

This is Enterprise Guide Reporting Captain

Lynn Pope, Amadeus Software Limited



ABSTRACT

SAS believe that Enterprise Guide provides a true Windows point-and-click interface to the full power of the SAS System. Also, that it uses interactive dialogs that guide users easily through SAS analytical and reporting tasks, provides transparent data access to both SAS and non-SAS data, and has the ability to export results to other Windows and server based applications. This paper will look at Enterprise Guide working through a project and demonstrating the key aspects of this product at a simple user level.

WHAT IS ENTERPRISE GUIDE AND HOW CAN IT HELP YOU

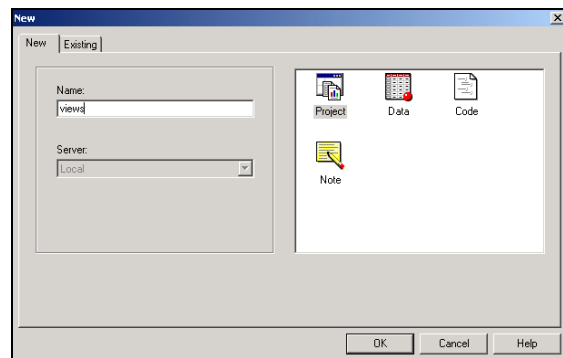
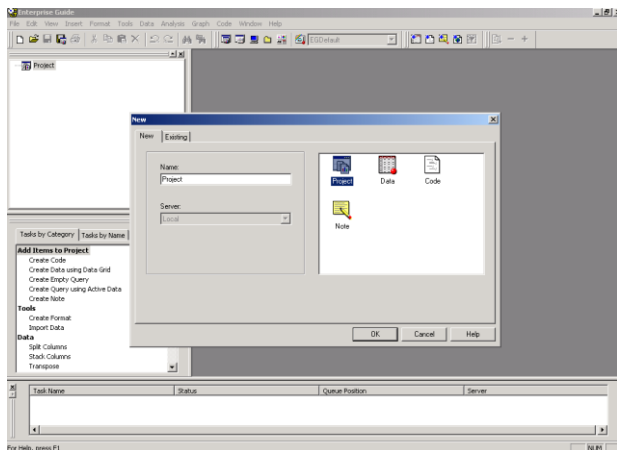
Enterprise Guide provides a true Windows point and click interface to the SAS system. Using interactive dialogs to guide users through SAS analytical and reporting tasks. It provides transparent data access to both SAS and non-SAS data. Users have the ability to export results to other Windows and server based applications.

Enterprise Guide is designed to give the user transparent access to data with a state of the art Windows look and feel; users can also customise their interface. A feature that will be welcomed is the ability to export results to other applications relatively easily.

STARTING A PROJECT

Enterprise Guide uses the concepts of projects, you must work within these projects, in version 1; however version 2 is more flexible and more closely represents the display manager environment in that any code can be opened at any time. You can add data, reports, files, code and save all of these entries under one project.

Create your project by selecting file, and new from the drop down menu.

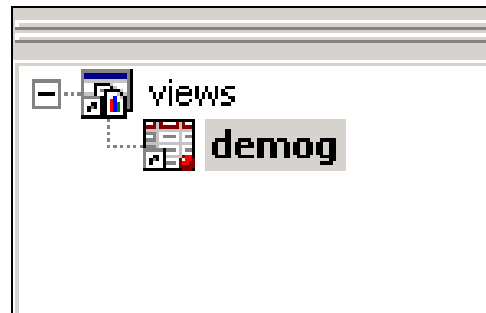


ADD TO YOUR PROJECT

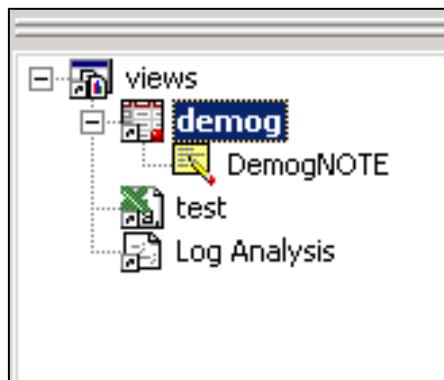
To build your project you have to add to it. You can add data in the form of SAS datasets or you can add other types of data, such as spreadsheets. You simply keep adding more data and bundling all the aspects of your project together in a collective form.

Choose File - New from the drop down menu, and you are given the choice to add existing data or new data to your project. Select existing and select a data type.

Below a SAS dataset has been added. It is added to the tree and opened by default.



You can add code, data, notes and files to your project.



