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What's New in SAS Enterprise Guide 4.2

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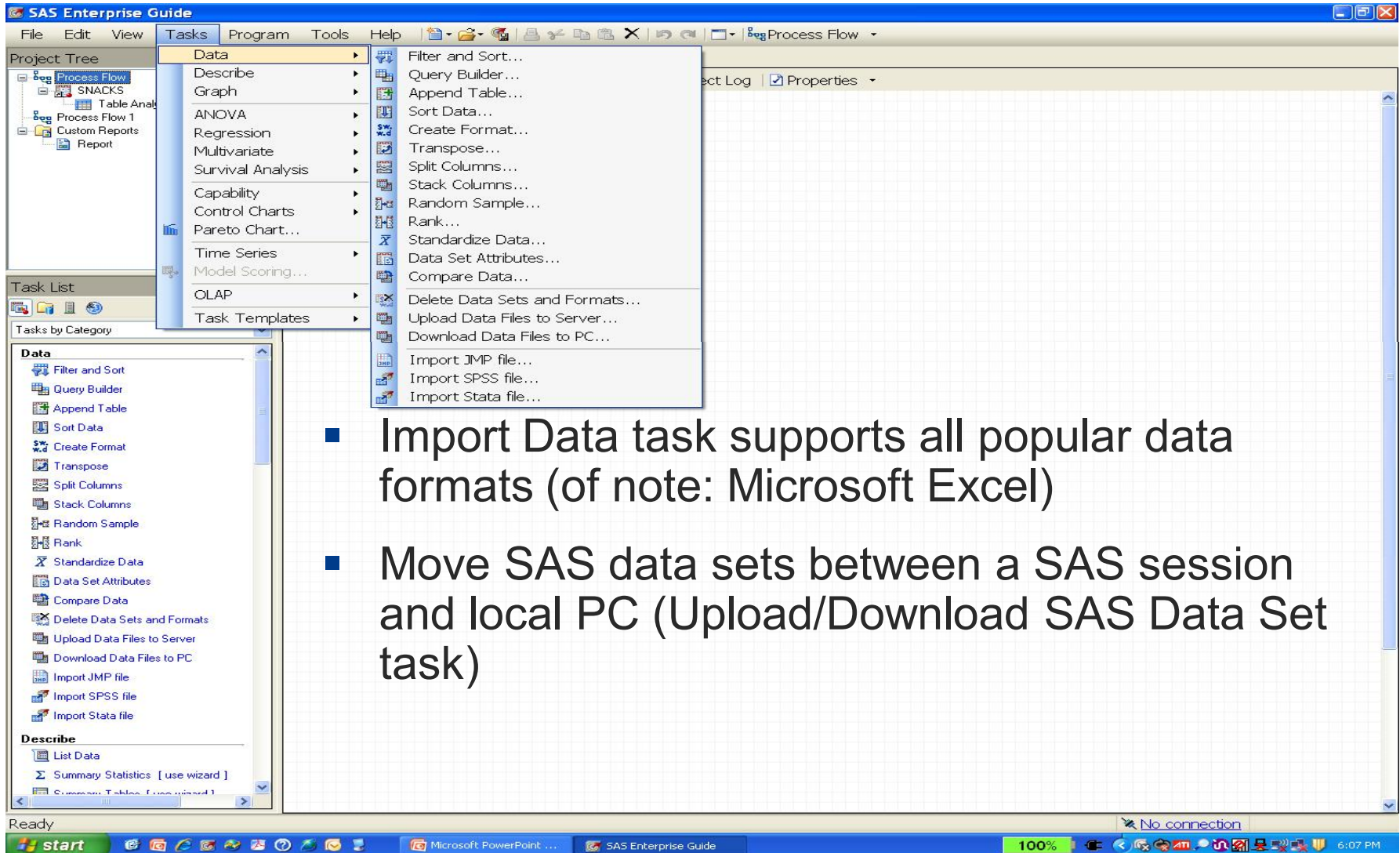
Agenda

- Changes to the Interface
- Tasks to Help Import/Export Your Data
- Improved Filtering & Sorting
 - Filter & Sort
 - Filter Data in Tasks
 - Query Builder
- New Tasks
 - Conditional Processing
 - Custom Tasks & Task Templates
 - New & Enhanced Tasks

Changes to the Interface

- Simplified interface
 - 7 top-level menu items (v4.1 had 13)
 - Dynamic, context-sensitive toolbar in the workspace
- Prompt Manager window
- You can now recover a project if SAS Enterprise Guide closes unexpectedly

