

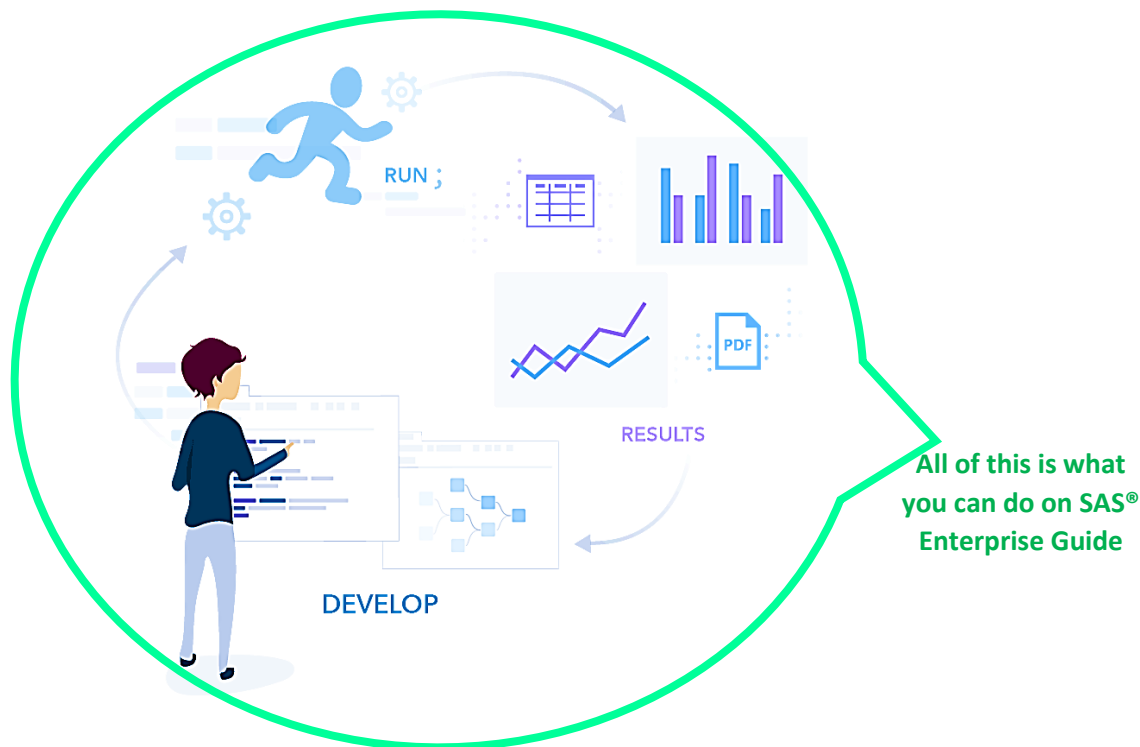
## Overview

### What Is SAS Enterprise Guide?

SAS Enterprise Guide is an easy-to-use **Windows client application** (was not cloud platform) that provides these features:


- access to much of the functionality of SAS
- an intuitive, visual, customizable interface
- transparent access to data
- ready-to-use tasks for analysis and reporting
- easy ways to export data and results to other applications
- scripting and automation
- a code editing facility

When you use SAS Enterprise Guide, you are also using SAS software behind the scenes. SAS Enterprise Guide can connect to SAS on your local computer, or it can connect to SAS on another computer called a SAS server. As you access data and build tasks, SAS Enterprise Guide generates SAS code. When you run a task, the generated code is sent to SAS for processing and the results are returned to SAS Enterprise Guide.



SAS Enterprise Guide also connects to a SAS Metadata Repository where information about objects is stored.

The images in this tutorial show SAS Enterprise Guide connected to a remote SAS server and a SAS Metadata Repository.

