

Consulting and Training | Reach New Heights

Course Name

Developing SQL Databases

Sector Name

Information Technology

Document Type

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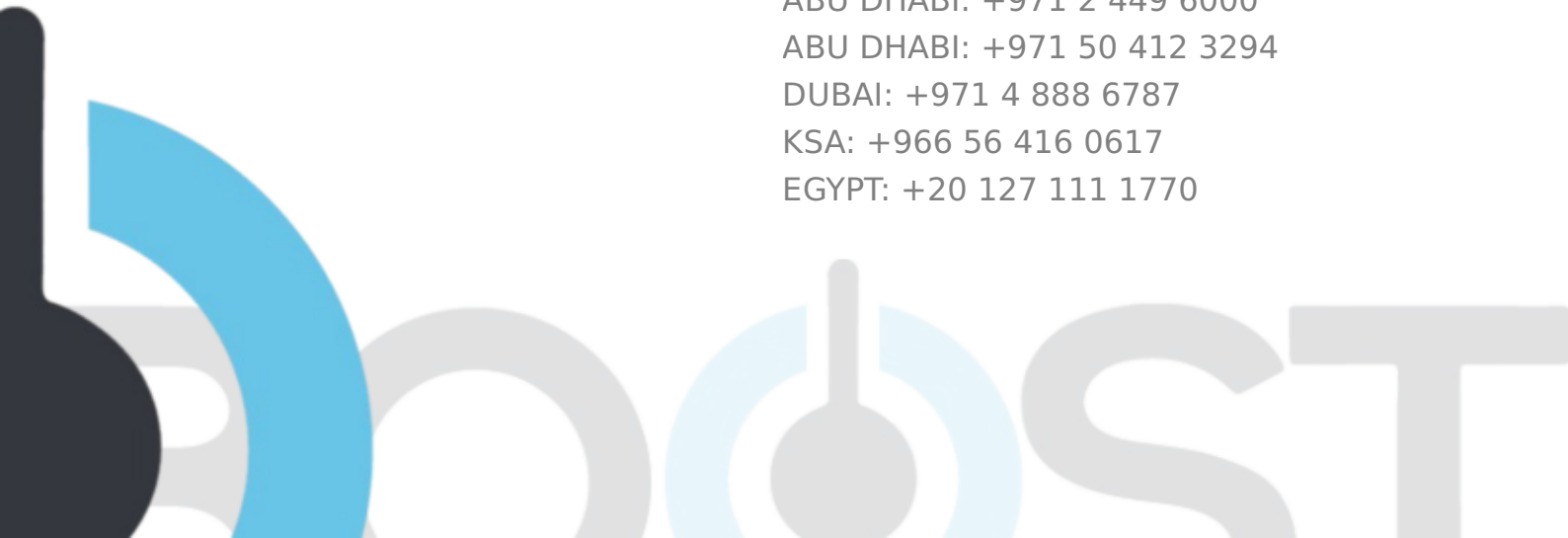
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Developing SQL Databases

Course Introduction

This training course is designed to provide students with the knowledge and skills to develop a Microsoft SQL Server 2016 database. This MOC-OD will focus on using SQL Server 2016 product features and tools related to developing a database.

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Target Audience

This training course is designed for IT Professionals seeking to advance their skills on SQL Server 2016 product features and technologies for implementing a database.

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Developing SQL Databases

Learning Objectives

- ✓ Design and Implement Tables.
- ✓ Describe advanced table designs
- ✓ Ensure Data Integrity through Constraints.
- ✓ Describe indexes, including Optimized and Columnstore indexes
- ✓ Design and Implement Views.
- ✓ Design and Implement Stored Procedures.
- ✓ Design and Implement User-Defined Functions.
- ✓ Respond to data manipulation using triggers.
- ✓ Design and Implement In-Memory Tables.
- ✓ Implement Managed Code in SQL Server.
- ✓ Store and Query XML Data.
- ✓ Work with Spatial Data.
- ✓ Store and Query Blobs and Text Documents.

