



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 are the Job Roles of an ETL Admin?

Azure Data Engineer (ETL Admin)		
➤ Azure Fundamentals ➤ Azure Subscriptions ➤ Azure SQL Database ➤ Azure SQL Pools ➤ Azure Storage Account ➤ Azure Data Lake Storage ➤ Azure Stream Analytics ➤ Azure Databricks ➤ Azure Data Factory ➤ Azure Synapse Analytics ➤ Azure Synapse Pools ➤ Azure IoT Hubs ➤ Azure Event Hubs ➤ Azure Resource Manager	➤ Azure Active Directory ➤ Azure Key Vaults ➤ Azure Monitor ➤ Azure Action Groups ➤ Azure Alerts ➤ Azure Metrics ➤ Spark Clusters ➤ Spark Databases ➤ Spark Tables, Views ➤ Spark Analytics ➤ Spark Jobs & Admin ➤ RDD & Big Data ➤ Security Admin ➤ ETL Admin	➤ Azure DB Migrations ➤ Web Apps & OnPrem ➤ LIVE Data Streaming ➤ Spark Clusters, ETL ➤ SparkSQL, PySpark ➤ Notebooks, Widgets ➤ Jobs, Workflows ➤ Databricks Pipelines ➤ Incremental Loads ➤ Apache Spark Pools ➤ Server Less Pools ➤ Pipeline Optimizations ➤ Data Explorer Tool ➤ DP 203 Exam Guidance

What does our **ETL Admin** Training course contains?

ETL Admin Training:

- **Module 1: SQL DBA with Azure**
9 Weeks; 1 Realtime Project
- **Module 2: Azure Data Engineering**
6 Weeks; 1 Realtime Project
- **Module 3: ETL Admin w/i Spark, AI**
2 Weeks; 1 Realtime Case Study

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

This course is very helpful for:

1. Data Analysts
2. Business Analysts
3. BI Developers
4. Data Engineers



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.

Who can join this course?

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

Module 1: Core SQL DBA

In this module, we start with detailed step by Step Database Fundamentals, SQL Concepts, TSQL Queries useful for Routine SQL DBA Activities Like Audits. In this module, we also learn Backups, Restores, Jobs, Maintenance Plans, Health Checks, Repairs, DB Mail, HA DR Concepts including Replication, Log Shipping, DB Mirroring and more .. !

These concepts will be surely sufficient to proceed for our next module: **Azure SQL DBA**.



SQL School
Quality Training Assured

We are Training Vendors for:
accenture ADP iMmobile Mindtree
HCL Infotech Tech Mahindra PRIMARY

SQL DBA with AI

Course Includes:
MSSQL
Core SQL DBA
Adv. SQL DBA
Azure SQL
Azure SQL DBA
Azure AI
DP 300 Exam

✓ 19+ Years of Trust
✓ Step by Step Trainings
✓ Practical, Interactive
✓ Real-time Project
✓ Project FAQs
✓ Concept FAQs
✓ 1-1 Resume

Call for Free Demo
Mr. Sai Phanindra
19+ Years of Experience

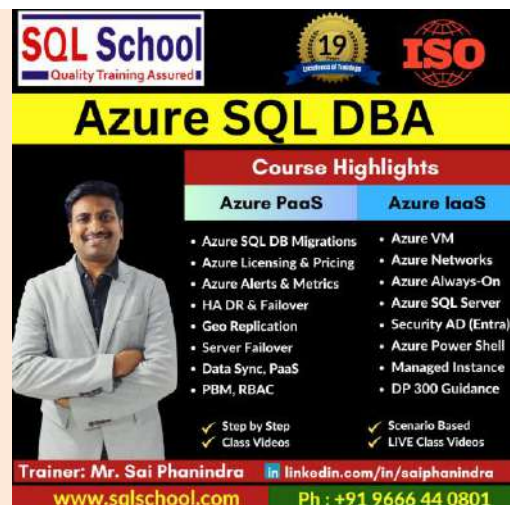
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For Free Demo, Latest Schedules, call us on +91 9666440801 or visit www.sqlschool.com/register

Module 2: Azure SQL DBA

In this module, we practically learn & implement Azure PaaS, Azure IaaS, Azure SQL DB Migrations, Azure SQL DB Deployments, Azure Tuning, issues & Troubleshooting, Security, Power Shell, Azure Virtual Machines, Azure OS Clusters, Azure Always On and more.