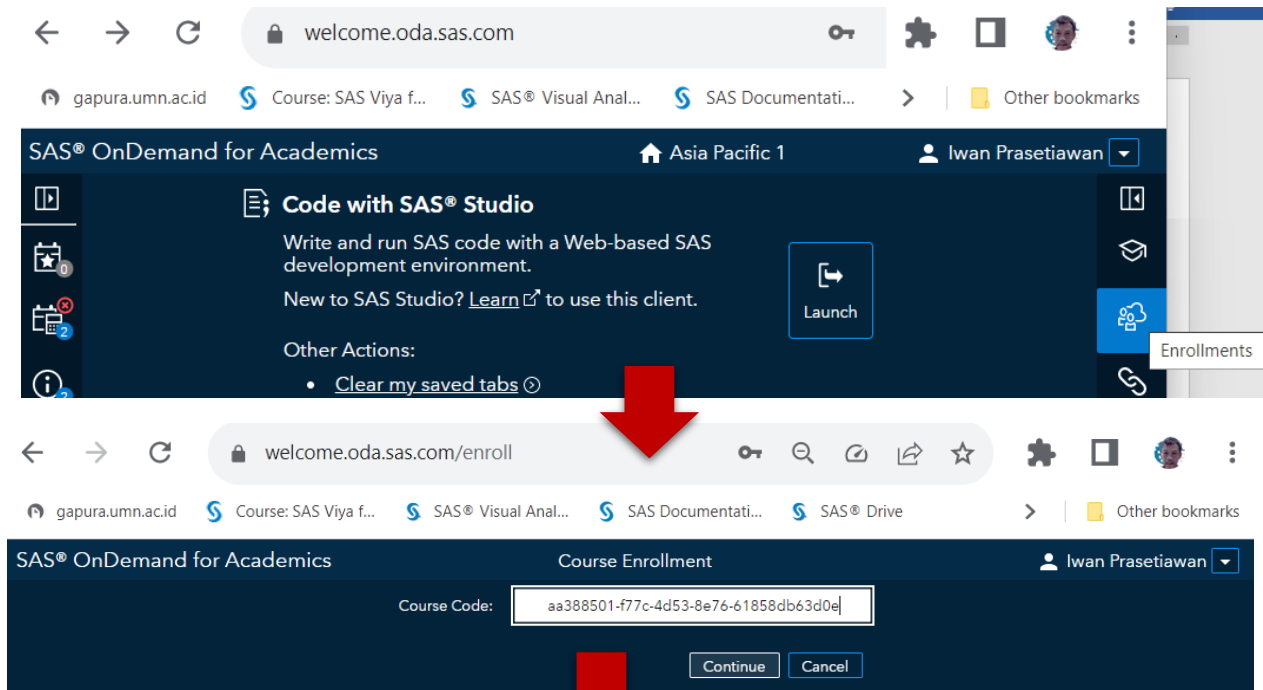
 If you are a SAS programmer, you can use SAS Enterprise Guide to write and submit SAS programs, and you can also modify the code that SAS Enterprise Guide generates.

## Get Started

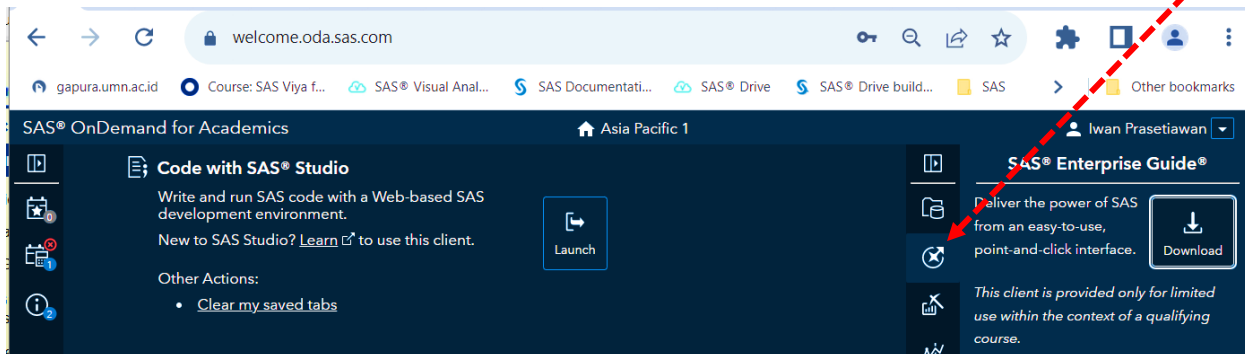
The first thing you do to use SAS® Enterprise Guide (EG) is to enter/ log in into your ODA Sas Account.