Tasks to Help Import/Export Your Data

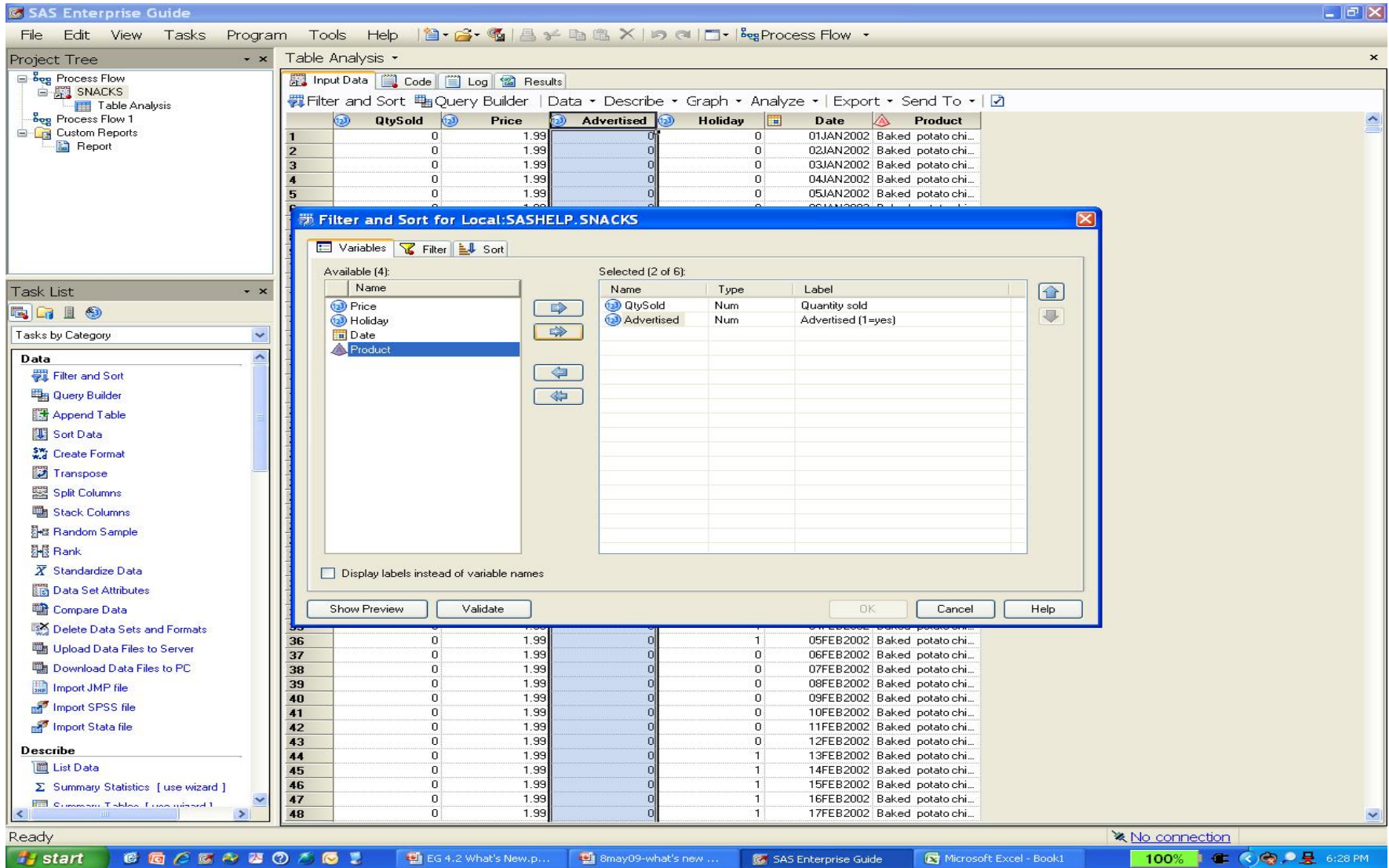


The screenshot displays the SAS Enterprise Guide interface. The 'Tasks' menu is open, showing a list of data-related tasks. A separate window titled 'Tasks by Category' is also visible, listing the same tasks under the 'Data' category.

- Filter and Sort...
- Describe
- Graph
- ANOVA
- Regression
- Multivariate
- Survival Analysis
- Capability
- Control Charts
- Pareto Chart...
- Time Series
- Model Scoring...
- OLAP
- Task Templates
- Query Builder...
- Append Table...
- Sort Data...
- Create Format...
- Transpose...
- Split Columns...
- Stack Columns...
- Random Sample...
- Rank...
- Standardize Data...
- Data Set Attributes...
- Compare Data...
- Delete Data Sets and Formats...
- Upload Data Files to Server...
- Download Data Files to PC...
- Import JMP file...
- Import SPSS file...
- Import Stata file...

- Import Data task supports all popular data formats (of note: Microsoft Excel)
- Move SAS data sets between a SAS session and local PC (Upload/Download SAS Data Set task)

Improved Filtering & Sorting



The screenshot displays the SAS Enterprise Guide interface. The main window shows a data table with columns: QtySold, Price, Advertised, Holiday, Date, and Product. A 'Filter and Sort' dialog box is open, showing the 'Available' list with Price, Holiday, Date, and Product, and the 'Selected' list with QtySold and Advertised. The 'Display labels instead of variable names' checkbox is unchecked.

Table Analysis - Filter and Sort

	QtySold	Price	Advertised	Holiday	Date	Product
1	0	1.99	0	0	01JAN2002	Baked potato chi...
2	0	1.99	0	0	02JAN2002	Baked potato chi...
3	0	1.99	0	0	03JAN2002	Baked potato chi...
4	0	1.99	0	0	04JAN2002	Baked potato chi...
5	0	1.99	0	0	05JAN2002	Baked potato chi...
...
36	0	1.99	0	1	05FEB2002	Baked potato chi...
37	0	1.99	0	0	06FEB2002	Baked potato chi...
38	0	1.99	0	0	07FEB2002	Baked potato chi...
39	0	1.99	0	0	08FEB2002	Baked potato chi...
40	0	1.99	0	0	09FEB2002	Baked potato chi...
41	0	1.99	0	0	10FEB2002	Baked potato chi...
42	0	1.99	0	0	11FEB2002	Baked potato chi...
43	0	1.99	0	0	12FEB2002	Baked potato chi...
44	0	1.99	0	1	13FEB2002	Baked potato chi...
45	0	1.99	0	1	14FEB2002	Baked potato chi...
46	0	1.99	0	1	15FEB2002	Baked potato chi...
47	0	1.99	0	1	16FEB2002	Baked potato chi...
48	0	1.99	0	1	17FEB2002	Baked potato chi...

