



# SNOWFLAKE DATA ANALYST

TWO-DAY COURSE

23H09



UNIVERSITY

DATASHEET

## OVERVIEW

This two-day, role-specific course introduces data analysts to how the Snowflake Data Cloud enables them to deliver actionable insights and reports to their organization to drive business value. The course is structured around a data analysis lifecycle placing each capability Snowflake provides in the data analyst's context. The course begins with how to connect to the Snowflake Data Cloud. It then covers how to analyze, ingest, enrich, report, and diagnose data insights with Snowflake. The course consists of lectures, labs, demonstrations, and discussions.

## ACQUIRED SKILLS

- Outline the unique and differentiated architecture of the Snowflake Data Cloud.
- Exploit the options provided to connect and interact with the Snowflake Data Cloud.
- Describe how to use BI tools for data analysis in Snowflake.
- Summarize query constructs, Data Definition Language (DDL) and Data Manipulation Language (DML) operations.
- Use Snowflake's extensive SQL capabilities and the built-in table, scalar, window, and estimation functions to support data analysis.
- Apply Snowflake best practices for working with semi-structured data.
- Load and transform data.
- Visualize data outside of Snowflake.
- Employ Snowflake features in the reporting process and activities performed by the data analyst to create analytic visualizations.
- Explain Snowflake's unique approach to caching and the benefits to query performance.
- Perform query evaluation, pre- and post-execution, using Snowflake's Explain, Query History, and Query Profile.

## WHO SHOULD ATTEND

- Data Analysts
- Business Intelligence users

## PREREQUISITES

- Basic knowledge of SQL is required

## DELIVERY FORMAT

Instructor-led Public or Private classes are available.

## TOPICS COVERED

### Data Analysis with Snowflake

#### Snowflake Overview

- Why Snowflake?
- Snowflake Functional Architecture
- Platform Features
- Getting Started with Snowflake

#### Snowflake Architecture

- Snowflake Architecture Layers
- Snowflake Structure

#### Account Usage and More

- Information Schema and Account Usage
- Using Parameters to Control Snowflake
- Query Tags
- Sample Data Sets

#### Client Interfaces

- Client Interface Overview
- Snowsight
- SnowSQL
- Connecting Tools to Snowflake

#### SQL Support in Snowflake

- Data Definition Language (DDL)
- Data Manipulation Language (DML)
- Constructing Efficient Queries

#### Functions in Snowflake

- Function Overview
- Estimation Functions

## Using Extended Functions in Snowflake

- User-defined Functions
- Stored Procedures
- Snowflake Scripting
- Snowflake Tasks

## Other SQL Topics

- Collation
- Sampling

## Creating More Complex Queries

- Window Functions, Syntax, and Usage
- Group By and Grouping Sets
- Recursive With and Connect By

## Semi-structured Data

- Semi-structured Data Overview
- Query Semi-structured Data

## Continuous Data Protection

- Time Travel
- Cloning

## Collaboration

### Data Loading

- Data Loading Concepts
- Examples of Data Loading

## Snowflake Data Lake Support

### Reporting Using Snowflake

- Explore Data

- Prepare Data
- Analyze Data
- Visualize Data
- Integrate BI Tools

## Caching and Query Pruning

- Metadata and Caching Overview
- Metadata
- Query Result Cache
- Data Cache
- Query Pruning

## Visualizing Query Execution with Query Profile

- Using Explain
- Using Query Profile

## Performance Tips and Troubleshooting

- SQL Performance Tips
- Performance Bottlenecks