For the 1st time, please enroll the **IS429 BDA course** using of this code:

**aa388501-f77c-4d53-8e76-61858db63d0e**



After you register for the IS429 BDA course, the icon for the SAS Enterprise Guide will appear here:





Next you see the download icon in the upper left corner, and you download the Software SAS EQ on your laptop/ PC then follow the steps that are instructed.

The screenshot shows the SAS Support/Downloads page. The left sidebar contains a 'SUPPORT' section with links like 'Manage Tracks', 'SAS Administrators', 'Security Bulletins', 'License Assistance', 'Manage My Software Account', 'Downloads & Hot Fixes', and 'Knowledge Base'. The main content area is titled 'All Downloads' and 'Downloads'. It features the title 'SAS OnDemand for Academics: Enterprise Guide 8.3' and the release date 'Release 8.3 - August 2020'. A paragraph explains that the download package is available below and provides instructions for installation. A table lists the download details for Windows.

| SAS OnDemand for Academics: Enterprise Guide 8.3 |  |                                      |          |              |
|--|--|--------------------------------------|----------|--------------|
| Platform   | Description                                      | Request Download                     | Size     | Release Date |
| Windows  | SAS OnDemand for Academics: Enterprise Guide 8.3 | <a href="#">eguideoda_signed.exe</a> | 579.5 MB | 2020-08      |

**Keep in mind! Your laptop/ PC must have complete .NET framework software available.**

|  |                 |             |            |
|--|-----------------|-------------|------------|
|  dotnet-sdk-6.0.406-win-x64 | 14-Mar-23 21:22 | Application | 202,278 KB |
|  eguideoda_signed           | 14-Mar-23 21:18 | Application | 593,398 KB |

Next step to install the EG software:

The block contains two screenshots. The left screenshot shows the SAS sign-in page with the SAS logo, a 'Sign In' button, and input fields for email and password. The right screenshot shows the 'SAS OnDemand for Academics' installation window. It displays a 'Completed the SAS OnDemand for Academics Installation' message and a 'SAS Deployment Wizard' window. The wizard shows a list of installed components, including SAS Private Java Runtime Environment, SAS Deployment Manager, SAS Providers for OLE DB, SAS Integration Technologies Client, SAS Diagram Control, SAS/GRAPH ActiveX Control, SAS Enterprise Guide, Standalone Formats, SAS Proprietary Encryption, SAS/SECURE Client Components, and SAS/SECURE Toolkit Libraries from RSA. A 'Finish' button is visible at the bottom.

## Get Server Connection

Get Server Connection, in this case, you connect EG on your local machine to your ODA SAS account on the SAS Cloud platform, just like you use a data repository on SAS® Studio.

The screenshot displays the SAS Enterprise Guide 8.3 OnDemand for Academics (32-bit) application window. The title bar reads "Start Page - SAS Enterprise Guide". The menu bar includes File, Edit, View, Program, Tools, and Help. The toolbar contains icons for opening files, saving, and other standard functions. The "Open Items" pane on the left shows the "Start Page" as the only open item. The "Servers" pane on the left lists the following servers:

- Server Asia Pacific 1 (highlighted with a black box)
- SASApp (highlighted with a green box)
- Libraries (highlighted with a green box)
- Home (highlighted with a blue box)
- ~u59229493
- App DS
- L00552
- L00552 shared link
- L00552 shared-drive
- my\_forecast\_environment
- my\_shared\_file\_links
- sasuser.v94
- air.sas7bdat
- autoexec.sas
- baseball.sas7bdat

The "UID same as @ODA Cloud" (highlighted with a blue box) is shown in the "Servers" pane. The "Library as @ODA Cloud" (highlighted with a green box) is shown in the "Libraries" pane. The "Server Asia Pacific 1" (highlighted with a black box) is shown in the "Servers" pane. The "UID same as @ODA Cloud" (highlighted with a blue box) is shown in the "Servers" pane.