Filter and Sort for Local:SASHELP.SNACKS

Available (4):

Name
Price
Holiday
Date
Product

Selected (2 of 6):

Name	Type	Label
QtySold	Num	Quantity sold
Advertised	Num	Advertised (1=yes)

Display labels instead of variable names

Buttons: Show Preview, Validate, OK, Cancel, Help

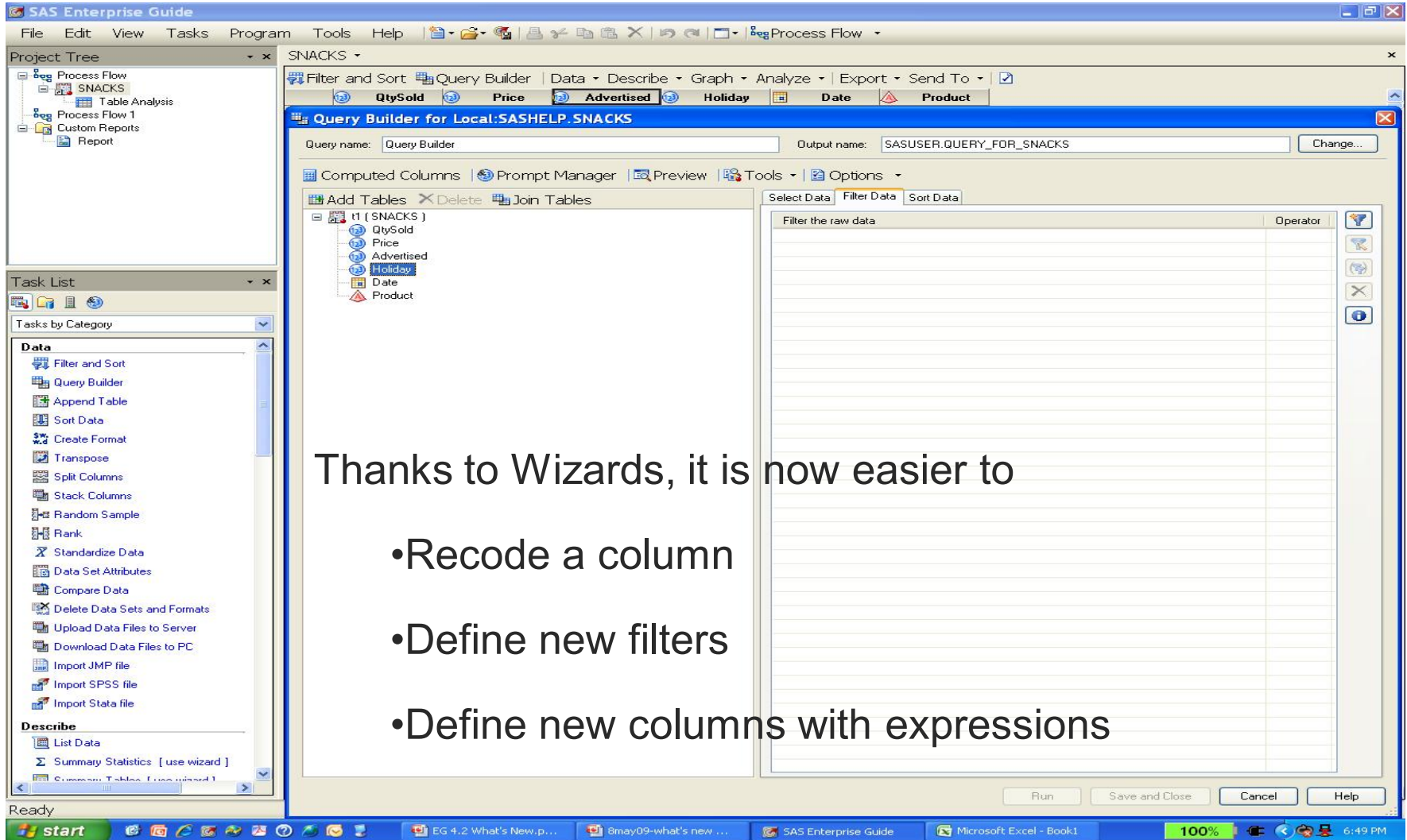
Filter & Sort

- Filter and Sort enables you to
 - select the variables to include when you open the data source in SAS Enterprise Guide
 - create a simple or advanced filter
 - specify the sort order for the data

Filter Data in Tasks

- Subset within the data itself (filter capabilities everywhere)

