

SQL SERVER 2017/2019

SQL & T-SQL

Course Overview

- This is 100% hands-on course; students will learn about running SQL Server development.
- Helps to prepare 70-761 Microsoft exams.
- We will discuss all the concepts with real time scenarios.
- Every concept is discussed with case study.
- Participants will get good foundation in SQL and easily can learn database administration as well as MSBI courses.
- FAQs and Interview Tips
- Recorded sessions so that you can refresh at any time.

Target Participants

- Fresher, any one wants to enter into software field
- SQL Server Database Administrators
- IT Professionals

Learning Formats

• Online interactive and video based training

Our Trainer (s)

This course is delivered by **SQL Server expert and SME Mr. Kareem Syed.** He has hands on working experience on various SQL Server versions and recent cloud platforms. Having 18+years hand on experience he is technical consultant for some of the MNCs. You can visit his blog **at www.azure-sql.blogspot.com** for more details.

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Course Contents

 1) Database Concepts • Introduction to storage Techniques • Database and Data models • History of DBMS • Files and databases • Various DBMS Products • Data Models • E-R Diagrams • Cardinality 	 2) Introduction to SQL Server History Features of SQL Server 2019 Tools of SQL Server SQL Server Management Studio Command Prompt Utilities Other tools SQL Server databases
 3) Working with Databases Creating Database Creating Tables Managing Databases Database objects T-SQL Features and Commands 	 4) Data types and Operators • Data Types in SQL Server • Operators in SQL Server
 5) Sub-languages used in Sql Server • Working with DDL commands • Creating Tables • Types of Columns • Data types • Altering Table structure • Renaming Tables • Dropping Tables 	Manipulating Data Working with DML Commands Types of Insertion Inserting/ Deleting/Updating data Working with WHERE clause Identity function Working with Truncate Command Truncate or delete
7) Retrieving Data • Working with SELECT Command • Sql CLAUSES • Distinct • Order by • Top • Into • Group by and Having • Rollup and Cube	8) Data Integrity
 9) System Functions Uses of Functions Types of System Functions Scalar Aggregate Ranking 	 10) Joins Working with JOINS Inner joins Self Join Cross Join Outer Join SET Operators

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 11) Sub Queries Working with Sub Queries Non-correlated Sub Queries Correlated Sub Queries Limitations of Sub Queries Working with CTEs Recursive Sub Queries 	 12) Views Working with Views Advantages of Views Types of Views Simple and Complex Indexed and Partitioned View restrictions
 13) Indexes Advantages of Indexes Types Clustered, Non-clustered Managing Indexes 	 14) Database Objects Schemas Synonyms Sequence Merge concept Creating Login and Username
 15) T-SQL Programming Fundamental Concepts Variable Declarations Procedure capabilities of T-SQL 	Types of cursors Advantages of Cursors Working with Cursors
 17) User Defined Functions Working with User Defined Functions Types of Functions Scalar and Table valued Functions Difference between Functions and SP 	 18) Stored Procedures Advantages of SP Life Cycle Types of SP Creating SP Working with Parameters Input/output parameters Optional parameters RETURN Statement Exception Handling in S.P Try/Catch block Transaction Handling in SP Using Recursion in SP
 19) Triggers • Triggers • Advantages of Triggers • Types of Triggers • For/After Triggers • DML, DDL • Instead of Triggers • Working with Magic Tables • Logon Triggers in SP2 • Trigger Limitations • Managing Triggers 	20) Partition Tables 21) Interview tips and FAQs 22) New features for developers 2016/2017/2019

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