



ETL Admin Training with Azure, Databricks & Microsoft Fabric

Build. Monitor. Secure. Optimize. Troubleshoot.

Thank you for contacting our **SQL School**. I am **Mr. Sai Phanindra**, trainer for this **ETL Admin** Course. With 21+ Years of technical expertise exclusively on SQL & ETL, DWH Technologies, I assure you 100% Practical, Step by Step Classes for this ETL Admin course. My Profile @ <https://www.linkedin.com/in/saiphanindra/>

What is ETL Admin Job Role?

ETL Stands for **Extract, Transfer and Load**.

ETL Admins are responsible for Implementing, Managing ETL, Big Data, DWH and Cloud Computing components.

How to become an ETL Admin?

We can become an ETL Admin by Mastering enterprise ETL & Data Warehouse administration through hands-on labs and real-time projects. This detailed training is purely meant for the same purpose!

What You'll Learn

- ✓ End-to-End Database Administration Projects
- ✓ Azure SQL Database & Cloud Administration
- ✓ Performance Tuning & Troubleshooting (OLTP, DWH)
- ✓ Backup, Restore & Disaster Recovery

For Free Demo, Latest Schedules, call us on +91 9666440801 or visit www.sqlschool.com/register

- ✓ High Availability (Replication, Log Shipping, Always On)
- ✓ Database Migrations, Upgrades
- ✓ Datawarehouse Migrations, Upgrades
- ✓ Cloud ETL Migrations (Azure, Fabric)
- ✓ Realtime Issues, Solutions
- ✓ Cloud Computing Management
- ✓ Job ready Activities and Process Integration, more.. !

Training Highlights

- ✓ 100% Practical Hands-on Sessions
- ✓ Daily Assignments & Practice Exercises
- ✓ Security, Auditing & Compliance
- ✓ Mock Interviews with MNC Interview Questions
- ✓ DP-300 Certification Guidance
- ✓ Lifetime Career Support

Who Should Join?

- SQL Developers
- IT Support Professionals
- IT Professionals aspiring to become ETL Admins
- ETL / Data Platform Administration
- Working professionals looking to transition into Cloud Database Administration

Course details of this ETL Admin Training?

- **Module 1: Database Concepts & Core SQL DBA**
- **Module 2: Azure SQL DBA, DP 300 Exam Guidance**
- **Module 3: Azure ETL & DWH**
 - **Part 1:** Azure Fundamentals, ADLS & IAM
 - **Part 2:** Azure ETL & DWH
 - **Part 3:** Azure ETL Admin, DWH Admin
- **Module 4: Real-Time Projects for Resume**

Duration: 3.5 Months

Career Opportunities

After completing this course, you can apply for roles such as:

- ETL Admin
- Cloud Computing Admin
- SQL Database Administrator
- Azure SQL DBA
- Production DBA
- Cloud Admin

Training Modes: LIVE Online Training, Self-Paced Videos. Choose any one.

This course is very helpful for:

1. Database Admin
2. System Engineers
3. Data Engineers
4. Database Consultants
5. Project Managers (Technical)

This course includes

1. Concept wise Hands-On Labs
2. Detailed Notes
3. Interview FAQs
4. Resume Guidance
5. Certification Guidance
6. Job Assistance

 **Trainer:** [linkedin.com/in/saiphanindra/](https://www.linkedin.com/in/saiphanindra/)

Upskill Your Career With

ETL ADMIN



SQL DBA



Azure DBA



ETL, DWH



ETL Admin

✓ 4-Month Comprehensive Course

✓ Suitable for Experienced Profiles

✓ Step by Step

✓ Realtime Project

✓ Scenario Based

✓ 100% Practical

Reach Us:
+91 96666 40801
www.sqlschool.com



Trainer: Mr. Sai Phanindra
19+ Years of Exp.

