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BIG DATA	BLOCK CHAIN	BASES DE DATOS
GESTIÓN DE SERVICIOS IT	CLOUD COMPUTING	METODOLOGÍAS EN PROYECTOS
SISTEMAS OPERATIVOS	Y MÁS...	

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¿Por qué ExecuTrain?

ExecuTrain es un proveedor de entrenamiento corporativo a nivel internacional y líder mundial en la capacitación empresarial. Contamos con más de 30 años de Experiencia y con más de 75 mil personas capacitadas a nivel Nacional.

Te guiamos en la definición de tus requerimientos de capacitación, en las diferentes etapas:

- ✓ Detección de necesidades, evaluación de conocimientos, plan de capacitación y seguimiento posterior para elegir el plan de capacitación como tú lo necesitas.
- ✓ El **más amplio catálogo de cursos**, desde un nivel básico hasta los niveles de conocimientos más especializados.
- ✓ En ExecuTrain el material y la **metodología están diseñados por expertos en aprendizaje humano**. Lo que te garantiza un mejor conocimiento en menor tiempo.
- ✓ Tú puedes confiar y estar seguro del aprendizaje porque nuestro **staff de instructores es de primer nivel**, algunos de los cuales son consultores en reconocidas empresas.
- ✓ No pierdas tu tiempo, los cursos están diseñados para un aprendizaje práctico.

Nuestro compromiso es que tú aprendas, si no quedas satisfecho con los resultados del programa, podrás volver a tomar los cursos hasta tu entera satisfacción o la devolución de tu dinero.

Modalidad de Servicio

Cursos en Fecha Calendario

Súmate a nuestros grupos en fechas públicas.

Cursos Privados

On site, en nuestras instalaciones o en línea con instructor en vivo.

Autoestudio con soporte de instructor

Cursos en modalidad autoestudio, con acceso 24/7 a la plataforma de estudio, con soporte de instructor y foros de ayuda

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Duración: 21 horas

55317 / Querying Microsoft SQL Server

This three-day course teaches students how to use basic Transact-SQL statements and other languages to query modern editions of Microsoft SQL Server and Azure SQL Server. This course is the foundation for all SQL Server-related disciplines; namely, Database Administration, Database Development and Business Intelligence. By using demonstrations and hands-on labs, attendees will learn to perform these tasks using SQL Server, Azure Data Studio, and other database tools.

Perfil del Público

This course is intended for Database Administrators, Database Developers, and Business Intelligence professionals. Report writers, business analysts, application developers and SQL users who want to familiarize themselves with SQL Server will also benefit from this material.

Requisitos Previos

- ✓ Experience working on Windows computers

Al finalizar el curso

After completing this course, students will be able to:

- ✓ Query, sort and filter data in database tables
- ✓ Query external data sources
- ✓ Query SQL Server and Azure SQL Server programmatically
- ✓ Optimize query performance
- ✓ Modify data using Transact-SQL
- ✓ Work with XML and JSON formatted data
- ✓ Use stored procedures and functions
- ✓ Use SQL Server tools like SSMS and Azure Data Studio
- ✓ Use Linked Servers
- ✓ Use PolyBase

Módulos

Module 1: Querying data with SQL Server Management Studio

This module explains how to use SQL Server Management Studio (SSMS) to query SQL Server databases.

Lessons

- Lesson 1: Introduction to SSMS
- Lesson 2: SSMS querying options
- Lesson 3: Managing SSMS queries

Lab 1: Querying data with SQL Server Management Studio

- Exercise 1: Introduction to SSMS
- Exercise 2: SSMS querying options
- Exercise 3: Managing SSMS queries

After completing this module, students will be able to:

- Use SSMS
- Run T-SQL scripts in SSMS
- Manage scripts in SSMS

Module 2: Querying data with Azure Data Studio

This module explains how to use Azure Data Studio to query SQL Server databases.

Lessons

- Lesson 1: Introduction to Azure Data Studio
- Lesson 2: Azure Data Studio querying options
- Lesson 3: Managing Azure Data Studio queries

Lab 1: Querying data with Azure Data Studio

- Exercise 1: Introduction to Azure Data Studio
- Exercise 2: Azure Data Studio querying options
- Exercise 3: Managing Azure Data Studio queries

After completing this module, students will be able to:

- Use Azure Data Studio tool
- Run scripts in Azure Data Studio
- Manage scripts in Azure Data Studio

Module 3: Basic Transact-SQL Queries

This module explains how to write basic SELECT queries.

