

# SQL School

## Quality Training Assured

Complete Practical; Real-time Job Oriented Training

### Azure SQL Dev Training Plans

	PLAN A	PLAN B	PLAN C
<b>Course Details</b>	Azure SQL Dev	SQL Server Azure SQL Dev	SQL Dev Azure SQL Dev Azure DevOps
<b>Course Curriculum</b>	Chapters 21 to 30	Chapters 1 to 30	Chapters 1 to 48
SQL Basics and Query Writing	X	✓	✓
SQL DB Design, Table Design	X	✓	✓
Normal Forms, Joins and Queries	X	✓	✓
Stored Procedures, UDF, Triggers	X	✓	✓
Advanced Stored Procedures, TVP	X	✓	✓
CTE, XML, Triggers, PIVOT, Cursors	X	✓	✓
Dynamic T-SQL Programming	X	✓	✓
<b>Real-time Project [Banking]</b>	X	✓	✓
In-depth Query Tuning, Exec" Plans	✓	✓	✓
Index Management , Tuning Tools	✓	✓	✓
Locks, Deadlocks, Isolation Levels	✓	✓	✓
<b>MCSA Certification Exam - 70 761</b>	✓	✓	✓
Azure SQL Database Dev with T-SQL	✓	✓	✓
Azure Database Migrations, DTU	✓	✓	✓
Elastic Query Processing, Shard Maps	✓	✓	✓
<b>MCSA Certification Exam - 70 762</b>	✓	✓	✓
SDLC, Dev & Operations, DevOps	X	X	✓
DevOps Tools, Git & GitHub	X	X	✓
Docker, Kubernetes, AzureDevOps	X	X	✓
Azure Boards, Repos, Tests, Artifacts	X	X	✓
Azure Pipelines (CI, CD), Case Study	X	X	✓
<b>TOTAL DURATION</b>	2 Weeks	6 Weeks	10 Weeks

**Trainer** : Mr. Sai Phanindra T [16+ Yrs of Real-time Exp]. Profile @ [linkedin.com/in/saiphandra](https://www.linkedin.com/in/saiphandra)

# Azure SQL Developer

Training Module		Duration	Plan A	Plan B	Plan C
Module 1	SQL Server, T-SQL Programming, Project	4 W	X	✓	✓
Module 2	Query Tuning, Azure SQL Database Dev	2 W	✓	✓	✓
Module 3	Azure DevOps [Service and Server]	4 W	X	X	✓
<b>Total Duration</b>			<b>2 W</b>	<b>6 W</b>	<b>10 W</b>

## Module 1: SQL, T-SQL, Programming with Stored Procedures

Applicable for Azure SQL Dev Plans A, B, C

### Chapter 1: SQL SERVER INTRODUCTION

Data, Databases and RDBMS Software; Database Types : OLTP, DWH, OLAP; Microsoft SQL Server Advantages, Use; Versions and Editions of SQL Server; SQL : Purpose, Real-time Usage Options; SQL Versus Microsoft T-SQL [MSSQL]; Microsoft SQL Server - Career Options; Database Engine Component and OLTP; BI Components, Data Science Components; ETL, MSBI and Power BI Components; Course Plan, Resume, Project; 24 x 7 Lab; Software Installation Pre-Requisites;

### Chapter 2: SQL SERVER INSTALLATIONS

System Configuration Checker Tool; Versions and Editions of SQL Server; SQL Server Pre-requisites : S/W, H/W; SQL Server 2016 / 2017 Installation; SQL Server 2019 Installation; Instance Name; Instances : Types; Default Instance, Named Instances; Port Numbers; Service and Service Account; Authentication Modes and Logins; FileStream, Collation Properties;

### Chapter 3: SSMS Tool, SQL BASICS - 1

SQL Server Management Studio; Local and Remote Connections; System Databases: Master and Model; MSDB, TempDB, Resource Databases; Creating Databases : Files [MDF, LDF]; Creating Tables in GUI; Data Insertion & Storage; SQL : Real-time Usage; DDL, DML, SELECT, DCL and TCL Statements; Data Storage, Inserts - Basic Level; SELECT; Table Data Retrieval;