Detailed Course Content

Module 1: Database Concepts & Core SQL DBA

Ch 1: SQL Database Job Roles

- ✓ Introduction to Databases
- ✓ DBA Job Roles
- ✓ Routine DBA Activities
- ✓ Emergency DBA Activities
- ✓ ETL Admin Job Scope, Job Growth

Ch 2: Database Intro & Installations

- ✓ SQL Server Installations
- ✓ Instance & Collations
- ✓ SSMS Tool Installation
- ✓ Connections, Authentications

Ch 3: SQL Basics V1 (Commands)

- ✓ SQL Basics (DDL, DML, etc..)
- ✓ Creating Databases, Tables
- ✓ Data Inserts (GUI, SQL)
- ✓ Basic SELECT Queries

Ch 4: SQL Basics V2 (Commands, Operators)

- ✓ DDL: Create, Alter, Drop

For Free Demo, Latest Schedules, call us on +91 9666440801 or visit www.sqlschool.com/register

- ✓ DML: Insert, Update, Delete
- ✓ DQL: Select, Fetch
- ✓ Add, Truncate Statements
- ✓ SQL Operators

Ch 5: Data Types

- ✓ Integer Data Types
- ✓ Character, MAX Data Types
- ✓ Decimal & Boolean Data Types
- ✓ Date and Time Data Types
- ✓ SQL_Variant Type

Ch 6: Data Imports

- ✓ Data Imports with Excel
- ✓ Data Imports with CSV
- ✓ Auto Detection of Data Types
- ✓ OLE-DB Connections
- ✓ Order By, TOP, OFFSET

Ch 7: Schemas & Batches

- ✓ Schemas & Table Grouping
- ✓ Real-world Banking Database
- ✓ 2 Part, 3 Part & 4 Part Naming
- ✓ Batch Concept & “Go” Command

Ch 8: Constraints, Keys & RDBMS

- ✓ Null, Not Null Constraints
- ✓ Unique Key & Check
- ✓ Primary Key Constraint
- ✓ Foreign Keys, Default
- ✓ DB Diagrams & ER Models

Ch 9: Joins & Queries

- ✓ Joins: Table Comparisons
- ✓ Inner Joins & Matching Data
- ✓ Outer Joins: LEFT, RIGHT
- ✓ Full Outer Joins & Aliases
- ✓ Self Joins & Aliases

Ch 10: Views & RLS

- ✓ Views: Realtime Usage
- ✓ DML, SELECT with Views
- ✓ WITH CHECK OPTION
- ✓ Row Level Security (RLS)
- ✓ Important System Views

Ch 11: Stored Procedures (Practical Overview)

- ✓ Stored Procedures: Realtime Use
- ✓ Parameters Concept with SPs
- ✓ Procedures with SELECT
- ✓ System Stored Procedures
- ✓ Stored Procedures, Tuning

Ch 12: User Defined Functions (Practical Overview)

- ✓ Functions in Real-world
- ✓ Scalar & Table Value Functions
- ✓ Parameterized Queries
- ✓ Variables & Parameters
- ✓ Function Executions

Ch 13: Triggers & Automations

- ✓ Need for Triggers in Real-world
- ✓ DDL & DML Triggers
- ✓ For / After Triggers
- ✓ Instead Of Triggers
- ✓ Disabling DMLs Triggers

Ch 14: Transactions & ACID

- ✓ Auto Commit Transaction
- ✓ Explicit Transactions
- ✓ COMMIT, ROLLBACK
- ✓ Checkpoint & Query Blocking
- ✓ READPAST, LOCKHINT

Ch 15: CTEs & Tuning

- ✓ Common Table Expression
- ✓ CTEs for Data Retrieval
- ✓ CTEs for DML Operations
- ✓ CTEs for Data Cleansing
- ✓ CTEs with Row Number

Ch 16: Linked Servers

- ✓ SQL Server Instances
- ✓ Linked Server: Creation
- ✓ Linked Server: Testing
- ✓ Scripting Linked Servers
- ✓ Realtime Usage
- ✓ Remote DB Access

Ch 17: Server Architecture

- ✓ Database Engine Components
- ✓ Parser, Compiler & Optimizer
- ✓ Protocols and Query Processing
- ✓ MDAC and CLR Components

- ✓ Parsing and Compilation
- ✓ Memory Manager & IO Managers
- ✓ SQL OS Components, MDAC

Ch 18: DB Architecture (VLDB)

- ✓ Planning Large Databases
- ✓ Primary, Secondary Data Files
- ✓ Filegroups, Spacing and Sizing
- ✓ Log File: Usage and Precautions
- ✓ Creating Tables with Filegroups
- ✓ Pages and Extents for Storage
- ✓ VLF, MiniLSN & Checkpoint

Ch 19: Backups

- ✓ Database Backups & Types
- ✓ DB, Filegroup, File Backups
- ✓ Copy Only Backups, Usage
- ✓ Partial Backups, Split Backups
- ✓ Mirror Backups, Verifications
- ✓ Checksum, ContinueOnError