This module includes one **Realtime Project, DP 300 Exam Guidance** for your resume in **Ecommerce Domain**.



SQL School Quality Training Assured

Azure SQL DBA

Course Highlights

Azure PaaS	Azure IaaS
- Azure SQL DB Migrations - Azure Licensing & Pricing - Azure Alerts & Metrics - HA DR & Failover - Geo Replication - Server Failover - Data Sync, PaaS - PBM, RBAC	- Azure VM - Azure Networks - Azure Always-On - Azure SQL Server - Security AD (Entra) - Azure Power Shell - Managed Instance - DP 300 Guidance

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Module 3: ETL, DWH Admin with Azure

In this course, we practically learn & implement ETL, ELT, DWH, ADF, Databricks, Data Lake, Python ETL, PySpark, Scala, Stream Analytics, IoT, Log Apps, Azure Functions, Azure Big Data, Azure Functions and more with Medallion Architecture. This course includes various structured and unstructured data sources to implement Upserts, SCD, CDC and more Big Data Techniques .. !

This module includes one **Realtime Project** For your resume in **Ecommerce Domain**



Azure Data Engineering 19+ Years Of TRUST **SQL SCHOOL** Premium Quality Training

100% Real-Time, Job Oriented Trainings

- Azure Fundamentals
- ETL & DWH Concepts
- Azure SQL Database
- Azure Data Factory
- Azure Synapse Analytics
- Azure SQL Pools
- Azure Data Lake (ADLS)
- Azure Databricks
- Azure Stream Analytics
- Azure IoT, Medallion
- Python, PySpark, SCD
- Scala, Spark SQL, Merge
- End to End Integrations
- Resume, LIVE Project

✓ Step by Step
✓ Class Videos
✓ Scenario Based
✓ Realtime Project
✓ LIVE Class Videos

LIVE Online
Self Paced Videos
Inhouse Course

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Why Choose SQL School ?

- 👍📋 Every session is Practical, Step by Step with Concept wise FAQs !!
- 👍📋 100% results with on-time practice. Daily Tasks for every session.
- 👍📋 Concept wise tasks be submitted before next class for Job Waiters / Starters.
- 👍📋 Concept wise tasks due for submission by Weekends for Working Professionals.

