

MASTER CLOUD DATA ENGINEERING

SNOWFLAKE
WITH
AZURE
DATA ENGINEER

BUILD • INTEGRATE • ANALYZE • SCALE

20+ YEARS OF TRUST & EXCELLENCE

CLOUD-NATIVE DATA PLATFORM
ELASTIC & SCALABLE
MODERN DATA PIPELINES
ADVANCED ANALYTICS
SECURE & RELIABLE

HANDS-ON TRAINING
REAL TIME PROJECTS

ENROLL NOW
& ADVANCE YOUR CAREER!

EXPERT TRAINER
100% PRACTICAL LEARNING

JOB SUPPORT & CAREER GUIDANCE

Thank you for contacting our **SQL School**. I am **Mr. Sai Phanindra**, one of the trainers for this Step by step, 100% Practical Job Oriented Training Program on **Data Engineer** Course with Azure & Snowflake.

With over 20 Years of experience in Database Technologies, Azure Data Engineering, Business Intelligence, and Data Warehousing, I provide 100% practical, step-by-step training with real-world projects and industry best practices. Let's Connect on LinkedIn: [linkedin.com/in/saiphanindra/](https://www.linkedin.com/in/saiphanindra/)

This powerful, example packed course includes:

Module 1: MSSQL & TSQL Queries, Tuning

Module 2: Azure Data Engineering (ADF, Synapse, Databricks, Data Lake, Genie AI, IoT, CI-CD)

Module 3: Snowflake Data Engineering (SnowPro, SnowSQL, Azure Integrations, more..)

As part of this job oriented course, I will provide complete guidance for:

- **Microsoft DP-750 Exam** (Azure Databricks)
- **Databricks Data Engineer Associate Exam** (Open Source Databricks)
- **SnowPro Certification Guidance**

Training Details:

- ✓ **100% Practical & Realtime**
- ✓ **Training Modes:**
 - **LIVE Online Training**
 - **Self Paced Videos** (Detailed, step by Step, Latest Videos with Notes, Project Solution)

Who Should Join?

- Freshers
- SQL Developers
- BI Developers
- Database Administrators
- Data Analysts

Prerequisites

- No pre-requisites needed.
- We start from the basics and build your skills step by step.



SNOWFLAKE WITH AZURE DATA ENGINEER PROGRAM

From SQL to Cloud. From Data to Impact.

MODULE	FOCUS AREAS	DURATION	REALTIME PROJECTS
 MODULE 1 MSSQL & TSQL Queries, Tuning	• SQL Server Architecture & Components • TSQL Queries – Basic to Advanced • Joins, Subqueries, CTEs, Window Functions • Indexes, Execution Plans & Query Tuning • Performance Optimization Best Practices	 3 WEEKS	 1 REALTIME CASE STUDY
 MODULE 2 Azure Data Engineering	• Azure Data Factory (ADF) – Pipelines & Triggers • Azure Synapse Analytics – Ingestion & Processing • Azure Databricks – Spark, PySpark, Delta Lake • Azure Data Lake Storage Gen2 – Architecture • Genie AI, IoT & Real-time Data Processing • CI/CD with Git Integration & DevOps	 7 WEEKS	 2 REALTIME PROJECTS
 MODULE 3 Snowflake Data Engineering	• Snowflake Architecture & Core Concepts • SnowPro Core Certification Concepts • SnowSQL – Querying & Scripting • Data Loading, Transformation & Streams • Azure Integrations – ADF, Databricks, ADLS • Performance, Optimization & Best Practices	 4 WEEKS	 1 REALTIME PROJECT

EXPERT TRAINERS
20+ YRS EXPERIENCE

100% PRACTICAL
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REALTIME PROJECTS
REAL-WORLD SCENARIOS

JOB SUPPORT &
CAREER GUIDANCE

CERTIFICATION
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Detailed Course Content

Module 1: SQL Server (MSSQL), TSQL

Ch 1: SQL Database Job Roles

- ✓ Database Intro
- ✓ OLTP, DWH, OLAP
- ✓ DBMS Basics
- ✓ Data Stack Job Roles

Ch 2: Database Intro & Installations

- ✓ SQL Server Installations
- ✓ Instance & Collations
- ✓ SSMS Tool Installation
- ✓ Connections, Authentications

Ch 3: SQL Basics V1 (Commands)