Ch 20: Restores

- ✓ DB, Filegroups, File Restores
- ✓ GUI Restores: Limitations
- ✓ Restoring & Online States
- ✓ FILELISTONLY
- ✓ MOVE Options with Restores
- ✓ Standby Mode Restores
- ✓ Point-In-Time (PITR) Restores

Ch 21: Jobs, Maintenance & DB Mail

- ✓ SQL Server Agent Service
- ✓ Job Steps & Schedules
- ✓ DB Maintenance Plans
- ✓ Backup Maintenance
- ✓ Common Errors, Solutions
- ✓ SMTP, Email Profile
- ✓ Alert System : Agent Settings
- ✓ Operators, Job Notifications

Ch 22: Security Management

- ✓ Security Objects, Logins
- ✓ Users, Roles & Principals
- ✓ Schema Level Security
- ✓ Object, Column Level Security
- ✓ Security Audit, Logon Failures

- ✓ Keys & Certificates
- ✓ Encryptions & Data Security

Ch 23: DB Migrations

- ✓ Creating Credentials
- ✓ Creating SSIS Proxies
- ✓ Creating CDW Packages
- ✓ Database Detach – Attach
- ✓ SMO Migration Method
- ✓ DB Migration Schedules
- ✓ Detect, Fix Orphan Users

Ch 24: Tuning: Audits, AM Tool

- ✓ Activity Monitor Tool
- ✓ Perfmon Tool & Counters
- ✓ Query Audits: DMVs, DMFs
- ✓ Plan Handle, Execution Time
- ✓ Long Running Queries
- ✓ Query Store & Data Flush

Ch 25: Tuning: Indexes

- ✓ Indexes: Sort Locations
- ✓ Clustered & Online Indexes
- ✓ Non Clustered, Column Store
- ✓ Included Indexes in Realtime
- ✓ Covering Index & Selectivity
- ✓ Indexed Views (Materialized)

Ch 26: Tuning: Partitions

- ✓ Partitions: Performance Tuning
- ✓ Partition Functions & Schemes
- ✓ Partition Un-partitioned Tables
- ✓ Compressions: ROW, PAGE
- ✓ Partitions Limitations in OLTP
- ✓ Partitions with DWH

Ch 27: Statistics & Tuning

- ✓ Statistics: Realtime Usage
- ✓ Index & Column Statistics
- ✓ Statistics & Key Purpose
- ✓ Statistics Versus Indexes
- ✓ Stats Updates on Tables
- ✓ Stats Updates on Views

Ch 28: Index Management

- ✓ Index Management Options
- ✓ Index Rebuilds, Re-Organize
- ✓ Database Maintenance Plans

- ✓ Page Count and DOP
- ✓ Resumable & Online Indexes
- ✓ PAUSE, RESUME in Rebuilds

Ch 29: Tuning Tools

- ✓ Tuning Tools: Workload Files
- ✓ Profiler Tuning, Events
- ✓ DTA, Profiler Options
- ✓ Physical Design Structures
- ✓ PDS Recommendations
- ✓ Query Execution Cache
- ✓ Tuning Tools: Precautions

Ch 30: Execution Plans

- ✓ Execution Plan Analysis
- ✓ IO Cost and CPU Cost
- ✓ SubTree & Operator Cost
- ✓ NUMA Nodes, Processor Affinity
- ✓ Thread Count, DOP
- ✓ CTEs & Tuning

Ch 31: Lock Management

- ✓ Open Transactions in Realtime
- ✓ Open Transaction, Blocking
- ✓ LOCKS: Types & Audits
- ✓ S, X, IX, U and MD Locks
- ✓ Sch-M and Sch-S Locks
- ✓ SP_WHO2, SP_LOCK
- ✓ sysprocesses & Lock Waits

Ch 32: Isolation Levels

- ✓ Lock Hints and Isolation Levels
- ✓ Read Committed, Uncommitted
- ✓ Serializable, Repeatable Read
- ✓ Snapshot Isolation, Versioning
- ✓ Read Committed Snapshot
- ✓ sysprocesses & sp_who2
- ✓ Choosing Correct Isolation Level

Ch 33: Deadlocks, LIVE Locks

- ✓ Deadlocks in Real-world
- ✓ Profiler Tool & Deadlocks
- ✓ Lock Management: Deadlocks
- ✓ Deadlock Graphs & Events
- ✓ Deadlock Avoidance, Prevention
- ✓ Deadlock Prevention
- ✓ sysprocesses & sp_who2

