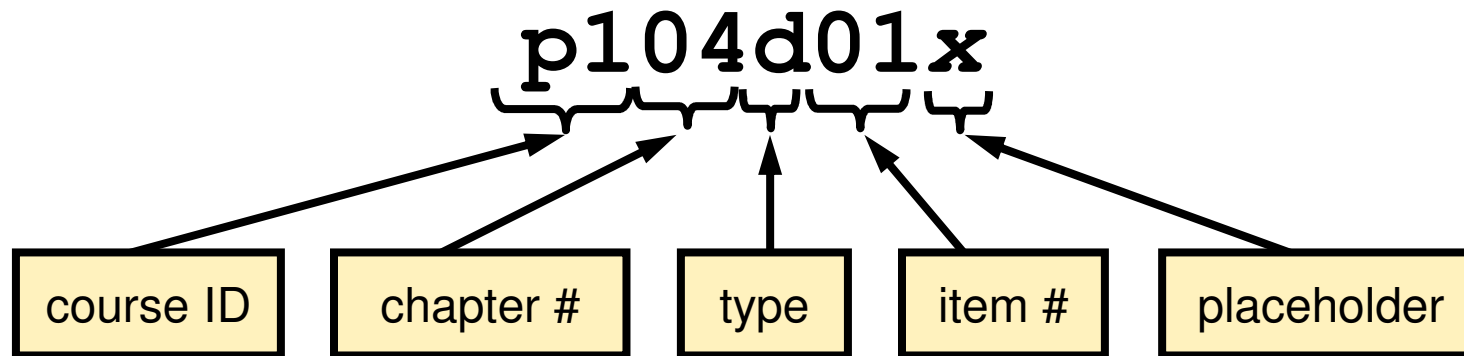# Chapter 1: Introduction

## 1.1  Course Logistics

## 1.2  An Overview of Foundation SAS

# Objectives

- Explain the naming convention that is used for the course files.

- Compare the three levels of exercises that are used in the course.

- Describe at a high level how data is used and stored at Orion Star Sports & Outdoors.

- Navigate to the Help facility.

# Filename Conventions

$$\text{p104d01}x$$

| course ID | chapter # | type | item # | placeholder |

| Code | Type |
|------|------|
| a | Activity |
| d | Demo |
| e | Exercise |
| s | Solution |

- p104a01
- p104a02
- p104a02s
- **p104d01**
- p104d02
- p104e01
- p104e02
- p104s01
- p104s02

Example:
The Programming 1 course ID is p1, so p104d01 = Programming 1 Chapter 4, Demo 1.

3

# Three Levels of Exercises

| | |
|---|---|
| **Level 1** | The exercise mimics an example presented in the section. |
| **Level 2** | Less information and guidance are provided in the exercise instructions. |
| **Level 3** | Only the task you are to perform or the results to be obtained are provided. Typically, you will need to use the Help facility. |

✎ You are not expected to complete all of the exercises in the time allotted. Choose the exercise or exercises that are at the level you are most comfortable with.