Enhancements to the Query Builder

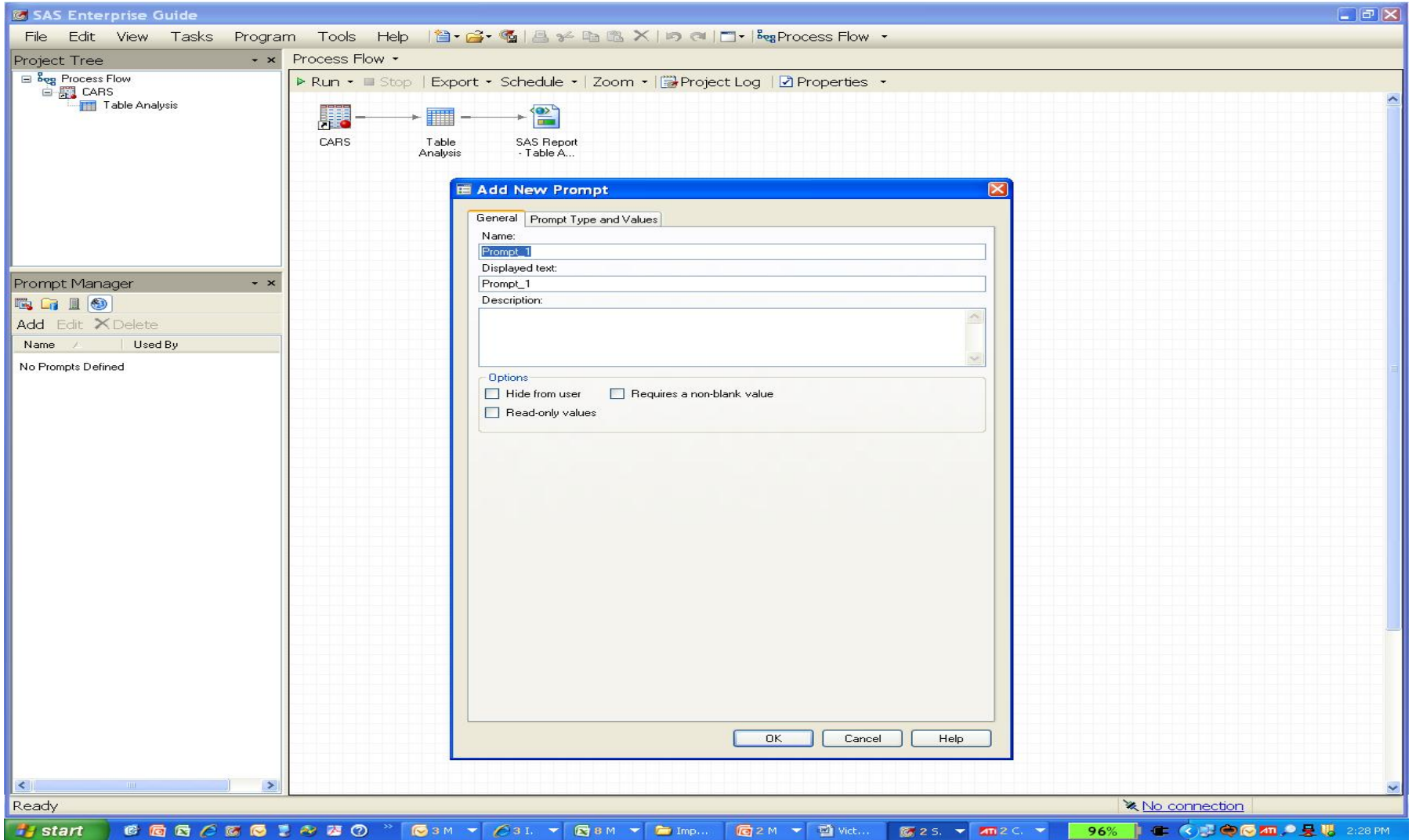


The screenshot shows the SAS Enterprise Guide interface. The main window is titled "Query Builder for Local:SASHELP.SNACKS". The "Computed Columns" section shows a table with the following columns: QtySold, Price, Advertised, Holiday, Date, and Product. The "Filter the raw data" section is currently empty. The "Task List" on the left shows various data manipulation tasks such as "Filter and Sort", "Query Builder", "Append Table", "Sort Data", "Create Format", "Transpose", "Split Columns", "Stack Columns", "Random Sample", "Rank", "Standardize Data", "Data Set Attributes", "Compare Data", "Delete Data Sets and Formats", "Upload Data Files to Server", "Download Data Files to PC", "Import JMP file", "Import SPSS file", and "Import Stata file".

