

## Snowflake

**Mode of Training:** Online Training

**Name of Trainer:** Mr. Satish



**Course  
Curriculum**

## About Trainer:

- ✚ SnowPro, AWS & Azure Certified with 12 years of experience in data warehousing & Cloud technologies.

## Training Objective:

- ✚ This training aims at mastering the Fundamental Snowflake concepts & acquire the necessary skills to start implementing Snowflake based solutions.

## Training Duration:

- ✚ 20 Hours

## Training Prerequisites:

- ✚ Familiarity with database & data warehousing concepts
- ✚ Familiarity with SQL

## Training Description:

- ✚ This training provides Snowflake concepts & hands on expertise to help get you started on implementing solutions using Snowflake. This training reinforces the learning through hands on labs, assignments & quizzes.

## Detailed Course Content:

- ✚ Section 1: Introduction
  - ✓ Introduction
  - ✓ What is a data warehouse?
  - ✓ Why cloud computing?
  - ✓ The Snowflake Story
- ✚ Section 2: Getting Started with Snowflake
  - ✓ Signup for Snowflake
  - ✓ Creating our first Database & Table
  - ✓ Load Data into our first table
  - ✓ Snowflake Pricing Overview
  - ✓ Setting up Required Snowflake tools
  - ✓ Assignment 1: Create, load & query a table
- ✚ Section 3: Snowflake Concepts
  - ✓ Snowflake Architecture
  - ✓ Virtual Warehouse & Scalability
  - ✓ Snowflake Pricing
  - ✓ Assignment 2: Creating a new Virtual Warehouse
  - ✓ Quiz 1: Quiz - Snowflake Concepts

- ✚ Section 4: Getting data into Snowflake
  - ✓ Ingestion / Loading Methods
  - ✓ Steps to Managing Loads
  - ✓ Preparing your data
  - ✓ Staging your data
  - ✓ Loading from an S3 stage
  - ✓ Loading JSON data - high level steps
  - ✓ Loading JSON data - hands on lab
  - ✓ Assignment 3: Load JSON data from an S3 bucket
  - ✓ What is Snowpipe?
  - ✓ Loading data via Snowpipe - high level steps
  - ✓ Loading data via Snowpipe - hands on lab
  - ✓ Quiz 2: Quiz - Data Ingestion Quiz
  
- ✚ Section 5: Performance Optimization
  - ✓ Performance Optimization in Snowflake
  - ✓ Using Dedicated Virtual Warehouses
  - ✓ Lab: Using Dedicated Virtual Warehouses
  - ✓ Scale up/down the virtual warehouse
  - ✓ Multi-cluster virtual warehouse or Scaling Out
  - ✓ Lab: Multi-cluster virtual warehouse
  - ✓ Maximize Cache usage
  - ✓ Lab: Query Caching in Action
  - ✓ Clustering large tables & improve partition elimination
  - ✓ Lab: Cluster keys for large tables
  - ✓ Quiz 3: Performance Optimization Quiz
  
- ✚ Section 6: Time Travel, Failsafe & Zero Copy Clones
  - ✓ Back to the future with Snowflake
  - ✓ Travel to a specific time or before a query
  - ✓ Assignment 4: Time Travel to a point in time
  - ✓ Undrop databases, schema & tables
  - ✓ Assignment 5: Un-drop tables, schemas & databases
  - ✓ Assignment 6: Test drive the time travel
  - ✓ Failsafe in Snowflake
  - ✓ Lab: View storage used by Fail-safe
  - ✓ Assignment 7: Understanding storage used by Fail-safe
  - ✓ Zero Copy Clone
  - ✓ Cloning with Time Travel
  - ✓ Quiz 4: Quiz - Time Travel, Zero Copy Clones
  
- ✚ Section 7: Secure Data Sharing
  - ✓ Secure Data Sharing in Snowflake

- ✓ Sharing with other Snowflake users
- ✓ Assignment 8: Share a table with another Snowflake user
- ✓ Sharing - who's compute is used?
- ✓ Sharing - Data always up-to-date
- ✓ What is a Share?
- ✓ Sharing with non Snowflake Users
- ✓ Lab: Sharing with non Snowflake Users
- ✓ Assignment 9: Share a table with a non-Snowflake user
- ✓ Lab: Sharing entire schemas & databases
- ✓ Lab: Sharing views
- ✓ Assignment 10: Share a view, combining data from multiple tables
- ✓ Quiz 5: Quiz - Secure Data Sharing

#### ✚ Section 8: Snowflake Access Management

- ✓ Snowflake Approach to Access Control & Key Concepts
- ✓ Out of the Box Snowflake Roles
- ✓ Role Hierarchy in Snowflake
- ✓ ACCOUNTADMIN role
- ✓ Outline of the IAM hands on lectures
- ✓ SECURITYADMIN role
- ✓ SYSADMIN role
- ✓ Custom roles
- ✓ PUBLIC role
- ✓ Lab: Demonstrating different roles
- ✓ Assignment 11: Assign privileges through a new custom role
- ✓ Assignment 12: Assign a default role to a user (using SQL)
- ✓ Quiz 6: Quiz - Snowflake Access Management

#### ✚ Section 9: Conclusion & Mega Quiz Evaluation