

ETL Admin Training with Azure, Databricks & Microsoft Fabric

Build. Monitor. Secure. Optimize. Troubleshoot.

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

What You'll Learn

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

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✅ 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
  - Section 1: Azure ETL & DWH
  - Section 2: Azure ETL Admin, DWH Admin
- Module 4: Real-Time Projects for Resume

Duration: 3 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.

🔥 Detailed Course Content 🔥

Module 1: Database Concepts & Core SQL DBA
Module 1: Core SQL DBA
Ch 1: SQL Database Job Roles

- ✓ **Introduction to Databases**
- ✓ **DBA Job Roles, Activities**
- ✓ **3rd Party Tools, Incident Management**
- ✓ **DBA Job Scope, Growth**

Ch 2: Database Intro & Installations

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

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
- ✓ DML: Insert, Update, Delete
- ✓ DQL: Select, Fetch. SQL Operators

Ch 5: Schemas & Data Imports

- ✓ Schemas, Table Grouping
- ✓ Data Imports with Excel
- ✓ Data Types Detection
- ✓ OLE-DB, GO, 4 Part Naming

Ch 6: Constraints, Keys & RDBMS

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

Ch 7: Joins & Queries

- ✓ Joins & TSQL Queries
- ✓ Inner Joins, Matching Data
- ✓ Outer Joins: Left, Right, Full
- ✓ Self Joins, Conditions

Ch 8: Views & RLS

- ✓ Views: Realtime Usage
- ✓ DML, SELECT with Views
- ✓ WITH CHECK OPTION
- ✓ RLS, Important System Views

Ch 9: Stored Procedures - 1

- ✓ Stored Procedures & Parameters
- ✓ SELECT & Conditional DML
- ✓ IF Statement, SP Recompilation
- ✓ System Stored Procedures

Ch 10: Functions & Queries

- ✓ Scalar, Table Value Functions
- ✓ Variables & Parameters
- ✓ Date Time, Conversion Functions
- ✓ String, Aggregated Functions

Ch 11: Triggers & Automations

- ✓ DDL & DML Triggers
- ✓ For / After, Instead of Triggers
- ✓ Disabling DMLs Triggers

Ch 12: Transactions & ACID

- ✓ Auto Commit & Explicit
- ✓ Commit, Rollback, Lock Hints
- ✓ Checkpoint, Query Blocking
- ✓ TRY...CATCH, Error Handling

Ch 13: SQL Server Architecture

- ✓ Database Engine Components
- ✓ Parser, Compiler & Optimizer
- ✓ Checkpoint, SQL OS
- ✓ Memory Manager & IO Managers

Ch 14: Database Architecture (VLDB)

- ✓ Planning Large Databases
- ✓ Files, Filegroups
- ✓ Pages, Extents.
- ✓ VLF, LSN, Mini LSN

Ch 15: Backups & Audits

- ✓ Database Backups & Types
- ✓ DB, Filegroup, File Backups
- ✓ Copy Only, Partial Backups
- ✓ Checksum, Backup Audits

Ch 16: Restores & Recovery, PITR

- ✓ DB, Filegroups, File Restores
- ✓ Restoring & Online States
- ✓ Standby Mode & MOVE
- ✓ Point-In-Time (PITR) Restores

Ch 17: Jobs, Maintenance Plans

- ✓ SQL Server Agent, Jobs
- ✓ Steps & Schedules
- ✓ Maintenance Plans, Backups
- ✓ Common Errors, Solutions

Ch 18: Database Mail, Alerts

- ✓ Database Mail, SMTP
- ✓ Alert System: Agent Settings
- ✓ Operators, Job Notifications
- ✓ Alert Configurations

Ch 19: Security Management - 1

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

Ch 20: Security Management - 2

- ✓ Keys & Certificates
- ✓ Encryptions & Data Security
- ✓ Password Encryptions

Ch 21: Database Migrations

- ✓ Credentials, SSIS Proxies
- ✓ CDW Packages. SMO Method
- ✓ Database Detach – Attach
- ✓ Detect, Fix Orphan Users

Ch 22: Tuning: Audits, DMV, AM Tool

- ✓ Activity Monitor. Perfmon Tool
- ✓ Query Store. Recovery Models
- ✓ DMVs, DMFs. Long Running Queries

Ch 23: Tuning: Indexes

- ✓ Clustered, Non Clustered, Online
- ✓ Column Store, Included, Covering
- ✓ Indexed Views, Selectivity
- ✓ Execution Plans, Index Seek

