

Microsoft SQL Server 2008 for Developers Nivel II

Description: You will learn how to take advantage of the user-friendly management console that integrates both authoring and administrative tasks. You will learn how to take advantage of SQL Server's tools for analyzing and tuning your databases. You'll also learn about integration servers, implementing security, and Microsoft's new Business Intelligence (BI) suite.

Audience: Database developers interested in gaining a more thorough knowledge of SQL Server 2008's features.

Prerequisites: A solid understanding of relational databases and the concepts of SQL Server is recommended. No particular programming experience is required, but the course is taught from a developer's perspective.

Duration: 30 hours.

Content

<p>1. Advanced SQLCLR Code Techniques</p> <ul style="list-style-type: none">• Advanced SQLCLR Code Modules• Aggregates• Large Aggregates• Multiparameter Aggregates• User-Defined Types• Ordered Table-Valued Functions• Managing Code Modules• System Catalogs• Troubleshooting SQLCLR Code <p>2. Advanced Query Techniques</p> <ul style="list-style-type: none">• Full-Text Search• Configuring Full-Text Search• Writing Full-Text Queries• The CONTAINS Predicate• The FREETEXT Predicate• Using CONTAINSTABLE and FREETEXTTABLE• Using Full-Text DDL• Advanced T-SQL Techniques• Using APPLY• Inserting and Updating Data with MERGE• Creating Recursive Queries• Grouping Data with Grouping Sets• Creating Pivot Queries• Executing Dynamic SQL• Overcoming PIVOT Limitations• Using Parameters with sp_executesql• Using QUOTENAME()• Using sp_executesql with Output Parameters• Signing Stored Procedures with Certificates	<p>5. Complex Querying</p> <ul style="list-style-type: none">• Working with NULL Values• SqlTypes and CLR Types• About the ANSI_NULLS Option• NULLs and SqlBoolean• Assigning NULL Values• Ranking Grouped Data• The ROW_NUMBER Function• The RANK Function• The DENSE_RANK Function• The NTILE Function• Writing Correlated Subqueries• Subquery Basics• What is a Correlated Subquery?• Using the WHERE Clause• Including the HAVING Clause• Correlated Subqueries and Updates• Comparing to Joins and Temp Tables• Using Common Table Expressions• When to Use CTEs• CTE Syntax• Recursive CTEs <p>6. Advanced Techniques</p> <ul style="list-style-type: none">• Complex Data and Structures• Issues with Data Types• Working with Multinational Data• Working with Hierarchical Data• Writing More Efficient Queries• The EXISTS Clause• Joins vs. Subqueries• One-Pass Queries• Using Temporary Tables• Table Variables• User-Defined Table-Valued Functions• Common Table Expressions• Worktables• User-Defined Table-Typed Parameters• Working with Complex Queries• Using Implicit Transactions• Keeping it Simple• Maintaining Query Files• Using Source Control and Versioning• Using Visual SourceSafe
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3. Advanced Data Types

- The HierarchyID Data Type
- Indexing a Hierarchy
- Manipulating Hierarchies
- Working with the Instructor Hierarchy
- Exploring and Manipulating a Hierarchy
- Sparse Columns and Column Sets
- Restrictions on Sparse Columns
- Column Sets
- Recommendations
- Working with Sparse Columns
- Working with Column Sets
- Filtered Indexes
- FILESTREAM Storage
- FILESTREAM Data Type
- FILESTREAM Data Access Methods
- Gotchas and Limitations
- Using FILESTREAM
- Spatial Data
- Geometry vs. Geography
- Spatial Data Standards
- Types of Spatial Data
- Using Spatial Data
- Working with Spatial Data
- Interactions Between Objects

4. Implementing SQL Server Partitions

- Overview of Table-Based Partitioning
- Why Partition?
- SQL Server Partitioning
- Range Partitions
- Partition Key and Number of Partitions
- Using Multiple Filegroups
- Index Partitioning
- Creating Partitioned Tables
- Creating a Partition Function
- Creating a Partition Scheme
- Partitioning Tables and Indexes
- Querying Partitions
- Using the \$PARTITION Function
- Catalog Views
- Managing Partitions
- Modifying Partitioned Tables of Indexes
- Modifying a Partition Function
- Modifying a Partition Scheme
- Backing up Partitions
- Performance Considerations

7. Design and Deployment with Visual Studio

- Team System for Database Professionals
- Database Development
- Visual Studio Integration
- Security
- Creating Databases and Managing Projects
- Creating and Configuring a Database Project
- Generating Test Data
- Database and Project Management
- Creating Database Unit Tests
- Changing the Schema
- Comparing Database Schemas
- Comparing Database Data
- Creating Partial Database Projects

8. Working with XML

- The xml Data Type
- Declaring XML Objects
- Loading Data into an XML Instance
- Indexing XML Columns
- XML Schema Collections
- Typed and Untyped XML
- Schema Basics
- Registering Schemas
- Viewing Stored Schemas
- Querying XML
- XQuery
- FOR XML
- OPEN XML
- Best Practices
- Relational vs. XML Data Model
- Storing XML in DQL Server 2008
- Reasons to Index XML Columns
- Querying

9. Business Intelligence Services

- Introduction to Business Intelligence Services
- Using Integration Services
- What is SSIS?
- Importing and Exporting Data

Incluye:

- ❖ Un manual del curso original importado.
- ❖ Estacionamiento, en pagos anticipados, si el curso es en nuestras instalaciones.
- ❖ Descanso con servicio de café, agua, té, refrescos y galletas.

Formas de pago:

Para la inscripción a este entrenamiento el pago debe realizarse con anticipación de una semana las siguientes maneras:

1. Depósito en Banamex cuenta 4923239 Suc. 575 a nombre de Desarrollo y Capacitación en Internet, S. A. de C. V. (CLABE en caso de transferencia electrónica vía Internet 002180057549232394)
2. Cheque a nombre de Desarrollo y Capacitación en Internet, S. A. de C. V.
3. Tarjetas de crédito, Visa, MasterCard o American Express

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