### Chapter 4: SQL BASICS - 2

Creating Databases & Tables in SSMS; Single Row Inserts, Multi Row Inserts; Rules for Data Insertion Statements; SELECT Statement @ Data Retrieval; SELECT with WHERE Conditions; AND and OR; IN and NOT IN; Between, Not Between; LIKE and NOT LIKE; UPDATE Statement; DELETE & TRUNCATE; Logged and Non-Logged Operations; ADD, ALTER and DROP Statements;

### Chapter 5: SQL BASICS - 3, T-SQL Introduction

Schemas : Group Tables in Database; Using Schemas for Table Creation; Using Schemas in Table Relations; Table Migrations across Schemas; Default Schema : "dbo"; Import and Export Wizard; Bulk Operations; Excel File Imports / Exports; SQL Server Native Client; Executing SSIS Packages, Data Loads; Local and Global Temporary Tables; # & ## Prefix; Temporary Vs Permanent Tables;

## **Chapter 6: CONSTRAINTS & INDEXES BASICS**

Constraints and Keys - Data Integrity; NULL, NOT NULL Property on Tables; UNIQUE KEY Constraint; PRIMARY KEY Constraint; FOREIGN KEY Constraint, References; CHECK Constraint; DEFAULT Constraint; Identity Property : Seed & Increment; Database Diagrams and ER Models; Relationships Verification and Links; Indexes : Basic Types and Creation; Index Sort Options, Search Advantages; Clustered and Non Clustered Indexes; Primary Key and Unique Key Indexes;

### **REAL-TIME CASE STUDY - 1 (SALES & RETAIL)**

## **Chapter 7: JOINS and TSQL Queries : Level 1**

JOINS - Table Comparisons; INNER JOINS For Matching Data; OUTER JOINS For (non) Match Data; Left Outer Joins; Right Outer Joins - Example Queries; FULL Outer Joins; One-way and Two Way Comparisons; "ON" Conditions; Join Unrelated Tables; NULL, IS NULL in Joins; CROSS JOIN and CROSS APPLY; Join Options: Merge, Loop and Hash Joins; Performance Advantages;

## **Chapter 8: GROUP BY, T-SQL Queries : Level 2**

GROUP BY Queries and Aggregations; Group By Queries with Having Clause; Group By Queries with Where Clause; Using WHERE and HAVING in T-SQL; Rollup : Usage and T-SQL Queries; Cube : Usage and T-SQL Queries; UNION and UNION ALL Operator; EXISTS Operator, Query Conditions; Sub Queries; Joins with Group By Queries; Nested Sub Queries; UNION and UNION ALL; Nested Sub Queries with Group By, Joins; Comparing WHERE, HAVING Conditions;

## **Chapter 9: JOINS & T-SQL Queries : Level 3**

GetDate, Year, Month, Day Functions; Date & Time Styles, Data Formatting; DateAdd and DateDiff Functions; Cast and, Convert Functions in Queries; String Functions: SubString, Reliccate; Len, Upper, Lower, Left and Right; LTrim, RTrim, CharIndex Functions; MERGE Statement - Comparing Tables; WHEN MATCHED and NOT MATCHED; Incremental Load with MERGE Statement; IIF() Function for Value Compares; CASE Statement : WHEN, ELSE, END; ROW\_NUMBER() and RANK() Queries; Dense Rank and Partition By Queries;

## **Chapter 10: View, Procedure, Function Basics**

Views : Types, Usage in Real-time; System Predefined Views and Audits; Listing Databases, Tables, Schemas; Functions : Types, Usage in Real-time; Scalar, Inline and Multi-Line Functions; System Predefined Functions, Audits; DBId, DBName, ObjectID, ObjectName; Variables & Parameters; User & System Predefined Procedures; Parameters; Sp\_help, Sp\_helpdb and sp\_helptext; sp\_pkeys, sp\_rename and sp\_help; When to use Which Database Objects;

