

**Snowflake Cloud Data Platform**

**Course Number:** SQL-710WA  
**Duration:** 2 days

**Overview**

This Introduction to the Snowflake Cloud Data Platform training course walks attendees through Snowflake's Web UI, teaches them how to design Data Warehouses in Snowflake, query a Snowflake database, and more.

**Prerequisites**

Attendees must have basic knowledge of programming and SQL.

**Materials**

All Snowflake training students receive comprehensive courseware.

**Software Needed on Each Student PC**

All attendees will need access to a Snowflake SQL environment with Accelebrate’s sample data loaded.

**Objectives**

* Explore the Snowflake Web UI
* Create and work with databases in Snowflake
* Query data in Snowflake
* Work with Common Table Expressions (CTEs)
* Create window functions in Snowflake;
* Understand stored procedures and (User-Defined Functions) UDFs in Snowflake
* Work with the SnowSQL Command-Line Interface (CLI)
* Understand Snowflake's users and roles

**Outline**

* Introduction to the Snowflake Cloud Data Platform
  + What is Snowflake?
  + Certifications
  + Snowflake Conceptual Architecture
  + Core Underlying Design Considerations
  + Core Services and Tools
  + Snowflake Editions
  + The Standard Edition
  + The Enterprise Edition
  + The Business Critical Edition
  + Virtual Private Snowflake
  + Billing: The Cost Components
  + Data Storage Segments
  + Parts of Snowflake that Incur Compute-related Costs
* Snowflake's Web UI
  + Web UI (Web Portal)
  + The Landing Page
  + Snowflake Roles
  + The Roles UI
  + Databases
  + Shares
  + Data Marketplace
  + The Warehouses UI
  + Worksheets
  + History
  + A History Sample
  + Account
  + Operational Transparency: Controlling the Usage of Your Account
  + Create Network Policy Dialog (under Account > Policies)
  + Preview App
* Designing Data Warehouses in Snowflake
  + What is a Virtual Data Warehouse?
  + The Warehouse-Database Relationship
  + Matching Your Needs
  + The Auto Suspend/Resume Features
  + Multi-cluster Data Warehouses
  + The Concept of the Snowflake Compute Credit
  + Compute Sizing
  + Example of Calculating Monthly Compute Charges (Credits)
  + Operations
  + Creating a New Warehouse
  + Database Objects
  + Tables
  + Table Storage Types
  + Table Constraints
  + Search Optimization Service
  + Table Data Types
  + Data Loading
  + Views
  + Zero-Copy Cloning Feature
  + The Programming Capability
  + Continuous Data Protection Lifecycle
* Querying for Insights in Snowflake
  + Supported SQL Standards
  + Ways to Query Data in Snowflake
  + Snowsight Experience
  + The TOP/LIMIT Syntax
  + Comments
  + Pagination
  + Support for Window Functions
  + CTEs (Common Table Expressions)
  + Approximation Functions
* Designing Data Warehouses in Snowflake
  + The Programming Capability
  + Returning a Value
  + User-defined Functions (UDFs)
  + UDF-Related DDL Commands
  + The CREATE FUNCTION DDL
  + A UDF Example
  + Stored Procedures
  + DDL Commands Related to Stored Procedures
  + JavaScript-based Stored Procedure
  + A Stored Procedure Example
  + Accessing the Return Value of Stored Procedures
  + External Functions
* Data Import and Export in Snowflake
  + Bringing Data Into Snowflake: the Import Tools
  + Data Stages
  + Import Process using a Stage
  + Example of Using the Put Command
  + Example of Using the Copy Into Command for Data Import
  + Snowpipe
  + Using Snowpipe
  + Taking Data out of Snowflake: the Export Tools
  + The Export Process
  + Data Export Example
* Conclusion