ETL Admin Training: Detailed Course Curriculum

Detailed Course Content

Module 1: Core SQL DBA

Ch 1: Database Intro & Job Roles ✓ Database Introduction ✓ Database Types: OLTP, DWH ✓ DBMS & Realtime Use ✓ DBMS Software & Purpose ✓ SQL: Purpose & Use ✓ SQL Server Versions, Editions ✓ SQL DBA Job Roles	Ch 2: SQL Server Installations ✓ SQL Server 2022 Installations ✓ SQL Server 2019 Installations ✓ SSMS Tool Installation ✓ Server Connections, Properties ✓ Instance & Instance Types ✓ Authentication Types ✓ System Databases & Purpose	Ch 3: SQL Basics V1 (Commands) ✓ Database, Tables & Columns ✓ SQL Basics: Purpose ✓ DDL Statements ✓ DML Statements ✓ DQL Statements ✓ Verifications @ GUI ✓ Basic SELECT Queries
Ch 4: SQL Basics V2 (Operators) ✓ DDL Variants in MSSQL ✓ DML Variants in MSSQL ✓ INSERT & INSERT INTO ✓ SELECT & SELECT INTO ✓ Basic Operators in SQL ✓ Special Operators in MSSQL ✓ ALTER, TRUNCATE, DROP	Ch 5: Excel Data Imports ✓ Data Imports with Excel ✓ SQL Native Client ✓ Order By: Asc, Desc ✓ Order By with WHERE ✓ TOP & OFFSET ✓ UNION ALL ✓ UNION, Data Appends	Ch 6: Schemas & Security ✓ Schemas: Creation, Usage ✓ Schemas & Table Grouping ✓ Using Default Schema ✓ Real-world Banking Database ✓ Table Migrations @ Schemas ✓ 2 Part, 3 Part & 4 Part Naming ✓ Verifying Schemas in UI
Ch 7: Constraints & Keys Basics ✓ Need for Constraints, Keys ✓ Null, Not Null Constraints ✓ Unique Key Constraint ✓ Primary Key Constraint ✓ Foreign Key & References ✓ Default Constraint & Usage ✓ DB Diagrams & ER Models	Ch 8: Indexes Basics, Tuning ✓ Indexes & Tuning ✓ Clustered Index, Primary Key ✓ Non Clustered Index & Unique ✓ Creating Indexes Manually ✓ Verifying Indexes ✓ Composite Keys, Query Optimizer ✓ Composite Indexes & Usage	Ch 9: Joins & Audits ✓ Joins: Table Comparisons ✓ Inner Joins & Matching Data ✓ Outer Joins: LEFT, RIGHT ✓ Full Outer Joins & Audits ✓ Cross Join & Table Combination ✓ Joining more than 2 tables ✓ Joining Tables with Aliases
Ch 10: Views & RLS ✓ Views: Realtime Usage ✓ Storing SELECT in Views ✓ DML, SELECT with Views ✓ RLS: Row Level Security ✓ WITH CHECK OPTION ✓ Database Audits & Metadata ✓ 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 Value Functions ✓ Inline & Multiline Functions ✓ Parameterized Queries ✓ Date & Time Functions ✓ String Functions & Queries ✓ Aggregated Functions & Usage
Ch 13: Triggers & Automations ✓ Need for Triggers ✓ DDL & DML Triggers ✓ For / After Triggers ✓ Instead Of Triggers ✓ Memory Tables with Triggers ✓ Data Replication, Automation ✓ Disabling DMLs & Triggers	Ch 14: Transactions & ACID ✓ Transaction Concepts in OLTP ✓ Transaction Types in Realtime ✓ Auto Commit, Explicit Transaction ✓ COMMIT, ROLLBACK ✓ Checkpoint & Logging ✓ Lock Hints & Query Blocking ✓ READPAST, LOCKHINT	Ch 15: Cursors & Fetch ✓ Cursors: Realtime Usage ✓ Cursor Declaration Types ✓ Open Cursor, Close Cursor ✓ Local & Global Cursors ✓ Scroll & Forward Only Cursors ✓ Static & Dynamic Cursors ✓ Fetch, Absolute Cursors

