



SNOWFLAKE ADVANCED

THREE-DAY COURSE

24G23



UNIVERSITY

DATASHEET

OVERVIEW

This three-day course covers advanced Snowflake features related to data manipulation and movement, using specialty table types, advanced query constructs, performance, and Snowflake-recommended operational best practices. This course consists of lectures, demos, and labs.

ACQUIRED SKILLS

- Evaluate Snowflake’s advanced architectural concepts.
- Design a bulk loading and load troubleshooting strategy.
- Leverage the power of semi-structured and unstructured data.
- Use advanced query constructs for data analysis.
- Use event tables to collect and analyze logging and trace information.
- Develop a methodology for performance tuning your Snowflake Data Cloud.
- Use data sharing for collaboration in the Snowflake Data Cloud.

WHO SHOULD ATTEND

- Data Analysts
- Data Engineers
- Data Scientists
- Database Architects
- Database Administrators

PREREQUISITES

Completion of “Snowflake Fundamentals” or equivalent Snowflake knowledge.

DELIVERY FORMAT

Instructor-led Public or Private classes are available.

TOPICS COVERED

Date and Time Data

- Date and Time Data Types
- Work with Dates and Times
- Time Series Data and ASOF Joins

Geospatial Data Types

- Geospatial Overview
- Geometry Data
- Geography Data
- Using Geospatial Functions

Working with Unstructured Data

- Overview
- Concepts
- Workflow

Event Tables

External Tables

- Querying External Data Lakes
- Creating and Querying External Tables
- Partitioning External Tables

Dynamic Tables

Hybrid Tables

Iceberg Tables

- Data Lakes and Iceberg Tables
- Iceberg Tables in Snowflake

Working with Stages

Schema Inference and Evolution

- Loading and Transforming Semi-structured Data
- Schema Inference
- Schema Evolution

Fixing Load Problems

Group By and Grouping Sets

Subqueries and Common Table Expressions (CTEs)

Window Functions

- Overview
- Cumulative Window Functions
- Sliding Window Functions

Querying Hierarchical Data

Universal Search and Snowflake Copilot

Notifications and Alerts

- Configure and Manage Snowflake Alerts
- Configure and Manage Notifications

Automatic Clustering

- What is Data Clustering?
- Micro-partition Pruning (Elimination)
- Evaluating Clustering
- Implement and Test Cluster Keys

Search Optimization

Query Acceleration

Materialized Views

- Overview
- Materialized View Use Cases

Data Sharing

- Data Access Options
- Direct Data Sharing Workflow