



## ETL Admin Training

Hi !

Thank you for contacting our **SQL School**. I am **Mr. Sai Phanindra**, trainer for this **ETL Admin** Course. With 19+ Years of technical expertise exclusively on SQL & Database Technologies, I assure you 100% Practical, Step by Step Classes for this DBA course.

My Profile @ <https://www.linkedin.com/in/saiphanindra/>

### What is ETL Admin Job Role?

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

It refers to Data Extraction from various sources of data (Apps, Files, Databases, Forms, IoT Devices, etc.), Transformation or data mashup operations and Big Data Loads.

### What does our ETL Admin Training course contain?

#### ETL Admin Training:

- Module 1: SQL & MSSQL
- Module 2: Core SQL DBA
- Module 3: Azure SQL DBA
- Module 4: Azure ETL, DWH Admin
- Module 5: Real-time Projects

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

#### This course is very helpful for:

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

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:  
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[www.sqlschool.com](http://www.sqlschool.com)

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

For Free Demo, Latest Schedules, call us on +91 9666440801 or visit [www.sqlschool.com/register](http://www.sqlschool.com/register)

## Who can join this course?

Any one can join this course. Preferably for folks who wanted to show some technical expertise in their resume..

## What are the details of this ETL Admin Course?

👉 🧠 **Module 1: Database, SQL Server Concepts**

👉 🧠 **Module 2: Core SQL DBA**

👉 🧠 **Module 3: Azure SQL DBA, CoPilot**

👉 🧠 **Module 4: Azure ETL & DWH**

👉 🧠 **Module 5: Real-time Projects**

👉 🧠 **Duration: 3 Months**

👉 🧠 **Two Realtime Projects**

## 👤 Detailed Course Content 👤

*This detailed content with 100% Hands-On, Daily Assignments make you 100% Job ready !*

### Module 1: Database Concepts, SQL Server Basics

#### Ch 1: SQL Database Job Roles

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

#### Ch 2: Database Intro & Installations

- ✓ Database Intro & Types (OLTP, DWH, ..)
- ✓ DBMS Concepts
- ✓ SQL Server 2025 Installations
- ✓ SSMS Tool Installation
- ✓ Server Connections, Authentications
- ✓ Installation Issues, Solutions

#### Ch 3: SQL Basics

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

#### **Ch 4: SQL Basics V2 (Commands, Operators)**

- ✓ DDL: Create, Alter, Drop, Add, modify, etc..
- ✓ DML: Insert, Update, Delete, select into, etc..
- ✓ DQL: Fetch, Insert... Select, etc..
- ✓ SQL Operations: LIKE, BETWEEN, IN, etc..
- ✓ Special Operators

#### **Ch 5: Data Types**

- ✓ Integer Data Types
- ✓ Character, MAX Data Types
- ✓ Decimal & Money Data Types
- ✓ Boolean & Binary Data Types
- ✓ Date and Time Data Types
- ✓ SQL\_Variant Type, Variables

#### **Ch 6: Excel Data Imports**

- ✓ Data Imports with Excel
- ✓ SQL Native Client
- ✓ Order By: Asc, Desc
- ✓ Order By with WHERE
- ✓ TOP & OFFSET
- ✓ UNION, UNION ALL

#### **Ch 7: Schemas & Batches**

- ✓ Schemas: Creation, Usage
- ✓ 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, Primary Key Constraints
- ✓ Foreign Key & References
- ✓ Default, Check Constraints
- ✓ DB Diagrams & ER Models
- ✓ Normal Forms

#### **Ch 9: Joins & Audits**

- ✓ Joins: Table Comparisons
- ✓ Inner Joins & Matching Data
- ✓ Outer Joins: LEFT, RIGHT
- ✓ Full Outer Joins & Aliases
- ✓ Cross Join & Table Combination
- ✓ Joining more than 2 tables

