

Microsoft™ SQL Server 2005 (Parte II)

Descripción del curso: SQL Server 2005 incluye un conjunto de herramientas que van más allá de las consultas básicas y manipulación de datos. En este curso es la continuación del curso básico-intermedio y cubre técnicas avanzadas de consultas en SQL Server para el análisis y la optimización de sus bases de datos y también aprenderá sobre la integración de servicios, seguridad y una introducción al servicio de Inteligencia de Negocios de Microsoft (BI) SQL Server 2005 y del servicio de reportes.

Audiencias: Desarrolladores y administradores de la base de datos.

Requisitos previos: Una comprensión sólida en bases de datos relacionales.

CONTENIDO

1- ADVANCED QUERY TECHNIQUES

- Full-Text Search
- SQL Server 2005 Enhancements
- Configuring Full-Text Search
- Writing Full-Text Queries
- The CONTAINS Predicate
- The FREETEXT Predicate
- Using CONTAINSTABLE and FREETEXTTABLE
- Using Full-Text DDL
- Generating XML with FOR XML
- Using AUTO Mode
- Using RAW Mode
- Using EXPLICIT Mode
- Using PATH Mode
- Using APPLY
- Comparing APPLY to Using Joins
- Using APPLY with Table-Valued Functions
- Combining APPLY with FOR XML PATH
- Creating Recursive Queries
- Using a Common Table Expression (CTE)
- Creating Pivot Queries
- Rotating Column Data into Column Headings
- Executing Dynamic SQL
- Overcoming PIVOT Limitations
- Using Parameters with sp_executesql
- Using QUOTENAME()
- Using sp_executesql with Output Parameters
- Signing Stored Procedures with Certificates

2.- Understanding and Implementing Security

- Security Overview
- The Threats
- SQL Server 2005 Design Philosophy
- The Two Stage of Security
- Authentication
- Configuring SQL Server Security Settings
- Windows integrated Authentication
- SQL Server Authentication
- Authorization
- Principals
- Securable Objects
- Permissions
- Permission Types
- Permission Statements
- Granting Permissions
- Roles, Permissions, and Schemas
- Execution Context
- Metadata Security
- Data Encryption
- Encryption Keys
- Encrypting Data
- Security Epilog

7- PROGRAMMING REPLICATION

3- ANALYZING AND TUNING PERFORMANCE

- Evaluating Performance
- Define Monitoring Goals
- SQL Server Monitoring Tools
- Monitoring with SQL Server Profiler
- Profiler Terminology
- Getting Started with the Profiler
- Tuning Queries
- How Join Types Affect Performance
- Join Hints
- Performance Issues with Joins and Subqueries
- Avoid Cursors
- Indexes and Partitions
- What Is an Index?
- What Is a Partition?
- Using the Database Engine Tuning Advisor
- Capturing a Workload
- Analyzing the Workload
- Providing an Indexing and Partition Recommendation
- Understanding SQL Server Performance Problems
- Slow Queries
- CPU Bottlenecks
- Memory Bottlenecks
- Troubleshooting with Dynamic Management Views

4.- AUTOMATING ADMINISTRATIVE TASKS

- SQL Server Agent
- Starting Agent
- Setting Agent Properties
- Operators
- Jobs
- Alerts

5- MAINTENANCE PLANS

- Maintenance Plan Wizard
- Maintenance Plan Designer

6- SQL MANAGEMENT OBJECTS (SMO)

- SMO Object Model
- Accessing and Managing a Server

- Overview of SQL Server Replication
- Publishing Model
- Replication Types
- Agents and Metadata
- Replication Programming Interfaces
- Replication Stored Procedures
- Replication Management Objects
- Agent Executables and ActiveX Controls
- Configuring Replication
- Publishing Data
- Generating Replication Scripts
- Running the Sample Application
- Creating Subscriptions
- Synchronizing Data
- Starting a Synchronization
- Showing Synchronizations Status
- Subscription Status
- Reinitializing a Subscription

8- USING INTEGRATION SERVICES

- What is SSIS?
- When to Use SSIS
- SSIS Architecture
- Importing and Exporting Data
- Integration Services Tools
- SQL Server Business Intelligence Development Studio (BIDS)
- BIDS Design Surfaces
- Execute Package Utility
- Building a Package
- Creating the Package
- Creating the Data Source Connections
- Creating the Control and Data Flows
- Adding Control Flow Tasks
- Adding Data Flows
- Troubleshooting the Package
- Logging
- Visual Tools
- Data Views
- Breakpoints
- Other Debugging Tools

10- INTRODUCTION TO REPORTING SERVICES

9- ANALYSIS SERVICES

- Understanding Analysis Services
- OLAP Terminology
- Cubes, Dimensions, and Measures
- Cube Storage
- The Unified Dimensional Model
- Creating a Unified Dimensional Model
- The AdventureWorksDW Sample
- Creating a Data Source View
- Creating a Cube
- Browsing and Enhancing the Cube
- Data Mining
- Microsoft Data Mining Algorithms
- Creating a Data Mining Structure
- Processing and Viewing a Data Mining Model

- Understanding Reporting Services
- Server Components
- Client Components
- Configuring Reporting Services
- Installation
- Building a Simple Report
- The Report Wizard
- Creating, Publishing, and Viewing Reports
- Creating a Report Manually
- Creating a Data Source
- Adding Data to the Report
- Previewing the Report
- Publishing the Report
- Using and Managing Published Reports

Requisitos:

Indispensable manejo de ambiente Windows. Se recomienda conocimientos previos de programación en cualquier lenguaje.

Duración aproximada:

28-32 horas (32 cuando se incluye 1 hora para comer).

Lugar:

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Formas de pago:

Este pago puede realizarse de cualquiera de las siguientes maneras:

- ❖ 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)
- ❖ Cheque a nombre de Desarrollo y Capacitación en Internet, S. A. de C. V.
- ❖ Tarjeta de Crédito Master Card o Visa (Se requiere asistir a las instalaciones para hacer el pago).

Nota:

El material está en inglés técnico.

Incluye:

Material de los cursos, mochila, diploma de participación, estacionamiento y servicio de cafetería.

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