SQL Server & T-SQL Course

Complete Practical & Real-time Training

Training Highlights

- Complete Practical
- Resume Preparation
- 24x7 LIVE Server, Lab
- Material & Practice Labs
- MCSA Certification Guidance
- Real time Projects For Resume
- 100%Job Orientation, Support
- Queries: Basic to Advanced
- SubQueries, Nested Queries, Joins
- Excel Integration with SQL Server
- Stored Procedures: Basic to Advanced.
- Query Tuning with CTEs & Isolations
- Azure Cloud Migrations with SQL DB
- Real-time Project Work @ End - End

Trainer: Mr. Sai Phanindra Tholeti is a Database Consultant, Microsoft Certified Trainer with more than 13 years expertise. He is rendering impeccable, highly interactive, friendly and highly technical Trainings on Microsoft SQL Server Developer, SQL DBA, MSBI (SSIS, SSAS, SSRS), Power BI and Azure to our Corporate Clients: Infosys, MindTree, ADP, Infotech, PrimeHealth. Profile @ http://www.linkedin.com/in/saiphanindra

For Free Demo: Call us on +91 9666 44 0801 [INDIA] or +1 500 400 4845 [USA] - 24 x 7

To speak to Trainer: Whatsapp at +91 9030040801 or mail to saiphanindrait@gmail.com

Mock Interviews, Interview & Resume Guidance & Study Material are included in this course.

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# SQL Server, T-SQL & Developer Training - Plans

<table>
<thead>
<tr>
<th></th>
<th>PLAN A</th>
<th>PLAN B</th>
<th>PLAN C</th>
<th>PLAN D</th>
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<tr>
<td><strong>Applicable For</strong></td>
<td>Data Analysts</td>
<td>SQL Developers</td>
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<td>SQL Developers &amp; Azure SQL DB (Cloud)</td>
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**Training Highlights:**

1. Resume Preparation & Guidance are included in every plan
2. Chapter wise Mock Interviews and Detailed Explanations, Answers
3. 24 x 7 LIVE Online Lab Access with Real-time Databases for SIX Months
4. Real-time Project with Complete Explanation & LIVE Deployments [Go LIVE]
5. Basic to Advanced Training Classes with 100% Practical and 100% Real-time
6. Every concept from the course curriculum will be discussed practically with Examples
SQL Server & T-SQL : Complete Course Plan

<table>
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<tr>
<th>Module</th>
<th>Course Description</th>
<th>Applicable For</th>
<th>Duration</th>
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<tr>
<td>Module 1</td>
<td>SQL Basics, Basic Queries, SQL Server Architecture</td>
<td>Plan A, B, C, D</td>
<td>1 Weeks</td>
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<td>Module 2</td>
<td>Queries, Joins, Group By, Data Formatting, Excel</td>
<td>Plan A, B, C, D</td>
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<tr>
<td>Module 3</td>
<td>SQL Database Development, Programming</td>
<td>Plan B, C, D</td>
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<tr>
<td>Module 4</td>
<td>Query Tuning, Extended Events, Programming</td>
<td>Plan C, D</td>
<td>1 Week</td>
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<td>Module 5</td>
<td>SQL Database in Azure Cloud (Azure SQL)</td>
<td>Plan D</td>
<td>1 Week</td>
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Total Dur : 5.5 W

Module 1: SQL Basics, Basic Queries, SQL Server Architecture

Applicable for Plans A, B, C, D

Day 1: DATABASE & SQL SERVER BASICS
Introduction to Data, Databases, DBMS; Database Basics : Types of Databases; DB Types: OLTP, OLAP, DWH, HTAP; Microsoft SQL Server : Advantages; SQL, Transact SQL (T-SQL) Variants; Microsoft SQL Server - Career Options; SQL Developers : Job Responsibilities; BI Developers : Roles, Responsibilities; Data Analyst : Roles, Responsibilities; Business Analyst Vs Data Analyst; Course Plan, Mock Interview Details; Real-time Project Details For Resume
24x7 LIVE Server Access (Online Lab);

Day 2: SQL SERVER INSTALLATION
SQL Server 2019 Installation Guidance; SQL Server 2017 and 2016 Installation; Installation Pre-Requisites and Precautions; SQL Server Management Studio (SSMS); SSMS - SQL Server Instance Connections; SQL Server Versions, Editions Comparisons; Evaluation, Developer Editions - Instances; Instances, Instance Types & Instance IDs; System Administrator Users @ Instance; Windows Authentication Type and its Use; Mixed Mode Authentication Type and Use; Default Admin Account in SQL Server : "sa"; SQL Server Services and Service Accounts; File Stream and Collation in SQL Instances;

