



Complete Practical; Real-time Job Oriented Training

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 is the Job Roles for Snowflake Data Engineers?

Snowflake Data Engineers are responsible for performing:

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

3. Who can join this course?

1. Analysts
2. Developers
3. Administrators
4. Data Scientists
5. IT Professionals
6. Data Engineers
7. Students
8. Anyone who wanted to step into in Cloud / DWH / ETL Platform

4. 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 !

5. How do I join the course?

Reach us now on +91 9666440801 or visit us on www.sqlschool.com/schedules

	PLAN A	PLAN B	PLAN C
Training Details	1. Snowflake	1. MSSQL & TSQL 2. Snowflake	1. MSSQL & TSQL 2. Snowflake 3. Power BI
Snowflake: Cloud & DWH	✓	✓	✓
Snowflake: DWH Architecture	✓	✓	✓
Snowflake: DWH & ETL Concepts	✓	✓	✓
Snowflake: Partitions & Tuning	✓	✓	✓
Snowflake: Security & Tuning	✓	✓	✓
Snowflake: Backups & HA DR	✓	✓	✓
Snowflake: Streams, Stages	✓	✓	✓
Snowflake: SnowSQL, Upserts	✓	✓	✓
Snowflake: Snow Pipes	✓	✓	✓
Snowflake: SnowSQL Concepts	✓	✓	✓
Snowflake: Variables & Tasks	✓	✓	✓
Snowflake: File Formats, Stages	✓	✓	✓
Snowflake: Azure Cloud Integrations	✓	✓	✓
TSQL: Database Concepts, T-SQL	X	✓	✓
TSQL : Constraints, Joins, Queries	X	✓	✓
TSQL: Views, Group By, Self Joins	X	✓	✓
TSQL: SPs, Udf, Transactions, Indexes	X	✓	✓
TSQL: Merge, Rank, Tuning & CTEs	X	✓	✓
Power BI: Big Data Analytics	X	X	✓
Power BI: Power Query, DAX	X	X	X
Power BI: Snowflake DWH	X	X	X
Power BI: Cloud Concepts	X	X	X
Power BI: Report Server, DWH	X	X	X
Total Duration	4 Weeks	7 Weeks	11 Weeks

Trainer: Mr. Sai Phanindra T [18+ Yrs of Real-time Exp]. Profile @ [linkedin.com/in/saiphanindra](https://www.linkedin.com/in/saiphanindra)

Module 1: SQL Server TSQL (MS SQL) Queries

Helpful for Data Analysts, Data Engineers, Data Scientists, BI Developers

<p>Ch 1: Introduction</p> <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 	<p>Ch 2: Installations</p> <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 	<p>Ch 3: SQL Basics - 1</p> <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
<p>Ch 4: SQL Basics - 2</p> <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 	<p>Ch 5: Data Imports, Schemas</p> <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 	<p>Ch 6: Constraints, Index Basics</p> <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
<p>Ch 7: Joins & Views Basics</p> <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 	<p>Ch 8: Functions(UDF), Data Types</p> <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 	<p>Ch 9: Stored Procedures, Models</p> <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
<p>Ch 10: Triggers, Temp Tables</p> <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 	<p>Ch 11: DB Architecture, Locks</p> <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 	<p>Ch 12: Cursors & CTEs, Links</p> <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
<p>Ch 13: Merge, Upsert & Rank</p> <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 	<p>Ch 14: Grouping & Cube</p> <ul style="list-style-type: none"> ✓ Group By & HAVING ✓ Cube, Rollup & Grouping ✓ Joins with Group By ✓ 3 Table, 4 Table Joins ✓ Query Execution Order 	<p>Ch 15: Self Joins, Excel Analysis</p> <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 Study

Mini Project [Design, Queries, Stored Procedures, Functions, Joins, more..]

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 and 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 (Zero Copy) <ul style="list-style-type: none">✓ Cloning with Snowflake✓ Zero Copy, Schema Cloning✓ Real-time Cloning✓ Snapshot Concept, Metadata✓ Permissions for Cloning✓ Accessing, Controlling 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

<p>Ch 10: Security Management</p> <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 	<p>Ch 11: Snowflake Transactions</p> <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 	<p>Ch 12: Snowflake Streams & Audits</p> <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
<p>Ch 13: Snowflake Tasks, Partitions</p> <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 	<p>Ch 14: SnowSQL and Variables</p> <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 	<p>Ch 15: Snowflake Partitions, Stages</p> <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
<p>Ch 16: Azure & External Stages</p> <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 	<p>Ch 17: Snow Pipes & Incr Loads</p> <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 	<p>Ch 18: Power BI with Snowflake</p> <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 ✓ Mock Certification