The main workspace area on the right contains the "Get Started" section with the following options:

- Create a new program
- Create a new project
- Open an existing file

Below the "Get Started" section is the "Learn" section with the following options:

- Learn SAS Enterprise Guide - videos, tutorials, and training
- Learn SAS programming

At the bottom of the workspace area is the "SAS Community" section with the following options:

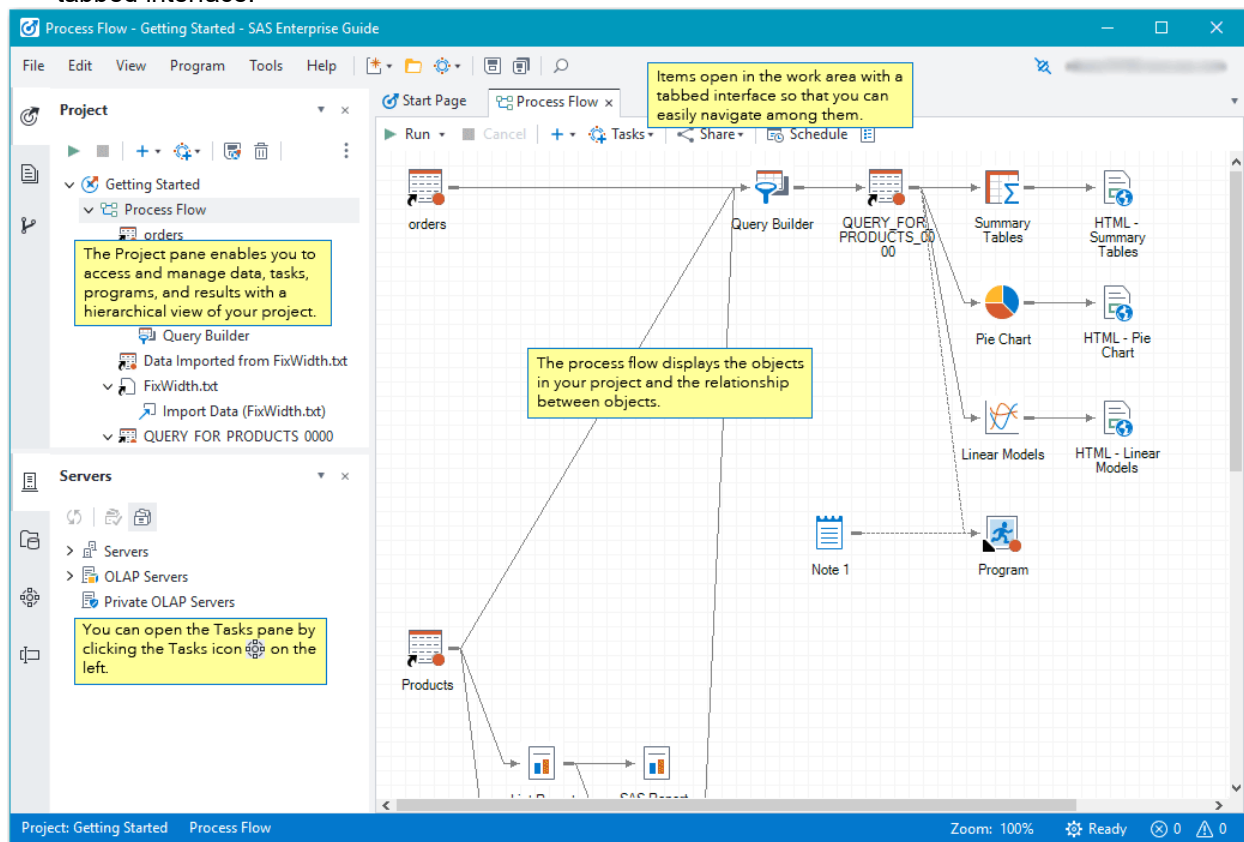
- Join the SAS Community
- Request a feature

## Overview

The first time you start SAS Enterprise Guide, the application is arranged in a default layout. This layout consists of the navigation area and the work area.

