



Thank you for contacting our **SQL School** Training Institute. We assure you 100% Practical, Step by Step Trainings on **Snowflake Full Stack** Course.

Whom we are?

Over 19 Years of strong commitment in training excellence, we assure you 100% practical, step by step learning process paired with Assignments, Use Case Scenarios and Realtime Project Implementations for your Resume and Job Work. We are sure, you will have a wonderful journey with us.

Details of our Snowflake Training

1. What is Snowflake?

Snowflake is an Open-Source Cloud Warehouse Technology.

Snowflake is used to store Huge Volumes of Data (Big Data), Aggregated and also Historical Data. Very Robust and use Friendly environment paired with Enterprise Level Security.

2. What are the Job Roles for Snowflake Engineers?

Snowflake Data Engineers are responsible for:

1. Data Extraction (E), Transformations (T)
2. Big Data Loads (L)
3. Data Warehouse (DWH) Design
4. Data Analytics
5. LIVE Streaming Data
6. Cloud Computing
7. Big Data Security and more .. !

3. Who can join this course?

1. Analysts
2. Developers
3. Administrators
4. IT Professionals
5. Students
6. Anyone who wanted to step into in Cloud ETL !



4. What is included in this complete, practical step by step course?

DWH BASICS	DWH ARCHITECTURE	CLOUD BASICS	SNOWFLAKE CONCEPTS	SNOWFLAKE ARCHITECTURE	VWH ARCHITECTURE
MPP ARCH	SNOWFLAKE OPERATIONS	CLASSIC UI	SNOWSIGHT	EDITIONS, PRICING	DWH CREATION
DATABASES	SCHEMA CONCEPT	TABLES, DATA LOADS	CTAS, SCHEMAS, CONTEXT	CONSTRAINTS, KEYS	VIEWS, DATA TYPES
TRANSIENT TABLES	TEMPORARY TABLES	DATA RECOVERY	UNDROP, OFFSET, QID	SNOWFLAKE CLONING	ZERO COPY CLONE
PROCEDURES, UDF	sqlText(), statement()	CURSORS DATA	TRANSACTIONS	EXPLICIT, AUTO COMMIT	BATCH PROCESSING
SECURITY MANAGEMENT	SYSTEM ROLES	USERS, PREVELIGES	RBAC	DAC	OBJECT SECURITY
DATA STREAMS	CDC	SCHEDULED TASKS	DML, DDL, TCL AUDITS	DATA RECOVERY	TIME TRAVEL
TASKS	DAG	CRON CONCEPTS	PARTITIONS	TABLE PARTITIONS	INDEXES, TUNING
SNOWSQL	TOOL CONFIGURATION	SNOW CLOUD AUTH"	VARIABLES	OPERATORS, AUDITS	DATA IMPORTS
STAGES	INTERNAL STAGES	EXTERNAL STAGES	AZURE CLOUD	BLOB DATA STAGES	COPY INTO
SNOWPIPES	INTEGRATIONS	AZURE AD AUTH"	FILE FORMATS	INCREMENTAL LOADS	REAL-TIME PROJECT

5. What about Placement Assistance?

We train you with step-by-step activities, concept wise FAQs and Answers. Resume Guidance and Placement Assistance part of this Snowflake Training Program!

6. What are the Snowflake Training Modules?

Module 1: MSSQL & TSQL <ul style="list-style-type: none"> ➤ 3 Weeks ➤ 3 Realtime Case Studies 	Module 2: Snowflake <ul style="list-style-type: none"> ➤ 4 Weeks ➤ 1 Realtime Case Study ➤ 1 Realtime Project 	Module 3: Snowflake with DBT <ul style="list-style-type: none"> ➤ 3 Weeks ➤ 1 Realtime Case Study ➤ Includes Snowpark
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7. What are the Snowflake Training Plans (Options)?

