

SNOWFLAKE ADVANCED in 3 days

Prerequisites: Basic knowledge of snowflake

Duration: 3 Days (8 Hrs./Day)

Course Objective: 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.

Lab Requirement: Koenig DC/Linux.

Module 1 - Date and Time Data

Date and Time Data Types

Work with Dates and Times

Time Series Data and ASOF Joins

Module 2 - Geospatial Data Types

Geospatial Overview

Geometry Data

Geography Data

Using Geospatial Functions

Module 3 - Working with Unstructured Data

Overview

Concepts

Module 4 - Tables

Event Tables

Dynamic Tables

Hybrid Tables

Module 5 - External Tables

Querying External Data Lakes

Creating and Querying External Tables

Partitioning External Tables

Module 6 - Iceberg Tables

Data Lakes and Iceberg Tables

Iceberg Tables in Snowflake

Module 7 - Schema Inference and Evolution

Loading and Transforming Semi-structured Data

Schema Inference

Schema Evolution

Module 8 - Window Functions

Overview

Cumulative Window Functions

Sliding Window Functions



Module 9 - Notifications and Alerts

Configure and Manage Snowflake Alerts

Configure and Manage Notifications

Module 10 - Automatic Clustering

What is Data Clustering?

Micro-partition Pruning (Elimination)

Evaluating Clustering

Implement and Test Cluster Keys

Module 11 - Materialized Views

Overview

Materialized View Use Cases

Module 12 - Data Sharing

Data Access Options

Direct Data Sharing Workflow

Module 13 - More snowflake advanced Concepts

Fixing Load Problems

Group By and Grouping Sets

Subqueries and Common Table Expressions (CTEs)

Querying Hierarchical Data

Universal Search and Snowflake Copilot

Search Optimization

Query Acceleration