Ch 16: CTEs & Tuning ✓ Common Table Expression ✓ Creating and Using CTEs ✓ CTEs, In-Memory Processing ✓ Using CTEs for DML Operations ✓ Using CTEs for Data Retrieval ✓ Using CTEs for Tuning ✓ CTEs: Duplicate Row Deletion	Ch 17: DB Architecture, Locks ✓ Planning VLDBs: Files, Sizing ✓ Filegroups, Extents & Types ✓ Log Files: VLF, Mini LSN ✓ Table Locations ✓ Performance Advantages ✓ Transactions Types, Lock Hint ✓ Query Blocking Scenarios	Ch 18: Server Architecture ✓ Protocols: TCP IP, Named Pipes ✓ Database Engine Components ✓ Storage Engine Components ✓ SQL OS Components ✓ Checkpoints, WAL ✓ Processor, Memory & IO ✓ MDAC, Client Components
Ch 19: Backups ✓ Database Backups & Types ✓ DB, Filegroup, File Backups ✓ Copy Only Backups, Usage ✓ Partial Backups, Split Backups ✓ Mirror Backups ✓ Backup 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 ✓ SQL Server Agent Service ✓ Job Steps & Schedules ✓ MSDB: Job History ✓ DB Maintenance Plans ✓ Backup Maintenance ✓ Job Verifications, Scripts ✓ Common Errors, Solutions
Ch 22: Database Mail ✓ SMTP Concepts ✓ Creating Email Profile ✓ Default, Public Profiles ✓ Creating SMTP Accounts ✓ Alert System : Agent Settings ✓ Creating Operators ✓ Job Failures & Notifications	Ch 23: Security Management ✓ Security Objects Usage ✓ Creating Logins & Users ✓ Creating Roles, Add Principals ✓ Schema Level Security ✓ Object, Column Level Security ✓ Security Management Scripts ✓ Security Audit, Logon Failures	Ch 24: DB Migrations ✓ Creating Credentials ✓ Creating Proxies ✓ Creating CDW Packages ✓ Database Detach – Attach ✓ SMO Migration Method ✓ DB Migration Schedules ✓ Detect, Fix Orphan Users
Ch 25: Linked Servers, Recovery ✓ Multi Server Installations ✓ Configure Instances ✓ Create & Test Linked Server ✓ RPC & RPC OUT ✓ Recovery Models ✓ Full, Simple, Bulk Logged ✓ Recommended Models For OLTP	Ch 26: 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 27: 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 28: 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 29: Tuning: Statistics, Updates ✓ Statistics: Realtime Use ✓ Automated Statistics ✓ Index Level Statistics ✓ Column Level Statistics ✓ Conditional Statistics ✓ Manual Stats Update ✓ Indexes Versus Statistics	Ch 30: Tuning: 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 31: Tuning Tools ✓ Tuning Tools: Workload Files ✓ Profiler Tuning Template, Events ✓ DTA, Profiler: Recommendations ✓ PDS: Physical Design Structures ✓ PDS Recommendations ✓ Query Execution Cache ✓ Tuning Tools: Precautions	Ch 32: Tuning: Execution Plans ✓ Execution Plan Analysis ✓ IO Cost and CPU Cost ✓ SubTree & Operator Cost ✓ NUMA Nodes, CPU Affinity ✓ Thread Count, DOP ✓ Table & Index Scan, Index Seek ✓ Index Selectivity & Tuning	Ch 33: 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 34: 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 35: 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 36: DB Health Checks, Repairs ✓ DBCC Commands in Realtime ✓ DBCC for Audits, Repairs ✓ MSDB Suspect Pages ✓ User Database Repairs ✓ Log Space Issues, Solutions ✓ TempDB Issues, Solutions ✓ Memory Issues, Solutions
Ch 37: 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 38: 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 39: 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 40: 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 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 ✓ 3rd Party Tools ✓ Common Errors & Solutions	✓ Login Failure Errors ✓ Slow Connection Issues ✓ Slow Database Issues ✓ Network Errors ✓ Security Strategies ✓ HA DR Strategies ✓ Common Error Code ✓ Need for Azure Cloud

