Introducton to Snowflake SQL

2 day training course







Course contents

This course will cover the following topics. Those marked with (*) will be covered if time allows.

Getting started with Snowflake

- Getting Snowflake
- The Snowsight interface

Snowflake concepts

- Compute versus storage
- Warehouses
- Role-based access control

Databases

- Creating databases
- Creating schemas
- Assigning roles

Basic ingestion

- Loading CSV files
- Confirming data types
- Primary keys are not enforced

The Horizon Catalog

- Database Explorer
- Users and roles

Basic Queries

- Projects and worksheets
- Creating queries
- Comments and coding standards

Running Queries

- Choosing lines to run
- Viewing run history

Criteria using WHERE

- Using wildcards
- Criteria for dates
- Coping with nulls

Calculated columns

- Expressions and aliases
- Data type conversion
- The CASE statement

Date calculations

- CURRENT_DATE()
- Converting and formatting dates
- Useful date functions

Relational databases

- Relational database design
- Joins are not enforced

Joins

- Inner joins
- Table aliases
- Left and right outer joins
- Cross joins

Aggregation and grouping

- Aggregation functions
- Various ways to count
- Grouping by fields
- Using HAVING to filter results

Common Table Expressions (*)

- CTE syntax
- Avoiding repeated expressions
- Simplifying multiple grouped field queries

Subqueries (*)

- Syntax of subqueries
- Using subqueries in a query