Getting started with SAS enterprise guide
Host

Barrie Neill
Presenter

Peter Hobart
Managing the webinar

• Control bar opened with the white arrow in the orange box
What is your experience with SAS Enterprise Guide?
Getting started with sas enterprise guide

AGENDA

• What is SAS Enterprise Guide?
• An overview of the interface
• Opening a dataset or table
• Joining tables
• Filtering and Querying
• Reporting
• Resources
Are you a SAS Programmer?
What is SAS enterprise guide?

- Enterprise Guide is an easy to use tool for investigating your data
- It is also a powerful programming environment
- It can create and launch Stored Processes
- ....It's a code generator....
What version of SAS Enterprise Guide are you on?
## Key Features

### SAS / Enterprise Guide versions

<table>
<thead>
<tr>
<th>Feature</th>
<th>4.1</th>
<th>4.2</th>
<th>4.3</th>
<th>5.1</th>
<th>6.1</th>
<th>7.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Split code window / project view</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Stored process creation</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>SAS Report layout builder</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Post - it style project notes</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Conditional execution</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Code Autocomplete / syntax hints</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>SAS Code analyser (*enhanced)</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y*</td>
<td>Y*</td>
</tr>
<tr>
<td>Data Explorer</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Support for parallel execution</td>
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<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Export data as an XLSX file</td>
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<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Code re-layout on Ctrl+i</td>
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<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
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<tr>
<td>Log summary window</td>
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<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Code Versioning &amp; Data Step Debugger</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
</tr>
<tr>
<td>Bitness</td>
<td>32</td>
<td>32</td>
<td>32</td>
<td>32/64</td>
<td>32/64</td>
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</tr>
</tbody>
</table>
## Compatibility Matrix

### SAS / Enterprise Guide versions

<table>
<thead>
<tr>
<th></th>
<th>4.1</th>
<th>4.2</th>
<th>4.3</th>
<th>5.1</th>
<th>6.1</th>
<th>7.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.1</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>9.2</td>
<td>L</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y*</td>
<td>Y</td>
</tr>
<tr>
<td>9.3</td>
<td>N</td>
<td>N</td>
<td>Y*</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>9.4</td>
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<td>N</td>
<td>N</td>
<td>Y*</td>
<td>Y</td>
<td>Y</td>
</tr>
</tbody>
</table>

- **L**: Limited support (Enterprise Guide and SAS on same host, no metadata)
- *With appropriate hotfixes applied*
- Note SAS 9.4 is not supported on Windows XP

http://supportprod.unx.sas.com/kb/34/960.html
Exploring the interface
Using the interface

- Interface layout
- Getting data
- Preparing data
- Running a Task
- Mix and match tasks and coding
Interface

Main areas

Menu / Toolbar

Project Tree

Tasks
  - SAS Folders
  - Servers
  - Prompts
  - Data Explorations

Main work area:
  - Process flow
  - Data grid

Detailed Task Status

Search
Interface
Extensively customisable

• Windows
  • Open / Close
  • Resize
  • Dock left or right
  • Autohide

• Choose which other items to display using the View menu
  • Detailed Task Status
  • Project Log
  • Log Summary
Questions?
Opening a data set or a table
Using a task
First, get some data

• Adding data to a project - multiple methods
  • File > Open Data (SAS tables)
  • File > Import (XLS / XLSX / MDB / ACCDB / TXT / CSV /ASC / HTM etc...)
  • View>Servers... and navigate to the required item
  • Run SAS code to read or create data
  • Tasks > Data > Download
  • File > New > Data and type values into a new table

• By default, the table is added to the project and a window displays the first few rows
Using an Enterprise Guide Task

Demonstration
Using a task

Now choose a task

• Grouped by category under the Task menu
• Or select some data and right-click to choose an action
• Or use the task list window (bottom-left by default)
• (Or use code..)
Any questions?
Joining tables
Questions?
Filtering and querying
Questions?
Reporting on data
Using a Task
One-way frequencies

- Assign columns to the required roles
- As soon as the task has enough information the Run button is enabled
Using a task
One-way frequencies

• Results are added to the project and displayed
• Output types and styles can be customised
What document types do you use for reporting?
Questions?
Mix and Match: Exploding a pie segment

Demonstration
Mix and Match

• Use SAS Enterprise Guide as an aid in rapid application development

• For any task that is unfamiliar / used infrequently
  • Use the tasks and wizards to quickly get close to the desired result
  • Explore options without having to look up syntax
  • Then modify / extend the generated code as needed
Pie Chart task

Many options - but not one to explode a segment
Initial result
When you try editing the code this prompt appears

FOOTNOTE;
FOOTNOTE1 "Generated by the SAS System (&_SASSERVERNAME, &SY;
PROC GCHART DATA =WORK.SORTTempTableSorted
;
    PIE3D  Age /
    NOLEGEND
    SLICE=OUTSIDE
    PERCENT=NONE
    VALUE=OUTSIDE
    OTHER=4
    OTHERLABEL="Other"
    COUTLINE=BLACK
    DISCRETE
    NOHEADER
;
/* -------------------------------
Modify the new version of the code as needed

SINCAUSE OUTPUT = CONE
COUTLINE = BLACK
DISCRETE
NOHEADING
explore=13

The explore= option specifies values we want to pull out from the pie.
The final result
Questions?
Resources
More information and sources of help

SAS customer loyalty
Links to hundreds of free resources

White paper on ODS Excel

ODS focus area on support.sas.com
http://support.sas.com/rnd/base/ods/index.html
Tip sheets, white papers, more..
Thankyou