Module 2: Azure SQL DBA

Ch 45: 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 46: 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 47: 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 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 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 50: Azure SQL DB Tuning, AI ✓ Automated Tuning Options ✓ Manual Tuning Options ✓ Server Level Tuning ✓ Database Level Tuning ✓ Create Index Option ✓ Drop Index, Seek Options ✓ Built-In Intelligence
Ch 51: Azure AI Search ✓ AI Search Service, Tuning ✓ AI Indexes, Practical Use ✓ Watermark Columns ✓ Triggers & Timestamp ✓ Filterable, Searchable ✓ Sortable, Facetable ✓ Indexer & Data Refresh	Ch 52: Azure Backups, Restores ✓ Azure Backups & Restores ✓ Automated Backups ✓ Backup Retention Options ✓ LTR, PITR & Differential ✓ Backup Audits from Portal ✓ Restores from SQL Server ✓ Restores from Azure Portal	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: HA DR @ DB Sync ✓ Data Sync Concept ✓ Hub, Member ✓ Sync Database Config ✓ Sync Agent Installation ✓ Registering Sync Servers ✓ Azure HA DR Mechanism ✓ Data Sync with Hub, Agent	Ch 56: Azure Security - 1 ✓ Azure SQL DB Security ✓ Logins & Users in master ✓ Logins & Users in SQL DB ✓ Grant, With Grant ✓ Deny & Revoke ✓ Role Based Security ✓ Role & Schema Security
Ch 57: Azure Security - 2 ✓ RLS & Users without Logins ✓ Dynamic RLS ✓ Dynamic Data Masking ✓ Creating AD Users & IAM ✓ Implementing RBAC ✓ Azure SQL Admin ✓ MFA Authentication	Ch 58: Azure VM ✓ Azure IaaS Implementation ✓ Configure Disk, Network ✓ Configure SQL Security ✓ CPU, Processor & IO ✓ IP & RDP Connections ✓ Testing SSMS Connections ✓ Migrating SQL DB to VM	Ch 59: Azure Clusters ✓ Azure Active Directory ✓ Azure AD DS Services ✓ Azure Networking Options ✓ Availability Groups, Usage ✓ Listeners and Realtime Use ✓ FSW: File Share Witness ✓ Azure PaaS: Limitations

Ch 60: SQL Clusters, Always-On ✓ Creating SQL Clusters ✓ Testing SQL Clusters ✓ Configure Always-On ✓ Testing, Using Always-On ✓ AOAG Implementation ✓ AOAG Monitoring Options ✓ Comparing Paas & IaaS	Ch 61: PowerShell ✓ Azure PowerShell ✓ Az and get Commands ✓ Creating Resources ✓ Lists & Validations ✓ Password Resets ✓ Firewall Config ✓ Resource Cleanups	Ch 62: Azure Managed Instance 1 ✓ Azure MI Implementation ✓ Choosing Region: Cautions ✓ Network Entities for MI ✓ Capacity Entities ✓ Processor & Memory ✓ Cloud Azure MI Access ✓ On-Premises MI Access
Ch 63: Azure Managed Instance 2 ✓ Azure MI Implementation ✓ Azure MI : SQL Server ✓ Azure MI : SQL DB Access ✓ Azure MI : Migrations ✓ Azure MI : DBA Concepts ✓ Azure MI : Backups, Restores ✓ Azure MI : HA DR, Security	Ch 64: DP 300 Exam Guidance 1	Ch 65: DP 300 Exam Guidance 2
Ch 66: SQL DBA Project & Resume		
This SQL DBA Course is 100% Practical, Step by Step. Reach us now !		

Module 3: ETL & DWH with Admin

Ch 1: ETL, DWH Introduction ✓ Database Introduction ✓ Data Warehouse (DWH) ✓ Data Engineering Work Flow ✓ 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 ✓ Linked Services & IRs ✓ Datasets, Pipelines, Triggers ✓ Copy Data Activity & CDT ✓ Data Loads Pipelines, DTUs	Ch 5: ADF Incremental Loads - 1 ✓ File Incremental Loads ✓ Storage Account, Data Lake ✓ Binary Copy, Schema Drift ✓ Staging Concept in ADF ✓ DOP, Logging & Consistency	Ch 6: ADF Incremental Loads - 2 ✓ Implement SCD with ADF ✓ Self Hosted IR: Realtime Use ✓ On-premise Data: Incr Loads ✓ Copy Method : Upsert, Keys ✓ Staging & ADF Optimizations

