

# SNOWFLAKE

• Real-Time Working • Detailed Subject • Interview Suitable

-  Mr.Prasad [12+ years of IT ]
-  45-50 hours, Daily 1 hour, Daily 1 hour
-  Normal / Fast Track / 1 on 1 / Customized
-  (Normal track) 16,000/-
-  Multiple timings available



## INSTITUTE PROVIDES

- \* Two Near Real Time Projects
- \* In-Depth Theory & Practical Material
- \* Complete Practical Oriented Training
- \* Mock Interviews
- \* Case Studies / User Stories / Sprints
- \* Daily Live Class Videos
- \* FAQ Tests in Whatsapp
- \* Resume Preparation Sessions

## Why Learn Snowflake?

- \* High demand for cloud data warehousing professionals
- \* Used by top global companies across industries
- \* Scalable, secure, and high-performance platform
- \* Excellent career growth and salary potential



### Phase 1: Fundamentals (Days 1–5)

- ▶ Data Warehouse Basics – OLTP vs OLAP, DW Characteristics, Data Lake vs DW
- ▶ Dimensional Modeling – Star Schema, Snowflake Schema, Fact & Dimension Tables
- ▶ ETL vs ELT – Modern ELT approach & Why ELT in Snowflake
- ▶ Introduction to Snowflake – Overview & Cloud Support (AWS, Azure, GCP)
- ▶ Snowflake Editions & Account Setup – Standard, Enterprise, Business Critical, Snowsight

### Phase 2: Architecture & Warehouses (Days 6–10)

- ▶ Snowflake Architecture – Shared Disk vs Shared Nothing, Multi-cluster architecture
- ▶ Storage, Compute & Services Layers – Metadata & separation of compute
- ▶ Virtual Warehouses – Creation, sizes, slots
- ▶ Scaling & Multi-cluster Warehouses – Auto-scale, policies
- ▶ Cost Optimization – Compute cost & best practices

### Phase 3: SQL Programming (Days 11–17)

- ▶ SQL Basics – DDL, DML, Filtering & Sorting
- ▶ Joins & Aggregations – GROUP BY, HAVING, Joins
- ▶ Set Operators & Subqueries
- ▶ Window Functions – ROW\_NUMBER, RANK, DENSE\_RANK
- ▶ MERGE & QUALIFY – Upsert scenarios
- ▶ Stored Procedures & UDFs – Basics
- ▶ SQL Case Studies & Query Tuning

### Phase 4: Core Snowflake Features (Days 18–24)

- ▶ Database Objects – Permanent, Transient, Temporary Tables
- ▶ Views – Regular, Secure, Materialized
- ▶ External Tables & Stages
- ▶ File Formats – CSV, JSON, Parquet
- ▶ Data Loading – COPY command & best practices
- ▶ Semi-Structured Data – VARIANT & JSON Flattening
- ▶ Continuous Loading – Snowpipe

### Phase 5: Advanced Snowflake (Days 25–31)

- ▶ Streams – CDC & Change Tracking
- ▶ Tasks – Scheduling & Automation
- ▶ SCD Implementation – Type 1 & Type 2
- ▶ Performance Optimization – Caching, Micro-partitions, Clustering
- ▶ Time Travel & Fail-safe
- ▶ Zero Copy Cloning
- ▶ Security & Governance – RBAC, Roles, Secure Sharing

## Phase 6: Data Pipelines (Days 32–34)

- ▶ ETL / ELT Pipelines – Incremental & Historical loads
- ▶ Error Handling & Monitoring
- ▶ Real-time Pipelines – Streams, Tasks & Snowpipe

## Phase 7: Python & Snowpark (Days 35–37)

- ▶ Python Basics – Pandas & Jupyter
- ▶ Python + Snowflake – Connector & Query Execution
- ▶ Snowpark – DataFrames, UDFs, Stored Procedures

## Phase 8: AWS & Migration (Days 38–41)

- ▶ AWS Integration – S3 Connectivity & External Stages
- ▶ Snowpipe with S3 – Event Notifications
- ▶ Migration to Snowflake – RDBMS & Hadoop
- ▶ Migration Frameworks & Best Practices

## Phase 9: DBT (Days 42–45)

- ▶ DBT Fundamentals – Project Structure, Sources, Seeds
- ▶ DBT Models & Tests – Incremental models
- ▶ DBT Snapshots, Macros & Hooks

## Phase 10: Project & Interviews (Day 46-50)

- ▶ Capstone Project – Snowflake + DBT + AWS + Snowpark
- ▶ Real-time Pipeline Implementation
- ▶ Resume Preparation & Mock Interviews



# A Big Thank you

## DABI

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