



Thank you for contacting our **SQL School**. I am **Mr. Sai Phanindra**, trainer for this **ETL Admin** Course. With 20+ 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/saiphaniindra/>

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 Artifacts.

What are the details of this ETL Admin Course?

- **Module 1: Database, SQL Server Concepts**
- **Module 2: Azure ETL & DWH**
- **Module 3: Core SQL DBA**
- **Module 4: Azure SQL DBA, CoPilot**
- **Module 5: Real-time Projects**

- ✓ **Duration: 4 Months**
- ✓ **Two Realtime Projects**

Who can join this course?

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

ETL Admin Training:

- Module 1: SQL & MSSQL
- Module 2: Azure ETL, DWH
- Module 3: Core SQL DBA
- Module 4: Azure SQL DBA
- 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

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19+ Years of Exp.



🔔 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
- ✓ Database Types
- ✓ OLTP & DWH Databases
- ✓ Need for ETL Admins
- ✓ ETL Admin Job Roles

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

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- ✓ 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

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

Module 2: Azure ETL & DWH

Part 1: 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 Storage & ADLS

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

Ch 3: Azure Deployments, Azure SQL

- ✓ Azure SQL Server, SQL DB
- ✓ Azure SQL Database (OLTP)
- ✓ Azure Firewall Rules

- ✓ Connections from SSMS Tool

Ch 4: Azure SQL DB Migrations

- ✓ On-Premise SQL DB, bacpac
- ✓ Azure SQL Deployment
- ✓ Azure Storage from SSMS
- ✓ Azure SQL DB Migration
- ✓ Migration Verifications

Ch 5: Azure Synapse (DWH)

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

Ch 6: 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 7: 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 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: Pipeline Settings

- ✓ ADF Pipeline Settings
- ✓ Staging: Advantages
- ✓ Reliable Logging
- ✓ Best Effort Logging

- ✓ DIU & DOCP with IR
- ✓ Compressions, Health Check

Ch 10: 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 11: ADF Data Flow - 1

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

Ch 12: ADF Data Flow - 2

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

Ch 13: ADF Data Flow - 3

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

Ch 14: ADF Data Flow - 4

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

Ch 15: ADF Metrics, Alerts

- ✓ Azure Insights
- ✓ Azure Metrics for ADF
- ✓ Azure Metrics for Synapse

- ✓ CPU, Memory Metrics
- ✓ Alerts and Notifications
- ✓ Action Groups, Tuning Options

Ch 16: ADF with Azure Functions

- ✓ Azure Functions
- ✓ Function Activity in ADF
- ✓ Linked Services
- ✓ Pipeline Debug
- ✓ ADF Activity Controls

Ch 17: ADF Optimizations

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

Ch 18: ADF Parameters, Security

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

Ch 19: SCD & ETL with Control Tables

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

Ch 20: Azure Key Vaults

- ✓ Azure Key Vaults
- ✓ Access Policies
- ✓ Secret Management
- ✓ Managed Identity
- ✓ Key Vault Integrations

Ch 21: Synapse Analytics

- ✓ Azure Synapse Analytics
- ✓ Synapse Deployments

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

Ch 22: Synapse: Dedicated SQL Pools

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

Ch 23: Synapse: Serverless Pools

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

Ch 24: Synapse: Apache Spark Pools

- ✓ Apache Spark Pools
- ✓ Nodes and Executors
- ✓ Big Data Analytics
- ✓ Pipeline Integrations

Part 2: Databricks (Spark, PySpark, Big Data, Genie AI)

Ch 1: Databricks Introduction

- ✓ Cloud ETL, DWH
- ✓ Cloud Computing
- ✓ Databricks Concepts
- ✓ Databricks Account
- ✓ Big Data in Cloud

Ch 2: Databricks Architecture

- ✓ Unity Catalog, Volume
- ✓ Spark Clusters
- ✓ Apache Spark and Databricks
- ✓ Apache Spark Ecosystem
- ✓ Hadoop, MapReduce, Apache Spark

Ch 3: Unity Catalog

- ✓ Unity Catalog Concepts
- ✓ Databricks Workspace UI
- ✓ Organizing Workspace Objects
- ✓ Volumes, File Uploads
- ✓ Managed & External Tables

- ✓ Spark UI: Limitations

Ch 4: Spark SQL: Basics

- ✓ Spark SQL Notebooks
- ✓ Creating Catalog
- ✓ Creating Schemas
- ✓ Spark Data Types
- ✓ PySpark API: SQL Queries
- ✓ Notebooks: Exports, Clone