✓ Pipeline Monitoring, Edits Ch 7: ADF Data Flow - 1 ✓ Data Flow Transformations ✓ Spark Clusters for Debugging ✓ Optimized Clusters, Preview ✓ Conditional Split, SELECT ✓ Sort, Union Transformations ✓ Pipelines with Data Flow	✓ Polybase Concept & Tuning Ch 8: 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	✓ Pipeline Runs, Activity IDs Ch 9: ADF Data Flow - 3 ✓ Pivot Transformation ✓ Group By & Pivot Keys ✓ Column Pattern, Deduplicate ✓ Lookup, Cached Lookup ✓ Tuning Transformations ✓ Tuning Data Flow, Spark
Ch 10: Synapse Analytics - 1 ✓ Azure Synapse Analytics ✓ Dedicated SQL Pools ✓ TSQL: Stored Procedures ✓ Synapse Pipelines, Tuning ✓ SP Activity in Pipelines, Jobs ✓ Comparing ADF & Synapse	Ch 11: Synapse Analytics - 2 ✓ Serverless Pools in Synapse ✓ TSQL Scripts with Serverless ✓ ADLS Data Imports & ELT ✓ Synapse Aggregation, Analytics ✓ Synapse Optimizations ✓ Synapse Security & Logins	Ch 12: Synapse Analytics - 3 ✓ Apache Spark Pool & Usage ✓ Synapse Analytics with Pools ✓ PySpark Staging, Aggregations ✓ Spark Queries & Python ETL ✓ Python Notebooks, Pipelines ✓ Integrating Python with DWH
Ch 13: Parameters, SCD & ETL ✓ ADF Templates in Realtime ✓ Table Incremental Loads ✓ Control Tables, Watermarks ✓ Pipeline Parameters, SPs ✓ Dynamic Data Sets, SCD	Ch 14: CDC @ ETL, ELT & Tuning ✓ Using CDC in ADF ✓ Control Tables (CT): Upserts ✓ Handling Inserts, Updates ✓ SCD Type 1 & Type 2 ✓ ADF, Synapse : Limitations	
Ch 15: Azure Storage Explorer ✓ Storage, ETL, IoT Resources ✓ Azure Storage Components ✓ Azure Storage Account, HNS ✓ Azure Data Lake Storage ✓ Azure Storage Explorer Tool ✓ Storage Explorer Config ✓ Storage Account Properties	Ch 16: Azure Storage Operations ✓ BLOB Storage: Containers ✓ Storage Browser, Explorer ✓ File & Folder Uploads, Edits ✓ Azure Tables: Row Key ✓ Partition Key, Timestamp ✓ Use Cases of BLOB Storage ✓ Use Cases of Azure Tables	Ch 17: Azure Storage Security ✓ Realtime use of Keys ✓ Access Keys & Admin Access ✓ SAS Keys Generation, Ips ✓ Creating, Using Entra Users ✓ Azure AD Users, Groups ✓ IAM & RBAC with Entra Users ✓ ACLs and ADLS Security
Ch 18: 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 19: Azure Stream Analytics ✓ Azure IoT Hubs & Devices ✓ APIs with Connection Strings ✓ Azure Steam Analytic Jobs ✓ Inputs, Outputs, SAQL Query ✓ LIVE Feed: JSON, AVRO Files ✓ Watermark & LIVE Stats	Ch 20: Azure Stream Analytics ✓ Azure IoT Hubs & Devices ✓ APIs with Connection Strings ✓ Azure Steam Analytic Jobs ✓ Inputs, Outputs, SAQL Query ✓ LIVE Feed: JSON, AVRO Files ✓ Watermark & LIVE Stats