Ch 24: Tuning: Partitions, Statistics

- ✓ Partitions: Performance Tuning
- ✓ Functions & Schemes, Compressions
- ✓ Index & Column Statistics
- ✓ Stats Updates in Real-Time

Ch 25: Index Management

- ✓ Index Rebuilds, Re-Organize
- ✓ Database Maintenance Plans
- ✓ Resumable & Online Indexes
- ✓ PAUSE, RESUME in Rebuilds

Ch 26: Tuning Tools

- ✓ Tuning Tools: DTA, Profiler

- ✓ PDS Recommendations
- ✓ Query Execution Cache
- ✓ Tuning Tools, Precautions

Ch 27: Execution Plans & AI Tuning

- ✓ Execution Plan Analysis
- ✓ IO, CPU Cost, SubTree, Operators
- ✓ NUMA Nodes, Processor Affinity
- ✓ Thread Count, DOP, CTEs
- ✓ AI Enabled Tuning For SQL DBAs

Ch 28: Locks & Isolation Levels

- ✓ S, X, IX, U and MD Locks
- ✓ Sch-M and Sch-S Locks
- ✓ SP_WHO2, SP_LOCK
- ✓ Isolation Levels, Versioning
- ✓ Read Committed Snapshot

Ch 29: Deadlocks, LIVE Locks

- ✓ Deadlocks in Real-world
- ✓ Profiler Tool & Deadlocks
- ✓ Deadlock Graphs & Prevention
- ✓ sysprocesses & sp_who2

Ch 30: HA DR @ Replication - 1

- ✓ Replication: Realtime Usage
- ✓ Distributor Configurations
- ✓ Publisher and Subscriber
- ✓ Snapshot, Transactional
- ✓ Replication Monitor, Alerts

Ch 31: HA DR @ Replication - 2

- ✓ Merge Replication & Usage
- ✓ Peer – Peer Replication
- ✓ Conflict Detection, Avoidance
- ✓ Limitations with Replication
- ✓ Common Errors, Solutions

Ch 32: HA DR @ Log Shipping

- ✓ Log Shipping Configurations
- ✓ Primary, Secondary Servers
- ✓ TUF Files, NORECOVERY, STANDBY
- ✓ Common Errors, Solutions

Ch 33: HA DR @ DB Mirroring

- ✓ Database Mirroring Concepts
- ✓ Principal, Mirror, Witness

- ✓ Synchronous, Asynchronous
- ✓ Automated Failover Process

Ch 34: DB Health, Repairs, Issues

- ✓ DBCC for Audits, Repairs
- ✓ MSDB Suspect Pages, DB Repairs
- ✓ Single User Mode. Emergency Mode
- ✓ Log Space Issues, TempDB Issues
- ✓ Memory Issues, DB Health Strategies

Ch 35: Updates & Upgrades

- ✓ Updates Process. RTM, SP, CU
- ✓ Upgrades Process (In-Place)
- ✓ Cautions & Maintenance. Rollbacks
- ✓ Command Line Installations, DAC
- ✓ System DB Rebuilds, SQL CMD

Ch 36: SLA, OLA & Ticketing Tools

- ✓ Incident Management. KB Articles
- ✓ SLA & OLA. Ticketing Tools
- ✓ Service Requests & Escalation Process

Ch 37: 3rd Party Tools, AI For SQL DBA

- ✓ Redgate Monitor, Blocking
- ✓ SQL Sentry, AI Enabled Administration
- ✓ sp_whoisactive
- ✓ Execution Plan Analysis

Ch 38: SQL DBA Project – Phase 1

Environment: Ecommerce Database

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

Ch 39: SQL DBA Project – Phase 2

Environment: Ecommerce Database

- ✓ Emergency DBA Activities
- ✓ Slow Database Issues
- ✓ Network Errors, Security Strategies
- ✓ HA DR Strategies, Common Error Codes

Module 2: Azure SQL DBA

Ch 40: Cloud Basics, Azure Funda

- ✓ Cloud Fundamentals
- ✓ IaaS, PaaS, SaaS Cloud Types

- ✓ Azure Resources & Services
- ✓ Azure Account & Subscription

Ch 41: Azure SQL Deployments

- ✓ Azure SQL Server Deployments
- ✓ Azure SQL Databases, Firewall
- ✓ SSMS Tool: Test Connections
- ✓ Azure SQL DB Operations

Ch 42: vCore, DTU, Elastic Pools

- ✓ Azure SQL DB Licensing
- ✓ DTUs: Basic, Standard Types
- ✓ VPU and Cost Optimization
- ✓ Elastic Pools, eDTU
- ✓ Elastic Query Processing