Day 3: BASIC SQL QUERIES - Level 1
DDL, DML, SELECT, DCL and TCL; Creating SQL Databases and Tables; CREATE, ALTER, DROP Statements; INSERT, UPDATE, DELETE Statements; Data Inserts, Values and Table Scan; Data Types & their Usage (Basic Level); INTEGER, CHAR, FLOAT Data Types; Character Range for Character Data; INSERT and INSERT INTO Statements; Single Row Inserts, Multi Row Inserts; SELECT Statement for Table Retrieval; WHERE Examples : =, !=, <, >, <=, >=; AND, OR, NOT, IN, NOT IN Conditions; BETWEEN, NOT BETWEEN Conditions;

Day 4: BASIC SQL QUERIES - Level 2
CHAR Versus VARCHAR Data Types; VARCHAR & NVARCHAR Data Types; GO Statement, SQL BATCH Concept; BIGINT, BIT, SQL_Variant Data Types; IS NULL, NOT NULL. LIKE, NOT LIKE; ORDER BY with ASC, DESC Options; DISTINCT, TOP and COUNT() Options; FETCH, OFFSET, NEXT ROW Options; UNION, UNION ALL and Sub Queries; Single Quotes, Double Quotes, Aliases; UPDATE : Conditional & Unconditional; DELETE and TRUNCATE Commands; ALTER Command DROP Command;

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### Day 5: SERVER ARCHITECTURE, DATABASE ARCHITECTURE

Client Server Architecture, TDS Packets; SNAC and OLE DB Command for TDS; TDS Packets and SQL Query Processing; SQL Server Architecture Components; Protocols, SQL Native Client (SNAC); Query Optimizer (QO) and SQL Manager; Storage Engine, File and DB Manager; Transaction Manager and Lock Manager; Buffer Manager, SQL OS and IO Buffer Synchronization and Thread Scheduler; Logs, Checkpoints, Virtual Log File (VLF); DB Data Files (mdf) and Log Files (ldf); Primary/Secondary Files (ndf), Filegroups; Write Ahead Log (WAL) and Lazy Writer; Log Sequence Number (LSN), Mini LSN.

### Day 6: CONSTRAINTS - Level 1

Constraints, Keys - Table Data Integrity; NULL, NOT NULL Property on Tables; UNIQUE KEY Constraints: Importance; PRIMARY KEY Constraint: Importance; FOREIGN KEY Constraint: Importance; REFERENCES, OLTP Relational Tables; CHECK, DEFAULT Constraints Usage; Candidate Keys and Identity Property; Normal Forms : 1 NF, 2 NF and 3 NF; BCNF, 4 NF, EKNF and ETNF Designs; Schemas - Purpose. Using DBO schema; User Defined Schemas & Data Transfer; Database Diagrams, PK-FK Base Tables; Local Temporary Tables and Sessions; Global Temporary Tables and Connections.

### Module 2: Queries, Joins, Group By, Data Formatting, Excel

Applicable for Plans A, B, C, D

### Day 7: JOINS AND QUERIES - Level 1

JOINS - Types and Real-time Usage; JOIN Types and JOIN Options in T-SQL; INNER JOIN - Examples, WHERE, ON; OUTER JOIN - LEFT, RIGHT, FULL; CROSS JOIN and CROSS APPLY MERGE JOIN - Joining Bigger Tables; LOOP JOIN - Joining Smaller Tables; HASH JOIN - Joining HEAP Tables; GROUP BY Queries and Aggregations; GROUP BY Queries with Having Clause; ROLLUP, CUBE Queries with Group By; Grouping () Functions in Rollup, Cube; Replacing Nulls: ISNULL, COALESCE;

### Day 8: SUB QUERIES, JOINS - Level 2

Joining 2 Tables with Group By, Having; Joining 3 Tables with Group By, Having; Joining 4 Tables with Group By, Having; Using MERGE and ROLLUP with Joins; Sub Queries Versus Joined Queries; Nested Queries and Joins in WHERE; Nested Sub Queries with JOIN Options Cast and Convert Functions – Usage; Date, Time Functions, Sub Queries; DateAdd, DateDiff, Date Time Types; Date & Time Styles Usage in Queries; Data Formatting Options in Queries; Using Date and Time Formats in Joins; Join Queries - Aggregations, Formats;