## **Chapter 11: Triggers & Transactions**

Triggers - Purpose, Real-world Usage; FOR/AFTER Triggers; INSTEAD OF Triggers; INSERTED, DELETED Memory Tables; DML Automations using Memory Tables; Read Only Tables using DML Triggers; Enable Triggers and Disable Triggers; Database Level, Server Level Triggers; Transactions & ACID Properties; Auto Commit; EXPLICIT & IMPLICIT; COMMIT and ROLLBACK; Open Transaction; Query Blocking Scenarios @ Real-time; NOLOCK and READPAST Lock Hints;

## **Chapter 12: ER MODELS, NORMAL FORMS**

Normal Forms for Entity Relationships; First, Second, Third Normal Forms Usage; Boycee-Codd

Normal Form: BNCF : Usage; 4 NF, EKNF, ETNF. Functional Dependency; Multi-Valued, Transitive Dependencies; Composite Keys and Composite Indexes; 1:1, 1:M, M:1, M:M Relationship Types; SQL Queries Access in Reporting Tools; Storing SQL Queries into Views; Creating Office Data Connection Files; Excel Pivot Reports and Reports; SQL Queries (Auto Generated) in BI Tools; FETCH OFFSET, NEXT ROWS; Data Refresh (Manual, Automated);

## **REAL-TIME CASE STUDY - 2 (Sales & Retail), EXCEL INTEGRATION**

### **Chapter 13: STORED PROCEDURES - Level 2**

Table Valued Parameters (TVP); READONLY Parameters - Stored Procs; OUTPUT Parameters - Stored Procedures; User Data Types & Real-time Use; Dynamic Data Insertions with SPs; Table Cloning, Inserts @ Table Variables; SQL Injection Attacks - Precautions; CTE : Common Table Expressions; Real-time Scenarios with CTEs; Recursive and Non-Recursive CTEs; CTEs for Avoiding Self Joins & Sub Queries; Recursive CTEs and ANCHOR Element; Termination Checks in Recursive CTEs; Loops with Recursive CTEs; Date, Time in CTEs; Disadvantages with CTEs;

### **Chapter 14: STORED PROCEDURES - Level 3**

DML Triggers and DDL Triggers; FOR and INSTEAD OF Triggers; Magic Tables : Inserted, Deleted; Views on Tables - SCHEMABINDING; ENCRYPTION and CHECK OPTION; Cascaded Views, Encrypted Views; Updatable Views, Joins with Triggers; Cursors in SProcs; ForwardOnly, Scroll & Local Cursors; Static, Dynamic & Global Cursors; Keyset Cursors and @@FetchStatus; Nested Stored Procedures; Formatting and WHILE Loops; Temporary Tables for Formatting;

### **Chapter 15: XML, BLOB, FUNCTIONS - Level 2**

Functions : Types, Real-world Usage; Scalar Value Returning Functions; Inline Table Value Functions; Multi-Line Table Value Functions; WHILE Loops and Iterations in T-SQL; Table Variables in T-SQL; Data Type Conversions; Composite Keys , Computed Columns; Self Referencing Keys, Self Joins; Adding Keys to Existing Tables; XML AUTO, XML RAW and XML PATH; BULK INSERT, BULK COLUMN & JSON; OPENROWSET; JSON, PIVOT and UNPIVOT Functions;

### **Chapter 16: SQL SERVER & DATABASE ARCHITECTURE**

Server Architecture and Protocols; Database Engine and Query Processor; Parser, Optimizer, SQL & DB Manager; Storage Engine Components, SQL OS; File Manager and Database Files; Transaction Services, Buffer Manager; Lock Manager, IO Manager, MDAC; CLR, WAL, Lazy Writer, Checkpoint; Database Architecture - Data Files; Database Architecture - Log Files; Primary (mdf), Secondary Files (ndf); Filegroups Usage, ReadOnly Filegroups; Database Files : Size and Location; Pages, Extents. Uniform, Mixed Extents; Transaction Log File [LDF], LSN, VLF;

