SNOWFLAKE FUNDAMENTALS

Course Content

Snowflake Architecture and Overview

- Snowflake Technical Overview
- Cloud Services Layer
- Compute Layer
- Storage Layer

Data Movement

- Data Loading
- Unloading
- Best Practices

Snowflake Objects & Commands

- Query Constructs
- Data Description Language (DDL)
- Data Manipulation Language (DML)

Snowflake SQL Support for Data Analysis

- SQL Support and Query Best Practices
- SQL Analytic Functions
- High Performing Estimation Functions
- UDF and Stored Procedure
- Demo Query Profile

Managing Security

- Data Encryption
- Authentication
- Role-Based Access Control

Semi-structured Data

- Capabilities and Best Practices for working with semi-structured data in Snowflake
- Caching
- Caching Features in Snowflake
- Best Practices of using caching for performance and cost optimization

Snowflake Clients and Ecosystem

- Snowflake Clients and Connectors Overview
- SnowSQL Snowflake CLI
- Continuous Data Protection
- Time Travel in Snowflake
- Cloning in Snowflake

Data Sharing

- Snowflake Data Sharing Overview
- Performance & Concurrency
- Query Profile
- Micro-Partitions & Data Clustering
- Scaling a Virtual Warehouse

Account and Resource Management and Monitoring

- System Resource Usage and Billing
- Managing Virtual Warehouses
- Workload independence and segmentation
- Monitoring Tool: Resource Monitors
- Monitoring Tools: Information Schema and Account Usage