Ch 43: Azure Storage Account

- ✓ Azure Data Lake Storage Account
- ✓ General Purpose, Big Data Options
- ✓ Storage Containers, BLOB File Uploads

Ch 44: Azure SQL DB Migrations

- ✓ SQL DB Migration Options
- ✓ ADLS & Bacpac
- ✓ Azure SQL DB Import
- ✓ Migration Issues

Ch 45: Azure Automated Tuning, AI

- ✓ Server, DB Level Tuning
- ✓ Built-In Intelligence, AI
- ✓ Azure AI Search Service
- ✓ AI Indexes, Tokens, Refresh

Ch 46: Query Store, Insights, Alerts

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

Ch 47: Azure Backups, Restores

- ✓ Azure SQL DB Backups
- ✓ LTR Backups, Log Backups
- ✓ Backup History, Restores
- ✓ LTR & PITR Restores

Ch 48: HA DR @ Replication

- ✓ Geo Replication

- ✓ **Manual & Automated Failover**
- ✓ **DMVs For Replication**
- ✓ **Replication Tests**

Ch 49: HA DR @ Server Failover

- ✓ **Multi Database Replication**
- ✓ **Failover Groups**
- ✓ **Replica DB: Status**
- ✓ **Automated Failover**

Ch 50: Azure Security: Logins, RLS

- ✓ **Azure SQL Server Security**
- ✓ **Logins, Users, Roles**
- ✓ **Row Level Security (RLS)**
- ✓ **Dynamic Data Masking (DDM)**

Ch 51: Azure Security: RBA, TDE

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

Ch 52: Azure Managed Instance

- ✓ **Azure MI Implementation**
- ✓ **Cloud Azure MI Access**
- ✓ **Azure MI Migrations**
- ✓ **On-Premises Versus Azure**

Ch 53: Azure Elastic Jobs

- ✓ **Elastic Job Agent & Architecture**
- ✓ **Job Credentials, Managed Identity & Target Groups**
- ✓ **Scheduling Elastic Jobs**
- ✓ **Job Execution, Monitoring & Troubleshooting**

Ch 54: PowerShell, Azure CLI

- ✓ **Azure PowerShell**
- ✓ **Az and get Commands**
- ✓ **Resources, Password Resets**
- ✓ **Firewall Config, Cleanups & Azure CLI**

Ch 55: Azure Virtual Machines

- ✓ **Azure IaaS, Capacity & Size**
- ✓ **Lock Pages, Disk Capacity**
- ✓ **Instant File Initialization**
- ✓ **RDP, Bastion. DB Operations**

Ch 56: Always-On: Concepts

- ✓ **HA DR in Azure IaaS**

- ✓ **Always-On Concept, Requirements**
- ✓ **SQL VMs, DC VM, ADDS**
- ✓ **AOAG Requirements, Listener**

Ch 57: Always-On: Virtual Network, DC

- ✓ **AOAG Resource Groups**
- ✓ **Virtual Network, Subnet & Ranges**
- ✓ **Windows Server VM & DCVM Networking**

Ch 58: Always-On: DCVM, FSW

- ✓ **Active Directory Domain Services**
- ✓ **DNS, Forest, Domain Name**
- ✓ **AD Users, Domain Admin**
- ✓ **ADLS & Witness, Quorum**

Ch 59: Always-On: SQL Clusters, HA-DR

- ✓ **Availability Groups, AG Listener**
- ✓ **SQL Server Clusters, Cluster Services**
- ✓ **DC Linking. Master & Slave Nodes**
- ✓ **WSFC Concepts, AOAG Config**

Ch 60: Always-On: Database Configurations

- ✓ **Always-On Config Verifications**
- ✓ **System Views & Metadata**
- ✓ **Adding AOAG Databases**
- ✓ **Listener & Peer Verifications**

Ch 61: Always-On: Monitoring, Issues

- ✓ **Availability Groups, Listener**
- ✓ **SQL Server Clusters**
- ✓ **Always-On Testing & Monitoring**
- ✓ **Common Issues & Solutions**

Ch 62: SQL DBA Project 2 – Phase 1

Environment: Ecommerce Database

- ✓ **Routine DBA Activities**
- ✓ **Emergency DBA Activities**
- ✓ **Maintenance DBA Activities**
- ✓ **Auditing Techniques, RCA**

Ch 63: SQL DBA Project 2 – Phase 2

Environment: Ecommerce Database

- ✓ **Login Failure Errors**
- ✓ **Slow Database Issues**
- ✓ **Network Errors, Security Strategies**
- ✓ **HA DR Strategies, Common Error Codes**