### **Chapters 17 - 20: REAL-TIME PROJECT (BANKING) [Includes 2000 Lines of Code]**

#### **Phase 1: DATABASE DESIGN**

End to End Project Work Flow; Naming Conventions in Real-time; Implementing Normal Forms (OLTP); Computed Columns; SQL\_Variant, Bit, sysname; Email & Phone Number Validations;

#### **Phase 2: QUERY DESIGN**

Joining Tables for Reports; Views with JOIN Options; Implementing Indexed Views; Using PIVOT

Tables in Queries; PIVOT and UNPIVOT in T-SQL Queries; Dynamic Conditions in Queries;

### **Phase 3: PROGRAMMING**

Event Handling , Error Handling; Stored Procedures with Transactions; Error Handling, Event Handling; Transaction Nesting, Save Points; Stored Procedures with Tables, Views and Functions; Automating DML with Triggers; Project Deployments, Project FAQs;

## **Module 2: Performance Tuning & Azure SQL Dev**

Applicable for T-SQL Plans B, C

### **Chapter 21: Tuning 1 - AUDITS, INDEXES FOR TUNING**

Audit Long Running Queries @ DMVs and DMFs; Activity Monitor and Query Statistics; Logical I/O, Physical I/O, Database I/O, Wait Time; Recent Expensive Queries, Active Expensive Queries; Plan Handle & Execution Time; Server Dashboards; Query Store - Settings and Advantages. Options; Indexes: Architecture; B Tree Structure, IAM [Root]; Clustered & Non Clustered; Included, Column store, Online; Filtered, Covering, Indexed Views; Fill Factor & Pad Index;

### **Chapter 22: Tuning 2 - PARTITIONS, INDEX MANAGEMENT**

PARTITIONS Mechanism : Advantages, Performance; Partition Functions and Partition Schemes ; Partitioning Un-partitioned Tables; Partition Compression: ROW, PAGE; Statistics : Auto Creation & Updates; Index Management : Internal, External Fragmentation; Fragmentation Audits : DMFs and Thresholds; Index Reorganization and Index Rebuild Options; Database Maintenance Plans (DMP) For Index Reorg; Page Count, Last Used. Fast, Sampled / Detailed Scan; Statistics & Index Management : Degree Of Parallelism; Resumable Indexes: ONLINE, RESUME;

### **Chapter 23: QUERY TUNING 3 - TUNING TOOLS, LOCKS, ISOLATION LEVELS**

Tuning Tools; SQL Profiler - Tuning Template; DTA Tool; Perfmon Counters; Index Scan, Index Seek, Tables Scan, Spooling; Query Costs : IO, CPU Cost, SubTree Cost, Operator Cost; NUMA Nodes, IO Affinity; Parameter Sniffing; Execution Plan; Shared (S), Intent Shared (IS); Exclusive (X), Intent Exclusive (IX); Update (U), Metadata Lock (MD); Schema Lock; SP\_WHO2, SP\_LOCK, sysprocesses; Isolation Levels - Read Committed, Read Uncommitted; Serializable, Snapshot, Repeatable Read; Read Committed Snapshot; Deadlock Simulation, Prevention & Avoidance;

### **Chapter 24: Tuning 4 - LOCKS, MEMORY TABLES, TEMPORAL TABLES**

Full Text Search (FTS) - Architecture, Tuning; Stop Words, Stemmer and Thesaurus; Indexer Program, Query Processor & FT Query Compilation; DB Catalogs (FTC) and FDHost.exe. Daemon Threads; Filter Daemon Host; CONTAINS() Queries and FREETEXT() Queries; Resumable Indexes, ONLINE, RESUME, PAUSE, MAX\_DURATION; In-Memory Tables : Creation and Practical Usage for Tuning; Memory Snapshots; FileStream Files and Memory Snapshot Filegroups for MOT; MEMORY\_OPTIMIZED\_ELEVATE\_TO\_SNAPSHOT; Temporal Tables : for DML Audits, System Versioning; Temporal Tables : Data Audits, Timestamps; Statistics : Auto Creation and Updates;

