

# SQL Server 2019 - Database & Query

## Basic to Advanced

### Expert Level Course

Duration : - 20 to 30 Hours  
Class Time : - Mon to Fri Daily 1 Hours / Sun-Sat - 2Hours Classes  
Course Fee - 6,000/

1-3 Batch Size

Direct Contact Trainer

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### SQL SERVER INTRODUCTION

#### **Microsoft SQL Server Advantages, Use**

Versions and Editions of SQL Server  
SQL : Purpose, Real-time Usage Options  
SQL Server Components and Usage  
System Configuration Checker Tool  
SQL Server and SSMS Installation Plan  
SQL Server 2019 Installation  
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 User Interface

Data Insertion & Storage. Limitations  
Creating Databases & Tables in SSMS  
Single Row Inserts, Multi Row Inserts

#### SQL Query

SELECT Statement @ Data Retrieval  
SELECT with WHERE Conditions  
Batch Concept and Go Statement

AND and OR Operators Usage  
IN Operator and NOT IN Operator  
Between, Not Between Operators  
LIKE and NOT LIKE Operators  
UPDATE Statement & Conditions  
DELETE & TRUNCATE Statements  
Logged and Non-Logged Operations

ADD, ALTER and DROP Columns  
ALTER & DROP Table Statements

#### Join Table

JOINS - Table Comparisons Queries  
INNER JOINS For Matching Data  
OUTER JOINS For (non) Match Data  
Left Outer Joins with Example Queries

Right Outer Joins with Example Queries  
FULL Outer Joins - Realtime Scenarios  
Join Queries with "ON" Conditions  
Join Unrelated Tables in SQL Server  
NULL, IS NULL Operators in Joins  
CROSS JOIN and CROSS APPLY  
CROSS JOIN Versus CROSS APPLY  
One-way & Two Way Data Comparisons  
Join Options: Merge, Loop, Hash  
Joins with Group By, Sub Queries  
Using Joins with Nested Sub Queries

Import and Export Wizard in SSMS  
Data Imports with Excel File Data  
Performing Bulk Operations in SSMS  
Temporary Tables : Real-time Use  
# and ## Prefix, Scope of Usage  
Constraints and Keys - Data Integrity  
NULL, NOT NULL Property on Tables

UNIQUE KEY Constraints: Importance  
PRIMARY KEY Constraint: Importance  
FOREIGN KEY Constraint: Importance  
Index Sort Options, Search Advantages

GROUP BY Queries and Aggregations  
Group By Queries with Having Clause  
Group By Queries with Where Clause

UNION and UNION ALL Operators  
Comparing Where, Having Conditions

#### **Data / Query / Report Export**

Excel Pivot Tables and Reports  
Export Via VBA  
Get data from VBA

Get Data for Access VBA

### **Function**

Function Types, Usage in Real-time  
Scalar, Inline and Multi-Line Functions  
GetDate, Year, Month, Day Functions  
Rollup with Having & Grouping  
Date and Time Functions in SQL

Convert Functions with DateTime  
DateTime Styles, DateAdd, DateDiff  
String Functions: Trim, SubString  
StringSplit, Concat, Len, Left, Right