The navigation area is displayed by default on the left side of the SAS Enterprise Guide window, and it provides access to the following panes: Project, Open Items, Git Repositories, Servers, SAS Folders, Tasks, and Prompt Manager. By default, the Project and Servers panes are displayed.

The work area is the main area of the SAS Enterprise Guide application and is used to display your data, code, logs, task results, and process flows. At first, the Start Page tab is the only tab that is open in the work area. The Start Page provides quick access to a few basic tasks (for example, creating a program or project), a list of your recently viewed items, and links to learning resources. When you generate reports or open data, the items open in the work area with a tabbed interface.



If you customize your layout by closing, opening, or changing the position of windows, your changes are saved when you exit SAS Enterprise Guide. If you want to restore the default layout, you can select **View ► Reset to default layout**. If you close one of the application windows and want to restore it, you can select the pane name from the **View** menu.

Next you start SAS Enterprise Guide and create a project for this tutorial.

**Start SAS Enterprise Guide and Create a Project for This Tutorial**

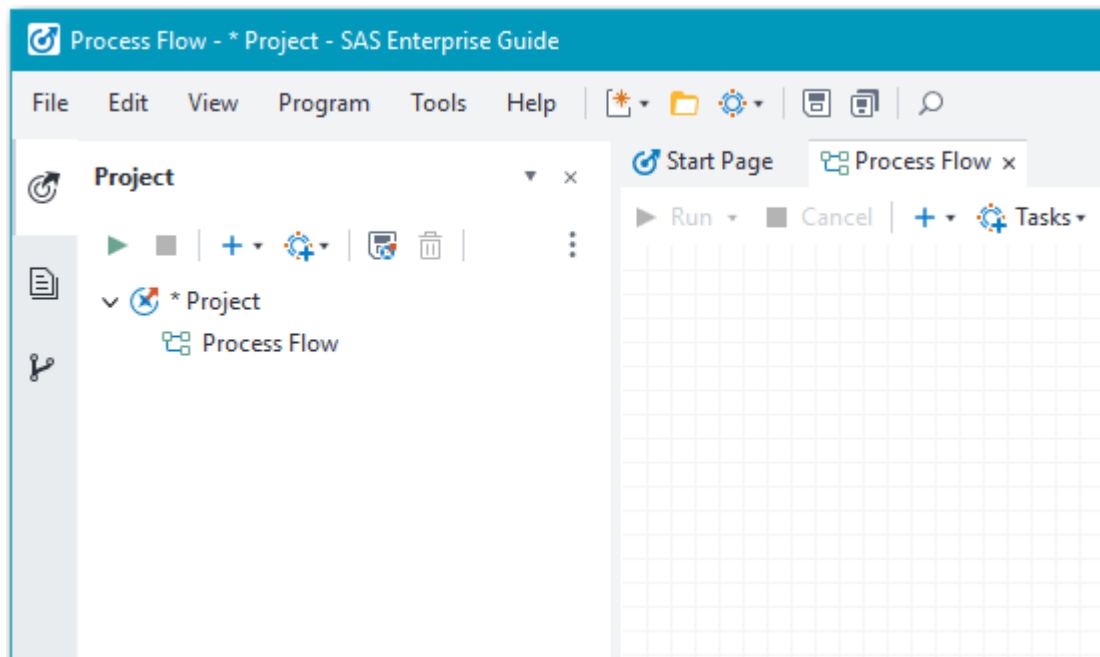
In these steps you create a project to store the data and results from the work that you do in this tutorial.