- ✓ SQL Basics (DDL, DML, etc..)
- ✓ Creating Databases, Tables
- ✓ Data Inserts (GUI, SQL)
- ✓ Basic SELECT Queries

Ch 4: SQL Basics V2 (Commands, Operators)

- ✓ DDL: Create, Alter, Drop
- ✓ DML: Insert, Update, Delete
- ✓ DQL: Select, Fetch
- ✓ Add, Truncate Statements
- ✓ SQL Operators

Ch 5: Data Types & Variables

- ✓ Integer Data Types
- ✓ Character, MAX Data Types
- ✓ Decimal & Boolean Data Types
- ✓ Date and Time Data Types
- ✓ SQL_Variant Type

Ch 6: Data Imports From Files

- ✓ Data Imports with Excel
- ✓ Data Imports with CSV
- ✓ Auto Detection of DataTypes
- ✓ OLE-DB Connections
- ✓ Order By, TOP, OFFSET

Ch 7: Sub Queries

- ✓ Basic Sub Queries
- ✓ Aggregations
- ✓ Combining Queries
- ✓ UNION, UNION ALL

Ch 8: Schemas & Batches

- ✓ Schemas: Creation, Usage
- ✓ Schemas & Table Grouping
- ✓ Real-world Banking Database
- ✓ 2 Part, 3 Part & 4 Part Naming
- ✓ Batch Concept & "Go" Command

Ch 9: Constraints, Keys & RDBMS

- ✓ Null, Not Null Constraints
- ✓ Unique Key & Check
- ✓ Primary Key Constraint
- ✓ Foreign Keys, Default
- ✓ DB Diagrams & ER Models

Ch 10: Normal Forms & RDBMS

- ✓ Normal Forms: 1 NF, 2 NF
- ✓ 3 NF, BCNF and 4 NF
- ✓ 1:1, 1:M, M:1 Cardinality
- ✓ Cascading Keys
- ✓ Self Referencing Keys

Ch 11: Joins & Queries

- ✓ Joins: Table Comparisons
- ✓ Inner Joins & Matching Data
- ✓ Outer Joins: LEFT, RIGHT
- ✓ Full Outer Joins & Aliases
- ✓ Self Joins & Aliases

Ch 12: Views & RLS

- ✓ Views: Realtime Usage
- ✓ DML, SELECT with Views
- ✓ Excel Analytics with Views
- ✓ Important System Views

Ch 13: Stored Procedures - 1

- ✓ Stored Procedures: Realtime Use
- ✓ Parameters Concept with SPs
- ✓ Procedures with SELECT
- ✓ System Stored Procedures
- ✓ Stored Procedures, Tuning

Ch 14: Stored Procedures - 2

- ✓ Merge Statement (Upsert)
- ✓ Merge with OLTP & DWH
- ✓ Matched and Not Matched
- ✓ Merge Statement inside SPs
- ✓ SP Recompilations

Ch 15: User Defined Functions - 1

- ✓ Scalar Functions in Real-world
- ✓ Inline & Multiline Functions
- ✓ Parameterized Queries
- ✓ Variables & Parameters
- ✓ Function Executions

Ch 16: User Defined Functions - 2

- ✓ Date & Time Functions
- ✓ String Functions & Queries
- ✓ Aggregated Functions & Usage
- ✓ Window Functions (Rank)
- ✓ Row_Number, DenseRank
- ✓ Partition By & Order By

Ch 17: Triggers & Automations

- ✓ Need for Triggers in Real-world
- ✓ DDL & DML Triggers
- ✓ For / After Triggers
- ✓ Instead Of Triggers
- ✓ Memory Tables with Triggers
- ✓ Disabling DMLs Triggers

Ch 18: Group By Queries

- ✓ Group By, Distinct
- ✓ GROUP BY, HAVING
- ✓ Cube() and Rollup()
- ✓ Sub Totals & Grand Totals
- ✓ Grouping() & Usage

Ch 19: Joins with Group By

- ✓ 3 Table, 4 Table Joins
- ✓ Join Queries & WHERE
- ✓ Join Queries & Group By
- ✓ IIF(), CASE Statement
- ✓ Query Execution Order

Ch 20: Transactions & ACID

- ✓ Auto Commit Transaction
- ✓ Explicit Transactions
- ✓ COMMIT, ROLLBACK
- ✓ Checkpoint & Query Blocking
- ✓ READPAST, LOCKHINT