Ch 5: Spark SQL: Functions

- ✓ Math, Sort Functions
- ✓ String, DateTime Functions
- ✓ SQL Expressions with expr()
- ✓ Volume for our Data Assets
- ✓ File Formats, Schema Inference
- ✓ Spark SQL Aggregations

Ch 6: Spark SQL: Time Travel

- ✓ Time Travel Concepts
- ✓ Spark DB: Logical Architecture
- ✓ Spark DB: Physical Store
- ✓ Time Travel, History
- ✓ DESCRIBE, EXTENDED
- ✓ Version Numbers

Ch 7: Python Introduction, Print

- ✓ Python Introduction
- ✓ Python Versions
- ✓ print() & display()
- ✓ Single, Multiline Statements

Ch 8: Python Variables

- ✓ Python Variables
- ✓ Declarations, Values
- ✓ Multi Variable Values
- ✓ Common Variable Values
- ✓ Realtime use of Variables

Ch 9: Python Operators

- ✓ Need for Operators
- ✓ Arithmetic Operators
- ✓ Assignment Operators
- ✓ Comparison Operators

- ✓ Operator Precedence
- ✓ Operands in Python

Ch 10: Python Control Statements

- ✓ Python Control Structures
- ✓ If ... Else Statement
- ✓ Short Hand If
- ✓ ELIF & ELSE IF Statements
- ✓ OR, AND Concepts
- ✓ Python Loops

Ch 11: Python Data Types

- ✓ Python Data Types
- ✓ Integer / Int Data Types
- ✓ Float, String Data Types
- ✓ List Data Type
- ✓ Dictionary Data Type
- ✓ Tuple Data Type

Ch 12: Python Modules & Dataframes

- ✓ Pandas
- ✓ NumPy
- ✓ Dataframe Concepts
- ✓ Handling Nulls
- ✓ Data Cleansing Concepts
- ✓ Pandas Series, arrays
- ✓ Indexes, Indexed Lists

Ch 13: PySpark Concepts

- ✓ Constructing Dataframes
- ✓ List Dataframes
- ✓ Pandas Dataframes
- ✓ Contact & Union
- ✓ Merge
- ✓ Join Options with Dataframes

Ch 14: Medallion Architecture - 1

- ✓ Medallion Architecture
- ✓ Aggregated Data Loads
- ✓ Broze, Silver and Gold
- ✓ Temp Views
- ✓ Spark Tables (Parquet)
- ✓ Work with File Sources

Ch 15: Medallion Architecture - 2

- ✓ Medallion Architecture
- ✓ Azure SQL DB Connections
- ✓ Joining Source Tables
- ✓ Dataframes, Temp Views
- ✓ Aggregated Data Loads
- ✓ Gold Data Consumption

Ch 16: Delta Lake

- ✓ Databricks DeltaLake
- ✓ Schema Evolution
- ✓ Dataframes, Temp Views
- ✓ Delta Table API
- ✓ Update, Delete Records
- ✓ Merging Records
- ✓ Old History Retention
- ✓ Delta Transaction Log

Ch 17: PySpark: Widgets

- ✓ PySpark Parameters
- ✓ Text Widgets
- ✓ User Parameters
- ✓ Manual Executions
- ✓ Automations
- ✓ UI & JSON For Widgets

Ch 18: Lake Flow Jobs

- ✓ Workflows & CRON
- ✓ Job Compute, Running Tasks
- ✓ Parameters into Notebook Tasks
- ✓ Parameters into Python Script Tasks
- ✓ Concurrent Executions, Dependencies
- ✓ Branching Control with the If-Else Task

Ch 19: Pyspark: Auto Loader - 1

- ✓ AutoLoader Concept
- ✓ Cloudfiles Architecture
- ✓ Checkpoint Configurations
- ✓ Creating Directories
- ✓ Reading Databricks Cloud Sources
- ✓ Initial Loads

Ch 20: PySpark: Auto Loader - 2

- ✓ Reading Streams with Auto Loader

- ✓ Reading a Data Stream
- ✓ Manually Cancel your Data Streams
- ✓ Writing to a Data Stream
- ✓ Schema Evaluation Modes
- ✓ Adding New Columns
- ✓ Workspace Modules

Ch 21: Lake Flow Declarative Pipelines

- ✓ SDP: Spark Declarative Pipelines
- ✓ Delta LIVE Tables
- ✓ Streaming Data Loads
- ✓ Materialized Views
- ✓ Pipeline Clusters
- ✓ Databricks CLI
- ✓ Data Quality Checks

Ch 22: Databricks Optimizations

- ✓ Lazy Evaluation
- ✓ Data Shuffling
- ✓ Broadcast Joins
- ✓ Data Skipping
- ✓ Z Ordering
- ✓ Liquid Clustering
- ✓ VACUUM
- ✓ OPTIMIZE