Thanks to Wizards, it is now easier to

- Recode a column
- Define new filters
- Define new columns with expressions

Project Prompts

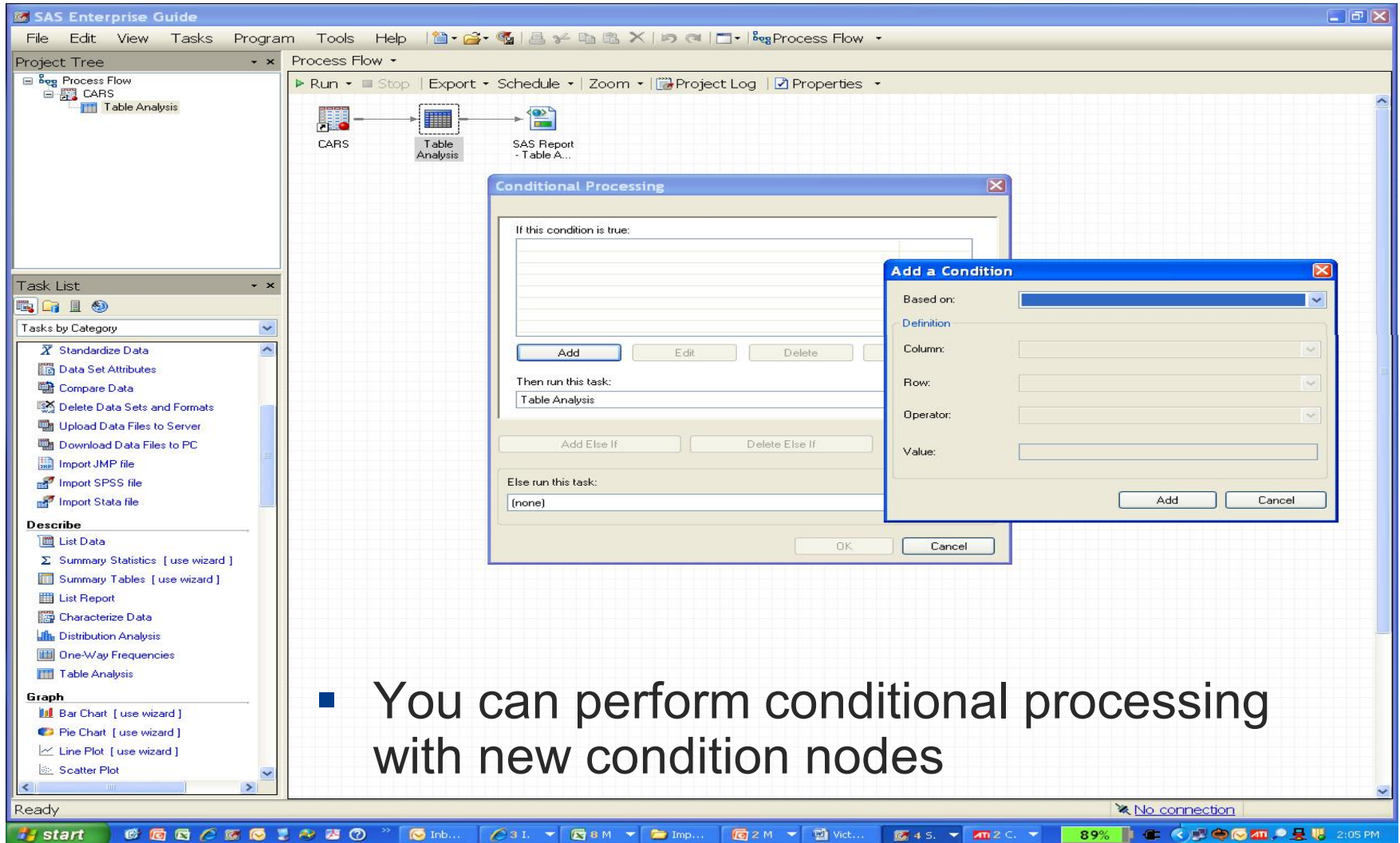


The screenshot displays the SAS Enterprise Guide interface. On the left, the 'Project Tree' shows a 'Process Flow' containing 'CARS' and 'Table Analysis'. Below it, the 'Prompt Manager' is empty, showing 'No Prompts Defined'. The main workspace shows a process flow diagram with three steps: 'CARS', 'Table Analysis', and 'SAS Report - Table A...'. A dialog box titled 'Add New Prompt' is open in the foreground, with the 'General' tab selected. The dialog contains the following fields and options:

- Name:** Prompt_1
- Displayed text:** Prompt_1
- Description:** (Empty text area)
- Options:**
 - Hide from user
 - Requires a non-blank value
 - Read-only values

Buttons for 'OK', 'Cancel', and 'Help' are at the bottom of the dialog. The status bar at the bottom of the window shows 'Ready' and 'No connection'.