Ch 21: Indexes Basics, Tuning

- ✓ Clustered Index, Primary Key
- ✓ Non Clustered Index
- ✓ Query Optimizer
- ✓ Tuning Join Queries
- ✓ Tuning Group By Queries

Ch 22: CTEs & Tuning

- ✓ Common Table Expression
- ✓ CTEs for Data Retrieval
- ✓ CTEs for DML Operations

- ✓ CTEs for Data Cleansing
- ✓ Using CTEs with Row Number

Ch 23: Cursors & Temp Tables

- ✓ Cursors & Fetch
- ✓ Scroll, Absolute Types
- ✓ Local Temp Tables
- ✓ Global Temp Tables
- ✓ SELECT..INTO Statement

Ch 24: Capstone Project (HealthCare Management System)

- ✓ ECommerce Database
- ✓ Data Validations
- ✓ Query Writing
- ✓ Query Tuning
- ✓ Excel Analytics

Module 2: Azure Data Engineer

Part 1: Azure Data Factory & Synapse

Ch 1: Azure Fundamentals

- ✓ Cloud Introduction, Azure
- ✓ Cloud Implementations
- ✓ Azure Account, Subscription
- ✓ Azure ETL & DWH Resources
- ✓ Azure Storage, IoT Resources

Ch 2: Azure Storage & ADLS

- ✓ Azure Storage Account
- ✓ Azure Data Lake Storage
- ✓ Azure BLOB Containers
- ✓ Blob File Uploads
- ✓ Azure Tables

Ch 3: Azure Deployments, Azure SQL

- ✓ Azure SQL Server, SQL DB
- ✓ Azure SQL Database (OLTP)
- ✓ Azure Firewall Rules
- ✓ Connections from SSMS Tool

Ch 4: Azure SQL DB Migrations

- ✓ On-Premise SQL DB, bacpac
- ✓ Azure SQL Deployment
- ✓ Azure Storage from SSMS
- ✓ Azure SQL DB Migration

- ✓ Migration Verifications

Ch 5: Azure Synapse (DWH)

- ✓ Synapse Pool Architecture
- ✓ Control Node, Compute Node
- ✓ DMS (Data Movement Service)
- ✓ Azure DWH Tables: Partitions
- ✓ Distributions & MAXDOP

Ch 6: Azure Data Factory (ADF)

- ✓ Need for ADF & Pipelines
- ✓ Data Orchestration with IR
- ✓ Integration Runtime Engine
- ✓ Linked Services, Datasets
- ✓ Pipelines: Copy Data Activity
- ✓ Data Flow Activity with IR

Ch 7: Azure SQL DB Loads

- ✓ ADF: Author, Azure SQL DB Reads
- ✓ Azure SQL Pool Writes
- ✓ Synapse Analytics with IR
- ✓ Pipeline Design, Validation
- ✓ Pipeline Runs, Monitoring

Ch 8: File Incremental Loads

- ✓ File Incremental Loads
- ✓ Storage Account, Data Lake
- ✓ Binary Copy, Schema Drift
- ✓ Staging Concept in ADF
- ✓ Initial, Incremental Loads
- ✓ Schema & Data Changes

Ch 9: Pipeline Settings

- ✓ ADF Pipeline Settings
- ✓ Staging: Advantages
- ✓ Reliable Logging
- ✓ Best Effort Logging
- ✓ DIU & DOCP with IR
- ✓ Compressions, Health Check

Ch 10: Table Incremental Loads

- ✓ Implement SCD with ADF
- ✓ Self Hosted IR: Realtime Use

- ✓ On-premise Data: Incr Loads
- ✓ Copy Method: Upsert, Keys
- ✓ Staging & ADF Optimizations
- ✓ Pipeline Runs, Activity IDs

Ch 11: ADF Data Flow - 1

- ✓ Creating Data Flow Items
- ✓ Using Multiple Sinks
- ✓ Conditional Split Transformation
- ✓ Select, Sort, Union, Loops
- ✓ ADF Debug Options

Ch 12: ADF Data Flow - 2

- ✓ Working with Multiple Tables
- ✓ Join Transform, Broadcast
- ✓ Surrogate Keys, Derived Cols
- ✓ ETL Loads Dates, Sink Options
- ✓ Aggregated Data Loads