### Day 9: INDEXES, VIEWS QUERIES

Indexes: Architecture and Types; Clustered and Non Clustered Indexes; Included and ColumnStore Indexes; FILTERED and COVERING Indexes; UNIQUE Indexes, Query Optimizer; LIVE Online Indexes in Real-time; B Tree Structures and IAM Pages; Tuning Joined Queries, Conditions; Views on Tables – SCHEMABINDING; ENCRYPTION and CHECK OPTION; Orphan Views - Real-world Solutions; Cascaded Views, Encrypted Views; System Views for Metadata Access; Indexed Views / Materialized Views;
Day 10: Functions, Procedures - 1
Scalar Value Returning Functions; Inline Table Functions, Dynamic Joins; Multi-Line Table Functions Usage; Table Variables and Table Data Type; Variables & Parameters in SQL Server; OBJECTID, OBJECTNAME Functions; System Functions & Metadata Access; Stored Procedures - Purpose, Usage; IF .. ELSE and ELSE IF Conditions; Using Procedures with Parameters; Recomilation of Stored Procedures; Sp_help, Sp_helpdb and sp_helptext; Sp_recompile, sp_pkeys System SPs;

Day 11: TRIGGERS, TRANSACTIONS
Triggers - Purpose, Types Of Usage; DML Triggers - Events, Practical Use; FOR/AFTER Triggers - Real time Use; INSTEAD OF Triggers - Real time Use; INSERTED, DELETED Memory Tables; Enable Triggers and Disable Triggers; Database Level DDL Triggers - Usage Server Level DDL Triggers – Usage; COMMIT and ROLLBACK Statements; EXPLICIT & IMPLICIT Transactions; Auto Commit Transaction, ACID Options; Conditional Commits and Rollbacks; Open Transactions and Query Impact; Query Blocking Scenarios @ Real-time; NOLOCK and READPAST Lock Hints;

Day 12: REAL-TIME CASE STUDIES, EXCEL INTEGRATION

SCENARIO 1: HEALTHCARE DOMAIN
✓ Writing Queries : Joins and Group By
✓ Joining 2 and More Tables with Data Formatting
✓ Writing Sub Queries with Joins and Nested Sub Queries
✓ ROW_NUMBER and RANK Functions for Data Formatting
✓ DENSE_RANK, PARTITION BY Queries for Data Formatting

SCENARIO 2: SALES & RETAIL DOMAIN
✓ Excel File - Imports and Exports with Real-time Usage
✓ Excel Pivot Tables and Pivot Charts with Field Formatting
✓ Excel ODC Connections in Real-time with Reuse & Refresh
✓ CASE and IIF() Conditional Queries with SELECT, FETCH
✓ String Functions with JOIN Queries, Sub Queries & Nested Queries

Module 3: SQL Database Development, Programming
Applicable for Plans B, C, D

Day 13: STORED PROCEDURES - LEVEL 2
SQL Injection Attacks - Type Precautions; Views on Joins - Stored Procedures; Updatable Views with Trigger Programs; Transactions with Transactions, Procedures; Error Handling in T-SQL: TRY & CATCH; Error Handling, THROW in Stored Procedures; Table Valued Parameters (TVP) - Usage; READONLY Parameters - Stored Procedures; OUTPUT Parameters - Stored Procedures; User Defined Data Types, Real-time Use; Data Validations with Stored Procedures; Dynamic Data Insertions with Stored Procedures; Table Cloning, Data Inserts @ Table Variables;

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### Day 14: LINKED SERVERS & CTEs - CURSORS BASICS
Linked Servers - Creation and Tests; sp_addlinkedserver System Procedures; Linked Server Security, Remote Logins; RPC and RPC Out. Data Access Modes; Four Part Naming Conventions - Options; Using Linked Servers for Remote Joins; Tuning Remote Join Queries, Options; CTEs: Common Table Expressions; Using CTEs for Data SELECT, FETCH; Using CTEs for Insert, Update, Delete; CTEs for In-Memory Data Storage; Overview of Cursors and FETCH; Cursor Types and KEYSET Indexes; SQL Browser Service & SSCM Tool.

### Day 15: STORED PROCEDURES - LEVEL 3
CTE : Common Table Expressions; Real-time Scenarios with CTEs - Usage; ROW_NUMBER() with CTE Queries; Using CTEs for Avoiding Self Joins; Using CTEs for Avoiding Sub Queries; Recursive CTEs and ANCHOR Element; Termination Checks in Recursive CTEs; Cursors - Benefits, Cursors in SProcs; ForwardOnly, Scroll & Local Cursors; Static, Dynamic & Global Cursors; Keyset Cursors and @@FetchStatus; Nesting of Stored Procedures - Dynamic; Data Formatting and WHILE Loops; Using Temporary Tables for Formatting.

