

SnowPro Core Certification

Prerequisites: Basic knowledge of Computers, SQL commands, and Cloud computing Service (Amazon S3, Microsoft Azure or Google Cloud Platform)

Duration: 5 Days (8 Hrs/Day)

Course Objective: This course aims to equip participants with essential skills and knowledge required for the SnowPro Core Certification exam. Covering key topics such as data loading, transformation, virtual warehouse performance, DDL/DML queries, handling semi-structured/ unstructured data, cloning, time travel, data sharing, and account structure management, participants will learn to navigate Snowflake efficiently. By the end, they'll be proficient in optimising performance, managing concurrency, and securely sharing data, ensuring they're well-prepared for certification and adept at leveraging Snowflake for diverse data management needs.

Lab Requirement: Koenig-DC/Windows

Module 1 - Getting started

The Snowflake Architecture
Shared-Disk (Scalable) Architecture
Shared-Nothing (Scalable) Architecture
NoSQL Alternatives

Lab: Navigation of Snowsight

Module 2 - Data Loading and Transformation in Snowflake.

Data Types

File Formats

Data File Compression

Frequency of Data Processing

Snowflake Stage References

Data Sources

Lab: Snowflake Worksheet SQL Using INSERT INTO and INSERT ALL Commands

Lab: Web UI Load Data Wizard

Lab: SnowSQL CLI SQL PUT and COPY INTO Commands

Module 3 - Virtual Warehouse Performance and Concurrency.

Virtual Warehouse Size

Scaling Up a Virtual Warehouse to Process Large Data Volumes and Complex Queries Scaling Out with Multi-cluster Virtual Warehouses to Maximise Concurrency



Creating and Using Virtual Warehouses

Separation of Workloads and Workload Management

Billing for the Virtual Warehouse

Lab: Creating a virtual warehouse

Lab: Scaling a virtual Warehouse

Lab: How to stop a virtual warehouse

Module 4 - DDL and DML Queries.

Understanding DDL commands

Understanding DML queries

Lab: How to use CREATE statement

Lab: How to use ALTER statement

Lab: How to use TRUNCATE statement

Lab: How to use RENAME statement

Lab: How to use DROP statement

Lab: How to use DESCRIBE statement

Lab: How to use SHOW statement

Lab: How to use USE statement

Lab: How to use SET/UNSET statement

Lab: How to use COMMENT statement

Lab: How to use INSERT statement

Lab: How to use MERGE statement

Lab: How to use UPDATE statement

Lab: How to use DELETE statement

Lab: How to use COPY INTO statement

Lab: How to use PUT statement

Lab: How to use GET statement

Lab: How to use LIST statement

Lab: How to use VALIDATE statement

Lab: How to use REMOVE statement

Module 5 - Using Semi-Structured and Unstructured Data.

Introduction to Semi-Structured data

Semi-Structured data Supported formats

Loading of semi-unstructured data

Introduction to Unstructured data

Loading of Unstructured data

Lab: Loading of semi-structured data



Lab: Loading of unstructured data

Module 6 - Cloning and Time Travel.

Introduction to Time Travel
Introduction to Database cloning

Zero-copy cloning

Lab: How to perform Time travelLab: How to perform Data Cloning

Module 7 - Data Sharing.

Introduction to secure data sharing
Introduction to listings
Introduction to Snowflake marketplace
Introduction to data exchange

Lab: Navigation of Snowsight for data sharing

Module 8 - Snowflake Account Structure and Management.

Navigating Accounts tab in snowsight Resource monitor Understanding Snowflake account costs

Lab: How to create resource monitor