Prerequisites: Basic knowledge of SQL and familiarity with cloud computing concepts.

Week 1: Introduction to Snowflake

- ➤ Overview of Snowflake and its architecture
- ➤ Setting up a Snowflake account and accessing the Snowflake interface
- ➤ Exploring the Snowflake user interface
- ➤ Different components of the platform

Week 2: Snowflake setup

- ➤ Creating and managing databases and schemas
- ➤ Managing tables, views, and objects in Snowflake
- ➤ Security - User roles and privileges
- ➤ Security - Implementing data security and access controls.

Week 3: Data Loading in Snowflake

- ➤ Data loading options in Snowflake: Bulk loading, Snowpipe, and data ingestion methods
- ➤ Uploading and loading data into Snowflake
- ➤ Managing data formats and semi-structured data

Week 4: SQL in Snowflake

- ➤ SQL basics in Snowflake
- ➤ Writing and executing SQL queries

Week 5: Data Security and Access Control

- ➤ Snowflake security features
- ➤ User roles and privileges
- ➤ Implementing data security and access controls

Week 6: Data Integration

- ➤ Integrating Snowflake with ETL processes
- ➤ Working with Snowflake connectors and integration tools
- ➤ Real-time data integration with Snowpipe