Training Plan	Module	Total Duration
Plan A	Only Snowflake	4 Weeks
Plan B	Snowflake + DBT (Includes Snowpark)	7 Weeks
Plan C	MSSQL TSQL + Snowflake + DBT (Includes Snowpark)	10 Weeks

Module 1: SQL Server TSQL (MS SQL) Queries

Ch 1: Introduction <ul style="list-style-type: none"> ✓ Database Introduction ✓ Types of Databases ✓ Need for & ETL, DWH ✓ BI Implementations ✓ SQL Server Advantages ✓ Version, Editions of MSSQL ✓ Data Engineering Job Roles 	Ch 2: Installations <ul style="list-style-type: none"> ✓ SQL Server 2019, 2017 ✓ SSMS Tools Installation ✓ Database Engine (OLTP) ✓ SCM, Configuration Tools ✓ Instance Types, Uses ✓ Authentication Modes ✓ Collation, File Stream 	Ch 3: SQL Basics - 1 <ul style="list-style-type: none"> ✓ Need for Databases, Tables ✓ Need for SQL Commands ✓ DDL, DML & DQL Statements ✓ Database Creation @ GUI ✓ Data Operations @ GUI ✓ Session ID, SQL Context ✓ DB, Tables, Data @ SQL
Ch 4: SQL Basics - 2 <ul style="list-style-type: none"> ✓ DDL Variants in MSSQL ✓ DML Variants in MSSQL ✓ INSERT & INSERT INTO ✓ SELECT & SELECT INTO ✓ Basic Operators in SQL ✓ Special Operators in MSSQL ✓ ALTER, ADD, TRUNCATE, DROP 	Ch 5: Data Imports, Schemas <ul style="list-style-type: none"> ✓ Data Imports with Excel ✓ ORDER BY & UNION ✓ UNION ALL For Sorting Data ✓ Creating, Using Schemas ✓ Real-world Banking Database ✓ Table Migrations @ Schemas ✓ 2 Part, 3 Part & 4 Part Naming 	Ch 6: Constraints, Index Basics <ul style="list-style-type: none"> ✓ Need for Constraints, Keys ✓ NULL, NOT NULL, UNIQUE ✓ Primary Key & Foreign Key ✓ RDBMS and ER Models ✓ Identity Property, Default ✓ Clustered Index, Primary Key ✓ Non Clustered Index, Unique
Ch 7: Joins & Views Basics <ul style="list-style-type: none"> ✓ JOINS: Purpose. Inner Joins ✓ Left / Right / Full Outer Joins ✓ Cross Joins, Query Tuning ✓ Creating & Using Views ✓ DML, SELECT with Views ✓ RLS : WITH CHECK OPTION ✓ System Views & Metadata 	Ch 8: Functions(UDF), Data Types <ul style="list-style-type: none"> ✓ Using Functions in MSSQL ✓ Scalar Value Functions ✓ Inline & Multiline Functions ✓ Date & Time Functions ✓ String, Aggregate Functions ✓ Data Types : Integer, Char, Bit ✓ SQL Variant, Timestamp, Date 	Ch 9: Stored Procedures, Models <ul style="list-style-type: none"> ✓ Stored Procedures & Usage ✓ Creating, Testing Procedures ✓ Encryption, Deferred Names ✓ SPs for Validations, Analysis ✓ System SPs, Recompilation ✓ Normal Forms & Types ✓ Data Models, Self-References
Ch 10: Triggers, Temp Tables <ul style="list-style-type: none"> ✓ Need for Triggers ✓ DDL & DML Triggers ✓ Using Memory Tables ✓ Data Replication, Automation ✓ Local & Global Temp Tables ✓ Testing & Using Temp Tables ✓ SELECT .. INTO & Bulk Loads 	Ch 11: DB Architecture, Locks <ul style="list-style-type: none"> ✓ Planning VLDBs : Files, Sizing ✓ Filegroups, Extents & Types ✓ Log Files : VLF, Mini LSN ✓ Table Location, Performance ✓ Schemas, Transfer, Synonyms ✓ Transactions Types, Lock Hint ✓ Query Blocking Scenarios 	Ch 12: Cursors & CTEs, Links <ul style="list-style-type: none"> ✓ Cursors : Realtime Use ✓ Fetch & Access Cursor Rows ✓ CTEs for SELECT, DML ✓ CTEs: Scenarios & Tuning ✓ Linked Servers, Remote Joins ✓ Linked Servers: MSDTC, RPC ✓ Tuning Remote Queries