### **Chapter 25: MCSA 70-761 Exam Guidance + Material**

### **Chapter 26: AZURE CLOUD INTRO, CONFIGURATION**

Cloud Architecture Basics - IaaS, PaaS and SaaS; Advantages of Microsoft Cloud - Azure Platform; Azure Products and Azure Services - Marketplace; SQL Database Implementations in Azure Platform; Logical Servers, Virtual Machines, Managed Instance; Installing SSMS and Azure Data Studio (ADS) Tools; Azure Account and Free Subscriptions; Azure SQL Server (Logical Server); Firewall Settings; IP for Remote Access; Password Resets; Pricing Tiers, Access from SSMS Tool;

### **Chapter 27: DTU, ELASTIC QUERIES, DATABASE MIGRATIONS**

DTU : Data Transaction Unit, Resource Allocations; Basic, Standard & Premium Plans For SQL DB; vCore Based Purchasing : Gen 4 and Gen 5 Types; General Purpose & Business Critical Plans; Compute Tier : Provisioned and Serverless; Bounding Box Model, Elastic Pools & Queries; eDTUs and Elastic Pool, per DB Settings; Azure Storage : Creation & Containers; LRS, GRS and RA-GRS Azure Storage Accounts; Storage Containers, Storage Explorer Tool Usage; Data Migration Assistant (DMA), Assessment; Migrations To Azure SQL; DB Exports and Imports with bacpac; Migration Scopes : Schema, Data, Schema & Data; Schema Generation & Compatibility.

### **Chapter 28: AZURE SQL DATABASE TUNING**

Azure SQL Server Level Tuning Options; Azure SQL Database Level Tuning; Automated Tuning; Force Plan, Create Index and Drop Index; Query Performance Insight, Recommendations; IO Metrics, CPU Metrics & Query Statistics; Data File IO, Log File IO, Custom Reports; Recommendations; Azure Search Service; Suggester and Analyzer; Retrievable, Facetable, Filterable Indexes; Facetable; Change Tracking Options, Watermark Columns;

### **Chapter 29: XEL GRAPHS, STRETCH DATABASES**

SQL Traces : Creation; SQL Traces : Event Class, Category, Filter, Conditions; Extended Events Package, Target, Action, Session; TSQL and SP Debug Events; XE Objects : Catalog & Dynamic Management Views; XE Profiler - Event Profiling; Stretch Databases in Azure SQL Databases; Stretch Databases; Performance Levels and DSU Pricing; Data Storage and Snapshots; Hybrid Cloud Settings; Remote Data Archive; Database Master Key [DMK], Cold Data Migration;

### **Chapter 30: MCSA 70-762 Exam Guidance + Material**

## **Resume Preparation, Mock Interviews**

### **Module 3: Azure DevOps { For Azure SQL Dev Plan C }**

#### **Chapter 31: Azure Fundamentals**

Basics of Cloud Computing; Cloud Services: Advantages; Cloud Services: Product Models; Virtualization Concepts in Cloud; Comparing On-Premise with Cloud; DevOps : Introduction, Use; Azure Cloud : Features, Advantages; Azure Cloud : Services & Usage; Azure Cloud : Platform Components; Azure Resources, Service Types; Azure PaaS, IaaS & SaaS; Azure Account Creation, Resources;



### **Chapter 32: Azure Services, Configurations**

Azure Registration and Azure Portal; Azure Resources and Azure Services; Azure Resource Types, Resource Groups; Creating Resource Groups in Azure Portal; Resource Groups: Access, Advantages; Cost and Billing Management; Azure Storage Account Creation; Storage Account Types, Replication; Azure BLOB Data Storage Containers; Azure Storage Explorer Tool; Uploads, Imports, SAS and Access Key; Azure File Storage and On-Premise Access;