# Orion Star Sports & Outdoors



Orion Star Sports & Outdoors 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 about 1,000 employees and 90,000 customers, processes approximately 150,000 orders annually, and purchases products from 64 suppliers.
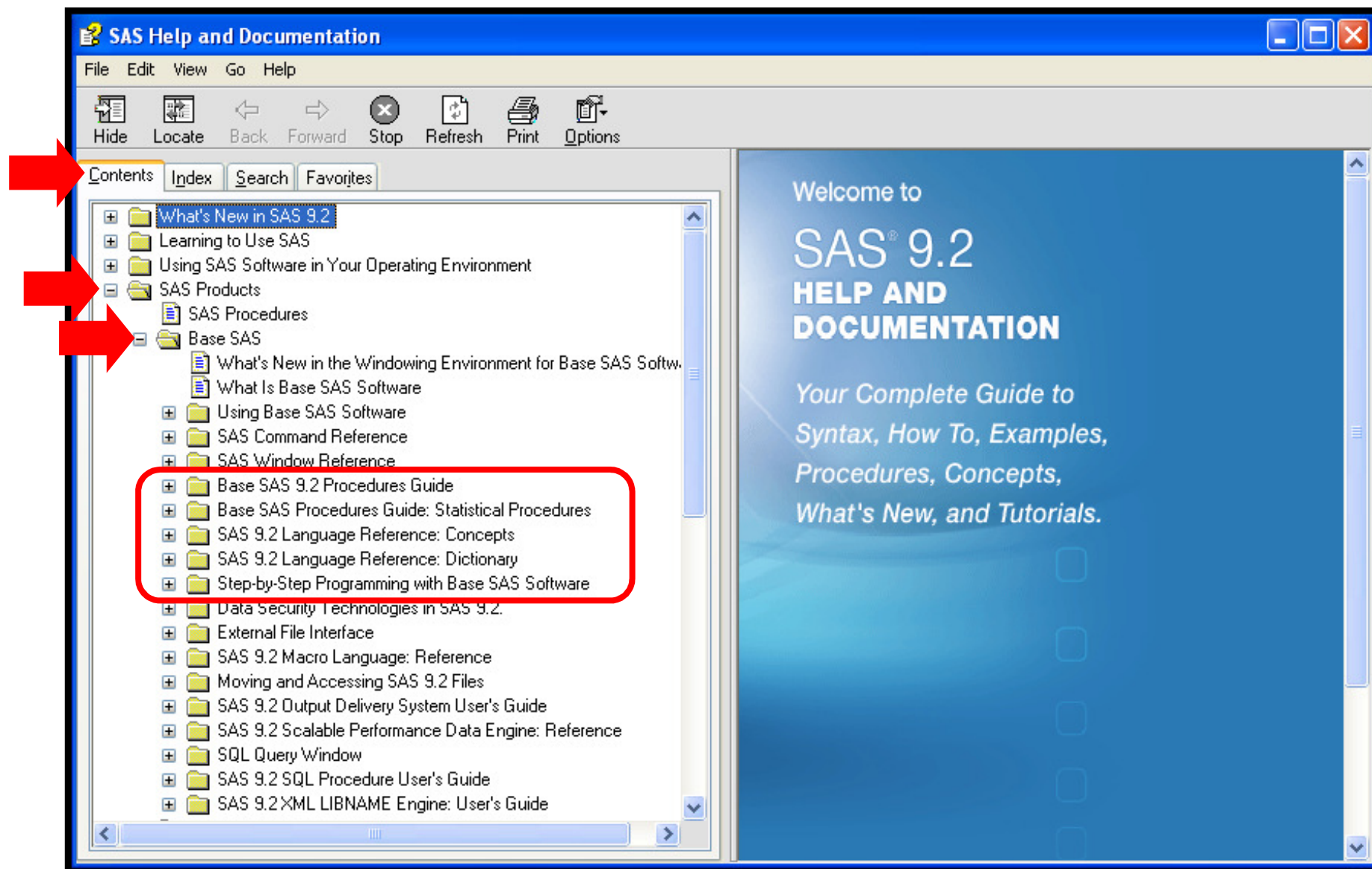
# Orion Star Data

As is the case with most organizations, Orion Star has a large amount of data about its customers, suppliers, products, and employees. Much of this information is stored in transactional systems in various formats.

Using applications and processes such as SAS Data Integration Studio, this transactional information was extracted, transformed, and loaded into a data warehouse.
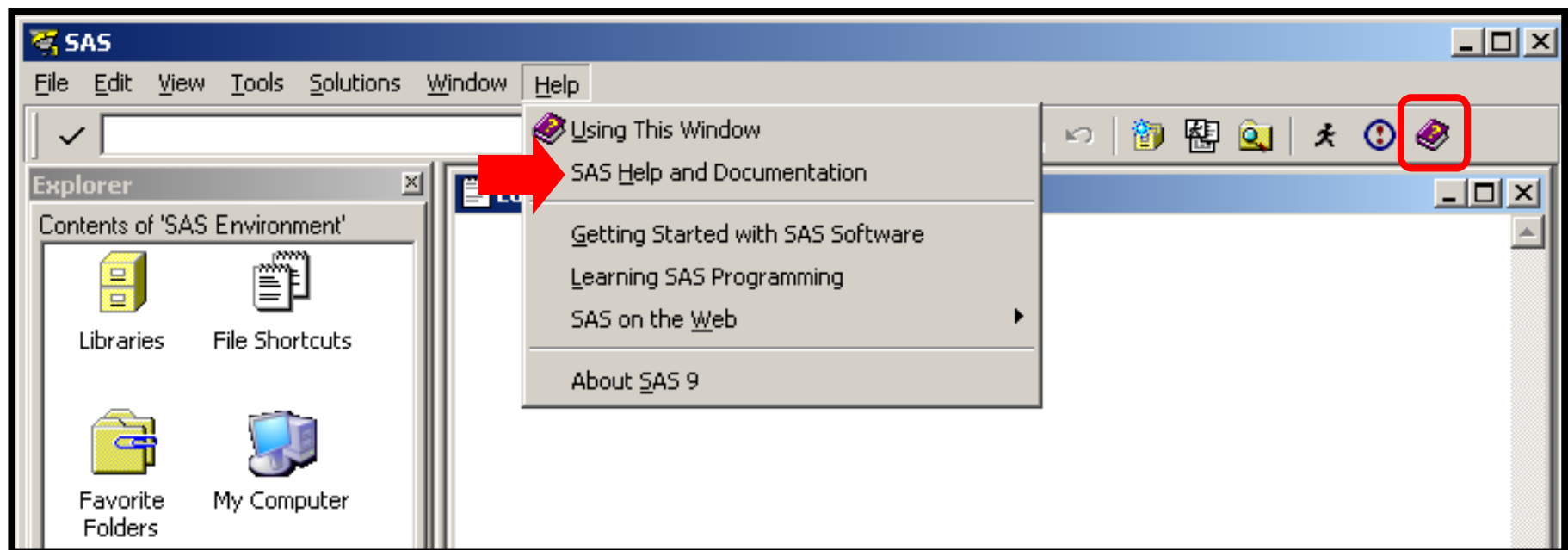
Data marts were created to meet the needs of specific departments such as Marketing.