Module 3: Power BI, Big Data Analytics

<p>Ch 1: Power BI Introduction</p> <ul style="list-style-type: none"> ✓ Reporting Basics & Types ✓ Interactive, Analytical Reports ✓ Paginated Reports (RDL) ✓ Power BI Eco System ✓ Power BI Tools, Service, Server ✓ Need for Power Query (M) ✓ Need for DAX & Cloud 	<p>Ch 2: Power BI Basic Reports</p> <ul style="list-style-type: none"> ✓ Power BI Desktop Installation ✓ Basic Report Design (PBIX) ✓ Data View, Data Models ✓ Data Points, Aggregations ✓ Focus Mode, Spotlight, Exports ✓ ToolTip, PBIX and PBIT ✓ Visual Interactions & Edits 	<p>Ch 3: Grouping, Hierarchies</p> <ul style="list-style-type: none"> ✓ Creating Groups in Power BI ✓ Groups : Creation & Usage ✓ Group Edits Options ✓ Bins & Bin Size, Bin Count ✓ Hierarchies: Creation, Use ✓ Drill Down, Drill Up ✓ Conditional Drill Down
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<p>Ch 4: Visual Sync, Filters</p> <ul style="list-style-type: none"> ✓ Slicer & Single Select ✓ Multi Select Options ✓ Integer, Character Slicers ✓ Visual Sync with Slicers ✓ Filters: Visual, Page, Report ✓ Drill Thru Filters & Usage ✓ Basic, Top & Advanced ✓ Clear Filter Options, Resets 	<p>Ch 5: Bookmarks, Big Data Access</p> <ul style="list-style-type: none"> ✓ Bookmarks Creation & Usage ✓ Visual Interactions, Bookmarks ✓ Images : Actions, Bookmarks ✓ Big Data Access with Power BI ✓ Storage Modes: Direct Query ✓ Import & Performance Impact ✓ Formatting & Data Refresh ✓ Summary, Date Time Formats 	<p>Ch 6: Power BI Visualizations</p> <ul style="list-style-type: none"> ✓ Chart and Bar Visuals ✓ Line and Area Charts ✓ Maps, TreeMaps, HeatMaps ✓ Funnel, Card, Multrow Card ✓ PieCharts & Settings ✓ Waterfall, Sentiment Colors ✓ Scatter Chart, Play Axis ✓ Infographics, Classifications
<p>Ch 7: Power Query Level 1</p> <ul style="list-style-type: none"> ✓ Power Query (Mashup) ✓ ETL Transformations in PBI ✓ Power Query Expressions ✓ Table Combine Options ✓ Merge, Union All Options ✓ Table Transformations 	<p>Ch 8: Power Query Level 2</p> <ul style="list-style-type: none"> ✓ Any Column Transformations ✓ String / Text Transformations ✓ Numeric Analytics & Mashup ✓ Date Time Transformations ✓ Add Column Transformations ✓ Expressions and New Columns 	<p>Ch 9: Power Query Level 3</p> <ul style="list-style-type: none"> ✓ Parameters in Power Query ✓ Static Parameters, Defaults ✓ Dynamic Dropdowns, Lists ✓ Linking with Table Queries ✓ Column From Examples ✓ Step Edits, Type Conversions
<p>Ch 10: Power BI Cloud - 1</p> <ul style="list-style-type: none"> ✓ Power BI Cloud Concepts ✓ Workspace Creation, Usage ✓ Report Publish & Edits ✓ Semantic Models in Realtime ✓ Dashboard Creation, Usage ✓ Clone, Share, Subscribe ✓ Q&A, Lineage, Settings 	<p>Ch 11: Power BI Cloud - 2</p> <ul style="list-style-type: none"> ✓ Data Gateways, Data Refresh ✓ Data Source Configurations ✓ Data Refresh & Scheduling ✓ Gateway Optimizations ✓ Semantic Model Optimizations ✓ Report Optimizations ✓ Dashboard Optimizations 	<p>Ch 12: Power BI Cloud - 3</p> <ul style="list-style-type: none"> ✓ Power BI Apps, Shares ✓ App Sections & Options ✓ App Updates, Security ✓ Excel Analytics ✓ Data Explorer Options ✓ Sharing, Subscriptions ✓ Alerts, Metrics, Insights
<p>Ch 13: Report Server & RDL</p> <ul style="list-style-type: none"> ✓ Power BI Report Server ✓ SQL Server DB Engine ✓ Report Database, TempDB ✓ Web Service & Server URL ✓ Paginated Reports (RDL) ✓ Report Builder Tool Usage 	<p>Ch 14: DAX Level 1</p> <ul style="list-style-type: none"> ✓ DAX : Purpose, Realtime Use ✓ DAX Calculations Creation, Use ✓ DAX Measures Creation, Use ✓ DAX Functions: IIF, ISBLANK ✓ SUM, CALCULATE Functions ✓ DAX Cheat Sheet : Examples 	<p>Ch 15: DAX Level 2</p> <ul style="list-style-type: none"> ✓ Quick Measures in Power BI ✓ Running Totals, Filters ✓ Star Rating Calculations ✓ Data Models & DAX ✓ Star & Snowflake Schemas ✓ Dimensions, Fact Tables
<p>Ch 16: DAX Level 3</p> <ul style="list-style-type: none"> ✓ DAX Expressions & Joins ✓ DAX Variables, Usage ✓ Dynamic Report with DAX ✓ SELECTED MEMEBER ✓ Time Intelligence with DAX ✓ PARALLELPERIOD, DATE 	<p>Ch 17: Realtime Project Phase 1</p> <ul style="list-style-type: none"> ✓ Project Requirement Spec ✓ Understanding Data, Formats ✓ Report Pattern Design ✓ Report Design & Modelling ✓ Power Query, DAX, Insights ✓ Analytical Reports in Cloud 	<p>Ch 18: Realtime Project Phase 2</p> <ul style="list-style-type: none"> ✓ Complete Project Solution ✓ Project FAQs, Key Roles ✓ Real-world Considerations ✓ Power BI Admin Concepts ✓ Resume Points, FAQs ✓ PL 300 Exam Guidance

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