

**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