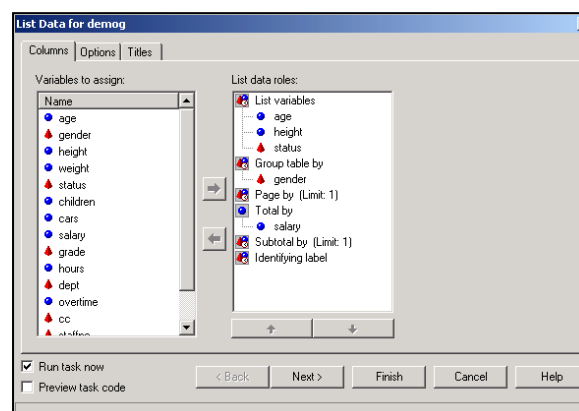
Above a note regarding the dataset has been added, as well as a spreadsheet called test, and some SAS code.

VIEW YOUR DATA

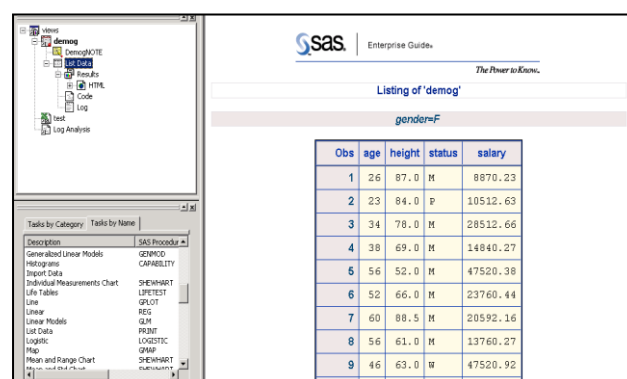
Enterprise Guide gives you the ability to view both SAS datasets and your files that you have added. You can open both directly within Enterprise Guide and they are shown in tabular form very similar to viewtable.

You can have many tables open at one time, and you have the ability to add, delete, modify and derive columns through point and click interface.

	age	gender	height	weight	status	children
1	26	F	87	74	M	1
2	23	F	84	88	P	1
3	34	F	78	72	M	2
4	38	F	69	56	M	2
5	56	F	52	60	M	3
6	52	F	66	69	M	5
7	60	F	88.5	71	M	3
8	56	F	61	61	M	0
9	46	F	63	76	WV	3
10	65	F	87	81	M	2
11	23	F	78	80	S	0
12	36	F	53	69	M	1
13	25	F	68	68	P	2
14	24	F	52	65	M	0
15	48	F	65	66	M	2
16	57	F	53	62	M	2
17	51	F	67	68	M	5
18	61	F	57	69	M	3
19	22	F	52	62	S	0
20	36	F	63	71	WV	1
21	55	F	87	71	M	2
22	43	F	62	73	M	2
23	61	F	55	62	M	2
24	21	F	63	62	M	2
25	45	F	82.5	72	M	1
26	25	F	58	54	S	0
27	28	F	56	52	S	0
28	19	F	56	59	S	0
29	35	F	59	57	M	2
30	30	F	66	63	P	1



View Your results:



Obs	age	height	status	salary
1	26	87.0	M	8870.23
2	23	84.0	P	10512.63
3	34	78.0	M	28512.66
4	38	69.0	M	14840.27
5	56	52.0	M	47520.38
6	52	66.0	M	23760.44
7	60	88.5	M	20592.16
8	56	61.0	M	13760.27
9	46	63.0	M	47520.92

TASKS

Tasks represent many of the commonly used procedures in Base SAS, SAS/STAT, SAS/GRAPH, SAS/MDDDB server, SAS/QC and SAS/ETS. They allow the user to use the wizard interface to create tasks without having to type any SAS code. The code is generated automatically. At any point the user can if they wish create their own code, this uses the Enhanced Editor add-in. Both the users own code and the task automatically generated code TASKS

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There is an example on most tasks screens showing how to build your task. It is an interactive point and click, interface, and the user can simply drag and drop the columns that they want to investigate.

There is information available regarding files, tables, the individual columns; and some options can be set from here. A few of the tasks use templates that the user can adapt for their specific requirements, e.g. Summary Tables.

The tasks do not cover the entire procedure syntax, but mainly the key elements of that procedure. The task list contains all the tasks that Enterprise Guide can create, therefore it is possible to create tasks for a procedure that the user does not have licensed, these will fail if they are ran.

Once you have built up a task you can choose to run it now or save for later. The task will remain part of your project unless you delete it. It can be run at any time, re-run or modified and re-run.

