SQL Server 2022 - Database & Query

Expert Level Course

Duration : - 30 to 35 Hours
Class Time : - Mon to Fri Daily 1 Hours / Sun-Sat - 2Hours Classes
Course Fee - 10,000/

Basic to Advanced

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 2022 Installation
SQL Server Management Studio 20.2

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

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
Create database
Create Table

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

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
FUNCTION in SQL
>100 Function for Table and Data Summery

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

Data / Query / Report Export

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

Get Data for Access VBA
Power Query with SQL Query
SQL Query with Power BI

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