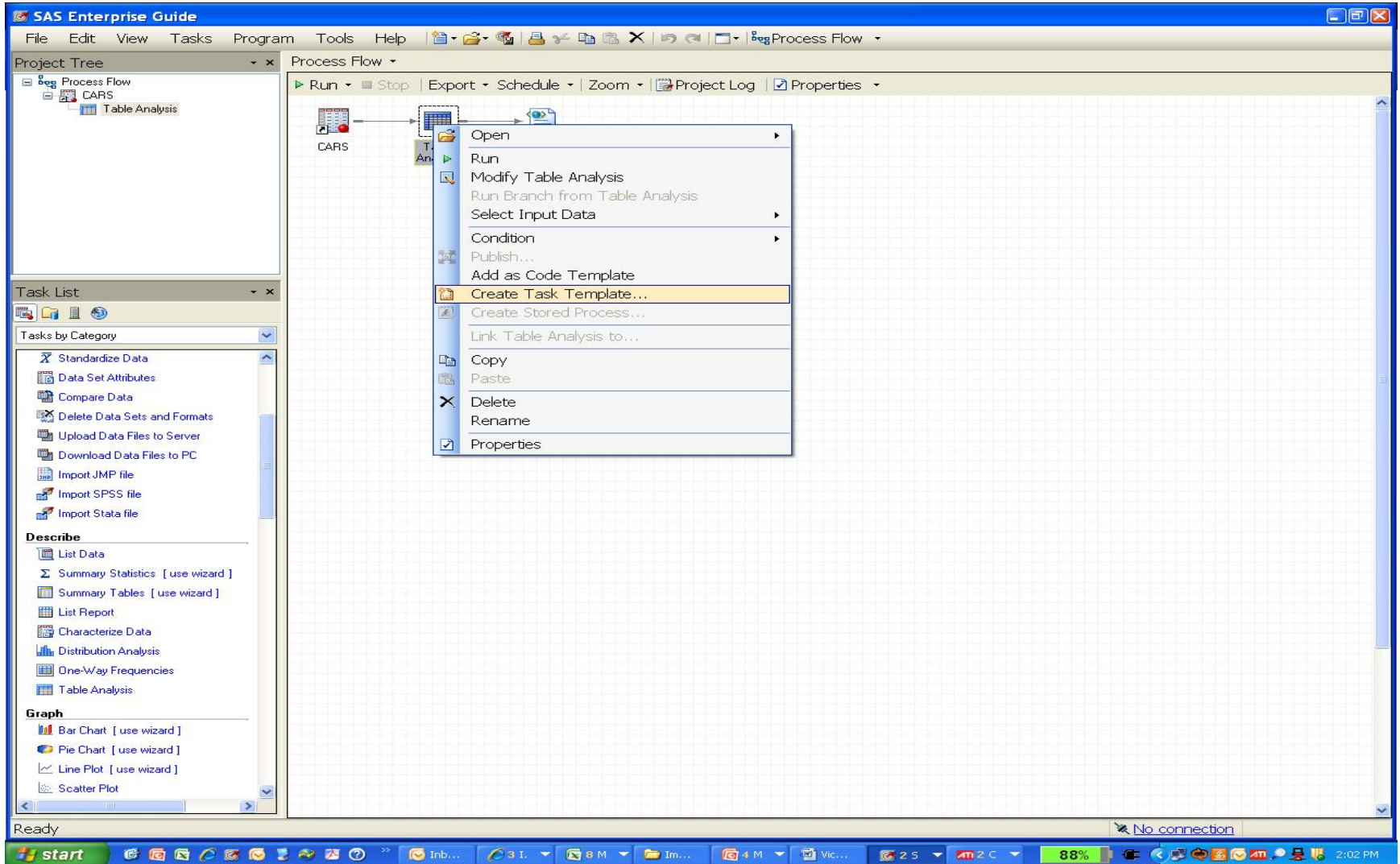
Conditional Processing



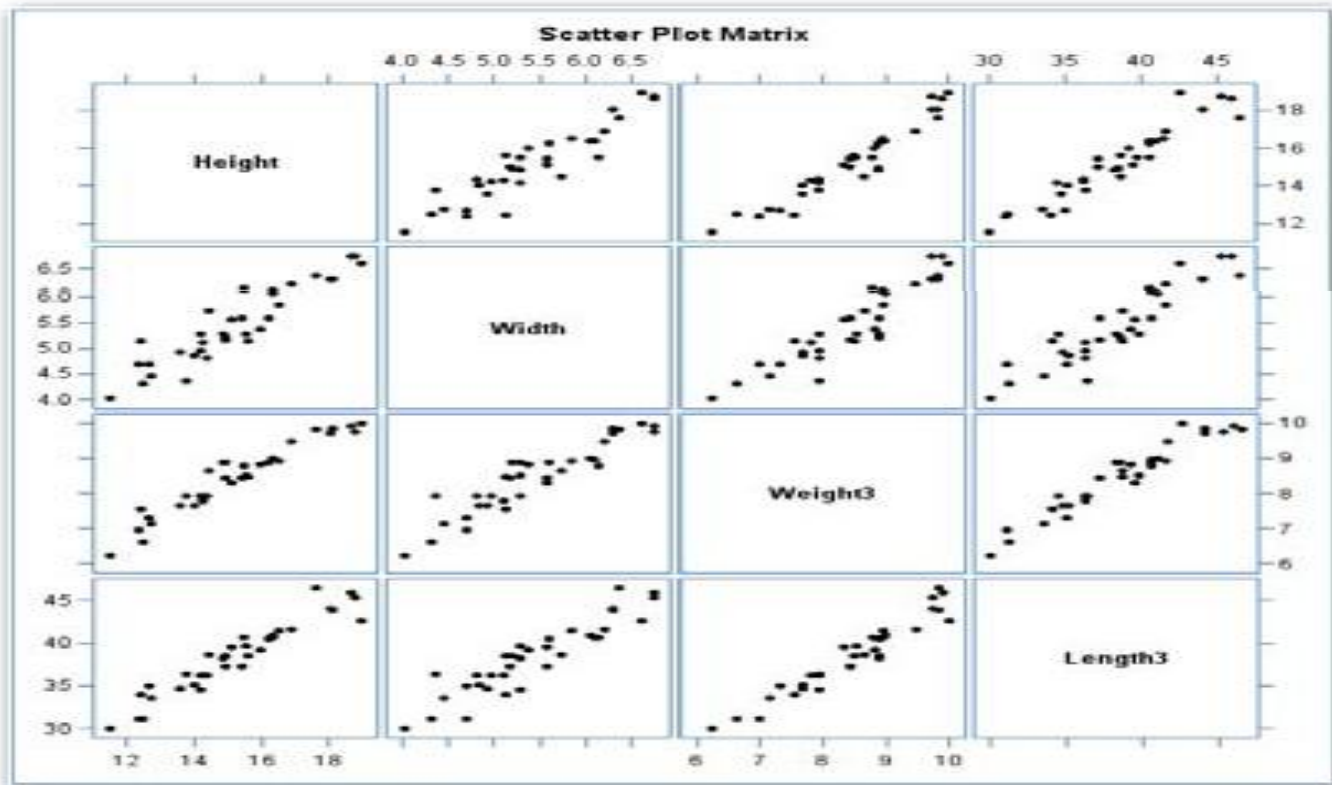
The screenshot displays the SAS Enterprise Guide interface. The main window shows a process flow diagram with three nodes: 'CARS', 'Table Analysis', and 'SAS Report - Table A...'. A 'Conditional Processing' dialog box is overlaid on the process flow, allowing users to define conditions for task execution. The dialog includes a text area for the condition, an 'Add' button, and a list of tasks to run if the condition is true. A sub-dialog 'Add a Condition' is also visible, providing options to define the condition based on a column, row, operator, and value.