Ch 13: ADF Data Flow - 3

- ✓ Pivot Transformation
- ✓ Group By & Pivot Keys
- ✓ Column Pattern, Deduplicate
- ✓ Lookup, Cached Lookup
- ✓ Tuning Transformations
- ✓ Tuning Data Flow, Spark

Ch 14: ADF Data Flow - 4

- ✓ Get Metadata
- ✓ IF & Lookup Transformation
- ✓ Cache Lookup
- ✓ Data Validations
- ✓ Lookup Versus Joins

Ch 15: ADF Metrics, Alerts

- ✓ Azure Insights
- ✓ Azure Metrics for ADF
- ✓ Azure Metrics for Synapse
- ✓ CPU, Memory Metrics
- ✓ Alerts and Notifications
- ✓ Action Groups, Tuning Options

Ch 16: ADF with Azure Functions

- ✓ Azure Functions

- ✓ Function Activity in ADF
- ✓ Linked Services
- ✓ Pipeline Debug
- ✓ ADF Activity Controls

Ch 17: ADF Optimizations

- ✓ Synapse SQL Pool Partitions
- ✓ ADF Partitions
- ✓ Broadcast Options
- ✓ Staging, Logging
- ✓ DIU, DOCP
- ✓ Spar Cluster Optimizations

Ch 18: ADF Parameters, Security

- ✓ Linked Service Parameters
- ✓ Creating Logins & Users
- ✓ Schemas, ETL Permissions
- ✓ Logins Parameters in ADF
- ✓ Dynamic Linked Services

Ch 19: SCD & ETL with Control Tables

- ✓ ADF Templates in Realtime
- ✓ Incremental Loads (SCD)
- ✓ Control Tables, Watermarks
- ✓ Lookup Activity, Delta Queries
- ✓ SP Activity & Parameters
- ✓ Pipeline Parameters, SPs

Ch 20: Azure Key Vaults

- ✓ Azure Key Vaults
- ✓ Access Policies
- ✓ Secret Management
- ✓ Managed Identity
- ✓ Key Vault Integrations

Ch 21: Synapse Analytics

- ✓ Azure Synapse Analytics
- ✓ Synapse Deployments
- ✓ Synapse Configurations
- ✓ ADLS Containers
- ✓ Workspace Server Setup
- ✓ Synapse Studio (GUI)

Ch 22: Synapse: Dedicated SQL Pools

- ✓ Creating Dedicated SQL Pools
- ✓ BLOB Data Imports
- ✓ TSQL Queries, Data Imports
- ✓ Big Data Analytics

Ch 23: Synapse: Serverless Pools

- ✓ Serverless Pools, TSQL
- ✓ Serverless Architecture
- ✓ OPENROWSET Operations
- ✓ Big Data Analytics

Ch 24: Synapse: Apache Spark Pools

- ✓ Apache Spark Pools
- ✓ Nodes and Executors
- ✓ Big Data Analytics
- ✓ Pipeline Integrations

Part 2: Databricks (Spark, PySpark, Big Data, Genie AI)

Ch 1: Databricks Introduction

- ✓ Cloud ETL, DWH
- ✓ Cloud Computing
- ✓ Databricks Concepts
- ✓ Databricks Account
- ✓ Big Data in Cloud

Ch 2: Databricks Architecture

- ✓ Unity Catalog, Volume
- ✓ Spark Clusters
- ✓ Apache Spark and Databricks
- ✓ Apache Spark Ecosystem
- ✓ Hadoop, MapReduce, Apache Spark

Ch 3: Unity Catalog

- ✓ Unity Catalog Concepts
- ✓ Databricks Workspace UI
- ✓ Organizing Workspace Objects
- ✓ Volumes, File Uploads
- ✓ Managed & External Tables
- ✓ Spark UI: Limitations

Ch 4: Spark SQL: Basics

- ✓ Spark SQL Notebooks
- ✓ Creating Catalog
- ✓ Creating Schemas

- ✓ Spark Data Types
- ✓ PySpark API: SQL Queries
- ✓ Notebooks: Exports, Clone

Ch 5: Spark SQL: Functions

- ✓ Math, Sort Functions
- ✓ String, DateTime Functions
- ✓ SQL Expressions with `expr()`
- ✓ Volume for our Data Assets
- ✓ File Formats, Schema Inference
- ✓ Spark SQL Aggregations