### Day 16: Constraints, Functions - Level 2
CASCADING with Character Keys; N UPDATE, ON DELETE CASCADE; Self Referencing Keys, Practical Use; Adding Primary Key to Existing Table; Adding Foreign Key to Existing Table; MERGE Statement for Table Comparisons; WHEN MATCHED and NOT MATCHED; PIVOT Operation, Correlated Sub Queries; Using BULK INSERT & BULKCOLUMN; OPENROWSET For Data Import, CAST; String Functions and STUFF (); XML Options in T-SQL Queries, Joins; XML AUTO, XML RAW and XML PATH; JSON Files - Data Import into SQL DB.

### Day 17 to 19 : REAL-TIME PROJECT (BANKING DOMAIN)
As a part of this SQL Server T-SQL Course, we shall work on a Real-world BANKING Project, The project includes about 3000 Lines of Code (COMPLETELY SOLVED).

#### Phase 1: DATABASE DESIGN
Understanding OLTP Requirements, End to End Project Planning, Work Flow, Naming Conventions in Real-time, DB Creations with Files, File groups, Table Creations with Schemas, Using Schemas for Data Storage, Relations, Implementing Normal Forms, Creating Data Sheets, Test Data, Creating Synonyms - Security Advantages, Using Synonyms for Object Access.

#### Phase 2: QUERY DESIGN
Joining Tables for Reports, Query Design and Tuning, Views with JOIN Options, Implementing Indexed Views, Credit / Debit Reports, Customers & Accounts Reports, Transactions Reports, Active Customers, Ledgers, Customer Address, Branches.

#### Phase 3: PROGRAMMING
Automating DML Operations, Using Views for Data Inserts, Using Triggers with Views, Transactional Codes in T-SQL, Debits and Credits Logic, Event Handling Mechanism, Error Handling Mechanism, Stored Procedures for DMLs, Stored Procedures with Triggers.

This Project is helpful for your Resume as well as for your Job Interviews. We provide Project Oriented Interview Questions and Detailed Explanations for every possible scenario. This way you can easily attend any interview and confidently convey your technical skill set.
Module 4: Query Tuning, SQL Database Programming
Applicable for Plans C, D

Day 20: QUERY TUNING 1 - INDEXES, PARTITIONS
Audit Long Running Queries using DMVs and DMFs; Activity Monitor Tool and Query Statistics Reports; Logical I/O, Physical I/O and Database I/O, Wait Time; Recent Expensive Queries & Active Expensive Queries; Plan Handle and Execution Time - Query Usage Audit; Factors Impacting the Query Executions, Performance; Resumable Indexes, Usage in SQL Server 2017 & 2019; ONLINE, RESUME, PAUSE, MAX_DURATION Options; Query Store - Settings and Advantages. Options; PARTITIONS Mechanism : Advantages, Performance; Database Filegroups Usage with Partition Ranges; Partition Functions and Partition Schemes - Usage; Partitioning Un-partitioned Tables using Indexes; Aligned / Indexed Partitions - Query Importance; Partition SPLIT and Partition MERGE, NextUsed; Partition Compression Techniques : ROW, PAGE; Data Archival & SWITCH Partitions. Partitioned Views;

Day 21: QUERY TUNING 2 - FULLTEXT SEARCH, MEMORY TABLES, STATS
Full Text Search (FTS) Mechanism - Architecture, Tuning; Stop Words, Stemmer and Thesaurus For FullText Queries; Indexer Program, Query Processor & FT Query Compilation; Database Catalogs (FTC) and FDHost.exe. Daemon Threads; Full Text (FT) Indexes for Query Tuning with Tokenization; Crawler Threads and User Tables. Filter Daemon Host Excel; CONTAINS() Queries and FREETEXT() Queries with SELECT; In-Memory Tables : Creation and Practical Usage for Tuning; Memory Snapshots and Database Level and Table Level; FileStream Files and Memory Snapshot Filegroups for MOT; MEMORY_OPTIMIZED_ELEVATE_TO_SNAPSHOT Settings; Manual Table Stats Updates with FullScan, NoRecompute; Temporal Tables : Real-time Usage and History Tracking; Statistics : Purpose, Creation Scenarios and Usage; Index Statistics and Column Statistics for Tables, ReUse; Comparing Triggers with Temporal Tables for Audits;