Ch 34: Recovery Models

- ✓ Recovery Models
- ✓ Database Properties
- ✓ Full Recovery Model
- ✓ Simple & Bulk Logged
- ✓ Realtime Uses
- ✓ Backups Versus Recovery Models

Ch 35: HA DR @ Replication - 1

- ✓ Replication : Realtime Usage
- ✓ Distributor Configurations
- ✓ Publisher and Subscriber
- ✓ Replication Types: Snapshot
- ✓ Transactional Replication
- ✓ Log Reader Agent & Usage
- ✓ Replication Monitor, Alerts

Ch 36: HA DR @ Replication - 2

- ✓ Merge Replication & Usage
- ✓ Peer – Peer Replication
- ✓ Push & Pull Subscriptions
- ✓ Conflict Detection, Avoidance
- ✓ Scripting Replication Agents
- ✓ Limitations with Replication
- ✓ Common Errors, Solutions

Ch 37: HA DR @ Log Shipping

- ✓ Log Shipping Configurations
- ✓ Primary, Secondary Servers
- ✓ Working with Network Shares
- ✓ Jobs: Backup, Copy, Restore
- ✓ NORECOVERY, STANDBY
- ✓ Manual Failover Process
- ✓ Common Errors, Solutions

Ch 38: HA DR @ DB Mirroring

- ✓ Database Mirroring Concepts
- ✓ Configuring Principal, Mirror
- ✓ Configure Witness, EndPoint
- ✓ Synchronous, Asynchronous
- ✓ Automated Failover Process
- ✓ Manual Failover, Monitoring
- ✓ Common Errors, Solutions

Ch 39: DB Health Checks, Repairs

- ✓ DBCC Commands in Realtime
- ✓ DBCC for Audits, Repairs

- ✓ MSDB Suspect Pages
- ✓ User Database Repairs
- ✓ Single User Mode
- ✓ Emergency Mode
- ✓ Recovery & Restoring Modes

Ch 40: Issues & Solutions

- ✓ Log Space Issues, Solutions
- ✓ TempDB Issues, Solutions
- ✓ Memory Issues, Solutions
- ✓ Health Check Strategies
- ✓ Healthy Backups
- ✓ Maintenance Plans
- ✓ Database States

Ch 41: Updates & Upgrades

- ✓ Updates Process
- ✓ RTM, SP, CU (Cumulative Updates)
- ✓ Upgrades Process (In-Place)
- ✓ Cautions & Maintenance
- ✓ Rollbacks

Ch 42: System DB Rebuilds, DAC

- ✓ Command Line Installations
- ✓ System DB Rebuilds
- ✓ Server Down Issues
- ✓ Service Startup Issues
- ✓ DAC: Dedicated Admin Console
- ✓ Login Failure Issues
- ✓ SQL CMD : Secondary Logins

Ch 43: AI for SQL DBA, SLA & OLA Process

- ✓ AI Extensions
- ✓ AI Optimizations
- ✓ SLA – OLA Process
- ✓ Ticketing Tools
- ✓ 3rd Party Tools
- ✓ Common Errors & Solutions

Ch 44: SQL DBA Project – Phase 1 (Enterprise SQL Server Database Administration)

- ✓ Routine DBA Activities
- ✓ Emergency DBA Activities
- ✓ Maintenance DBA Activities
- ✓ Auditing Techniques
- ✓ RCA (Root Cause Analysis)

Ch 45: SQL DBA Project – Phase 2 (Enterprise SQL Server Database Administration)

- ✓ Login Failure Errors
- ✓ Slow Database Issues
- ✓ Network Errors
- ✓ Security Strategies
- ✓ HA DR Strategies
- ✓ Common Error Codes
- ✓ Need for Azure Cloud

Module 2: Azure SQL DBA

Ch 46: Cloud Basics, Azure Funda

- ✓ Cloud Fundamentals
- ✓ Cloud Concepts, Benefits
- ✓ IaaS, PaaS, SaaS Cloud Types
- ✓ Azure Cloud Concepts
- ✓ Azure Resources & Usage
- ✓ Azure Services & Purpose
- ✓ Azure Account & Subscription

Ch 47: Azure SQL Deployments

- ✓ Azure SQL Services
- ✓ Azure SQL Server Creation
- ✓ Azure SQL Databases
- ✓ Azure Firewall : Rules
- ✓ Test Connections from SSMS
- ✓ SSMS Tool : Test Connections
- ✓ ADS Tool : Installation, use

