SQL SCHOOL
★ Trainings ★ Projects ★ Jobs

Thank you for contacting our **SQL School** Training Institute. We assure you 100% Practical, step-by-step training on the **Snowflake Data Analyst** Course.

Whom we are?

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

Details of our Snowflake Data Analyst Training

1. What is Snowflake Data Analyst?

Snowflake is a **Cloud-Based Data Platform** that supports large-scale analytics with real-time speed and security. As a Data Analyst, you will learn to **query, interpret, and visualize data** using Snowflake and external BI tools.

2. Who can join this course?

1. Data Analysts
2. BI Analysts
3. Cloud Enthusiasts
4. SQL Developers
5. MIS Professionals

Anyone looking to master data analysis using Snowflake

3. What is included in this complete, practical step by 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()	CURSORING 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

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

Snowflake Data Analyst Training

Module 1: SQL Server TSQL (MS SQL) Queries
Helpful for Data Analysts, Data Engineers, Data Scientists, BI Developers

Ch 1: Introduction
- ✓ 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
- ✓ 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
- ✓ 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
- ✓ 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
- ✓ 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
- ✓ 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
- ✓ 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
- ✓ 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
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
- ✓ 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
- 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
- ✓ 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
- ✓ Need for Merge in ETL
- ✓ Incremental Loads with SQL
- ✓ MERGE and RANK Functions
- ✓ Window Functions, Partition
- ✓ Identify, Remove Duplicates

Ch 14: Grouping & Cube
- ✓ Group By & HAVING
- ✓ Cube, Rollup & Grouping
- ✓ Joins with Group By
- ✓ 3 Table, 4 Table Joins
- ✓ Query Execution Order

Ch 15: Self Joins, Excel Analysis
- ✓ Self Joins & Self References
- ✓ UNION, UNION ALL
- ✓ Sub Queries with Joins
- ✓ IIF, CASE, EXISTS Statements
- ✓ Excel Analytics, Pivot Reports

Real-time Case Study

Module 2: Snowflake

Ch 1: Introduction to Snowflake
- ✓ 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
- 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
- ✓ 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
- ✓ 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
- ✓ 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
- ✓ 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
- ✓ Constraints & Validations
- ✓ NULL, NOT NULL Properties
- ✓ Keys & Constraints, Usage
- ✓ Inline, Out Of LineConstraints
- ✓ Table Constraints, Use
- ✓ ENFORCED Constraints
- ✓ DEFERRED, IMMEDIATE
- ✓ Snowflake Data Types

Ch 8: Snowflake Cloning
- ✓ 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
- ✓ 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
- 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
- ✓ 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
- ✓ 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
- ✓ 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
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
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
- ✓ 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
- ✓ 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
- ✓ Power BI: Big Data Analytics
- ✓ Configuring Power BI
- ✓ Snowflake Data Access
- ✓ Datawarehouse Access
- ✓ SnowPro Exam Guidance
- ✓ SnowPro Exam Samples
- ✓ Certification Guidance

Module 3: Power BI with AI, CoPilot

Ch 1: Power BI Introduction
- ✓ 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

Ch 2: Power BI Basic Reports
- ✓ 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

Ch 3: Grouping, Hierarchies
- ✓ 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

Ch 4: Visual Sync, Filters
- ✓ 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

Ch 5: Bookmarks, Big Data Access
- ✓ 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

Ch 6: Power BI Visualizations
- ✓ 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

Ch 7: Power Query Level 1
- ✓ Power Query (Mashup)
- ✓ ETL Transformations in PBI
- ✓ Power Query Expressions
- ✓ Table Combine Options
- ✓ Merge, Union All Options
- ✓ Table Transformations

Ch 8: Power Query Level 2
- ✓ Any Column Transformations
- ✓ String / Text Transformations
- ✓ Numeric Analytics & Mashup
- ✓ Date Time Transformations
- ✓ Add Column Transformations
- ✓ Expressions and New Columns

Ch 9: Power Query Level 3
- ✓ Parameters in Power Query
- ✓ Static Parameters, Defaults
- ✓ Dynamic Dropdowns, Lists
- ✓ Linking with Table Queries
- ✓ Column From Examples
- ✓ Step Edits, Type Conversions

Ch 10: Power BI Cloud - 1
- ✓ Power BI Cloud Concepts
- ✓ Workspace Creation, Usage
- ✓ Report Publish & Edits
- ✓ Semantic Models in Realtime
- ✓ Dashboard Creation, Usage
- ✓ Clone, Share, Subscribe
- ✓ Q&A, Lineage, Settings

Ch 11: Power BI Cloud - 2
- ✓ Data Gateways, Data Refresh
- ✓ Data Source Configurations
- ✓ Data Refresh & Scheduling
- ✓ Gateway Optimizations
- ✓ Semantic Model Optimizations
- ✓ Report Optimizations
- ✓ Dashboard Optimizations

Ch 12: Power BI Cloud - 3
- ✓ Power BI Apps, Shares
- ✓ App Sections & Options
- ✓ App Updates, Security
- ✓ Excel Analytics
- ✓ Data Explorer Options
- ✓ Sharing, Subscriptions
- ✓ Alerts, Metrics, Insights

Ch 13: Report Server & DAX
- ✓ Power BI Report Server
- ✓ Report Database, TempDB
- ✓ Web Service & Server URL
- ✓ Paginated Reports (RDL)
- ✓ Report Builder Tool Usage
- ✓ DAX : Purpose, Realtime Use

Ch 14: DAX Level 2
- ✓ DAX Measures Creation, Use
- ✓ DAX Functions: IIF, ISBLANK
- ✓ SUM, CALCULATE Functions
- ✓ DAX Cheat Sheet : Examples
- ✓ Quick Measures in Power BI
- ✓ Running Totals, Filters

Ch 15: DAX Level 3
- ✓ Star Rating Calculations
- ✓ Data Models & DAX
- ✓ Star & Snowflake Schemas
- ✓ Dimensions, Fact Tables
- ✓ DAX Expressions & Joins
- ✓ DAX Variables, Usage

Ch 16: DAX Level 4
- ✓ Dynamic Report with DAX
- ✓ SELECTED MEMEBER
- ✓ Time Intelligence with DAX
- ✓ PARALLELPERIOD, DATE
- ✓ DAX with Big Data
- ✓ Big Data Analytics

Ch 17: AI Fundamentals & Data
- ✓ AI Fundamentals
- ✓ AI Implementation Concepts
- ✓ AI Nomenclature in Cloud
- ✓ AI with Azure
- ✓ AI with Power BI
- ✓ AI with Databases

Ch 18: Microsoft CoPilot (AI)
- ✓ Implementing AI in Cloud
- ✓ Co-Pilot Concepts in BigData
- ✓ AI with Power BI Desktop
- ✓ AI with Power BI Cloud
- ✓ AI with Power BI DAX
- ✓ Big Data Analytics with AI

This course also includes:
- ✓ **Realtime Project**
- ✓ **Certification Guidance**
- ✓ **Mock Interviews**
- ✓ **Resume Guidance**

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