



1. Course Outline

Lesson 1 - Introduction to Snowflake

1. How different from traditional DB
2. Quick start to Snowflake and accessing trial account
3. Creating warehouse, DB, Schema, and tables
4. Accessing different roles and using it
5. Working with worksheets
6. Understanding different type of accounts

Lesson 2 - Understand Cloud Platforms

1. AWS and understanding S3 storage
2. Snowflake architecture and caching.
3. AZURE and understanding blob storage
4. GCP and understanding Bucket storage

Lesson 3 - Data Loading and Unloading in Snowflake Cloud Platform

1. File formats
2. Internal and external storage
3. Copy into usage
4. Snowflake internal storage

5. Accessing Cloud storage data into Snowflake(GCP, AZURE and AWS)

6. Data unloading

Lesson 4 - Snowpipe

1. Accessing Snowpipe

2. PUT and GET commands

3. Bulk loading from cloud storage

4. Continuous loading

Lesson 5 - Partner Connect with Snowflake

1. Snowflake Connector and use cases Python

2. BI connectors use cases.,

3. Other connectors hands-on

Lesson 6 - Handling JSON and Semi structure data in Snowflake Cloud Data Platform

1. Variant Datatype

2. File format options

3. Creating stages

4. Loading JSON semi-structured data into SF tables

5. Accessing JSON with select statement

Lesson 7 - Scheduling with Snowflake

1. Creating Tasks

2. Streams

3. Accessing procedures with tasks

4. Scheduling as per time with Different time zones

5. Automate loading process Daily and Weekly

6. Connecting shared objects with BI tools like POWER BI

Lesson 8 - Secure Data Sharing

1. Usage of sharing data

2. Sharing data with different accounts

3. Sharing data with non-SF accounts using reader accounts

4. Importance of reader accounts

5. Privileges in data sharing

6. Challenges with cross-region sharing and understanding replication

7. Limitations with Data sharing

Lesson 9 - Cloning in Snowflake

1. Access Control Privileges for Cloned Objects

2. Cloning and Snowflake Objects

3. Impact of DDL on Cloning

4. Impact of DML and Data Retention on Cloning

Lesson 10 - Time travel & Failsafe in Snowflake

1. Introduction to Time Travel

2. Querying Historical Data

3. Enabling and Disabling Time Travel

4. Data Retention Period

5. Cloning Using Time Travel (Databases, Schemas, and Tables Only)

Lesson 11 - Clustering and Performance techniques

1. Creating multi clusters on large tables
2. Performance techniques