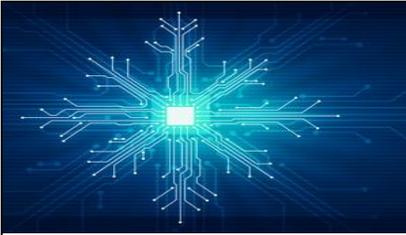


SNOWFLAKE Course Content

- ❖ **Snowflake Environment Setup**
 - Creating snowflake trail account
 - Snowflake web console introduction
 - Login to snowflake from snowflake client
 - Creating database and table and intro to sample data.
- ❖ **Snowflake architecture**
 - **Snowflake architecture introduction.**
 - Shared disk architecture.
 - Shared nothing architecture
 - Caching in snowflake
- ❖ **Clustering in snowflake**
 - Query processing in snowflake.
 - Micro partitions in snowflake.
 - Applying clustering
 - Checking clustering information and how it works
 - **Manual re-clustering and choose clustering keys**
- ❖ **virtual warehouse creation.**
 - Introduction to virtual warehouse.
 - Virtual warehouse creation and scaling policy
 - performance tuning in snowflake.
 - How query optimization works.
 - Concurrency control.
 - No constraints.



❖ **Loading data in snowflake.**

- Introduction to stages and configuring connection
- Types of Internal Stage

❖ **Introduction to stage object, file format and copy command**

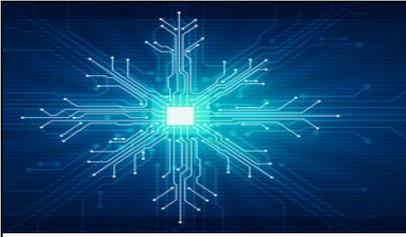
- Upload data using web console.
- Create aws account.
- Create aws s3 bucket s3 policy, aws role.
- Create snowflake integration.
- Upload data to aws s3 using aws web console and cli.
- Query aws from snowflake.
- Load data from s3 to snowflake.
- Unload data to s3
- Other options to copy.
- Create azure account
- Connecting snowflake to azure blob storage
- **Unload Query and Load parquet data from azure**

❖ **Copy options**

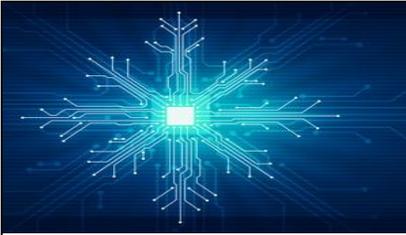
- Validate before loading data to table.
- File level options.

❖ **Collecting rejected records from copy command.**

- Enforce and Truncate column option.
- Force and purge option.
- Load history and copy history views.



- ❖ **Working with copy command.**
 - Preparing and Load Sample Data
 - Copy command performance.
 - Snow pipe introduction and Demo
- ❖ **Data sharing in snowflake**
 - Creating views (Secure and Normal View)
 - Creating snowflake reader account.
- ❖ **Configure reader account.**
 - Restriction on reader account.
 - Data share significance.
- ❖ **Time Travel in snowflake**
 - Time travel demo.
 - Time travel in snowflake and how it works.
 - Table retention period.
- ❖ **Fail safe in snowflake**
 - Fail safe in snowflake.
 - Access fail safe from web console.
 - Relation between fail safe and retention period.
 - Table types in snowflake.
 - Permanent table and failsafe.
 - Transient table.
 - Temporary table.
 - Creating transient database in snowflake.
- ❖ **Clone feature in snowflake**



- Clone feature and Table Swap
- ❖ **Data sampling in snowflake.**
 - Row vs Block sampling.
 - Sampling Demo
 - Clone vs Sampling
- ❖ **Scheduling in snowflake**
 - Tasks and Task Dependencies
- ❖ **Streaming in snowflake**
 - Introduction to streams.
 - Streaming Hands-on
 - Types of Stream and Change Clause
 - **SCD in Snowflake**
- ❖ **Materialized views**
 - **Introduction to Materialized view**
 - MV maintenance
- ❖ **Snowflake best practices**