Data Analytics Tools & Technique

Chapter 2: Introduction to SAS Enterprise Guide

DA 6223

The University of Texas at San Antonio

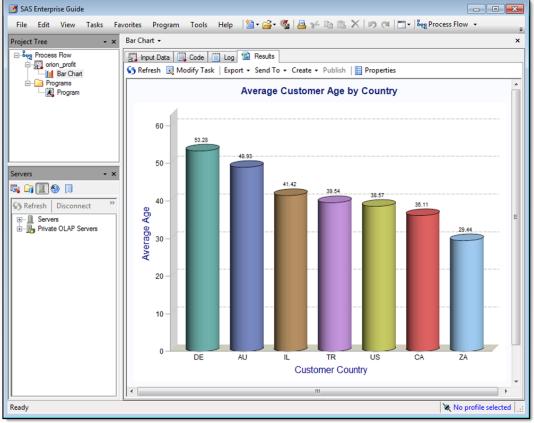
- The Process of Data Analysis
 - Accessing data sources
 - Combining tables
 - Transforming variables
 - Exploring and describing data
 - Visualizing patterns in the data
 - Analyzing and modeling data

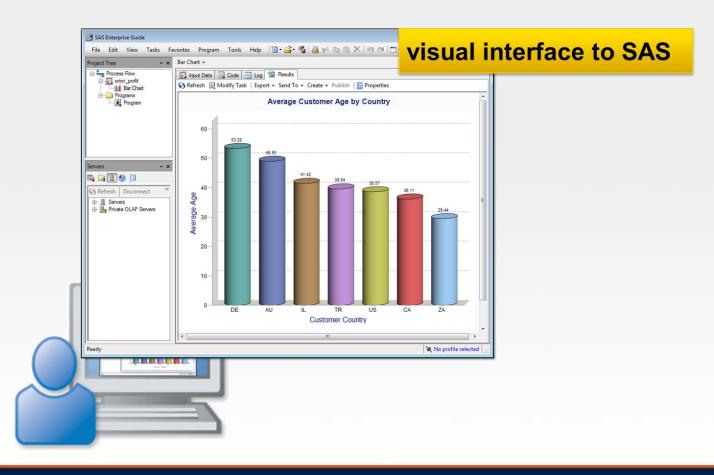
What is SAS?

SAS is a suite of business solutions and technologies to help organizations solve business problems.







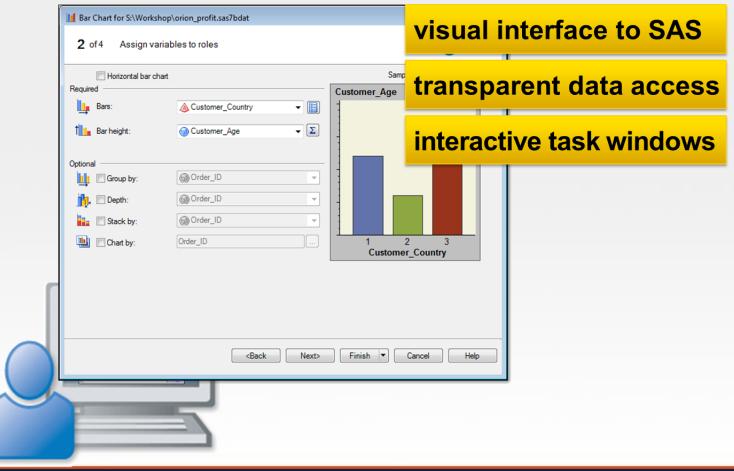


What is SAS Enterprise Guide?



visual interface to SAS

transparent data access



What is SAS Enterprise Guide?