- You can perform conditional processing with new condition nodes

Custom Tasks & Task Templates



New and Enhanced SAS Tasks: ODS Graphics



New and Enhanced SAS Tasks: Bar Chart

SAS Enterprise Guide

File Edit View Tasks Program Tools Help

Project Tree: Process Flow > CARS > Table Analysis > Bar Chart

Task List: Tasks by Category > Graph > Bar Chart [use wizard]

Bar Chart

Frequency

Type: Hybrid, SUV, Sedan, Sports, Truck, Wagon

Origin: USA, Europe, Asia

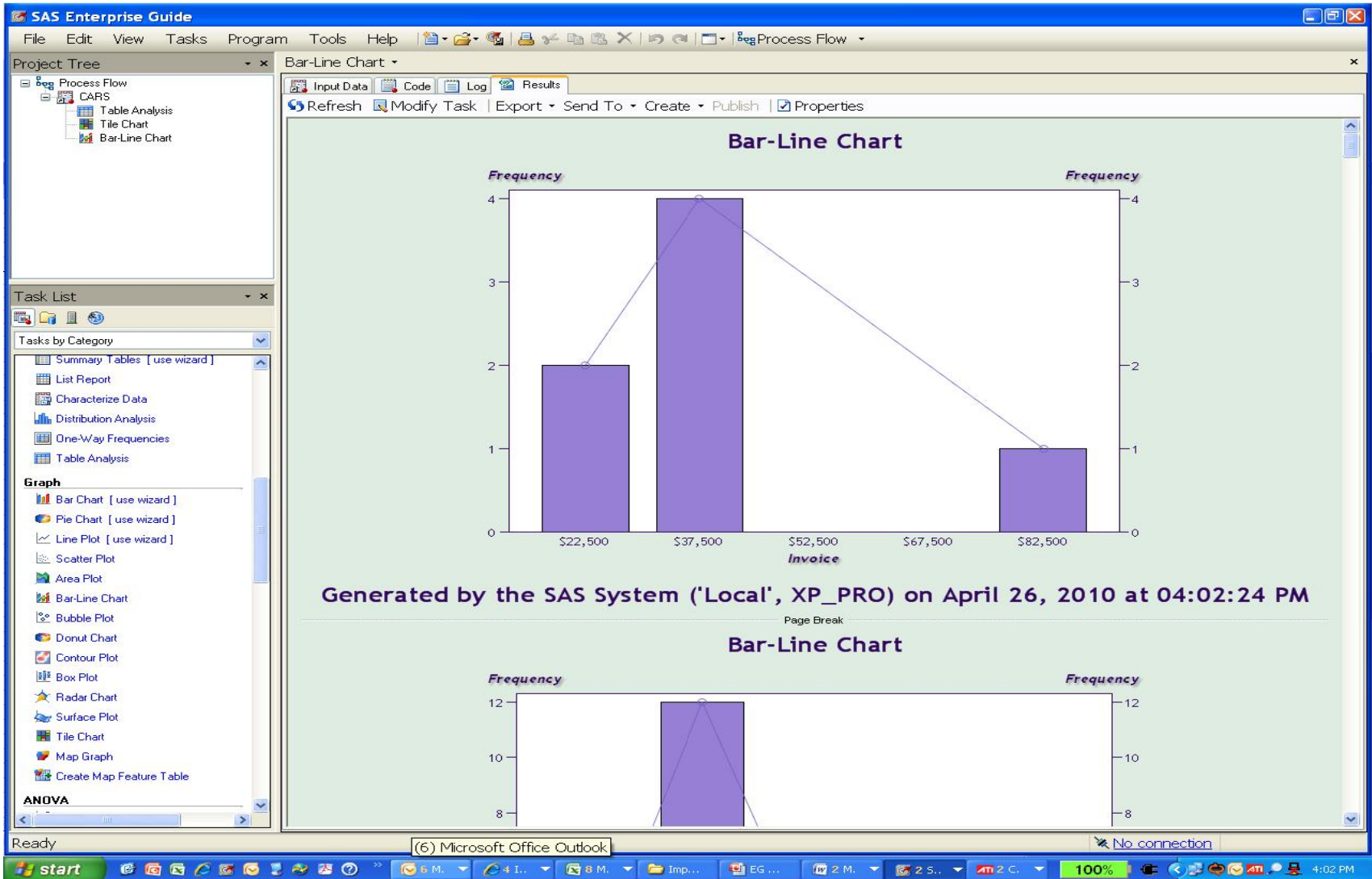
Generated by the SAS System ('Local', XP_PRO) on April 26, 2010 at 04:06:38 PM