Ch 48: Azure SQL DB Licensing

- ✓ Azure SQL DB Licensing
- ✓ Per Database Licensing
- ✓ DTUs: Basic, Standard Types
- ✓ VPU and Plan Types
- ✓ DTU Versus VPU Licensing

Ch 49: Elastic Pools

- ✓ Creating Elastic Pools
- ✓ Elastic DTUs (eDTU) Usage
- ✓ Elastic Query Processing
- ✓ Per Database Allocations
- ✓ Realtime Use
- ✓ Cost Optimizations

Ch 50: Azure Storage Account

- ✓ Azure Storage Account
- ✓ Azure Data Lake Storage Account
- ✓ Hierarchical Name Space (HNS)

- ✓ Storage Containers
- ✓ File Uploads

Ch 51: Azure SQL DB Migrations

- ✓ SQL DB Migration Options
- ✓ Data Migration Assistant: DMA
- ✓ DMA Tool, Migration Options
- ✓ On-Premises DB Export
- ✓ Azure SQL Database Import

Ch 52: Azure SQL DB Tuning - 1

- ✓ Server Level Tuning
- ✓ Database Level Tuning
- ✓ Built-In Intelligence
- ✓ Index Options
- ✓ Index Hints

Ch 53: Azure SQL DB Tuning - 2

- ✓ Using Azure AI
- ✓ AI Search Service
- ✓ AI Indexes, Practical Use
- ✓ Watermark Columns
- ✓ Index Refresh Options

Ch 54: Azure SQL DB Metrics

- ✓ Azure SQL DB Metrics
- ✓ CPU, Memory, Log Metrics
- ✓ Data File Metrics, Alerts
- ✓ Action Groups & Emails
- ✓ Query Recommendations

Ch 55: Azure SQL DB Backups

- ✓ Azure SQL DB Backups
- ✓ Backup Retention Options
- ✓ LTR Backups, Log Backups
- ✓ Automated Backups
- ✓ Backup Configurations
- ✓ Backup History

Ch 56: Azure SQL DB Restores

- ✓ Azure SQL DB Restores
- ✓ LTR Restores
- ✓ PITR Restores
- ✓ Server Level Restores
- ✓ Database Level Restores

Ch 57: HA DR @ Replication

- ✓ Azure HA DR Mechanisms
- ✓ Geo Replication
- ✓ Primary & Secondary
- ✓ Manual Failover
- ✓ Automated Failover
- ✓ DMVs For Replication
- ✓ Testing Read Only Databases

Ch 58: HA DR @ Server Failover

- ✓ Multi Database Replication
- ✓ Configure Server HADR
- ✓ Adding Replica Databases
- ✓ Replica DB: Capacity
- ✓ Replica DB: Status
- ✓ Automated Failover

Ch 59: Azure Security - 1

- ✓ Azure SQL Server Security
- ✓ Creating Logins & Users
- ✓ Grant, With Grant
- ✓ Database Roles & Security
- ✓ Schema Level Security

Ch 60: Azure Security - 2

- ✓ Row Level Security (RLS)
- ✓ Predicate Function
- ✓ Dynamic RLS
- ✓ Security Functions
- ✓ Dynamic Data Masking
- ✓ Email and Phone Number Masking

Ch 61: Azure Security - 3

- ✓ Azure AD Users
- ✓ AD Principals
- ✓ Creating AD Users
- ✓ IAM Concepts
- ✓ Implementing RBAC
- ✓ MFA Authentication

Ch 62: Azure Virtual Machines

- ✓ Azure IaaS Implementation
- ✓ Configure Disk, Network
- ✓ Configure SQL Security
- ✓ CPU, Processor & IO
- ✓ IP & RDP Connections
- ✓ Testing SSMS Connections
- ✓ Migrating SQL 2025 to VM

Ch 63: Azure VM Clusters

- ✓ Azure Active Directory
- ✓ Azure AD DS Services
- ✓ Azure Networking Options

- ✓ Availability Groups, Usage
- ✓ Listeners and Realtime Use
- ✓ FSW: File Share Witness

Ch 64: SQL Server Clusters

- ✓ Creating SQL Clusters
- ✓ Cluster Nodes
- ✓ Master Node
- ✓ Cluster Components
- ✓ Testing SQL Clusters

Ch 65: Always-On

- ✓ Configure Always-On
- ✓ Testing, Using Always-On
- ✓ AOAG Implementation
- ✓ AOAG Monitoring
- ✓ Comparing Paas & IaaS