1. If SAS Enterprise Guide is not open, start it now. On the **Start Page** tab, click **Create a new project**.


If SAS Enterprise Guide is already open and the Start Page tab is not visible, you can select **File ► New ► Project**. If you already had a project open in SAS Enterprise Guide, you might be prompted to save the project. Select the appropriate response.

2. The new project opens with an empty Process Flow window.

Click  
to  
view  
the  
full



window.

 To open a project that you have saved in the past, select **File ► Open**, and then select the location where the project is saved.

Next you learn more about the project tree window.

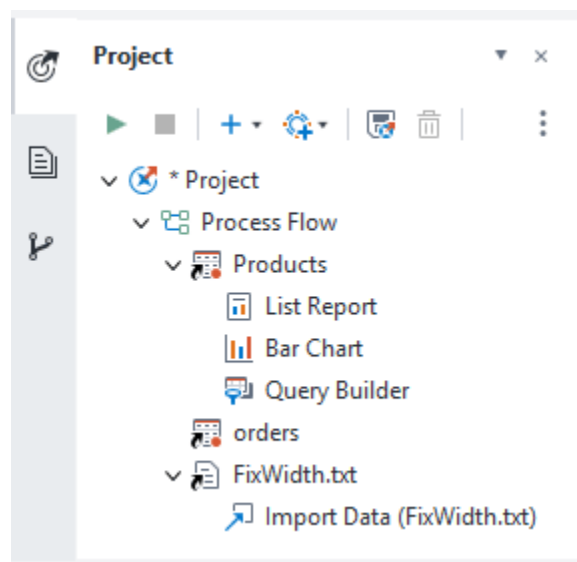
## The Project Tree

In SAS Enterprise Guide, you can save the work that you do in projects. A project is a collection of related data, tasks, programs, and results. The Project pane displays a hierarchical view of the active project and its associated data, programs, notes, and results.



A project is not required to run a program or work with data.

You can use the Project pane to manage the objects in your project. You can delete, rename, and reorder the items in the project. You can also run a project or schedule a project to run at a particular time.