Ch 13: Merge, Upsert & Rank <ul style="list-style-type: none"> ✓ Need for Merge in ETL ✓ Incremental Loads with SQL ✓ MERGE and RANK Functions ✓ Window Functions, Partition ✓ Identify, Remove Duplicates 	Ch 14: Grouping & Cube <ul style="list-style-type: none"> ✓ Group By & HAVING ✓ Cube, Rollup & Grouping ✓ Joins with Group By ✓ 3 Table, 4 Table Joins ✓ Query Execution Order 	Ch 15: Self Joins, Excel Analysis <ul style="list-style-type: none"> ✓ Self Joins & Self References ✓ UNION, UNION ALL ✓ Sub Queries with Joins ✓ IIF, CASE, EXISTS Statements ✓ Excel Analytics, Pivot Reports
Real-time Case Studies		

Module 2: Snowflake

Ch 1: Introduction to Snowflake <ul style="list-style-type: none"> ✓ Database, DWH Introduction ✓ OLTP, OLAP and DWH ✓ Data Warehouse Advantages ✓ Cloud DWH Implementations ✓ IaaS, PaaS & SaaS Concepts ✓ Snowflake Cloud Intro ✓ Snowflake: SaaS Platform ✓ Snowflake Advantages 	Ch 2: Snowflake Concepts <ul style="list-style-type: none"> ✓ Snowflake Account (Cloud) ✓ Snowflake Components ✓ Snowflake Editions, Credits ✓ Web UI & Snow Sight ✓ Snowflake Editions ✓ Snowflake Storage ✓ Virtual Private Edition (VPS) ✓ Snowflake Pricing 	Ch 3: Architecture, Warehouse <ul style="list-style-type: none"> ✓ Compute Architecture ✓ Shared Disk Architecture ✓ Nodes and Clusters ✓ CPU & Memory in Clusters ✓ Database Query & Data Cycle ✓ ColumnStore, Virtual Warehouse ✓ Classic UI with Snowflake ✓ Massively Parallel Processing
Ch 4: Snowflake DB & Tables <ul style="list-style-type: none"> ✓ DB Objects and Hierarchy ✓ Worksheet Parameters ✓ DB Creation with Snowflake ✓ Snowflake Tables and Usage ✓ Retention Time, Connections ✓ Permanent, Transient Types ✓ CREATE TABLE AS SELECT ✓ ALTER, DROP & UNDROP 	Ch 5: Time Travel, Recovery <ul style="list-style-type: none"> ✓ Time Travel in Snowflake ✓ Continuous Data Protection ✓ Invoking Time Travel Feature ✓ Timestamp, Offset, Query ID ✓ Data Recovery, TIMESTAMP ✓ OFFSET in Real-world ✓ Fail Safe and UNDROP ✓ Transient Tables, Real-time 	Ch 6: Schemas and Session Context <ul style="list-style-type: none"> ✓ Schema Creation Usage ✓ Permanent, Transient Schemas ✓ Managed Schemas in Snowflake ✓ Invoking Schemas & Cloning ✓ Snowflake Workspaces ✓ Session Context & Schema ✓ Query and History Tab in GUI ✓ Data Loading with GUI

Ch 7: Constraints & Data Types <ul style="list-style-type: none"> ✓ Constraints & Validations ✓ NULL, NOT NULL Properties ✓ Keys & Constraints, Usage ✓ Inline, Out Of Line Constraints ✓ Table Constraints, Use ✓ ENFORCED Constraints ✓ DEFERRED, IMMEDIATE ✓ Snowflake Data Types 	Ch 8: Snowflake Cloning <ul style="list-style-type: none"> ✓ Cloning with Snowflake ✓ Zero Copy, Schema Cloning ✓ Real-time Cloning ✓ Snapshot, Metadata ✓ Permissions for Cloning ✓ Accessing, Clone ✓ Storage & Metadata Layer ✓ Real-time Considerations 	Ch 9: Snowflake Procedures <ul style="list-style-type: none"> ✓ Procedures and Functions ✓ SQL and JavaScript & CALL ✓ Transactions & Injection ✓ sqlText:command ✓ Cursoring Data and Operations ✓ Dynamic DML with SPs ✓ Working with Loops ✓ RETURN, RETURNS Statements
Ch 10: Security Management <ul style="list-style-type: none"> ✓ Security with Snowflake ✓ Users & Roles in Snowflake ✓ Privileges and Groups ✓ Organization, Account, Users ✓ Creating, Using Roles, Users ✓ System Defined Roles Usage ✓ Role Hierarchy, Dependency ✓ RBAC & DAC in Real-time 	Ch 11: Snowflake Transactions <ul style="list-style-type: none"> ✓ 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 12: Snowflake Streams & Audits <ul style="list-style-type: none"> ✓ 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 13: Snowflake Tasks, Partitions <ul style="list-style-type: none"> ✓ 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 14: SnowSQL and Variables <ul style="list-style-type: none"> ✓ 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 15: Snowflake Partitions, Stages <ul style="list-style-type: none"> ✓ Snowflake Partitions, Use ✓ 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 16: Azure & External Stages <ul style="list-style-type: none"> ✓ Azure Subscriptions ✓ 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 17: Snow Pipes & Incr Loads <ul style="list-style-type: none"> ✓ SnowPipe Incremental Loads ✓ Azure Queues & Integrations ✓ Azure Active Directory ✓ External Stage, Enterprise AD ✓ Snow Pipes and Data Loads ✓ Incremental Data Loads ✓ Enterprise Applications ✓ File Format with Reg Expr 	Ch 18: Power BI with Snowflake <ul style="list-style-type: none"> ✓ Power BI: Big Data Analytics ✓ Configuring Power BI ✓ Snowflake Data Access ✓ Datawarehouse Access ✓ SnowPro Exam Guidance ✓ SnowPro Exam Samples ✓ Certification Guidance
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Module 3: Data Build Tool (DBT)