Ch 66: PowerShell

- ✓ Azure PowerShell
- ✓ Az and get Commands
- ✓ Creating Resources
- ✓ Lists & Validations
- ✓ Password Resets
- ✓ Firewall Config
- ✓ Resource Cleanups

Ch 67: Azure Managed Instance

- ✓ Azure MI Implementation
- ✓ Network Entities for MI
- ✓ Cloud Azure MI Access
- ✓ Azure MI Implementation
- ✓ Azure MI Migrations

Ch 68: Real-Time Project (Enterprise SQL Server DBA in Cloud) - Phase 1

- ✓ Azure Cloud Migrations
- ✓ Azure Cloud Management
- ✓ Troubleshooting
- ✓ Routine SQL DBA Activities

Ch 69: Real-Time Project (Enterprise SQL Server DBA in Cloud) - Phase 2

- ✓ Maintenance DBA Activities
- ✓ Performance Tuning
- ✓ Azure Cloud (IaaS) Clusters
- ✓ Always-On

Ch 70: BONUS MODULE

- ✓ DP 300 Exam Guidance

- ✓ Resume & Mock Interviews

Module 3: Azure ETL & DWH

Part 1: Azure Fundamentals, ADLS & IAM

Ch 1: Azure Fundamentals

- ✓ Cloud Introduction, Azure
- ✓ Cloud Implementations
- ✓ Azure Account, Subscription
- ✓ Azure ETL & DWH Resources
- ✓ Azure Storage, IoT Resources

Ch 2: Azure Storage & ADLS

- ✓ Azure Storage Account
- ✓ Azure Data Lake Storage
- ✓ Azure BLOB Containers
- ✓ Blob File Uploads
- ✓ Azure Tables

Ch 3: Azure Storage Security

- ✓ Microsoft Entra ID
- ✓ RBAC, IAM
- ✓ Access Keys, SAS Keys
- ✓ ACL (Access Control List)
- ✓ Connection Strings

Ch 4: Azure Stream Analytics

- ✓ Azure IoT Hubs
- ✓ Azure Stream Analytics
- ✓ LIVE Data Ingestions
- ✓ SAQL Queries
- ✓ Stream Analytics Jobs
- ✓ Handling JSON Data

Ch 5: Azure Key Vaults

- ✓ Azure Key Vaults
- ✓ Azure Keys & Secrets
- ✓ Access Policies
- ✓ Secret Management
- ✓ Managed Identity

Ch 6: Azure Logic Apps

- ✓ Azure Logic Apps
- ✓ Logic Apps & Automations
- ✓ Azure Events
- ✓ Azure Triggers & Signals
- ✓ ADLS with Logic Apps

Part 2: Azure Data Factory & Synapse

Ch 1: Azure Fundamentals

- ✓ Cloud Introduction, Azure
- ✓ Cloud Implementations
- ✓ Azure Account, Subscription
- ✓ Azure ETL & DWH Resources
- ✓ Azure Storage, IoT Resources

Ch 2: Azure Deployments, Azure SQL

- ✓ Azure SQL Server Deployment
- ✓ Azure SQL DB Deployment
- ✓ Azure SQL Database (OLTP)
- ✓ Azure Firewall Rules
- ✓ Connections from SSMS Tool

Ch 3: Azure SQL DB Migrations

- ✓ Azure Storage Account
- ✓ On-Premise SQL DB, bacpac
- ✓ Azure SQL DB Migration
- ✓ SQL Server Imports from BLOB
- ✓ Migration Verifications

Ch 4: Azure Synapse (DWH)

- ✓ Synapse Pool Architecture
- ✓ Control Node, Compute Node
- ✓ DMS (Data Movement Service)
- ✓ Azure DWH Tables: Partitions
- ✓ Distributions & MAXDOP

Ch 5: Azure Data Factory (ADF)

- ✓ Need for ADF & Pipelines
- ✓ Data Orchestration with IR
- ✓ Integration Runtime Engine
- ✓ Linked Services, Datasets
- ✓ Pipelines: Copy Data Activity
- ✓ Data Flow Activity with IR

Ch 6: Azure SQL DB Loads

- ✓ ADF: Author, Azure SQL DB Reads
- ✓ Azure SQL Pool Writes
- ✓ Synapse Analytics with IR
- ✓ Pipeline Design, Validation
- ✓ Pipeline Runs, Monitoring

Ch 7: Azure Blob Data Loads

- ✓ ADF Author & Pipeline Runs
- ✓ Azure BLOB Storage Access
- ✓ Storage Containers in ADF