Ch 6: Spark SQL: Time Travel

- ✓ Time Travel Concepts
- ✓ Spark DB: Logical Architecture
- ✓ Spark DB: Physical Store
- ✓ Time Travel, History
- ✓ `DESCRIBE, EXTENDED`
- ✓ Version Numbers

Ch 7: Python Introduction, Print

- ✓ Python Introduction
- ✓ Python Versions
- ✓ `print()` & `display()`
- ✓ Single, Multiline Statements

Ch 8: Python Variables

- ✓ Python Variables
- ✓ Declarations, Values
- ✓ Multi Variable Values
- ✓ Common Variable Values
- ✓ Realtime use of Variables

Ch 9: Python Operators

- ✓ Need for Operators
- ✓ Arithmetic Operators
- ✓ Assignment Operators
- ✓ Comparison Operators
- ✓ Operator Precedence
- ✓ Operands in Python

Ch 10: Python Control Statements

- ✓ Python Control Structures
- ✓ If ... Else Statement

- ✓ Short Hand If
- ✓ ELIF & ELSE IF Statements
- ✓ OR, AND Concepts
- ✓ Python Loops

Ch 11: Python Data Types

- ✓ Python Data Types
- ✓ Integer / Int Data Types
- ✓ Float, String Data Types
- ✓ List Data Type
- ✓ Dictionary Data Type
- ✓ Tuple Data Type

Ch 12: Python Modules & Dataframes

- ✓ Pandas
- ✓ NumPy
- ✓ Dataframe Concepts
- ✓ Handling Nulls
- ✓ Data Cleansing Concepts
- ✓ Pandas Series, arrays
- ✓ Indexes, Indexed Lists

Ch 13: PySpark Concepts

- ✓ Constructing Dataframes
- ✓ List Dataframes
- ✓ Pandas Dataframes
- ✓ Contact & Union
- ✓ Merge
- ✓ Join Options with Dataframes

Ch 14: Medallion Architecture - 1

- ✓ Medallion Architecture
- ✓ Aggregated Data Loads
- ✓ Bronze, Silver and Gold
- ✓ Temp Views
- ✓ Spark Tables (Parquet)
- ✓ Work with File Sources

Ch 15: Medallion Architecture - 2

- ✓ Medallion Architecture
- ✓ Azure SQL DB Connections
- ✓ Joining Source Tables
- ✓ Dataframes, Temp Views
- ✓ Aggregated Data Loads

- ✓ Gold Data Consumption

Ch 16: Delta Lake

- ✓ Databricks DeltaLake
- ✓ Schema Evolution
- ✓ Dataframes, Temp Views
- ✓ Delta Table API
- ✓ Update, Delete Records
- ✓ Merging Records
- ✓ Old History Retention
- ✓ Delta Transaction Log

Ch 17: PySpark: Widgets

- ✓ PySpark Parameters
- ✓ Text Widgets
- ✓ User Parameters
- ✓ Manual Executions
- ✓ Automations
- ✓ UI & JSON For Widgets

Ch 18: Lake Flow Jobs

- ✓ Workflows & CRON
- ✓ Job Compute, Running Tasks
- ✓ Parameters into Notebook Tasks
- ✓ Parameters into Python Script Tasks
- ✓ Concurrent Executions, Dependencies
- ✓ Branching Control with the If-Else Task

Ch 19: Pyspark: Auto Loader - 1

- ✓ AutoLoader Concept
- ✓ Cloudfiles Architecture
- ✓ Checkpoint Configurations
- ✓ Creating Directories
- ✓ Reading Databricks Cloud Sources
- ✓ Initial Loads

Ch 20: PySpark: Auto Loader - 2

- ✓ Reading Streams with Auto Loader
- ✓ Reading a Data Stream
- ✓ Manually Cancel your Data Streams
- ✓ Writing to a Data Stream
- ✓ Schema Evaluation Modes
- ✓ Adding New Columns
- ✓ Workspace Modules

Ch 21: Lake Flow Declarative Pipelines

- ✓ SDP: Spark Declarative Pipelines
- ✓ Delta LIVE Tables
- ✓ Streaming Data Loads
- ✓ Materialized Views
- ✓ Pipeline Clusters
- ✓ Databricks CLI
- ✓ Data Quality Checks