Build you task:

You can now view both the log and the code generated by selecting them from your tree. These will remain attached to this project even when the project is closed as long as it is saved. They will both be replace if you re-run your task.

```

/* Create a sorted dataset */
PROC SQL; DROP VIEW WORK._egtemp; QUIT;

PROC SORT DATA=ECLIB000.demog(KEEP=age height status gender salary)
OUT=WORK._egtemp;
BY gender;
RUN;

PROC PRINT DATA=WORK._egtemp_
LABEL
N;
VAR age height status;
BY gender;
SUM salary;
RUN;

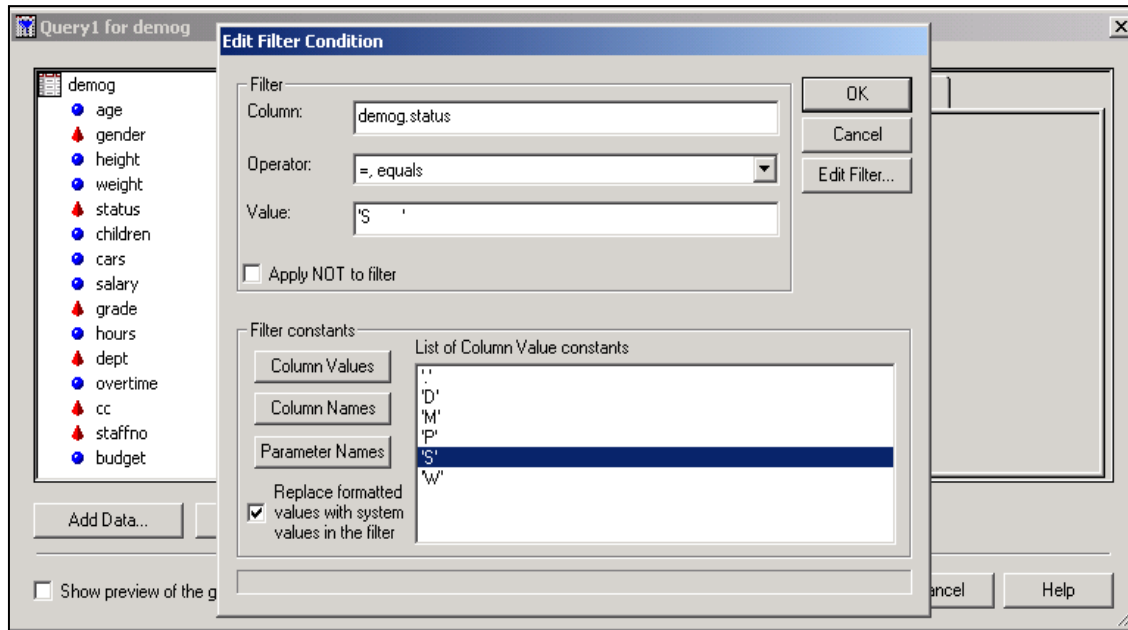
/* End of task code. */

PROC DELETE DATA=WORK._egtemp; RUN;
TITLE; FOOTNOTE; RUN;
%LET _EGTASKLABEL =;

```

QUERY YOUR DATA

Interactive wizards allow you to build up complex queries. Using simple coding techniques such as If Then Else. The user can filter their data without having to write any SAS code. Again we have a drag and drop interface. You can store queries, modify, delete and re-run them the same as you can with tasks.



The user can either type the value they want to filter, or Enterprise Guide will show the discreet values for them to choose.

Again the results of any query are stored within the project tree and can be viewed from here.

	status	age	gender
1	S	23	F
2	S	22	F
3	S	25	F
4	S	28	F
5	S	19	F
6	S	22	F
7	S	22	M
8	S	30	M
9	S	33	M
10	S	54	M
11	S	19	M
12	S	40	M
13	S	18	M
14	S	43	M
15	S	23	M
16	S	18	M
17	S	24	M
18	S	26	M
19	S	29	M
20	S	27	M
21	S	21	M
22	S	26	M
23	S	20	M
24	S	23	M

CONCLUSION

We have seen the key objective of Enterprise Guide is to be a thin-client application, and it has the ability to access SAS on local clients and remote servers.

Enterprise Guide is here to generate, edit and submit code that runs within the SAS environment. Making report creation, and data manipulation easier for SAS users. The idea being a user can do all of this without having to write any SAS code if they do not want to.

We have already seen an attempt to make this even more customisable by the user, as Enterprise Guide v2.0 allows users to add in their own tasks, building on the massive task list that already exists.

ENTERPRISE GUIDE: THE FUTURE

SAS Institute seems to be moving towards using Enterprise Guide as its preferred front end to the SAS System. They are promoting it extensively as an excellent reporting tool that takes away the need for highly skilled SAS programmes to produce reports. We wait with baited breath to see how it develops.

CONTACT INFORMATION

Your comments and questions are valued and encouraged.

Contact the author at:

Author Name	Lynn Pope
Company:	Amadeus Software Limited
Address:	Orchard Farm, Witney Lane, Leafield, Oxon OX29 9PG
Work Phone:	01993 878287
Fax:	01993 878042
Email:	LynnPope@amadeus.co.uk
Web:	www.amadeus.co.uk

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