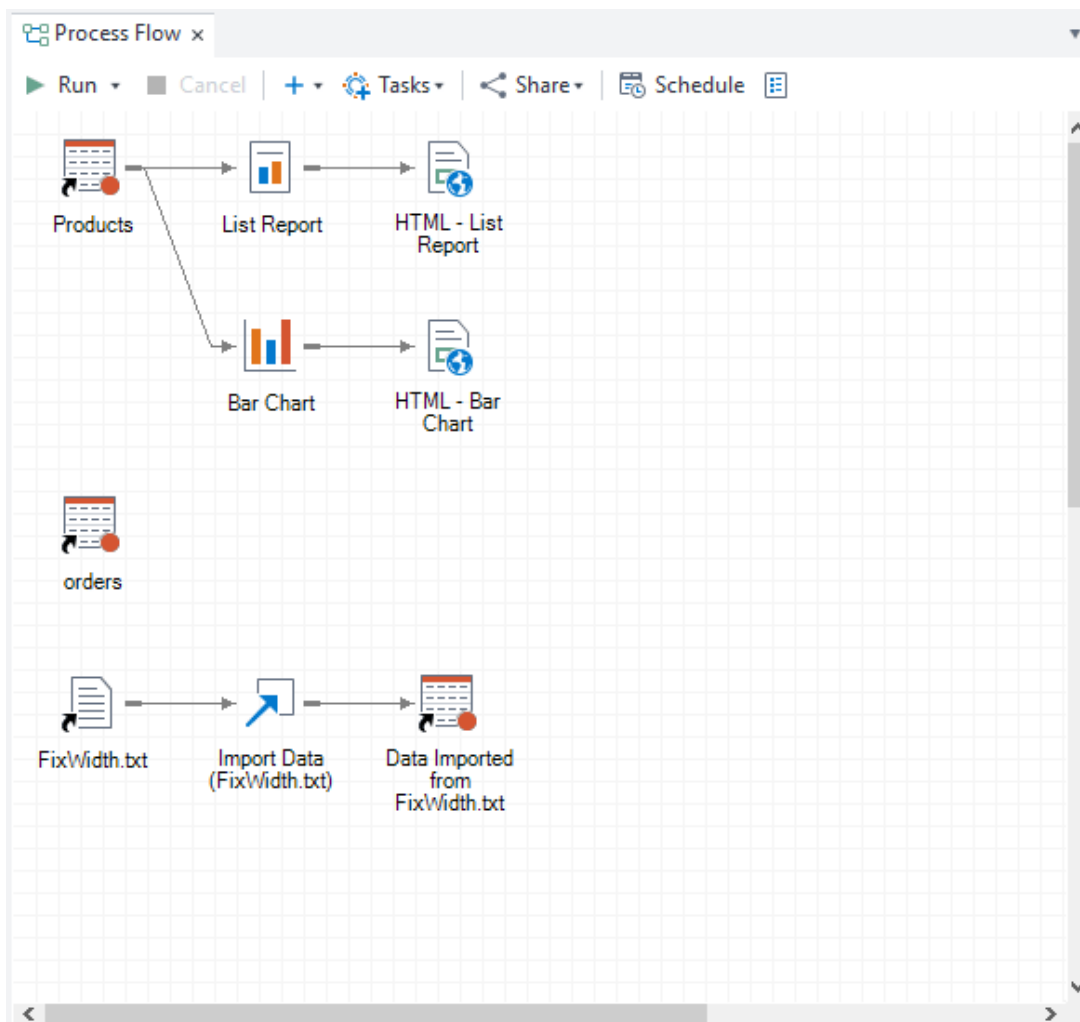
To learn more about what you can do in the Project pane, click in the window and press **F1**.

Next you learn about the work area and Process Flow.


### The Work Area and Process Flow

You can have one or more process flows in your project. When you create a new project, an empty Process Flow tab opens. As you add data, run tasks, and generate output, an icon for each object is added to the process flow. The process flow displays the objects in a project, any relationships that exist between the objects, and the order in which the objects will run when you run the process flow.

In the following Process Flow, the SAS data set Products is an input to the Bar Chart task, and the HTML object is an output of the task.




You can have multiple process flows for one project, and you can copy or move objects between process flows. You can also copy an entire process flow and paste it into the same project or paste it into another project. You can run a portion of the process flow or the entire process flow.

 To learn more about what you can do with process flows, click in the Process Flow tab and press **F1**.




Next you learn about the Tasks pane and the Task Status window.



