
2	Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
3	Model	3	9405.34864	3135.11621	72.52	<.0001
4	Error	196	8473.52636	43.23228		
5	Corrected Total	199	17879			

To see a list of the available styles, run the SAS code below:

```
ods listing;  
proc template;  
list styles;  
run;  
quit;
```

We employed a few of the “options” to format our results in Excel. To see the full list of options, run the SAS code below:

We can look at another style and some additional options. In the example code below, we create a two-way frequency table in SAS and output the results to Excel with the “printer” style and we have added a title to the output in Excel with the **embedded_titles** option in our ODS **options** statement.

```
STYLE=Printer
OPTIONS ( Orientation = 'landscape'
FitToPage = 'yes'
Pages_FitWidth = '1'
Pages_FitHeight = '100'
embedded_titles = 'yes');

title 'Mean Write Scores by SES and Female';
proc format;
  value fm 1='Female' 0='Male' ;
  value ses 1='Low' 2='Middle' 3='High';
run;
proc tabulate data = ats.hsb2;
  class ses female;
  var write /style = {tagattr='format:000'};
  table ses=' '*mean,
         write=' '*[style={tagattr='format:#0.00'}]*female=' ' /   rtspace=42;
  format female fm. ses ses.;
run;
ods tagsets.excelxp close;
```

We can view these results to see how the “printer” style appears in Excel:

1	<i>Mean Write Scores by SES and Female</i>			
2				
3			Male	Female
4	Low	Mean	46.60	52.50
5	Middle	Mean	49.55	54.25
6	High	Mean	52.86	58.97

For further details on sending results from SAS to Excel, see Vincent DelGobbo's paper [*Creating Multi-Sheet Excel Workbooks the Easy Way with SAS*](http://www2.sas.com/proceedings/forum2007/229-2007.pdf) (<http://www2.sas.com/proceedings/forum2007/229-2007.pdf>).

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