#### **Ch 10: Views & RLS**

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

### **Ch 11: Stored Procedures**

- ✓ Stored Procedures: Realtime Use
- ✓ Parameters Concept with SPs
- ✓ Procedures with SELECT
- ✓ System Stored Procedures
- ✓ Metadata Access with SPs
- ✓ SP Recompilations
- ✓ Stored Procedures, Tuning

### **Ch 12: User Defined Functions**

- ✓ Using Functions in MSSQL
- ✓ Scalar Functions in Real-world
- ✓ Inline & Multiline Functions
- ✓ Parameterized Queries
- ✓ Date & Time Functions
- ✓ String Functions & Queries
- ✓ Aggregated Functions & Usage

### **Ch 13: Transactions & ACID**

- ✓ Transaction Concepts in OLTP
- ✓ Auto Commit Transaction
- ✓ Explicit Transactions
- ✓ COMMIT, ROLLBACK
- ✓ Checkpoint & Logging
- ✓ Lock Hints & Query Blocking
- ✓ READPAST, LOCKHINT

### **Ch 14: CTEs & Tuning**

- ✓ Common Table Expression
- ✓ Creating and Using CTEs
- ✓ CTEs, In-Memory Processing
- ✓ Using CTEs for DML Operations
- ✓ Using CTEs for Tuning
- ✓ CTEs: Duplicate Row Deletion

### **Ch 15: Linked Servers**

- ✓ SQL Server Instances
- ✓ Linked Server : Creation
- ✓ Linked Server : Testing
- ✓ Scripting Linked Servers

- ✓ Realtime Usage @ DBA
- ✓ Remote DB Access
- ✓ Remote Joins

## **Module 2: Core SQL DBA**

### **Ch 16: 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 17: 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 18: Backups**

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

### **Ch 19: 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 20: Jobs, Maintenance**

- ✓ SQL Server Agent Service
- ✓ Job Steps & Schedules
- ✓ MSDB: Job History
- ✓ DB Maintenance Plans
- ✓ Backup Maintenance

- ✓ Job Verifications, Scripts
- ✓ Common Errors, Solutions

### **Ch 21: DB Mail & Alerts**

- ✓ SMTP Concepts
- ✓ Creating Email Profile
- ✓ Default, Public Profiles
- ✓ Creating SMTP Accounts
- ✓ Alert System : Agent Settings
- ✓ Creating Operators
- ✓ Job Failures & 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 & Buffer Cache
- ✓ Data Flush, Stats Collection

### **Ch 25: Tuning : Indexes**

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

## **Ch 26: Tuning: Partitions**

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

## **Ch 27: Statistics & Tuning**

- ✓ Statistics: Realtime Usage
- ✓ Index & Column Statistics
- ✓ Statistics & Key Purpose
- ✓ Verifying, Using Stats
- ✓ 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 Index Conditions
- ✓ Degree Of Parallelism Settings
- ✓ 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
- ✓ Table & Index Scan, Index Seek
- ✓ Index Selectivity & 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 (Patches)**

- ✓ Planning for Updates
- ✓ Pre-Maintenance Checklist
- ✓ Edition Checks
- ✓ Updates Process

- ✓ Edition Comparisons
- ✓ History Tracking
- ✓ Updates Rollback

#### **Ch 42: Upgrades, Licensing**

- ✓ Planning for Upgrades
- ✓ Pre-Maintenance Checklist
- ✓ Upgrades Process (In-Place)
- ✓ Cautions & Maintenance
- ✓ Version Comparisons
- ✓ History Tracking
- ✓ Upgrades Rollbacks

#### **Ch 43: 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 44: SQL DBA Project**

- ✓ Routine DBA Activities
- ✓ Emergency DBA Activities
- ✓ Maintenance DBA Activities
- ✓ SLA – OLA Process
- ✓ Ticketing Tools
- ✓ 3<sup>rd</sup> Party Tools
- ✓ Common Errors & Solutions

#### **Ch 45: SQL DBA Project**

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

### **Module 3: 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
- ✓ Elastic DTUs (eDTU) Usage
- ✓ Elastic Query Processing

