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SQL Server

Course Guide

SQL Server offers the right edition to meet your needs, including Enterprise for mission critical applications, enterprise business intelligence and data warehousing; Business Intelligence for self-service and corporate business intelligence; and Standard for basic database, reporting and analytics capabilities.

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SQL Server Course Contents

SQL Server training curriculum is carefully designed to meet the requirements of Microsoft exam: Querying Microsoft SQL Server 70-461. Course helps developing strong understanding of Microsoft SQL Server and development foundation.

Introduction to Microsoft SQL Server 2014
- The Basic Architecture of SQL Server
- SQL Server Editions and Versions
- Getting Started with SQL Server Management Studio

Introduction to T-SQL Querying
- Introducing T-SQL
- Understanding Sets
- Understanding Predicate Logic
- Understanding the Logical Order of Operations in SELECT statements

Writing SELECT Queries
- Writing Simple SELECT Statements
- Eliminating Duplicates with DISTINCT
- Using Column and Table Aliases
- Writing Simple CASE Expressions

Querying Multiple Tables
- Understanding Joins
- Querying with Inner Joins
- Querying with Outer Joins
- Querying with Cross Joins and Self Joins

Sorting and Filtering Data
- Sorting Data
- Filtering Data with a WHERE Clause
- Filtering with the TOP and OFFSET-FETCH Options
- Working with Unknown and Missing Values

Working with SQL Server 2014 Data Types
- Introducing SQL Server 2014 Data Types
- Working with Character Data
- Working with Date and Time Data

Using DML to Modify Data
- Inserting Data
- Modifying and Deleting Data

Using Built-In Functions
- Writing Queries with Built-In Functions
- Using Conversion Functions
- Using Logical Functions
- Using Functions to Work with NULL

Grouping and Aggregating Data
- Using Aggregate Functions
- Using the GROUP BY Clause
- Filtering Groups with HAVING

Using Subqueries
- Writing Self-Contained Subqueries
- Writing Correlated Subqueries
- Using the EXISTS Predicate with Subqueries

Using Table Expressions
- Using Derived Tables
- Using Common Table Expressions
- Using Views
- Using Inline Table-Valued Functions

Using Set Operators
- Writing Queries with the UNION Operator
- Using EXCEPT and INTERSECT
- Using APPLY

Using Window Ranking, Offset, and Aggregate Functions
- Creating Windows with OVER
- Exploring Window Functions

Pivoting and Grouping Sets
- Writing Queries with PIVOT and UNPIVOT
- Working with Grouping Sets

Executing Stored Procedures
- Querying Data with Stored Procedures
- Passing Parameters to Stored Procedures
- Creating Simple Stored Procedures
- Working with Dynamic SQL

Programming with T-SQL
- T-SQL Programming Elements
- Controlling Program Flow

Implementing Error Handling
- Using TRY / CATCH Blocks
- Working with Error Information

Implementing Transactions
- Transactions and the Database Engine
- Controlling Transactions
- Isolation Levels

Improving Query Performance
- Factors in Query Performance
- Displaying Query Performance Data

Querying SQL Server Metadata
- Querying System Catalog Views and Functions
- Executing System Stored Procedures
- Querying Dynamic Management Objects

Practical Approach
A real-time examples, will be given throughout the lectures, starting from design, analysis, implementation and maintenance.

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