ADMINISTERING SNOWFLAKE II

TWO-DAY COURSE

25C03

OVERVIEW

This two-day, role-specific course continues the study and practical lab experience of database and account administration. This course includes data recovery scenarios, replication, and advanced tuning strategies. The course consists of lectures, labs, demonstrations, and discussions.

ACQUIRED SKILLS

- Manage multiple accounts across the company using Snowflake Organization.
- Employ data recovery methods using Time Travel and zero-copy cloning.
- Implement advanced techniques for Snowflake performance tuning methodologies.
- Utilize Snowflake's recommended best practices for management, monitoring, and optimization.
- Deploy replication for data sharing across accounts and failover scenarios.
- Share data securely both inside and outside your organization.
- Create and deploy administrative jobs using Snowflake stored procedures and functions.

WHO SHOULD ATTEND

- Database Administrators
- System Administrators
- Database Architects
- Data Engineers

PREREQUISITES

- A background in database administration or management is required.
- Completion of "Administering Snowflake" three-day course or equivalent Snowflake knowledge.

DELIVERY FORMAT

Instructor-led Public or Private classes are available.

TOPICS COVERED

Advanced Tuning Strategies

- Micro-partitions and Clustering
- Micro-partition Pruning (Elimination)

- Evaluating Clustering
- Implement and Test Cluster Keys
- Materialized Views
- Search Optimization Service
- Query Acceleration Service (QAS)

Data Protection and Data Recovery

- Fail-safe
- Data Recovery Scenarios

Organizations

- Snowflake Organizations
- Administrative Operations With Organizations
- ORGADMIN Role
- Snowflake Role Types
- Creating Accounts
- Using Snowflake Database Roles with Organizations
- Querying Organization Account Usage
- Account Management Commands

Replication

- Overview
- Replication Workflow
- Failover Workflow
- Client Redirect
- Monitoring Replication

Functions and Procedures

- User-defined Functions
- JavaScript Stored Procedures

Scripting in Snowflake

- Snowflake Scripting Overview
- Programmability Enhancements

- Logging and Tracing
- Event Tables

Snowflake Alerts

- Using Alerts with Email Notifications

Data Sharing

- Managing Data Exchange
- Managing Data Marketplace

Database Roles

- What are Database Roles?
- Database Roles and Data Sharing
- Snowflake Shared Database Roles

Hybrid Tables

- What is a Hybrid Table?
- Implement Hybrid Tables
- Hybrid Table Cost Analysis
- Hybrid Table Limitations

Apache Iceberg™ Tables

- Table Format Overview
- Iceberg Table Format
- Iceberg Tables in Snowflake Overview
- Snowflake Managed Apache Iceberg™ Tables
- Create Externally Managed Iceberg Tables in Snowflake

Resource and Cost Management

- Cost Management in Snowflake
- Monitoring Access_History
- Monitoring Compute
- Monitoring Storage

- Monitoring Data Transfer
- Resource Monitors