Day 22: QUERY TUNING 3 - INDEX MANAGEMENT, LOCKS
Index Management Concepts for Performance Tuning; Internal Fragmentation and External Fragmentation; Fragmentation Audits : DMFs and Threshold Values; Index Reorganization and Index Rebuild Options; Database Maintenance Plans (DMP) For Index Reorg; Compress Large Objects, Fragmentation Condition; Index Page Count Condition, Index Usage Condition; Fast, Sampled and Detailed Scan Types for Indexes; Statistics Updates : Full Scan Options, DMP Jobs; LOCKS : Mechanism, Types, Concurrency Control; Lock Types: X, S, IS, IX, U, MD, Sch-M and Sch-S; Lock Audits : SP_WHO2, SP_LOCK, sysprocesses; Deadlock Simulation, Deadlock Prevention Scenarios; Deadlock Audits and Lock Events in Profiler Tool; Isolation Levels - ReadCommitted, Read Uncommitted; Serializable, Snapshot, Repeatable Read Isolations; Read Committed Snapshot Isolation Level in Real-time;

Day 23: QUERY TUNING 4 - TUNING TOOLS, PERFMON COUNTERS
Tuning Tools : Creating Workload Files and Trace Files; SQL Profiler Tool - Tuning Template and TSQL / SP Events; DTA Tool with Profiler Trace Files: Tuning Recommendations; DTA with Query Cache (Procedure Cache) & .SQL File Inputs; Execution Plans - Internals. Actual, LIVE Execution Plans; Plan Types : Index Scan, Index Seek, Tables Scan, Spooling; Query Costs : IO, CPU Cost, SubTree Cost, Operator Cost; NUMA Nodes, Boost SQL Priority, Thread Count, IO Affinity; Perfmon Counters and Real-time Tracking Of Resources; Processor, Disk, Memory, Transactions, Database Counters; Using Perfmon for Big Query Audits. Free & Total Memory; Longest Running Transactions & Transactions Per Second; Database Log Space - Issues, Solutions. Log Rebuilds; TempDB Issues - Causes, Precautions and Solutions; Memory Issues - Causes, Precautions and Solutions; Performance Tuning - Final Checklist and Precautions;
Day 24: EXECUTION PLAN ANALYSIS and RESOURCES
Parameter Sniffing: Real-time Scenarios, Issues; Execution Plan Issues with Parameter Sniffing; DBCC SHOW_STATISTICS - Statistics Accuracy; Histograms & Density Vectors for Query Optimizer; RANGE_HI_KEY, EQ_ROWS and RANGE_ROWS; DISTINCT_RANGE_ROWS and Index Overlapping; sp_createstats and sp_autostats System Procedures; Detection and Fix of (Overlapping) Duplicate Indexes; Resource Governor: Real-time Usage; Resource Pools and Workload Groups; Query Priority and DOP, Grants, Classifier Function; Policy Based Management (PBM): Facets and Conditions; Resource Governor: Real-time Usage & Conditions; Resource Pools: Creation and Usage Options; Workload Groups: Creation, Settings and Limits; Query Priority: LOW, MEDIUM and HIGH; DOP: Degree Of Parallelism and Allocation Grants;

**MCSA [Microsoft Certified Solution Associate] 70-461 Exam**
**Material, Examples and Guidance**

**Module 5: Azure SQL Database Development**
Applicable for Plans D

Day 25: AZURE CLOUD & AZURE SQL DATABASE
Introduction to Cloud. Need for Cloud, Advantages; Cloud Architecture Basics - Iaas, PasS and SaaS Advantages of Microsoft Cloud - Azure Platform; Azure Products and Azure Services - MarketPlace; Comparing Azure with Google Cloud for SQL Server; Comparing Azure with AWS Cloud for SQL Server; Azure Sources - Types, Microsoft Market Place; SQL Database Implementations in Azure Platform; Logical Servers, Virtual Machines, Managed Instance; Azure SQL Database Architecture Components; Creating Azure SQL Server (Logical Server); Creating Azure SQL Databases and Pricing Tiers; Price Tiers: Basic, Standard, Premium, PremiumRS; DTUs Allocation for Database Size, Cost Models; Firewall Settings for Azure SQL Server (Logical Server); Adding Firewall Rules - IP for Remote Access; Password Resets and Azure SQL Server Name Format;