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Course Outline

✓ Day 01

Module 1: Introduction to Database Development

- ✓ Introduction to the SQL Server Platform
- ✓ SQL Server Database Development Tasks
- ✓ Lab: SQL Server Database Development Tasks

Module 2: Designing and Implementing Tables

- ✓ Designing Tables
- ✓ Data Types
- ✓ Working with Schemas
- ✓ Creating and Altering Tables
- ✓ Lab: Designing and Implementing Tables

Module 3: Advanced Table Designs

- ✓ Partitioning data
- ✓ Compressing Data
- ✓ Temporal Tables
- ✓ Lab: Using Advanced Table Designs

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Course Outline

✓ Day 02

Module 4: Ensuring Data Integrity through Constraints

- ✓ Enforcing Data Integrity
- ✓ Implementing Domain Integrity
- ✓ Implementing Entity and Referential Integrity
- ✓ Lab: Ensuring Data Integrity through Constraints

Module 5: Introduction to Indexes

- ✓ Core Indexing Concepts
- ✓ Data Types and Indexes
- ✓ Single Column and Composite Indexes
- ✓ Lab: Implementing Indexes

Module 6: Designing Optimized Index Strategies

- ✓ Covering Indexes
- ✓ Managing Indexes
- ✓ Execution Plans
- ✓ Using the DTE
- ✓ Lab: Designing Optimized Index Strategies

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Course Outline

✓ Day 03

Module 7: Columnstore Indexes

- ✓ Introduction to Columnstore indexes
- ✓ Creating Columnstore indexes
- ✓ Working Columnstore indexes
- ✓ Lab: Using Columnstore indexes

Module 8: Designing and Implementing Views

- ✓ Introduction to views
- ✓ Creating and managing views
- ✓ Performance considerations for views
- ✓ Lab: Designing and Implementing Views

Module 9: Designing and Implementing Stored Procedures

- ✓ Introduction to Stored Procedures
- ✓ Working with Stored Procedures
- ✓ Implementing Parameterized Stored Procedures
- ✓ Controlling Execution Context
- ✓ Lab: Designing and Implementing Stored Procedures

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Course Outline

✓ Day 04

Module 10: Designing and Implementing User-Defined Functions

- ✓ Overview of Functions
- ✓ Designing and Implementing Scalar Functions
- ✓ Designing and Implementing Table-Valued Functions
- ✓ Implementation Considerations for Functions
- ✓ Alternatives to Functions
- ✓ Lab: Designing and Implementing User-defined Functions

Module 11: Responding to Data Manipulation via Triggers

- ✓ Designing DML TriggersImplementing DML Triggers
- ✓ Advanced Trigger Concepts
- ✓ Lab: Responding to Data Manipulation via Triggers

Module 12: Using In-Memory Tables

- ✓ In-Memory tables
- ✓ Native Stored Procedures
- ✓ Lab: In Memory OLTP

Module 13: Implementing Managed Code in SQL Server

- ✓ Introduction to SQL CLR Integration
- ✓ Importing and Configuring Assemblies
- ✓ Implementing SQL CLR Integration
- ✓ Lab: Implementing Managed Code in SQL Server

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Course Outline

✓ Day 05

Module 14: Storing and Querying XML Data in SQL Server

- ✓ Introduction to XML and XML Schemas
- ✓ Storing XML Data and Schemas in SQL Server
- ✓ Implementing the XML Data Type
- ✓ Using the T-SQL FOR XML Statement
- ✓ Getting Started with xQuery
- ✓ Lab: Storing and Querying XML Data in SQL Server

Module 15: Working with SQL Server Spatial Data

- ✓ Introduction to Spatial Data
- ✓ Working with SQL Server Spatial Data Types
- ✓ Using Spatial Data in Applications
- ✓ Lab: Working with SQL Server Spatial Data

Module 16: Storing and Querying Blobs and Text Documents in SQL Server

- ✓ Considerations for BLOB Data
- ✓ Working with FileStream
- ✓ Using Full-Text Search

✓ Lab: Storing and Querying Blobs and Text Documents in SQL Server

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
March 15, 2027	March 19, 2027	5 days	4250.00 \$	UAE , Dubai
June 14, 2027	June 18, 2027	5 days	4250.00 \$	UAE , Dubai
Aug. 16, 2027	Aug. 20, 2027	5 days	4950.00 \$	England , London
Dec. 28, 2026	Jan. 1, 2027	5 days	2150.00 \$	Virtual , Online

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