#### **Ch 49: Azure SQL DB Migrations**

- ✓ SQL DB Migration Options
- ✓ Data Migration Assistant: DMA
- ✓ DMA Tool, Migration Options
- ✓ On-Premises DB Export
- ✓ Azure SQL Database Import
- ✓ Azure Storage Account
- ✓ Linking SSMS with Azure

#### **Ch 50: Azure SQL DB Metrics**

- ✓ Azure SQL DB Metrics
- ✓ CPU, Memory, Log Metrics
- ✓ Data File Metrics, Alerts
- ✓ Action Groups & Emails
- ✓ Query Performance Insight
- ✓ Automated Tuning Options
- ✓ Query Recommendations

#### **Ch 51: Azure SQL DB Tuning, AI**

- ✓ Server Level Tuning
- ✓ Database Level Tuning
- ✓ Built-In Intelligence
- ✓ AI Search Service, Tuning
- ✓ AI Indexes, Practical Use

- ✓ Watermark Columns

### **Ch 52: Azure Backups, Restores**

- ✓ Azure SQL DB Backups
- ✓ Backup Retention Options
- ✓ LTR Backups, Log Backups
- ✓ Automated Backups
- ✓ LTR, PITR Restores
- ✓ Backup Versus Export
- ✓ Restore Versus Import

### **Ch 53: HA DR @ Replication**

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

### **Ch 54: HA DR @ Server Failover**

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

### **Ch 55: Azure Security**

- ✓ Logins & Users in Azure
- ✓ Grant, With Grant
- ✓ Dynamic RLS
- ✓ Dynamic Data Masking
- ✓ Creating AD Users & IAM
- ✓ Implementing RBAC
- ✓ MFA Authentication

### **Ch 56: Azure Virtual Machine**

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

### Ch 57: 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 58: SQL Clusters, Always-On

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

### Ch 59: PowerShell

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

### Ch 60: Azure Managed Instance

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

### Ch 61: DP 300 Exam Guidance

- 👉 📄 Resume Guidance (1:1)
- 👉 📄 Resume Guidance (1:1)
- 👉 📄 Mock Interview, DP 300 Exam Guidance

## **Module 4: Azure ETL, DWH (ADF, Synapse)**

### **Ch 1: Azure ETL, DWH Introduction**

- ✓ Data Warehouse (DWH)
- ✓ Cloud Concepts: IaaS, PaaS
- ✓ SaaS & Azure Cloud Concepts
- ✓ Azure Resources & Groups
- ✓ Storage, ETL, IoT Resources

### **Ch 2: Azure Intro, Azure SQL**

- ✓ Azure SQL Server, SQL DB
- ✓ Azure SQL Database (OLTP)
- ✓ Azure SQL Pool (DWH)
- ✓ Connections from SSMS Tool
- ✓ Connections from ADS Tool
- ✓ Pause / Resume SQL Pool
- ✓ Source Data Configurations

### **Ch 3: Azure Synapse (DWH)**

- ✓ Synapse Pool Architecture
- ✓ Control Node, Compute Node
- ✓ DMS & Partitioned Tables
- ✓ Creating Tables with TSQL
- ✓ Distributions: RR, Hash, Repl
- ✓ Big Data Loads with TQL
- ✓ Important DMFs & DMVs

### **Ch 4: 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 5: Azure SQL DB Loads**

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

### **Ch 6: BLOB Data Loads**

- ✓ Azure Storage Account

- ✓ Azure BLOB Containers
- ✓ BLOB Storage in ADF
- ✓ Synapse Analytics with IR
- ✓ ADF Pipeline Edits
- ✓ Pipeline Runs, Monitoring

### **Ch 7: Pipeline Settings**

- ✓ ADF Pipeline Settings
- ✓ Staging : Advantages
- ✓ Reliable Logging
- ✓ Best Effort Logging
- ✓ DIU & DOCP with IR
- ✓ Compressions, Health Check