Page Break

Ready

Windows Taskbar: start, 6 M., 4 I., 8 M., Imp..., EG..., 2 M., 2 S., 2 C., 100%, 4:06 PM

New and Enhanced SAS Tasks: Bar-Line Chart



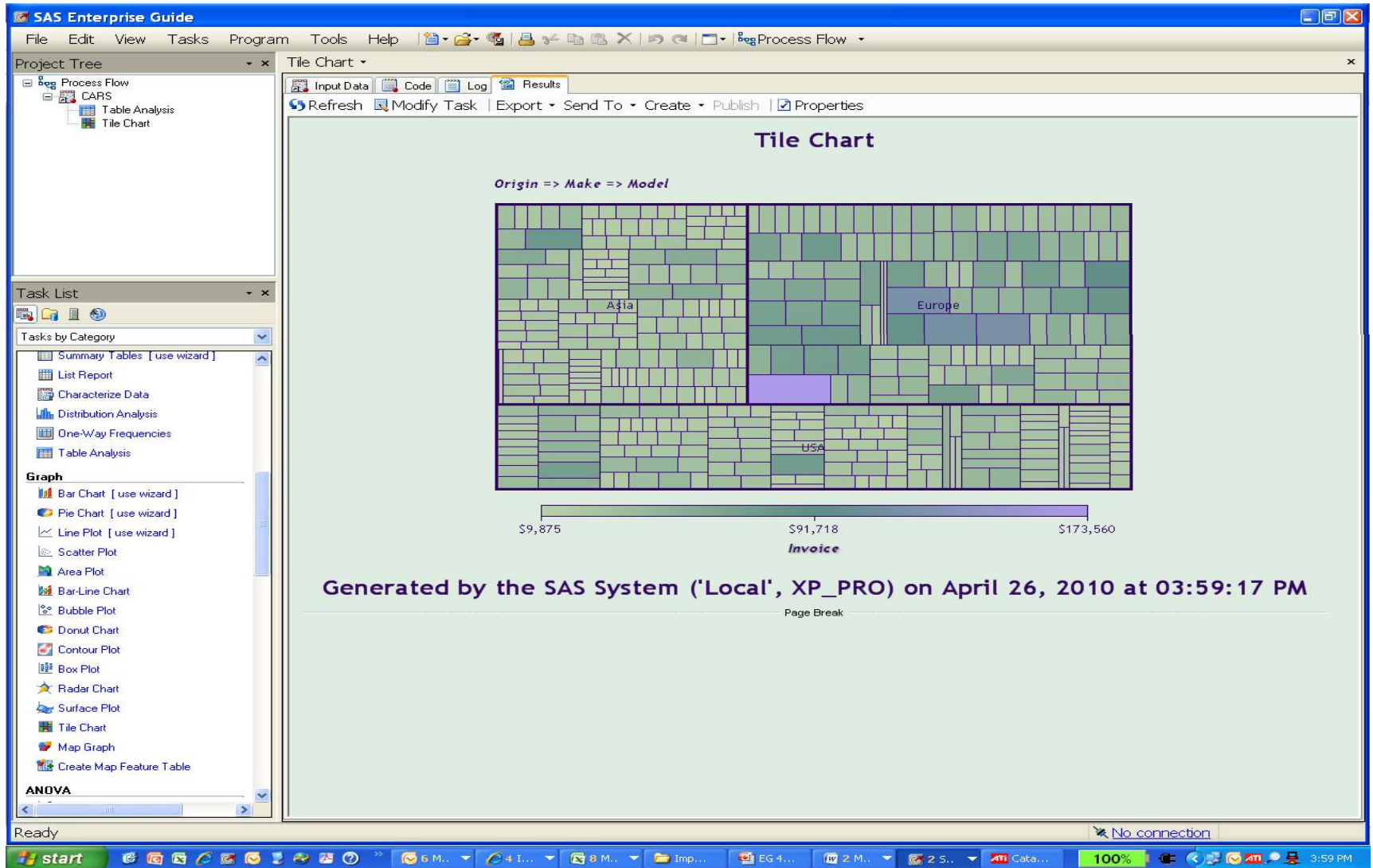
The screenshot shows the SAS Enterprise Guide interface with a 'Bar-Line Chart' task selected. The main window displays two charts. The top chart shows a distribution of invoice amounts with three bars and a connecting line. The bottom chart shows a single bar for the same invoice amount with a higher frequency.

Invoice	Frequency
\$22,500	2
\$37,500	4
\$82,500	1

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Invoice	Frequency
\$37,500	12

New and Enhanced SAS Tasks: Tile Chart



Coming Soon: EG 4.3!!!

- context sensitive keyword completion (syntax suggestion)
- code reverse engineering (see what old code is doing)
- an autoexec process flow for projects (runs automatically when project is opened)
- code analyzer (reads a program and turns it into a process flow)

Summary

- EG 4.2 more streamlined
- Lots of new graphical/statistical tasks
- Conditional processing makes scheduling recurring jobs easy



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