

MS SQL Server- Development

Duration: 50-55 Hours

Prerequisites

- There are no pre-requisites for this course.
- Familiar with any database concept is advantageous.

Course Contents

- 1. Database Overview**
 - Overview of Database
 - Components of Database System
 - Advantages of Database
 - RDBMS Concepts
 - Table, Record, Field, Column
 - Overview of DDL,DML,DCL
 - 2. Working with SQL Server Management Studio**
 - Management Studio Work Area
 - Creating Tables
 - View Data
 - SQL Select Statement
 - SQL Data Types
 - 3. Restricting and Sorting Data**
 - Where Clause
 - Logical Operators
 - AND, OR Operators
 - Arithmetic Operator
 - Comparison Operator
 - Logical Operators
 - IN & Between Operator
 - 4. SQL Functions**
 - AVG
 - MAX,MIN
 - SUM etc
 - 5. Aggregating Data Using Group Functions**
 - Group Functions
 - Group By Clause
 - HAVING Clause
 - 6. Subqueries**
 - Single Row Subqueries
 - Multiple Row Subqueries
 - Correlated Subqueries
 - 7. Manipulating Data**
 - INSERT Statement
 - UPDATE Statement
 - DELETE Statement
 - MERGE Statement
 - 8. SQL Joins**
 - Inner Join
 - Left Join
 - Right Join
 - Full Outer Join
 - 9. Transact-SQL Programming**
 - Introduction to T-SQL
 - Programming Elements
 - Control Statement in TSQL
 - Looping Structure
 - 10. Cursors**
 - Basics of Cursor
 - LifeCycle of Cursor
 - Types Of Cursors
 - Forward_Only and Scroll Cursors
 - Static, Dynamic and Keyset Cursors
 - Local and Global Cursors
 - 11. Transaction and Error Handling**
 - Transactions and the Database Engine
 - Controlling Transactions
 - Isolation Levels
 - TRY / CATCH Blocks
 - Working with Error Information
 - 12. Stored Procedures**
 - Querying Data with Stored Procedures
 - Passing Parameters to Stored Procedures
 - Creating Simple Stored Procedures
 - Working with Dynamic SQL
 - 13. User Defined Functions**
 - Creating and Altering Functions
 - Types Of User Defined Functions
 - Scalar Functions
 - Inline Table-Valued
 - Multi-statement Table-Valued
 - Permissions On User Defined Functions
 - 14. Triggers**
 - Create Trigger
 - Types of Trigger
 - After Triggers
 - Instead Of Triggers
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