### **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 Runs, Activity IDs

### **Ch 10: ADF Data Flow - 1**

- ✓ Data Flow Transformations
- ✓ Spark Clusters for Debugging
- ✓ Optimized Clusters, Preview
- ✓ Conditional Split, SELECT
- ✓ Sort, Union Transformations
- ✓ Pipelines with Data Flow

### **Ch 11: ADF Data Flow - 2**

- ✓ Working with Multiple Tables
- ✓ Join Transform, Broadcast
- ✓ Row Filters, Column Filters
- ✓ 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**

- ✓ Lookup Transformation
- ✓ Cache Lookup
- ✓ Inline Datasets
- ✓ Data Validations
- ✓ Lookup Versus Joins
- ✓ Broadcast Options

#### **Ch 14: ADF Metrics, Alerts**

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

#### **Ch 15: ADF Parameters, Security**

- ✓ Linked Service Parameters
- ✓ Creating Logins
- ✓ Users and ETL Permissions
- ✓ Parameterize Logins
- ✓ Parameterize Users
- ✓ Dynamic Linked Services

#### **Ch 16: Parameters, SCD & ETL**

- ✓ ADF Templates in Realtime
- ✓ Implementing ADF SCD
- ✓ Table Incremental Loads
- ✓ Control Tables, Watermarks
- ✓ Pipeline Parameters, SPs
- ✓ Dynamic Data Sets, SCD

#### **Ch 17: Synapse Analytics**

- ✓ Azure Synapse Analytics

- ✓ Dedicated SQL Pools
- ✓ TSQL: Stored Procedures
- ✓ Synapse Pipelines, Tuning
- ✓ SP Activity in Pipelines, Jobs
- ✓ Comparing ADF & Synapse

#### **Ch 18: CI CD with GitHub**

- ✓ Creating Github Account
- ✓ GIT: Main, Branches
- ✓ Connecting with ADF
- ✓ Version Changes
- ✓ Builds and Deployments
- ✓ CI-CD Integrations

#### **Ch 19: Azure Storage Security, ADF**

- ✓ Access Keys & Admin Access
- ✓ SAS Keys Generation, Ips
- ✓ Azure AD Users, Groups
- ✓ IAM & RBAC with Entra Users
- ✓ ACLs and ADLS Security
- ✓ ADF with Azure Storage Security

#### **Ch 20: Azure SQL DB Migrations**

- ✓ On-Premise SQL DB bacpac
- ✓ Azure SQL Deployment
- ✓ Azure Storage from SSMS
- ✓ Azure SQL DB Migration
- ✓ Migration Verifications
- ✓ Testing Migrations in SQL

#### **Ch 21: Azure Tables & ADF**

- ✓ Azure Tables
- ✓ Entities and Properties
- ✓ Storage Service Operations
- ✓ OData Queries & Filters
- ✓ Data Loads with ADF

#### **Ch 22: Azure Stream Analytics**

- ✓ Azure IoT Hubs & Devices
- ✓ APIs with Connection Strings
- ✓ Azure Stream Analytic Jobs
- ✓ Inputs, Outputs, SAQL Query
- ✓ LIVE Feed: JSON, AVRO Files
- ✓ Watermark & LIVE Streams

### Ch 23: Azure Key Vaults

- ✓ Azure Encryptions at REST
- ✓ SMK & CMK Encryptions
- ✓ Azure Key Vaults & Keys
- ✓ Key Access Policies
- ✓ Rest, Transit Encryptions
- ✓ Realtime Considerations

### Ch 24: Realtime Project @ Ecommerce / Banking

- ✓ Detailed Project Requirement
- ✓ Project Solutions
- ✓ Project FAQs
- ✓ Interview Questions & Answers
- ✓ Resume Guidance (1:1)

All sessions are practical, step by step. Kindly ensure on-time practice for best results.

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13. AI-ML
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**Trending Jobs**

- ← Data Analyst
- ← Business Analyst
- ← Data Engineer
- ← SQL Developer
- ← SQL DBA
- ← ETL Admin
- ← Data Scientist

20 Years of Trust

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