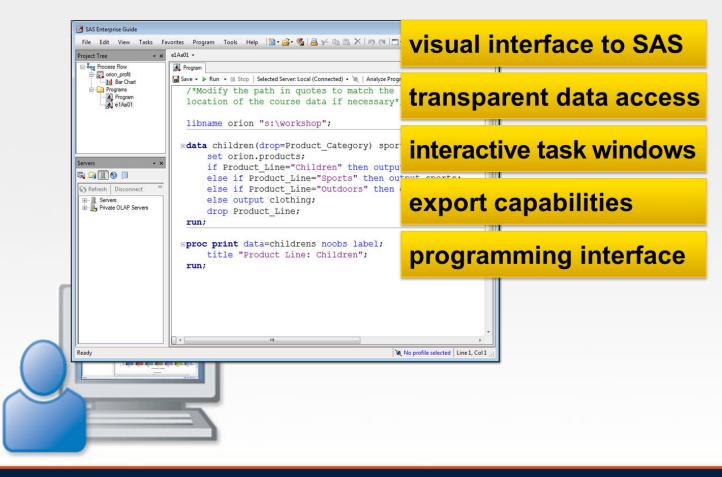
visual interface to SAS

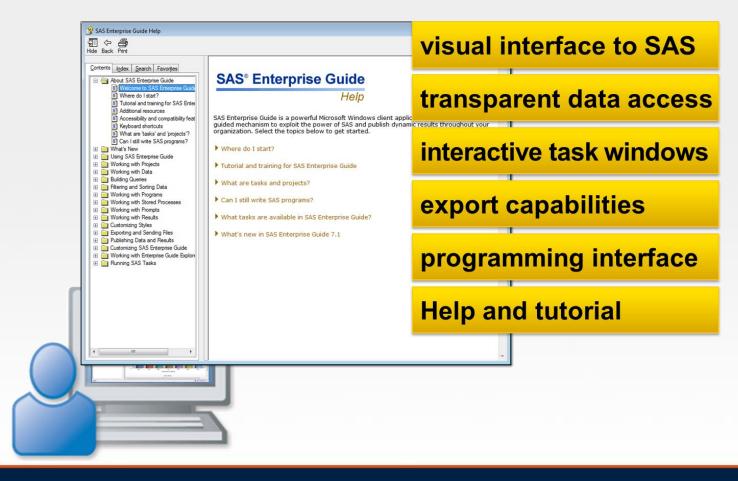
transparent data access

interactive task windows

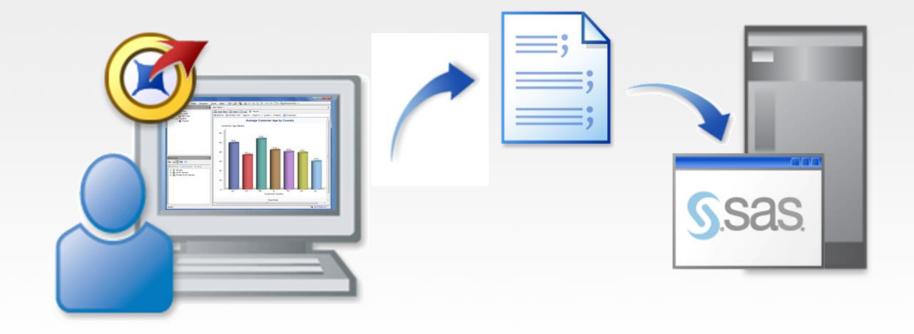
export capabilities



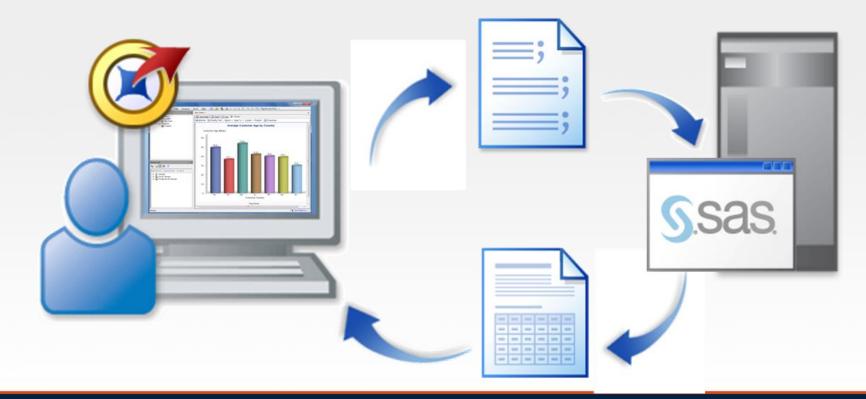




- Behind the Scenes
 - Enterprise Guide prepares SAS code, either generated through point-and-click tasks or written by the user, and submits the code to SAS.



Behind the Scenes
 SAS then executes the code and delivers the results to Enterprise Guide.



