

## ***Creating and Exploiting OLAP Using the SAS System***

**Duration:** 2.0 days

*This Level II course is designed for data modelers and system experts who want to understand, create, and exploit Online Analytical Processing (OLAP) using SAS. This course requires the SAS 9 Intelligence Platform.*

**Course Description** [\[ Click to register ONLINE \]](#)

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This course defines SAS OLAP cubes and explores their characteristics. This course also demonstrates how to create and exploit SAS OLAP cubes using a variety of SAS products, including SAS OLAP Cube Studio, SAS Enterprise Guide, SAS Information Delivery Portal, SAS Web OLAP Viewer for JAVA, and Microsoft Excel with the SAS OLAP Data Provider.

### **Prerequisites**

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Familiarity with SAS programming and table structures is helpful but not required. You can gain SAS knowledge by completing the [SAS Programming I: Essentials](#) course. Familiarity with Structured Query Language (SQL) or Multidimensional eXpressions (MDX) is also helpful, but not required.

### **Course Contents**

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#### **Introduction to the SAS Intelligence Platform**

- SAS Business Intelligence overview
- Business Intelligence Information consumers
- overview of the Orion Star data

#### **Introduction to OLAP Cubes**

- introduction to Online Analytical Processing
- overview of SAS OLAP Cube Studio
- registering metadata

#### **Working with SAS OLAP Cubes Derived from Detail Tables**

- creating a SAS OLAP Cube from a detail table
- generating aggregations using cross-dimensional tuning
- setting permissions using SAS Management Console
- viewing a SAS OLAP cube with SAS Enterprise Guide

#### **Working with SAS OLAP Cubes Derived from Star Schemas**

- creating a SAS OLAP cube from a star schema
- viewing a SAS OLAP cube with Microsoft Excel

#### **Monitoring and Tuning a SAS OLAP Cube**

- using Application Response Measurement (ARM) for tuning
- building an information map from a SAS OLAP cube
- viewing a SAS OLAP cube with the Visual Data Explorer
- creating a report with SAS Web Report Studio
- generating aggregations using ARM analysis

### **Additional Features of the SAS OLAP Cube Designer**

- ragged hierarchies
- subsetting during Build
- viewing a SAS OLAP cube with SAS Web OLAP Viewer for Java

### **Using MDX in SAS Enterprise Guide (Self-Study)**

- utilizing MDX in SAS Enterprise Guide
- creating named sets and calculated members with MDX

### **Working with SAS OLAP Cubes Derived from Summary Tables**

- creating a SAS OLAP cube from a summary table

### **Working with SAS MDDBs in SAS 9**

- introduction to multidimensional databases
- using the SAS Open OLAP Server
- viewing MDDBs in SAS Enterprise Guide 3

### **Course Materials**

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Students attend classroom courses in one of our public training centers. You receive a hardcopy of the course notes.