- ✓ Pipeline Validation, Schedules

Ch 8: File Incremental Loads

- ✓ File Incremental Loads
- ✓ Storage Account, Data Lake
- ✓ Binary Copy, Schema Drift
- ✓ Staging Concept in ADF
- ✓ Initial, Incremental Loads
- ✓ Schema & Data Changes

Ch 9: Table Incremental Loads

- ✓ Implement SCD with ADF
- ✓ Self Hosted IR: Realtime Use
- ✓ On-premise Data: Incr Loads
- ✓ Copy Method: Upsert, Keys
- ✓ Staging & ADF Optimizations
- ✓ Pipeline Logging

Ch 10: ADF Data Flow - 1

- ✓ Creating Data Flow Items
- ✓ Using Multiple Sinks
- ✓ Conditional Split Transformation
- ✓ Select, Sort, Union, Loops
- ✓ ADF Debug Options

Ch 11: ADF Data Flow - 2

- ✓ Working with Multiple Tables
- ✓ Join Transform, Broadcast
- ✓ Surrogate Keys, Derived Cols
- ✓ ETL Loads Dates, Sink Options
- ✓ Aggregated Data Loads

Ch 12: ADF Data Flow - 3

- ✓ Pivot Transformation
- ✓ Group By & Pivot Keys
- ✓ Column Pattern, Deduplicate
- ✓ Lookup, Cached Lookup
- ✓ Tuning Transformations
- ✓ Tuning Data Flow, Spark

Ch 13: ADF Data Flow - 4

- ✓ Get Metadata
- ✓ IF & Lookup Transformation
- ✓ Cache Lookup
- ✓ Data Validations
- ✓ Lookup Versus Joins

Ch 14: ADF Optimizations

- ✓ Synapse SQL Pool Partitions
- ✓ ADF Partitions
- ✓ Broadcast Options
- ✓ Staging, Logging
- ✓ DIU, DOCP

Ch 15: ADF Parameters, Security

- ✓ Linked Service Parameters
- ✓ Creating Logins & Users
- ✓ Schemas, ETL Permissions
- ✓ Logins Parameters in ADF
- ✓ Dynamic Linked Services

Ch 16: SCD & ETL with Control Tables

- ✓ Incremental Loads (SCD)
- ✓ Control Tables, Watermarks
- ✓ Lookup Activity, Delta Queries
- ✓ SP Activity & Parameters
- ✓ Pipeline Parameters, SPs

Ch 17: ADF Metrics, Alerts

- ✓ Azure Insights
- ✓ Azure Metrics for ADF
- ✓ Azure Metrics for Synapse
- ✓ Alerts and Notifications
- ✓ Action Groups, Tuning Options

Ch 18: Synapse Analytics

- ✓ Azure Synapse Analytics
- ✓ Synapse Deployments
- ✓ Synapse Configurations
- ✓ ADLS Containers
- ✓ Workspace Server Setup
- ✓ Synapse Studio (GUI)

Ch 19: Synapse: Dedicated SQL Pools

- ✓ Creating Dedicated SQL Pools
- ✓ BLOB Data Imports
- ✓ TSQL Queries, Data Imports
- ✓ Big Data Analytics

Ch 20: Synapse: Serverless Pools

- ✓ Serverless Pools, TSQL
- ✓ Serverless Architecture
- ✓ OPENROWSET Operations
- ✓ BULK Copy Scripts
- ✓ Big Data Analytics

Ch 21: ADF with DevOps & CI/CD

- ✓ Git repositories and branching
- ✓ ADF Git integration
- ✓ Development / Test / Production environments
- ✓ Parameterized deployments
- ✓ Production release workflow

Ch 22: Azure Databricks

- ✓ Azure Databricks Deployments
- ✓ Azure Databricks Regions
- ✓ Classic Deployments
- ✓ Access connector for Databricks

Ch 23: Azure Databricks with ADLS

- ✓ Creating IAM Users
- ✓ ADLS Security for Databricks
- ✓ Creating Service Principals
- ✓ Enterprise Applications
- ✓ Client ID, Secret ID
- ✓ External Tables (Delta)

Ch 24: Azure Databricks with ADF

- ✓ Azure Databricks Connections in ADF
- ✓ Calling Notebooks in ADF
- ✓ ADF Versus Databricks
- ✓ ADF With Databricks
- ✓ End to End ETL Strategies