Ch 22: Databricks Optimizations

- ✓ Lazy Evaluation
- ✓ Data Shuffling
- ✓ Broadcast Joins
- ✓ Data Skipping
- ✓ Z Ordering
- ✓ Liquid Clustering
- ✓ VACUUM
- ✓ OPTIMIZE

Ch 23: Databricks Security, AI

- ✓ Overview of ACLs
- ✓ Adding a New User to Workspace
- ✓ Workspace Access Control
- ✓ Cluster Access Control
- ✓ Groups & LakeBridge
- ✓ Access Keys (Tokens), Genie AI

Ch 24: Azure Databricks

- ✓ Databricks Deployment Modes
- ✓ Classic Deployments
- ✓ Azure Databricks Workspace
- ✓ Databricks Compute
- ✓ Scaling & Tuning & AI
- ✓ Open Source Databricks Vs Azure Databricks

Ch 25: GitHub Concepts

- ✓ Creating Github Account
- ✓ GIT Project Concept
- ✓ GIT Project Creation
- ✓ GIT: Main, Branches
- ✓ GIT Credentials
- ✓ Connecting with ADF
- ✓ Connecting with Databricks

Part 3: Data Engineer Projects (For Resume)

Domain: ECommerce Platform

Project Objective:

Build an end-to-end Azure Data Engineering solution to process, transform, and analyze e-commerce business data from multiple sources.

Skills Gained:

- Data Ingestion & ETL Development
- Azure Data Factory Pipelines
- Data Orchestration (End to End)
- Data Lake Architecture, RBAC
- Real-Time Industry Experience
- Azure IoT, Stream Analytics
- Azure IAM, Azure KeyVaults
- Azure Databricks with Data Factory

Module 3: Snowflake (Cloud ETL, DWH)

Ch 1: Introduction to Snowflake

- ✓ Database, DWH Introduction
- ✓ Cloud Data Warehouse
- ✓ Cloud DWH Implementations
- ✓ Snowflake Cloud Intro
- ✓ Snowflake: SaaS Platform

Ch 2: Snowflake Concepts

- ✓ Snowflake Account (Cloud)
- ✓ Snowflake Components
- ✓ Snowflake Editions, Credits
- ✓ Snowflake Editions
- ✓ Virtual Private Edition (VPS)
- ✓ Snowflake Pricing

Ch 3: Architecture, Warehouse

- ✓ Compute Architecture
- ✓ Shared Disk Architecture
- ✓ CPU & Memory in Clusters
- ✓ Database Query & Data Cycle
- ✓ ColumnStore, Virtual Warehouse
- ✓ Classic UI with Snowflake
- ✓ Massively Parallel Processing

Ch 4: SQL Concepts – 1

- ✓ SQL Concepts & Basics
- ✓ Snowflake Databases
- ✓ Snowflake Tables
- ✓ DDL Operations

- ✓ DML Operations
- ✓ Select Operations

Ch 5: SQL Concepts – 2

- ✓ Snowflake Databases
- ✓ Snowflake Tables
- ✓ Data Imports
- ✓ SQL Operators
- ✓ Important Functions

Ch 6: SQL Concepts – 3

- ✓ Snowflake Data Types
- ✓ Snowflake Date Values
- ✓ Snowflake Text Data
- ✓ Snowflake Numeric Data
- ✓ Snowflake Type Conversions

Ch 7: Snowflake Databases & Tables

- ✓ Snowflake Database Types
- ✓ Snowflake Table Types
- ✓ Retention Time, Connections
- ✓ Permanent, Transient Types
- ✓ CREATE TABLE AS SELECT (CTAS)

Ch 8: Time Travel, Recovery

- ✓ Time Travel in Snowflake
- ✓ Invoking Time Travel Feature
- ✓ Timestamp, Offset, Query ID
- ✓ Data Recovery, TIMESTAMP
- ✓ Fail Safe and UNDROP, OFFSET
- ✓ Transient Tables, Real-time

Ch 9: Schemas and Session Context

- ✓ Schema Creation Usage
- ✓ Permanent, Transient Schemas
- ✓ Managed Schemas in Snowflake
- ✓ Invoking Schemas & Cloning
- ✓ Session Context & Schema
- ✓ Data Loading with GUI

Ch 10: Snowflake Cloning

- ✓ Cloning with Snowflake
- ✓ Zero Copy, Schema Cloning
- ✓ Snapshot, Metadata
- ✓ Storage & Metadata Layer
- ✓ Real-time Considerations

