

TRAINING HIGHLIGHTS

- ✓ Industry Expert Trainers
- ✓ Hands-on Real Time Projects
- ✓ Job Oriented Curriculum
- ✓ End to End Learning Approach
- ✓ Certification of Completion
- ✓ Dedicated Doubt Support
- ✓ Flexible Batch Timings
- ✓ Interview Preparation Support



Learn. Build. Deploy.
Become a Data Professional
with SQL School!



- EXPERT TRAINERS**
Learn from Industry Professionals
- FLEXIBLE BATCH TIMINGS**
Weekday & Weekend Batches
- CERTIFICATION**
Get Certified & Boost Your Career
- JOB ORIENTED TRAINING**
Skills that Get You Hired
- DEDICATED SUPPORT**
24/7 Doubt Resolution Support
- REAL TIME PROJECTS**
Work on Industry Level Projects

PRACTICAL TRAINING Gain Hands-on Experience | **REAL TIME PROJECTS** Build. Practice. Master. | **CAREER GROWTH** Learn Today, Lead Tomorrow | **JOIN SQL SCHOOL AND TAKE THE NEXT STEP IN YOUR DATA CAREER!**

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.

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 .. !

Who can join this course?

- ✓ Analysts
- ✓ Developers
- ✓ Administrators
- ✓ IT Professionals
- ✓ Students, any one!

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SNOWFLAKE TRAINING PLAN A



MODULE 1
Snowflake



MODULE 2
DBT (Data Build Tool)



MODULE 3
Realtime Project (ONE)

DURATION: 1.5 MONTHS

SNOWFLAKE TRAINING PLAN B



MODULE 1
Snowflake



MODULE 2
DBT (Data Build Tool)



MODULE 3
Cortex AI



MODULE 4
Realtime Projects (TWO)

DURATION: 2 MONTHS



Learn. Build. Deploy.
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PRACTICAL TRAINING

REAL TIME PROJECTS

CAREER GROWTH

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What kind of Realtime Projects we teach in this course?

Our Snowflake Training with DBT (and Cortext AI) is 100% Hands-On. Truly recommended for everyone who wanted to master Snowflake with End to End Implementations, Realtime Projects.

TWO REAL TIME PROJECTS



Work on Industry Relevant Projects and Build Job Ready Skills

PROJECT 1



ECommerce

- ✓ Sales & Order Analytics
- ✓ Customer Analysis & Segmentation
- ✓ Product Performance Analysis
- ✓ Inventory & Supply Chain Insights
- ✓ Dashboard & Reporting

PROJECT 2



Finance / Accounting / Healthcare

- ✓ Financial Performance Analysis
- ✓ Income Statement Insights
- ✓ Cash Flow & Budget Analysis
- ✓ Healthcare Metrics & Patient Insights
- ✓ Dashboards & Business Reporting

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PRACTICAL TRAINING
Gain Hands-on Experience



REAL TIME PROJECTS
Build. Practice. Master.



CAREER GROWTH
Learn Today, Lead Tomorrow



GET CERTIFIED
Boost Your Career

JOIN SQL SCHOOL AND TAKE THE NEXT STEP IN YOUR DATA CAREER!

Module 1: 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
- ✓ Accessing, Clone
- ✓ Storage & Metadata Layer
- ✓ Real-time Considerations

Ch 11: Snowflake Procedures

- ✓ Procedures and Functions
- ✓ SQL and JavaScript & CALL
- ✓ Transactions & Injection
- ✓ 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, Dependency
- ✓ 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_tz 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, 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 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 Queues & Integrations
- ✓ 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
- ✓ Datawarehouse Access
- ✓ Server URL & Options
- ✓ Connection Parameters
- ✓ Data Analytics (Report Test)

Module 2: 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

Module 3: Real-time Project 1

- ✓ E-Commerce Domain
- ✓ Defining project requirements

- ✓ Dataset Understanding
- ✓ Initial project setup and DBT configuration
- ✓ Model planning and development
- ✓ Initial testing and validation
- ✓ Project deployment and monitoring
- ✓ Implementing advanced DBT features
- ✓ Comprehensive testing and documentation
- ✓ Real-world deployment considerations
- ✓ Solution Explanation
- ✓ Resume Points
- ✓ Interview FAQs and Answers

- ✓ **Technologies:** Snowflake | DBT | Azure/AWS

Module 4: Snowflake Cortex AI

Ch 1: Cortex AI Fundamentals

- ✓ AI Fundamentals
- ✓ Snowflake Data Engineering
- ✓ Snowflake ETL Operations
- ✓ Snowflake DWH Operations
- ✓ Need for AI Extensions

