

SNOWFLAKE ADVANCED ANALYTICS

Prerequisites: Basic knowledge of snowflake, Knowledge of SQL is also required, Mathematical analysis experience is also helpful, Python programming is also useful.

Duration: 2 Days (8 Hrs./Day)

Course Objective: This two-day, specialized course immerses participants in the advanced analytical features of the Snowflake Data Cloud. Participants will learn to utilize these capabilities to extract deeper insights, identify patterns, and highlight trends. The course equips attendees with the skills necessary to access information that enables a proactive approach to forecasting potential outcomes, rather than merely analyzing past events. Instruction includes a blend of lectures, hands-on labs, demonstrations, and interactive discussions

Lab Requirement: Koenig DC/linux

Module 1 - Snowsight Analytics

Loading Data

Running Queries

Visualizations

Module 2 - Exploration and Analysis

Set Operators

Joins

Time Travel

Linear Regression

Module 3 - Windowing Functions

Over Clause Review

Rank and Dense Rank

Row Number

Lead and Lag

Other Functions

Module 4 - Semi-structured Data Analysis

Unnesting Data Using Flatten

Using Other Semi-Structured Functions

Extracting and Checking Data Types

Creating Semi-structured Elements from Structured Data

Unloading Semi-structured Data

Loading Semi-structured Data

Schema Detection

Benefits of Structured vs Non-structured Tables

Module 5 - Geospatial

Geospatial Overview

Geography

Geometry

Module 6 - Big Data

Processing Big Data

Comparing Data Sets

Top- K Frequency



Counting Distinct Elements

Percentile Distributions

Statistical Tests

Module 7 – Streamlit

Streamlit Overview

Streamlit in Snowflake

Module 8 - Cortex LLM Functions

Generative AI

Cortex LLM Functions - Overview

Cortex LLM Functions - Specialized Functions

Cortex LLM Functions - COMPLETE

Cortex LLM Functions - Cost Monitoring

Module 9 - Snowflake ML Functions

Snowflake ML Functions - Overview

Snowflake ML Functions - Generalized Workflow

Snowflake ML Functions - Specifications

Snowflake ML Functions - Cost Considerations