

## MicroStrategy Advanced Data Warehousing

### Overview:

This 2-day course covers advanced issues in data warehousing design and explains how to work with these complexities when implementing a MicroStrategy project. Students will learn how to model complex attribute relationships and hierarchies, implement role attributes and versioning, design the schema for optimal performance, use logical views to resolve data modeling and schema design issues, and optimize query performance using both database and MicroStrategy functionality. Students will get hands-on practice during the course through exercises.

### MicroStrategy Products Covered:

- MicroStrategy Architect

### Number of Days:

- 2 days

### Who Should Attend?

- Project designers
- Database administrators
- Anyone who has an interest in learning how to resolve complex data warehouse modeling and design issues to best support a MicroStrategy reporting environment

### Prerequisites:

- Basic knowledge of SQL
- MicroStrategy Desktop: Reporting Essentials
- MicroStrategy Architect: Project Design Essentials
- MicroStrategy Architect: Advanced Project Design

### Topics:

#### Day One

- Introduction to Advanced Data Warehousing
  - Data Warehouse Design and Reporting
  - Overview of Advanced Data Warehousing
- Advanced Data Modeling
  - Many-to-Many Relationships
  - Attribute Roles
  - Ragged Hierarchies
  - Split Hierarchies
  - Recursive Hierarchies
  - Versioning

#### Day Two

- Advanced Schema Design
  - Snowflake and Star Schemas
  - Recommended Schema Design
- Logical Views
  - Logical Views in MicroStrategy Architect
  - Creating Logical Views
  - Using Logical Views To Resolve Data Warehousing Issues
- Data Warehouse Optimization
  - Review of Aggregation Concepts
  - Aggregation Guidelines
  - Review of Partitioning
  - Partitioning Guidelines
  - Overview of Indexing