Ch 2: Cortex AI Fundamentals

- ✓ AI Fundamentals
- ✓ Snowflake Data Engineering
- ✓ Snowflake ETL Operations
- ✓ Snowflake DWH Operations
- ✓ Need for AI Extensions

Ch 3: Introduction to Cortex AI

- ✓ What is Cortex AI?
- ✓ Why Cortex AI in Snowflake?
- ✓ Benefits of AI inside Data Cloud
- ✓ Cortex AI Architecture
- ✓ AI Use Cases in Modern Organizations
- ✓ Cortex AI Components Overview
- ✓ Snowflake AI Ecosystem

Ch 4: Cortex AI Concepts

- Cortex AI Setup and Configuration
- Security & Access Management
- Required Roles and Privileges

- Understanding AI Compute Resources
- Creating Sample AI Environment
- Cost Considerations and Best Practices

Ch 5: Snowflake Cortex Functions

- Introduction to Cortex Functions
- AI-Powered SQL Queries
- Text Analysis Functions
- Language Translation Functions
- Text Summarization
- Sentiment Analysis
- Classification Functions
- Information Extraction
- Named Entity Recognition (NER)

Ch 6: Large Language Models (LLMs) in Cortex

- Understanding LLM Concepts
- Foundation Models Supported by Snowflake
- Prompt Engineering Fundamentals
- Effective Prompt Design
- Zero-shot Learning
- Few-shot Learning
- Chain-of-Thought Prompting
- AI Response Optimization

Ch 7: Cortex Complete

- Introduction to Cortex Complete
- Text Generation with SQL
- Generating Summaries
- Content Creation
- Email Generation
- Ticket Resolution Suggestions
- Business Intelligence Narratives

Ch 8: Cortex Analyst

- What is Cortex Analyst?
- Natural Language to SQL
- Conversational Analytics
- Semantic Models
- Business Question Answering
- Dashboard Integration
- AI-Powered Self-Service Analytics

Ch 9: Cortex Search Service

- Introduction to Vector Search

- **Semantic Search Concepts**
- **Search Service Architecture**
- **Creating Search Indexes**
- **Query Optimization**
- **Similarity Search**
- **Enterprise Knowledge Search**

Ch 10: Cortex Agents

- **Introduction to AI Agents**
- **Agent Architecture**
- **Multi-Step Reasoning**
- **Tool Calling**
- **Workflow Automation**
- **Building Intelligent Agents**
- **Enterprise AI Assistants**

Ch 11: Document AI

- **Introduction to Document AI**
- **OCR Processing**
- **PDF Data Extraction**
- **Invoice Processing**
- **Resume Parsing**
- **Contract Analysis**
- **Form Data Extraction**

Ch 12: Vector Embeddings & RAG

- **Understanding Embeddings**
- **Vector Databases**
- **Semantic Similarity**
- **Retrieval Augmented Generation (RAG)**
- **Building Knowledge Assistants**
- **Enterprise Chatbots**
- **Search Optimization**

Ch 13: AI Integration with Azure & AWS

- **Azure Integration**
 - **Azure OpenAI**
 - **Azure Data Factory**
 - **Azure Storage Integration**
 - **Power BI Integration**
- **AWS Integration**
 - **Amazon S3**
 - **AWS Lambda**
 - **AWS Bedrock**

- **Event-Driven AI Workflows**

Module 5: Real-time Project 2

- ✓ **Finance / Accounting / HealthCare Domain**
- ✓ **Defining project requirements**
- ✓ **Dataset Understanding**
- ✓ **Initial project setup and DBT configuration**
- ✓ **Model planning and development**
- ✓ **Initial testing and validation**
- ✓ **Project deployment and monitoring**
- ✓ **Implementing advanced DBT features**
- ✓ **Comprehensive testing and documentation**
- ✓ **Real-world deployment considerations**
- ✓ **Solution Explanation**
- ✓ **Resume Points**
- ✓ **Interview FAQs and Answers**

- ✓ **Technologies:** Snowflake | Cortex AI | DBT | Azure/AWS | Power BI

Key Features of the Course

- Data Ingestion from Azure/AWS
- DBT Data Transformation
- Sentiment Analysis using Cortex AI
- AI-Based Text Summarization
- Customer Trend Analysis
- Interactive Dashboards
- Automated Data Pipelines

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Choose your preferred Plan (Snowflake Training Plan A or B) from above. Let us know.

👉 For more details, free demo: Call/WhatsApp at +91 9666440801 / +91 9951440801

👉 📱 Whatsapp Channel: <https://bit.ly/3EN1IC3>

👉 📺 Youtube Channel: www.youtube.com/sequelschool