### **Chapter 33: Azure Active Directory, Monitoring**

Azure Active Directory Service; Azure AD : Users, Tokens & Passwords; Azure AD : Groups, Members, Owners; Azure AD : App Registrations, Tokens; Service Principals and Real-time Use; Identity & Access Management (IAM); Azure Monitoring and Metrics; Azure Dashboards and Counters; Customizations and Usage Reports; Azure Alerts and Conditions; Notifications: Push/Email/SMS; Log Analytics and Health Checks;

### **Chapter 34: SDLC, Dev & Operations, DevOps**

Software Development Life Cycle; SRS Documents and Principles; Design, Planning and Coding; Coding Techniques and Tools; Testing Operations, Issues; UAT, Production Deployment Issues; Need for DevOps Services; Life Cycle Management; Automations and Code Control; DevOps Tools and Techniques; DevOps : Advantages, Benefits; DevOps Engineers: Job Roles;

### **Chapter 35: DevOps Tools, Git & GitHub**

DevOps Tools & Life Cycle Stages; Continuous Development (CD); Continuous Integration (CI); Planning Phase: UML Tools; Code: Visual Studio, Git; Build: Maven and Gradle; Test: Selenium and JUnit; Release: Jenkins, Bamboo; Deploy: Puppet, Chef, Ansible; Operate: Visual Studio Options; Monitor: NewRelic, Splunk; Git & GitHub For Code Store;

### **Chapter 36: Docker, Kubernetes, AzureDevOps**

Introduction to Docker in Azure; Understanding Docker Lifecycle; ACI Containers and Options; Introduction to Kubernetes in Azure; Kubernetes Lifecycle Implementation; Azure Kubernetes Containers, Options; Azure DevOps : Advantages; Azure DevOps: Services; Azure Boards, Azure Repos; Azure Pipelines and Real-time Use; Azure Test Plans and Artifacts; VSTS Versus Azure DevOps;

### **Chapter 37: Organizations & Projects**

Azure DevOps: Implementation Plan; Creating and Using Organizations; Planning and Security Advantages; Region Specifications and Owners; Users and Resource Limits; Azure DevOps - Org Notifications; Azure Projects - Creation, Use; Public and Private Projects; Version Control: Git and TFS; Work Item Process: Agile; Basic, CMM and Scrum Options; Security, Teams, Dashboards;

### **Chapter 38: Azure Boards**

Azure Boards - Creation, Use; Work Item - Fields & Sprints; Kanban Boards, Item Tracking; Backlogs and Code Testing; Bugs and Feature Requests; Team Dashboards, Monitoring; Azure Boards with Agile Process; Azure Boards For CMMI Process; Azure Boards For Scrum Process; Change Column & Queries; Style Rules and Highlight Cards; Color Tag & Work Item Cards;

### **Chapter 39: Azure Repos**

Azure Repository (Repo), Storage; Distributed Versus Centralized; Azure DevOps Repos: Cloning; Commit, Push and Pull Options; Branch & Branch Policies; Fork, Git and WorkFlow; Git Versus TFVC, Customizations; Public Projects and Pull Requests; Notification Options in Repos; Team Foundation Version Control; Git and TFS Projects in DevOps; Azure Repos with Slack;

### **Chapter 40: Azure Pipelines For CI/CD - 1**

Azure Pipelines - Architecture, Creation; Azure Pipeline Creation Ecosystem; Continuous Integration (CI); Continuous Development (CD); Build Pipeline in Azure DevOps; Key Concepts, Real-time Use; Creating Pull and Push Requests; Release Pipelines - Creation, Use; Multi Stage Release Pipelines; New Branch Options with Pipelines; Classic Release Pipelines; Classic Editor - Pipeline Creation;