# The SAS Help Facility

# Setup for the Poll

- Start your SAS session.
- Open the Help facility.

# 1.01 Poll

Were you able to open the Help facility in your SAS session?

○ Yes

○ No
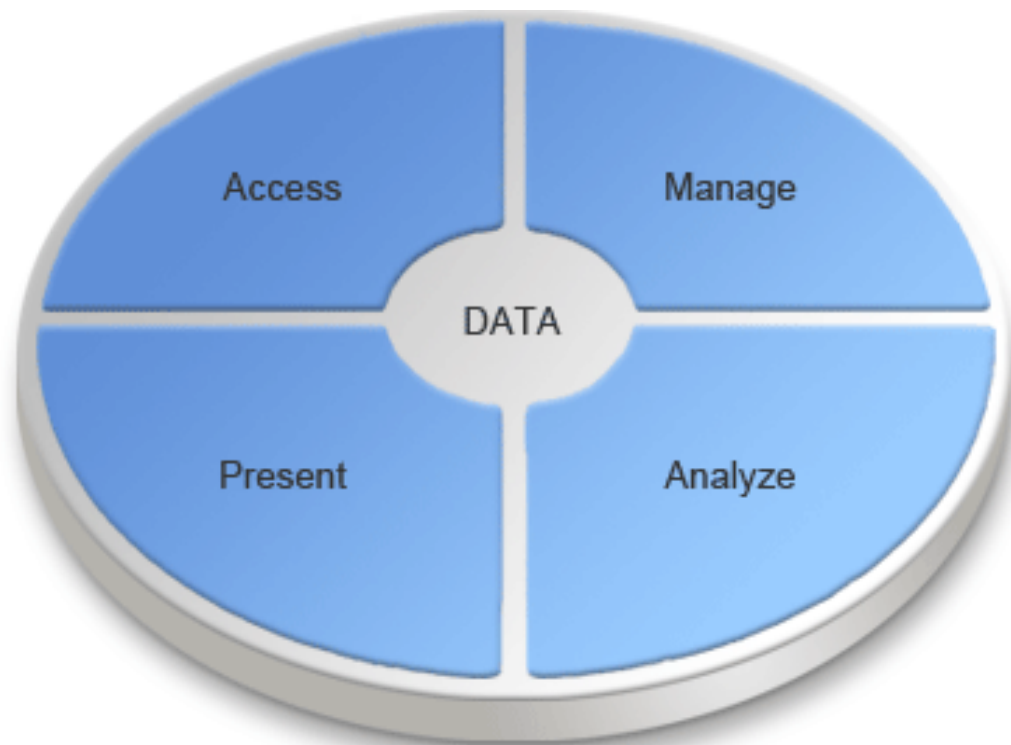
# Chapter 1: Introduction

**1.1  Course Logistics**

**1.2  An Overview of Foundation SAS**

# Objectives

- Describe the structure and design of Foundation SAS.
- Describe the functionality of Foundation SAS.

# What Is Foundation SAS?

*Foundation SAS* is a highly flexible and integrated software environment that can be used in virtually any setting to access, manipulate, manage, store, analyze, and report on data.

# What Is Foundation SAS?

Foundation SAS provides the following:

- a graphical user interface for administering SAS tasks
- a highly flexible and extensible programming language
- a rich library of prewritten, ready-to-use SAS procedures
- the flexibility to run on all major operating environments such as Windows, UNIX, and z/OS (OS/390)
- the access to virtually any data source such as DB2, Oracle, SYBASE, Teradata, SAP, and Microsoft Excel
- the support for most widely used character encodings for globalization

# What Is Foundation SAS?

At the core of Foundation SAS is Base SAS software.

| Components of Foundation SAS | | |
|---|---|---|
| Reporting and Graphics | Data Access and Management | User Interfaces |
| Analytics | Base SAS | Application Development |
| Visualization and Discovery | Business Solutions | Web Enablement |

Base SAS capabilities can be extended with additional components.

# 1.02 Poll

Are you currently using SAS?

○ Yes

○ No

# Chapter Review

1. How can you open the Help facility?

2. What is at the core of Foundation SAS?