Day 26: DTU ARCHITECTURE, ELASTIC QUERIES
DTU: Data Transaction Units: Architecture, Pools; DTU - Memory and IO Resources for Reads & Writes; Bounding Box Model for Optimal Performance; Static Pools (DTU) and Elastic Pools (eDTU); eDTUs and Elastic Pool, per Database Settings; EDTU Cost, eDTU max/min Limits and Performance; Configuring Elastic Pools for Azure SQL Databases; Elastic Pools & Tier Selection - Recommendations; Elastic Scale for Azure SQL Database - Strategies; Vertical Partitioning and Horizontal Partitioning; Elastic Database Tool Libraries for Elastic Queries; Sharding - Topology for Elastic Query Processing; Split-Merge Servie for SaaS Software Applications; Elastic Database Features - ShardMap, ShardKey; MultiShard Queries and Elastic Transactions; LOOKUP, HASH and RANGE Strategies for Sharding;

Day 27: AZURE SQL DB MIGRATIONS, AZURE DATA STUDIO
Data Migration Assistant (DMA) Tool; On-premise to Azure SQL Database Migration; Logical Server, Virtual Machine, Managed Instance; Schema Generation and Compatibility For Migration; Generating Data Scripts and Assessment; Generate and Validate Schemas. Migrations; Migration Scopes: Schema, Data, Schema & Data; Compatibility Checks and Assessment Checks; Resolving Database Migration Compatibility Issues; Azure Data Studio Tool for Database Connections; Azure Data Studio
### Features - Insights, Metrics; Comparing Azure Data Studio with SQL OPS Tool; SSMS Tool for Azure SQL Database Connections; SQLOPS Tool for Azure SQL Database Connections; SSDT (Visual Studio) for SQL Database Connections; Query Editor for Azure Database Access - in Portal; Azure Database Connections with Other Tools;

#### DAY 28: Azure SQL DATABASE TUNING, AZURE SEARCH
Azure SQL Server Level Tuning Options; Azure SQL Database Level Tuning Options; Automated Tuning Options and Peak-Loads; Force Plan, Create Index and Drop Index; Query Performance Insight, Intelligence; Index Recommendations with CPU and IO; IO Metrics, CPU Metrics & Query Statistics; Data File IO, Log File IO, Custom Reports; Identify Long Running Queries, Intensive Queries; Query Level Recommendations and Query Costs; Azure Search Service - Configuration, Pricing Tiers; Azure Search for Data Import and Indexer Options; Suggester and Analyzer Index Modes for Tuning; Retrievable, Facetable, Filterable Indexes; Facetable and Searchable Indexes for Tuning; Change Tracking Options, Watermark Columns;

#### DAY 29: AZURE SQL DATABASE VERSUS ON-PREMISE, EVENTS
Azure SQL Server Architecture Differences; Network Protocols and DB Engine Differences; File Structure and Filegroup Allocations; Secondary Files and FileStream Differences; Table Architecture for Partitions, FT Queries; Query Processing Differences with TDS Packets; Query Monitoring and Resources - Dashboards; Unsupported Commands with T-SQL Queries; SQL Traces : Creation and Audits. Limitations; SQL Traces : Events, Class, Category, Filter, Conditions; Extended Events and Traces for T-SQL Query Analysis; Extended Events Packages, Targets, Actions, Sessions; Extended Events Architecture and Engine Sessions; TSQL and SP Debug Events with XEL Files for EventInfo; Global Fields and Event Filters with XEL Files @ Traces; XE Objects : Catalog Views, Dynamic Management Views; XE Profiler - Default Templates for Event Profiling;

#### DAY 30: AZURE SQL DATABASE VERSUS ON-PREMISE, EVENTS
Stretch Databases in Azure SQL Databases; Stretch Databases - Tuning Benefits, Cautions; able Level Migrations with Azure SQL Databases; Compute Performance Levels and DSU Pricing; Data Storage and Azure Database Snapshots; Geo Backup Of Tables and Hybrid Cloud Settings; Remote Data Archive Configuration in Azure; Database Master Key [DMK], Cold Data Migration; SQL Database Managed Instance; Native Virtual Networks and Scalability; Lift and Shift LOB Applications; Fully Managed PaaS Infrastructure; Frictionless Migration for On-Premise; Managed Instances - Key Features; vCore Purchasing Model for Azure SQL DB; Gen 4 and Gen 5 Logical CPUs, Resource Limits; Key Differences : On-Premise Vs Managed Instances;

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