Ch 25: Fabric Concepts

- ✓ Fabric Architecture
- ✓ OneLake
- ✓ Lakehouse
- ✓ Warehouse
- ✓ Data Factory
- ✓ Fabric Pipelines
- ✓ Dataflow Gen2

Ch 26: Fabric Migrations

- ✓ Azure → Fabric migration scenarios
- ✓ ADF → Fabric Data Factory
- ✓ Synapse → Fabric
- ✓ ADLS → OneLake

Part 3: Azure ETL & DWH Admin

Ch 1: Azure DWH Backups

- ✓ Azure DWH Backups
- ✓ Backup Policies
- ✓ Backup Retention

- ✓ Backup Configurations
- ✓ Azure OLTP Versus DWH Backups

Ch 2: Azure DWH Restores

- ✓ Azure DWH Restores
- ✓ Point In Time Restores (PITR)
- ✓ Azure OLTP Versus DWH Restores

Ch 3: Azure DWH Replication

- ✓ Azure DWH Replication Options
- ✓ Replication Settings & Process
- ✓ Testing Replication in Azure DWH

Ch 4: Azure DWH Security - 1

- ✓ Azure SQL Server Logins
- ✓ Azure SQL Pool Users
- ✓ Logins, Permissions
- ✓ Users, Permissions
- ✓ Roles & Schemas
- ✓ GRANT, WITH GRANT

Ch 5: Azure DWH Security - 2

- ✓ Azure AD (Microsoft Entra)
- ✓ IAM and RBAC
- ✓ Azure Defender
- ✓ TDE & Data Encryptions

Ch 6: Azure DWH Management

- ✓ Azure Synapse Partitions
- ✓ Distributions
- ✓ Performance Tuning
- ✓ Big Data Issues, Solutions

Ch 7: Data Governance

- ✓ Azure Data Governance Concepts
- ✓ Data Governance Rules
- ✓ Data Governance Scenarios
- ✓ Data Security & Management

Module 4: Real-Time Project for Engineering, ETL Admin

Environment: Online Travel Data Engineering Platform

Project Objective:

Build an end-to-end Azure ETL Solution to process, transform, and analyze Online Travel business data from multiple sources.

Skills Gained:

- ✓ Data Ingestion & ETL Development
- ✓ Azure Data Factory Pipelines

- ✓ Data Lake Architecture, RBAC
- ✓ Azure IoT, Stream Analytics
- ✓ Azure ETL Admin
- ✓ Azure ETL Backups, Restores
- ✓ Azure ETL Security

Components For Project

- ✓ ADF Pipelines
- ✓ Pipeline Logging
- ✓ Pipeline Management
- ✓ Synapse Analytics
- ✓ Apache Spark Schemas
- ✓ Monitoring & Alerts
- ✓ End to End Integrations
- ✓ IAM & Managed Identity
- ✓ Key Vaults & Security

Resume Highlights

After completing this module, you can confidently showcase experience in:

- Azure OLTP Management
- Azure DWH Management
- Azure ETL Management
- Azure to Fabric Migrations
- Data Quality & Validation
- Performance Optimizations

SQL SCHOOL
Learn SQL. Build Your Future.

Thank You!
FOR JOINING OUR
ETL ADMIN
★ TRAINING ★

We appreciate your trust in SQL School.
We're excited to be a part of your learning journey
and help you build a **successful career in Data!**

BUILD. INTEGRATE. OPTIMIZE. DELIVER.
Master End-to-End **ETL Workflows** and **Data Solutions.**

- MSSQL**
Powerful Database Management
- AZURE ETL**
Scalable & Automated Data Integration
- AZURE DWH**
Modern Data Warehouse for Analytics
- OPTIMIZATIONS**
Performance Tuning & Best Practices
- BIG DATA**
Process & Analyze Huge Volumes of Data
- SQL DBA**
Administration, Security & High Availability
- AZURE**
Cloud-Powered Solutions for the Future

Expert-Led Training | Real-Time Projects | Industry Best Practices | Career Support & Guidance

Reach us for **FREE DEMO** | Visit Our Website **www.sqlschool.com** | *Let's stay connected!*

KEEP LEARNING. KEEP GROWING.
WE'RE WITH YOU
EVERY STEP OF THE WAY!

Reach us today for Free Demo: +91 9951440801 (Call / WhatsApp)

Course Details: <https://sqlschool.com/etl-admin-training/>

For Free Demo, Latest Schedules, call us on +91 9666440801 or visit www.sqlschool.com/register