Snowflake Data warehousing material

<u>By</u>

Kalyan Vaddimukkala

Topics:-

- Quick review of RDBMS
- Snowflake Architecture
- Recap on Architecture
- Snowflake Environment Setup (Hands-on)
- Virtual warehouse (Hands-on & More details about credits consumption and sizes)
- Snowflake under the hood
 - -Caching in snowflake data warehouse
 - -Clustering in snowflake
- Performance Tuning and DB characteristics (v02)
- Install AWS CLI, Snow CLI
- Loading data in snowflake
- Loading data using internal staging
 - Table stage
 - Named stage
 - o Load using Snowsql (CLI)
- Loading data from AWS S3 to Snowflake
 - o Load using snowflake console (Low volume load)
 - o Load using AWS CLI (Bulk Load)
- Snow Pipe
- Copy options (Deep Dive)
 - o Validation Mode
 - Load Selected files
 - o ON ERROR
 - o ENFORCE LENGTH & TRUNCATE COLUMNS
 - o FORCE
 - o PURGE
 - LOAD HISTROY VIEW AND COPY HISTORY FUNCTION
- Loading unstructured data
 - o Method 1
 - o Method 2
 - o Method 3
- Data sharing in snowflake
 - o Normal and Secure Views
- <u>Time Travel in Snowflake</u>
- Failsafe in snowflake
 - o Sub Topics

- Access failsafe from console
- Relation between failsafe and retention period
- Table types in snowflake
- Permanent table and failsafe
- Transient table
- Temporary table
- Creating Transient database in snowflake
- Clone Feature in snowflake
- <u>Table Swap in snowflake</u>
- <u>Data Sampling in snowflake</u>
- Scheduling in snowflake TASKS
- Streaming in snowflake
- Continuous Data Load in snowflake
- Materialized Views
 - o Importance using MV
- Snowflake Best Practices