Ch 23: Databricks Security, AI

- ✓ Overview of ACLs
- ✓ Adding a New User to Workspace
- ✓ Workspace Access Control
- ✓ Cluster Access Control
- ✓ Groups & LakeBridge
- ✓ Access Keys (Tokens), Genie AI

Ch 24: Azure Databricks

- ✓ Databricks Deployment Modes
- ✓ Classic Deployments
- ✓ Azure Databricks Workspace
- ✓ Databricks Compute
- ✓ Scaling & Tuning & AI
- ✓ Open Source Databricks Vs Azure Databricks

Ch 25: GitHub Concepts

- ✓ Creating Github Account

- ✓ GIT Project Concept
- ✓ GIT Project Creation
- ✓ GIT: Main, Branches
- ✓ GIT Credentials
- ✓ Connecting with ADF
- ✓ Connecting with Databricks

Part 3: Data Engineer Project (For Resume)

ECommerce Platform

Project Objective:

Build an end-to-end Azure Data Engineering solution to process, transform, and analyze e-commerce business data from multiple sources.

Skills Gained:

- Data Ingestion & ETL Development
- Azure Data Factory Pipelines
- Data Orchestration (End to End)
- Data Lake Architecture, RBAC
- Real-Time Industry Experience
- Azure IoT, Stream Analytics
- Azure Databricks with Data Factory

Components For Project (From Resume Perspective):

- ADF Pipelines
- Databricks Notebooks
- Synapse Analytics
- Apache Spark Schemas
- Power BI Reporting
- Monitoring & Alerts
- CI/CD Deployment
- End to End Integrations
- IAM & Managed Identity

Module 3: Core SQL DBA

Ch 1: Backups

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

Ch 2: 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 3: Jobs, Maintenance

- ✓ SQL Server Agent Service
- ✓ Job Steps & Schedules
- ✓ MSDB: Job History
- ✓ DB Maintenance Plans
- ✓ Backup Maintenance
- ✓ Job Verifications, Scripts
- ✓ Common Errors, Solutions

Ch 4: DB Mail & Alerts

- ✓ SMTP Concepts
- ✓ Creating Email Profile
- ✓ Default, Public Profiles
- ✓ Creating SMTP Accounts
- ✓ Alert System : Agent Settings
- ✓ Creating Operators
- ✓ Job Failures & Notifications

Ch 5: 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 6: DB Migrations

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

Ch 7: 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 8: 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 9: 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 10: 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 11: 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 12: Tuning Tools

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

- ✓ Tuning Tools: Precautions

Ch 13: 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 14: 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 15: 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 16: 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 17: Recovery Models

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

Ch 18: 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 19: 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 20: 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 21: 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 22: 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 23: Issues & Solutions

- ✓ Log Space Issues, Solutions
- ✓ TempDB Issues, Solutions

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

Ch 24: Updates (Patches)

- ✓ Planning for Updates
- ✓ Pre-Maintenance Checklist
- ✓ Edition Checks
- ✓ Updates Process
- ✓ Edition Comparisons
- ✓ History Tracking
- ✓ Updates Rollback

Ch 25: Upgrades, Licensing

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

Ch 26: 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 27: SQL DBA Project

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

Ch 28: SQL DBA Project

- ✓ Login Failure Errors
- ✓ Slow Database Issues
- ✓ Network Errors
- ✓ Security Strategies
- ✓ HA DR Strategies

- ✓ Common Error Codes
- ✓ Need for Azure Cloud

Module 4: Azure SQL DBA

Ch 1: 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 2: 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 3: 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 4: 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 5: 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 6: 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 7: 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 8: HA DR @ Replication

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

Ch 9: HA DR @ Server Failover

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

Ch 10: Azure Security

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

Ch 11: 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 12: 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 13: SQL Clusters, Always-On

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

Ch 14: PowerShell

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

Ch 15: Azure Managed Instance

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

Ch 16: DP 300 Exam Guidance

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

Real-Time Projects – ETL Admin Course

Project 1: Enterprise ETL Administration & Monitoring

Manage end-to-end ETL environments using SQL Server and Azure ETL tools. Work on job scheduling, monitoring, failure handling, restart strategies, logging, alerts, package deployment, security, and production support scenarios.

Project 2: Azure Data Warehouse & ETL Performance Optimization

Build and administer a complete ETL pipeline from multiple data sources into an Azure Data Warehouse. Focus on data loading, incremental loads, performance tuning, indexing, partitioning, query optimization, troubleshooting, and cost optimization.



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and help you build a **successful career in Data!**

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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
- hadoop**
BIG DATA
Process & Analyze Huge Volumes of Data
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Administration, Security & High Availability
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