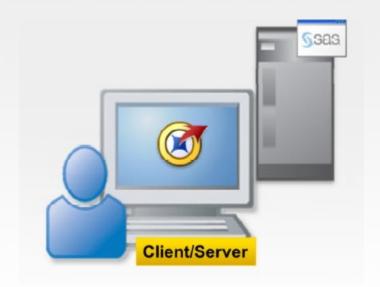
Configuration

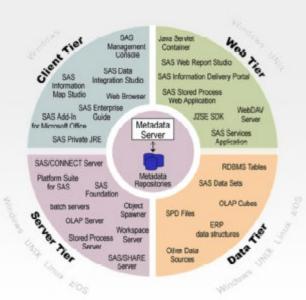
• Enterprise Guide can be configured to work with SAS either on a local PC or on a remote server.



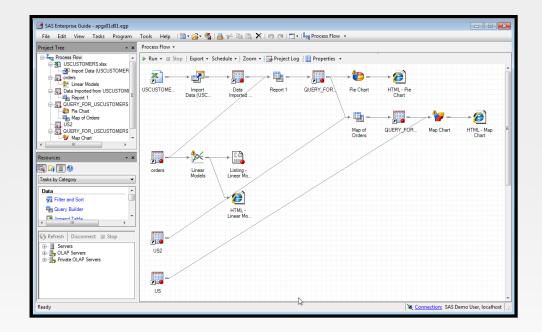
Configuration

• Enterprise Guide can also be used as part of the platform for SAS Business Analytics. Enterprise Guide includes additional features that are related specifically to the SAS platform.





- SAS Enterprise Guide Interface: The Project
 - A project serves as a collection of
 - data sources
 - SAS programs and logs
 - tasks and queries results
 - informational notes for documentation.



You can control the contents, sequencing, and updating of a project.

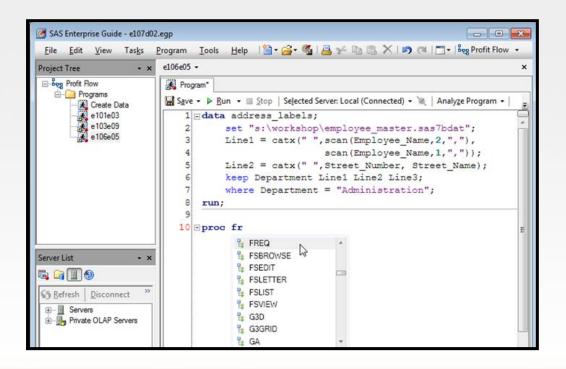
- Building a SAS Enterprise Guide Project
 To begin work with SAS Enterprise Guide, you
 - 1. create a new project
 - 2. add data to the project
 - 3. run tasks against the data.



Additionally, you can

- 4. customize results
- 5. automate the process.

- SAS Enterprise Guide Interface
 - SAS Enterprise Guide also includes a full programming interface that can be used to write, edit, and submit SAS programs.



Orion Star Sports & Outdoors



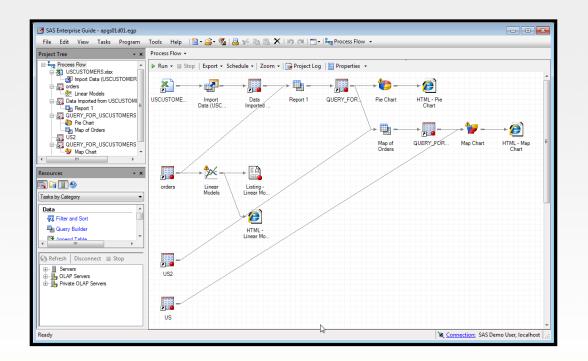
For most demonstrations and exercises, you will use data from Orion Star Sports & Outdoors. This is a fictitious global sports and outdoors retailer with traditional stores, an online store, and a large catalog business.

The corporate headquarters is located in the United States with offices and stores in many countries throughout the world.

Orion Star has approximately 1,000 employees and 90,000 customers, processes approximately 150,000 orders annually, and purchases products from 64 suppliers.

Orion Star Project

Throughout the course, you build SAS Enterprise Guide projects that access, combine, transform, explore, and analyze data.



Overview Demonstration

This demonstration illustrates the use of SAS Enterprise Guide to analyze the profits for sporting goods by state among U.S. customer orders from the southwest sales region.

Many of the tasks shown in this demonstration are discussed later in the course. This demonstration is intended as a broad overview of a typical data analysis case study.

• Demonstration: Navigating SAS Enterprise Guide Workspace

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