

SNOWFLAKE ADVANCED

THREE-DAY COURSE

26A16



OVERVIEW

This three-day course covers advanced Snowflake data manipulation and movement features, using specialty table types, advanced query constructs, performance, and Snowflake-recommended operational best practices. It consists of lectures, demonstrations, 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 AI Data Cloud.
- Use data sharing for collaboration in the Snowflake AI Data Cloud.

WHO SHOULD ATTEND

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

PREREQUISITES

- Recommended completion of the “Snowflake Multi-Factor Authentication (MFA) Essentials” free on-demand course.
- Completion of “Snowflake Fundamentals” or equivalent Snowflake knowledge.

DELIVERY FORMAT

Instructor-led Public or Private classes are available.

TOPICS COVERED

Date, Time, and Time Series Data

- Dates, Times, and Timestamps

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

Working with Geospatial

- Geospatial Overview
- Geography Data
- Geometry Data
- Introduction to Geospatial Functions

Working with Unstructured Data

- Overview of Unstructured Data
- Concepts
- Workflow

Dynamic Tables

Hybrid Tables

External Tables

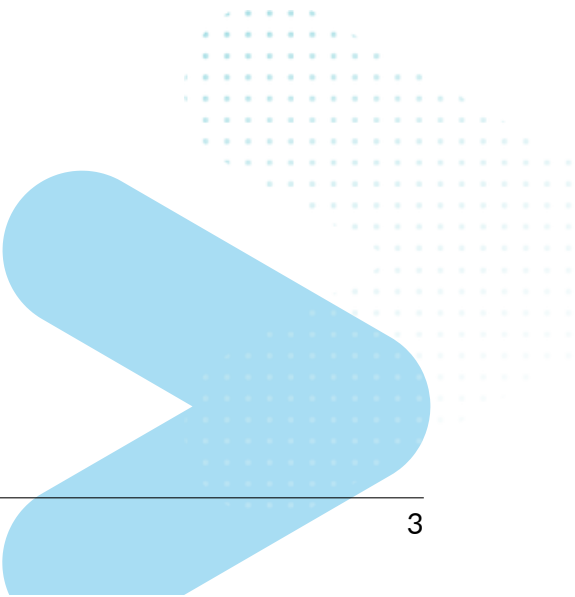
- Querying External Data Lakes
- Create and Query External Tables
- Create Virtual Columns and Partitions

Apache Iceberg™ Tables

- Data Lakes and Apache Iceberg™ Tables
- Apache Iceberg™ Tables in Snowflake
- Apache Polaris™ and Snowflake Open Catalog

Streams

- Overview of Streams
- Using Streams for CDC and SCD



Loading and Transforming Semi-Structured Data

Schema Inference and Evolution

- Schema Inference
- Schema Evolution

Group By and Grouping Sets

Subqueries and Common Table Expressions (CTEs)

Window Functions

- Overview of Window Functions
- Cumulative Window Functions
- Sliding Window Functions

Querying Hierarchical Data

Snowflake Notebooks

Notifications and Alerts

- Configure and Manage Snowflake Alerts
- Configure and Manage Snowflake Notifications

Automatic Clustering

Search Optimization

Query Acceleration

Data Collaboration

- Create a Listing
- Provider Studio

Data Metric Functions (DMFs)

- Overview of Data Metric Functions
- DMF Workflow
- Monitoring DMFs

Snowflake AI and ML

- Introduction to Snowflake ML
- Cortex AI
- Cortex Search
- Cortex Analyst
- Cortex Agents and Snowflake Intelligence