Ch 1 : DBT Fundamentals

- ✓ What is Data Build Tool?
- ✓ DBT as a data transformation tool
- ✓ Importance of DBT in ELT workflows
- ✓ DBT Cloud for data transformations

Ch 2: DBT Models and Materializations

- ✓ Building models in DBT
- ✓ Types of materializations
- ✓ Table, view, incremental materializations
- ✓ Model configurations

Ch 3: DBT Jinja Templating

- ✓ Introduction to Jinja
- ✓ Using Jinja with DBT
- ✓ Macros and reusable code
- ✓ Implementing dynamic SQL

Ch 4: DBT Testing and Documentation

- ✓ Writing and executing tests
- ✓ Data quality checks
- ✓ DBT documentation and lineage graphs

- ✓ **Generating DBT docs**

Ch 5: DBT Seeds and Sources

- ✓ Using seeds for static data
- ✓ Defining and using sources
- ✓ Source freshness checks
- ✓ Integrating external data

Ch 7: DBT Deployment and CI/CD

- ✓ Deployment strategies for DBT
- ✓ Continuous integration and deployment
- ✓ Automating DBT workflows
- ✓ Version control with Git

Ch 7: DBT Best Practices

- ✓ Project structure recommendations
- ✓ Coding standards and guidelines
- ✓ DBT project optimization
- ✓ Performance tuning tips

Ch 8: Hooks in DBT

- ✓ Custom scripts to run at specific points
- ✓ Adding additional logic to streamline Snowflake
- ✓ Analyses and exploratory data workflows
- ✓ Ad-hoc analyses that do not get materialized

Ch 9: DBT Snapshots

- ✓ Managing historical data
- ✓ Implementing DBT snapshots
- ✓ Snapshot configuration
- ✓ Strategies for handling changes

Ch 10: DBT Packages and Extensions

- ✓ Leveraging DBT packages
- ✓ Using community packages
- ✓ Extending DBT functionality

- ✓ Integrations with other data tools

Ch 11: DBT Advanced Topics

- ✓ Advanced Jinja usage, Snowpark
- ✓ Handling complex data scenarios
- ✓ Custom materializations, Snowpark
- ✓ Troubleshooting and debugging techniques

Ch 12: Real-time Project Phase 1

- ✓ Defining project requirements
- ✓ Initial project setup and DBT configuration
- ✓ Model planning and development
- ✓ Initial testing and validation

Ch 13: Real-time Project Phase 2

- ✓ Project deployment and monitoring
- ✓ Implementing advanced DBT features
- ✓ Comprehensive testing and documentation
- ✓ Real-world deployment considerations

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Trending Job Roles

- Data Analyst
- Data Engineer
- Data Architect
- Data Scientist
- Developer, more .. !

Training Highlights

- ✓ Step by Step
- ✓ LIVE Project(s)
- ✓ Job Assistance
- ✓ Resume Guidance
- ✓ Concept wise FAQs

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