### **Chapter 41: Azure Pipelines For CI/CD - 2**

Continuous Integration Pipelines; PreDeployments in Azure devOps; WorkTeam Correlation Options; Azure Pipelines - Customizations; GitHub with Azure Active Directory; GitBub with DevOps Integration; Pipeline Creation Comparisons; AzurePipelines for YAML; Agent, Approvals and Artifacts; Caching, Conditions and Jobs; Classic Builds and Class Release; Dependencies, Job Deployments;

### **Chapter 42: Azure Testing & Artefacts**

Azure Testing Options in DevOps; Manual Testing in Kanban; Manual Testing in Test Manager; UAT and Test Tracking; Test Case Explorer in DevOps; Stakeholder Feedback; Azure Artifacts and Feeds; Single Feeds & Multi Feeds; Nuget, npm, Maven with DevOps; Versions and Compatibility; Retention Policies with Artifacts; Maven Central Upstream Sources;

### **Chapter 43: Azure Functions, App Service, Alerts**

Azure Functions and Automations; Azure Event Notifications, Audits; Azure App Services & Webapps; Build, Deployment and Scaling; Azure App Service Migrations; Azure Apps Versus DevOps; Azure Monitoring and Alerts; Notification Options in Azure; Alert Management, Operators; Creating, Managing Alert Rules; RBAC , Continuous Monitoring; Smart Groups and Performance;

### **Chapter 44: Azure DevOps Resources in Portal**

Azure DevOps Services From Portal; Application Insights and Logs; Log Analytics and Storage Account; API Management Services; API Connections in Azure; Azure DevOps Organizations; DevTest Labs From Azure Portal; Build Apps with Azure DevOps; Azure Pipelines and Samples; Plan and Buld Tasks in DevOps; Setup Azure DevOps Org Account; Create & Publish Azure Pipelines;

### **Chapter 45: Azure DevOps Starter, App Insights**

Azure DevOps Starter Deployments; Migrations from Git Repository; Continuous Integration (CI); Continuous Delivery (CD); Item Pipeline and Workflow; Azure DevOps Pipelines; DevOps Starter, Github Integration; DevOps Starter, DevOps Integration; DevOps Starter Vs Azure DevOps; Github Actions & Azure DevOps; Azure DevOps to Azure VM; Examine CI and CD Pipelines;

### **Chapter 46: Power Shell & Azure DevOps**



Azure Power Shell and DevOps; Power Shell Installations; Power Shell in Azure Portal; Creating Resources in Portal; Creating Pipelines in PowerShell; YAML Snippet and Arguments; Writing Sample Apps, Builds; Writing Warnings and Errors; Powershell with Multiple Args; Service Fabric Manifests; Publish Test Results in DevOps; Run Functional Test Results;

### **Chapter 47: DevOps Server - Configurations**

Azure DevOps Server - Advantages; On-Premise Configurations for Server; Code Share, Track Work and Shipping; Visual Studio Team Foundation Server; Azure DevOps Server - Installation; Criterion for Azure DevOps Server; SQL Server Installation for DevOps; Database Engine, FullText Search; Services and Service Account, Agent; SSMS Tools Installation for Access; Server Connections, Authentication; Database Creation using SSMS;

### **Chapter 48: DevOps Server & Visual Tools**

Privacy Advantages with DevOps Server; XML Definition Files and Options; Build Server Configurations; Content Version and Projects; General Administration Tasks; Server Level Administration Tasks; Adding Users to Projects; Grant and Restrict Permissions; Set Code & Test Properties; Area and Iteration Paths; Adding Teams and Scaling; Billing Items & Monitoring;

<b>Email :</b> contact@sqlschool.com <b>Skype:</b> SQL School Training Institute <b>Website:</b> www.sqlschool.com	<b>Call Us (India) : 24 x 7</b> +91 9666 44 0801 +91 9666 64 0801
<b>Trainer Contact:</b> saiphanindrait@gmail.com +91 9030040801	<b>Call Us (USA / Canada) : 24 x 7</b> +1 956.825.0401

## **Training Modes:**



**Trainer Profile :** <http://linkedin.com/in/saiphanindra>  
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