## The Tasks Pane

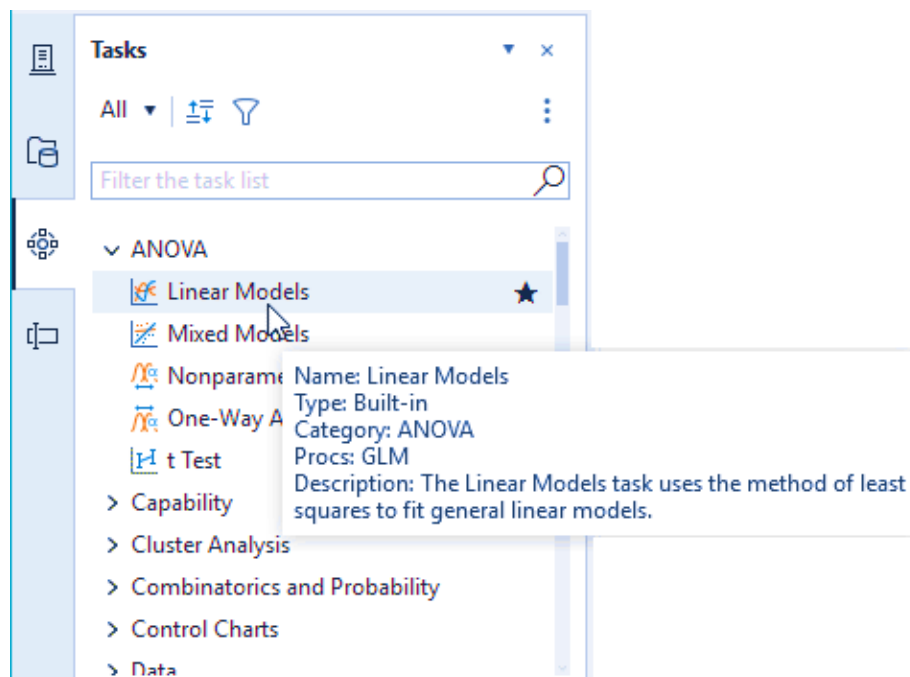
In SAS Enterprise Guide, you use tasks to do everything from manipulating data, to running specific analytical procedures, to creating reports. Many tasks are also available as wizards, which contain a limited number of options and can provide a quick and easy way to use some of the tasks. You choose tasks and wizards by using the Tasks pane or by using menus. The Tasks pane is hidden by default, but you can display it by clicking the **Tasks** button  in the navigation area in the lower left corner of the work area.

You can customize your view of the Tasks pane in the following ways:

- From the drop-down menu on the toolbar, select whether you want to view all of the tasks, tasks you have opened recently, or tasks you have saved as favorites. To save a task as a favorite, position the mouse pointer over the task name and click .
- Click  and select whether you want to sort the tasks by **Category** or **Name**.
- Click  to show or hide the filter panel. You can use the filter panel to specify the task category and type as well as the SAS PROC that is used in the task.

To learn more about a task, place your mouse pointer over the task name. From the flyout window, you can view the following information:

- the name of the task
- whether the task is a built-in task (in other words, a task that shipped with SAS Enterprise Guide), a custom task, or a SAS Studio task
- the category for the task
- the SAS procedures used in the task
- a brief description of the task



In this tutorial, you use the **Tasks** menu to select tasks.

## The Submission Status Pane

The Submission Status pane displays messages about the status of tasks as they are processing. The Submission Status pane is not displayed by default, but you can view it by selecting **View ► Submission Status**. The Process Flow window also displays a different background color around the task item for each phase of processing.

| Submission Status   |                   |   |                    |          |                   |              |
|---|-------------------|---|--------------------|----------|-------------------|--------------|
| <span>All</span>   <span>Errors</span>   <span>Warnings</span>   <span>Queued</span>   <span>Cancel All</span>   <span>Clear All</span> |                   |   |                    |          |                   |              |
| Name  | Completed         |   | Status Information | Run Time | Submitted         | Process Flow |
| List Report   | 5/6/19 2:31:40 PM | ✓ | Successful         | 1.736s   | 5/6/19 2:31:38 PM | Process Flow |
| Bar Chart   | 5/6/19 2:32:36 PM | ✓ | Successful         | 1.794s   | 5/6/19 2:32:35 PM | Process Flow |
| Query Builder   | 5/6/19 2:32:48 PM | ✓ | Successful         | 0.400s   | 5/6/19 2:32:47 PM | Process Flow |
| Import Data (FixWidth.txt)  | 5/6/19 2:33:38 PM | ✓ | Successful         | 1.729s   | 5/6/19 2:33:38 PM | Process Flow |

Next you learn about the help that is available with SAS Enterprise Guide.

## SAS Enterprise Guide Help

There are several ways that you can get help with your work in SAS Enterprise Guide. Comprehensive help is available by selecting **Help ► SAS Enterprise Guide help**. The documentation for SAS Enterprise Guide is available from the Help Center on [support.sas.com](http://support.sas.com). If your site does not have web access, you need to configure SAS Enterprise Guide to access the Help from locally saved PDFs. You must download these PDFs from the SAS Help Center.