Module 3: Azure ETL & DWH Concepts

Ch 1: Azure Fundamentals

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

Ch 2: Azure Storage & ADLS

- ✓ Azure Storage Account
- ✓ Azure Data Lake Storage
- ✓ BLOB Containers
- ✓ Folders & Files

Ch 3: Azure Security Concepts

- ✓ Microsoft Entra, RBAC
- ✓ Users & Groups
- ✓ Storage Security, IAM, ACL
- ✓ Access Keys, SAS Keys

Ch 4: Azure Deployments, Azure SQL

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

Ch 5: Azure SQL DB Migrations

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

Ch 6: Azure Synapse Analytics (DWH)

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

Ch 7: Azure Data Factory – Pipelines

- ✓ ADF Intro & Pipeline Artifacts
- ✓ IR, Linked Services, Datasets
- ✓ Copy Data Activity
- ✓ Azure SQL DB → Synapse Loads

Ch 8: ADF: Azure Blob Data Loads

- ✓ ADF Author & Pipeline Runs
- ✓ Azure BLOB Storage Access
- ✓ Pipeline Staging & Logging

- ✓ **Validations & Schedules**

Ch 9: Table Incremental Loads

- ✓ **SCD & Incremental Loads**
- ✓ **Business Keys & Data Delta**
- ✓ **Copy Method: Upsert**
- ✓ **Initial & Incremental Loads**

Ch 10: On-Premises Loads, Optimizations

- ✓ **Self Hosted IR Setup**
- ✓ **IR Keys, Security**
- ✓ **On-Premise Data Loads**
- ✓ **ADF Optimizations**

Ch 11: ADF Data Flow - 1

- ✓ **Data Flow Activity**
- ✓ **Debug Cluster, Data Preview**
- ✓ **Data Cleansing, Conditional Split**
- ✓ **Select, Sort, Union, Loops**

Ch 12: ADF Data Flow - 2

- ✓ **Join Transform, Broadcast**
- ✓ **Surrogate Keys, Derived Cols**
- ✓ **ETL Loads Dates, Sink Options**
- ✓ **Aggregated Data Loads**

Ch 13: ADF Data Flow - 3

- ✓ **Pivot, Data Duplication**
- ✓ **Group By & Pivot Keys**
- ✓ **Column Name Pattern**
- ✓ **Tuning Data Flow, Spark**

Ch 14: ADF Data Flow - 4

- ✓ **Get Metadata Activity**
- ✓ **IF Activity Expressions**
- ✓ **Lookup & Loops in ADF**
- ✓ **Data Flow Cluster**

Ch 15: ADF Parameters, Security

- ✓ **Linked Service Parameters**
- ✓ **Logins & Users, Permissions**
- ✓ **ADF Connection Parameters**
- ✓ **Dynamic Linked Services**

Ch 16: SCD & ETL with Control Tables

- ✓ **ADF Templates, Data Delta**
- ✓ **Control Tables, Watermarks**
- ✓ **Lookup, SP Activity For SCD**

- ✓ **Pipeline Parameters, SPs**

Ch 17: ADF Metrics, Alerts

- ✓ **ADF Insights & Metrics**
- ✓ **DTU, CPU & Memory Metrics**
- ✓ **Alerts and Notifications**
- ✓ **Action Groups, Tuning Options**

Ch 18: ADF with DevOps & CI/CD

- ✓ **ADF Git integration**
- ✓ **Dev / Test / Prod environments**
- ✓ **Parameterized deployments**
- ✓ **Production release workflow**

Ch 19: Azure Stream Analytics

- ✓ **Azure IoT Hubs**
- ✓ **Azure Stream Analytics**
- ✓ **LIVE Data Ingestions**
- ✓ **SAQL Queries, JSON**

Ch 20: Azure Key Vaults

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

Section 2: 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

- ✓ **Azure SQL Server Logins**
- ✓ **Azure SQL Pool Users**
- ✓ **Logins, Permissions**

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

Ch 5: Azure DWH Management

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

Ch 6: 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
- ✓ Data Lake Architecture, RBAC
- ✓ Azure ETL Admin
- ✓ Azure ETL Backups, Restores
- ✓ Azure ETL Security

Components For Project

- ✓ ADF Pipelines
- ✓ Pipeline Logging
- ✓ Pipeline Management
- ✓ Synapse Analytics
- ✓ 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 DWH Management
- Azure ETL Management
- Azure to Fabric Migrations
- Performance Optimizations

BUILD REAL SKILLS. WORK ON REAL PROJECTS. BECOME JOB READY.



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Wish you all the best!