- ✓ Transactions & Injection

Ch 11: Procedures & Views

- ✓ Procedures and Functions
- ✓ SQL and JavaScript & CALL
- ✓ sqlText:command
- ✓ Cursoring Data and Operations
- ✓ Dynamic DML with SPs
- ✓ RETURN, RETURNS Statements

Ch 12: Security Management

- ✓ Security with Snowflake
- ✓ Users & Roles in Snowflake
- ✓ Privileges and Groups
- ✓ Organization, Account, Users
- ✓ Creating, Using Roles, Users
- ✓ System Defined Roles Usage
- ✓ Role Hierarchy in Realtime
- ✓ Views For Security
- ✓ RBAC & DAC in Real-time

Ch 13: Snowflake Transactions

- ✓ Transaction ACID Properties
- ✓ Implicit, Explicit and Auto
- ✓ Durability and Data Storage
- ✓ current transaction() Usage
- ✓ to_timestamp_ltz and Usage
- ✓ Failed Transactions with SPs
- ✓ Transactions and SPs
- ✓ Scoped & INNER Transactions

Ch 14: Snowflake Streams & Audits

- ✓ Snowflake Streams & Usage
- ✓ Streams and DML Auditing
- ✓ Snapshot Creation, Offset
- ✓ METADATA Options & Streams
- ✓ Auditing DML Operations
- ✓ Data Flow & Snowflake Streams
- ✓ Streams on Transient Tables
- ✓ Time Travel with Stream Tables

Ch 15: Snowflake Tasks

- ✓ Tasks, Serverless Compute
- ✓ Tasks Tree: Root and DAG
- ✓ Tasks Schedules and RESUME
- ✓ User & Snowflake Managed

- ✓ CRON Syntax with Tasks
- ✓ Virtual Warehouse Concepts
- ✓ Multi Cluster Warehouse
- ✓ Auto Scale Options, Billing

Ch 16: SnowSQL and Variables

- ✓ SnowSQL Configurations
- ✓ DDL, DML & SELECT
- ✓ SnowSQL Command Line
- ✓ Variables and Batch Process
- ✓ DECLARE, LET, BEGIN & END
- ✓ EXECUTE IMMEDIATE, FOR
- ✓ Creating Virtual Warehouse
- ✓ Writing Output to Files

Ch 17: Snowflake Partitions, Stages

- ✓ Snowflake Partitions, Views
- ✓ Micro Partition with DML, CDC
- ✓ Cluster Key, Depth and Overlap
- ✓ Internal Partition Types & Usage
- ✓ List, Range and Hash Partitions
- ✓ Snowflake Stages, Types
- ✓ Internal and External Stages
- ✓ COPY Command, Bulk Loads

Ch 18: Azure / AWS External Stages

- ✓ Azure Storage Account, BLOB
- ✓ SAS: Shared Access Signature
- ✓ Using SAS Key and FILE PATH
- ✓ Azure Storage with BLOB
- ✓ COPY INTO Command Usage
- ✓ Snowflake Patterns & RegEx
- ✓ File Formats: Creation, Usage

Ch 19: Snow Pipes & Incr Loads

- ✓ SnowPipe Incremental Loads
- ✓ Azure Active Directory
- ✓ External Stage, Enterprise AD
- ✓ Snow Pipes and Data Loads
- ✓ Incremental Data Loads
- ✓ File Format with Reg Expr

Ch 20: Power BI with Snowflake

- ✓ Power BI: Big Data Analytics
- ✓ Snowflake Data Access, Views
- ✓ Datawarehouse Access, Views

- ✓ Server URL & View Access
- ✓ Data Analytics with Views

Snowflake Data Engineer Projects (For Resume)

Domain: HealthCare / Ecommerce Domain

Skills Gained:

- Data Ingestion & ETL Development
- Azure Data Factory Pipelines
- Snowflake Data Orchestration (End to End)
- Snowflake with ADLS
- Snowflake with ADF
- Real-Time Industry Experience
- Azure IoT, Stream Analytics
- Azure Databricks with Data Factory

Key Features @ 100% Practical Snowflake Training Course

- Data Ingestion from Azure
- Customer Trend Analysis
- Interactive Dashboards

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Thank You!

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in your data career.

Trainer
Mr. Sai Phanindra
20+ Yrs of Experience on DataStack

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KEEP SUCCEEDING!

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