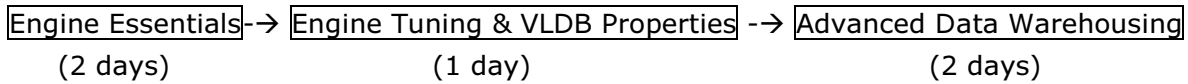


MicroStrategy Engine Specialist Track



Overview:

In this 5-day track, students will learn how the MicroStrategy Engine generates SQL for a variety of reporting scenarios. They will also explore techniques for tuning and optimizing the MicroStrategy Engine, primarily through the use of VLDB (Very Large Database) properties. Finally, they will learn methods for resolving complex issues in data modeling and schema design as well as guidelines for implementing data warehouse optimizations. Students who complete the track will leave with a solid understanding of interpreting MicroStrategy Engine SQL, manipulating VLDB properties, and modeling and designing warehouses for complex requirements. Hands-on exercises reinforce the topics they learn throughout the track.

Cost:

- US\$3,250 per person or 5 LUs

Number of Days:

- 5 days

Who Should Attend:

- Project designers
- Report developers
- Database administrators

Prerequisites:

- SQL Essentials or equivalent SQL knowledge
- MicroStrategy Desktop: Reporting Essentials
- MicroStrategy Desktop: Advanced Reporting 100
- MicroStrategy Architect: Project Design

Topics:

Day One – Engine Essentials (Part 1)

- Introduction to the MicroStrategy Engine
- Basic Optimizations
- Templates and Engine SQL
- Metrics and Engine SQL

Day Two – Engine Essentials (Part 2)

- Filters and Engine SQL
- OLAP Services
- Analytical Engine

Day Three – Engine Tuning & VLDB Properties

- Introduction to VLDB Properties
- Governing
- Indexing
- Joins
- Metrics
- Pre/Post Statements
- Query Optimizations
- Select/Insert
- Tables

Day Four – Advanced Data Warehousing (Part 1)

- Introduction to Advanced Data Warehousing
- Advanced Data Modeling
 - Attribute Roles
 - Ragged Hierarchies
 - Split Hierarchies
 - Recursive Hierarchies
 - Versioning

Day Five – Advanced Data Warehousing (Part 2)

- Advanced Schema Design
 - Snowflake and Star Schemas
 - Recommended Schema Design
- Logical Views
- Data Warehouse Optimization
 - Aggregation Guidelines
 - Partitioning Guidelines
 - Overview of Indexing