Ch 21: Azure Key Vaults, Alerts ✓ Azure Encryptions @ REST ✓ Azure Key Vaults & Keys ✓ SMK & CMK Encryptions ✓ Azure Metrics: Ingress ✓ Egress, E2E Latency Issues ✓ Performance Tuning Options	Ch 22: Azure Storage Optimization ✓ BLOB Types & Content Types ✓ Hot, Cool, Cold, Archive Types ✓ Creating, Using Access Policies ✓ Immutable Storage, Rotation ✓ Containerization, Indexing ✓ Replication: LRS, ZRS, RA-GRS	Ch 23: Azure Pricing, Functions ✓ Azure Logic Apps : Usage ✓ Log Apps Usage in ETL ✓ Snapshots, Azure Functions ✓ Azure Functions Realtime Use ✓ ETL & DWH with Functions ✓ Azure Resource Pricing
Ch 24: Azure Big Data & Spark ✓ Azure Big Data & Spark ✓ Azure ETL & DWH Databases ✓ Azure Spark, HIVE MetaStore ✓ Azure Databricks Service ✓ Spark Cluster (Personal) ✓ Unity Catalog & Azure VM	Ch 25: Spark Cluster Operations ✓ DBFS : Flat File Imports ✓ Table Conversions using GUI ✓ Spark Clusters: Table Creations ✓ Basic Transformations in Spark ✓ SQL Notebooks: Creation ✓ Default DB Queries, Cloning	Ch 26: Python & PySpark, ETL ✓ Python Fundamentals ✓ Python Dataframes: ETL ✓ Python For Big Data, Pandas ✓ Python Notebooks, Views ✓ Aggregated Loads to Spark ✓ Spark DB Creations, Tables
Ch 27: PySpark & ADLS, Widgets ✓ Creating Spark Databases ✓ Spark Tables, Catalog Info ✓ PySpark with ADLS Storage ✓ Using Widgets for ADLS Keys ✓ PySpark Variables & Widgets ✓ Using Variables in Functions ✓ Spark SQL with Control Text ✓ Using Variables in Spark SQL	Ch 28: ADB Jobs, Delta Tables ✓ Azure Databrick Jobs ✓ Azure Workflows & Tasks ✓ Notebook Schedule Options ✓ Continuous Jobs, Notifications ✓ Delta Tables & Data Cleansing ✓ SCD (Merge Into), Contact, etc ✓ Creating, Using Dataframes ✓ Multi Dataframe Joins	Ch 29: Scala Notebooks & ETL ✓ Scala Notebooks : Purpose ✓ Aggregated Data Loads ✓ Incremental Data Loads ✓ Widgets & Jobs with Scala ✓ Python Versus Scala ✓ Converting Python to Scala ✓ JVM Benefits, SQL DB Conn" ✓ SQL DB Loads with Scala
Ch 30: Databricks Architecture ✓ Azure Databricks Services ✓ Cluster Components & DBFS ✓ RDD, DAG, Photon, SpotLight ✓ Spark Partitioned Tables ✓ Cluster Manager: Spark Jobs ✓ Databricks Runtime (DBR) ✓ Databricks Security ✓ Workspace Security ✓ Notebook & Job Security	Ch 31: Medallion Architecture ✓ Medallion Architecture in ETL ✓ DWH Data Loads & Incr Loads ✓ Bronze, Silver & Gold Data ✓ Processing Raw Data Files ✓ Data Cleansing, Formatting ✓ Aggregation Advantages ✓ DBES & Node Architecture ✓ Unity Catalog Concept ✓ LUNs and Unity Catalog	Ch 32: Delta LIVE Tables (DLT) ✓ Creating Delta LIVE Tables ✓ DLT Pipelines in ETL, DWH ✓ Automated Incr Loads ✓ Control Tables, Timestamp ✓ SCD Type 1 with DLT ✓ SCD Type 2 with DLT ✓ Automated Merge Into Stmt ✓ Delta Tables Vs DLT ✓ Merge Into Vs DLT Pipeline
Real-time Project (Azure Data Engineer) + Resume Guidance		
Real-time Project for ETL Admin + Resume Guidance		

This above ETL Admin Course is 100% Practical, Step by Step. Reach us now !

contact@sqlschool.com

New batch Schedules: www.sqlschool.com/Register

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

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Ph: 9666 64 0801, 9666 44 0801

Trending Job Roles

- Data Analyst
- Data Engineer
- Data Architect
- Data Scientist
- Developer, more .. !

Training Highlights

- ✓ Step by Step
- ✓ LIVE Project(s)
- ✓ Job Assistance
- ✓ Resume Guidance
- ✓ Concept wise FAQs

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All the best!

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