Lessons

- Lesson 1: Using the SELECT statement
- Lesson 2: Working with table columns
- Lesson 3: Working with table rows

Lab 1: Basic Transact-SQL Queries

- Exercise 1: Using the SELECT statement
- Exercise 2: Working with table columns
- Exercise 3: Working with table rows

After completing this module, students will be able to:

- Write SELECT statements
- Filter table columns
- Filter and sort table rows

Module 4: Advanced Transact-SQL Queries

This module explains how to write more complex SELECT statements and query multiple tables.

Lessons

- Lesson 1: Using Unions and Joins
- Lesson 2: Using Subqueries
- Lesson 3: Using Common Table Expressions (CTEs)
- Lesson 4: Grouping data

Lab 1: Advanced Transact-SQL Queries

- Exercise 1: Using Unions and Joins
- Exercise 2: Using Subqueries

- Exercise 3: Using Common Table Expressions (CTEs)
- Exercise 4: Grouping data

After completing this module, students will be able to:

- Join data from different tables
- Use subqueries
- Use CTEs
- Aggregate data from one or more columns

Module 5: Optimizing Query Performance

This module explains how to improve the performance of database queries.

Lessons

- Lesson 1: Identifying performance issues
- Lesson 2: Altering tables and queries
- Lesson 3: Using Indexes

Lab 1: Optimizing Query Performance

- Exercise 1: Identifying performance issues
- Exercise 2: Altering tables and queries
- Exercise 3: Using Indexes

After completing this module, students will be able to:

- Identify query performance problems
- Modify tables and queries to improve query performance
- Use indexes to improve query performance

Module 6: Modifying data with INSERT, UPDATE, and DELETE

This module explains how to use Data Modification Language (DML) statements to add, change or delete data.

Lessons

- Lesson 1: Using INSERT
- Lesson 2: Using UPDATE
- Lesson 3: Using DELETE

Lab 1: Modifying data with INSERT, UPDATE, and

DELETE

- Exercise 1: Using INSERT
- Exercise 2: Using UPDATE
- Exercise 3: Using DELETE

After completing this module, students will be able to:

- Use INSERT statements
- Use UPDATE statements
- Use DELETE statements

Module 7: Working with XML and JSON data

This module explains how to use XML and JSON data in a SQL Server database.

Lessons

- Lesson 1: Storing XML and JSON records
- Lesson 2: Querying XML and JSON records
- Lesson 3: Converting records to XML and JSON formats

Lab 1: Working with XML and JSON data

- Exercise 1: Storing XML and JSON records
- Exercise 2: Querying XML and JSON records
- Exercise 3: Converting records to XML and JSON formats

After completing this module, students will be able to:

- Store XML and JSON data in SQL Server
- Query XML and JSON data
- Convert database records to XML or JSON formats

Module 8: Using Stored Procedures and Functions

This module explains how to create and use built in and user created T-SQL programming objects in SQL Server.

Lessons

- Lesson 1: Using Built-in Procedures and Functions
- Lesson 2: Creating Stored Procedures
- Lesson 3: Creating Functions

Lab 1: Using Stored Procedures and Functions

- Exercise 1: Using Built-in Procedures and Functions
- Exercise 2: Creating Stored Procedures
- Exercise 3: Creating Functions

After completing this module, students will be able to:

- Use Built-in Procedures and Functions
- Create stored procedures
- Create functions

Module 9: Query SQL Server programmatically

This module explains how to query SQL Server using non-SQL languages.

Lessons

- Lesson 1: Query SQL Server using sqlcmd
- Lesson 2: Query SQL Server using PowerShell
- Lesson 3: Query SQL Server using Python

Lab 1: Query SQL Server programmatically

- Exercise 1: Query SQL Server using sqlcmd
- Exercise 2: Query SQL Server using PowerShell
- Exercise 3: Query SQL Server using Python

After completing this module, students will be able to:

- Query SQL Server using sqlcmd
- Query SQL Server using PowerShell
- Query SQL Server using Python

Module 10: Managing External Data Sources

This module explains how to use different methods to create permanent connections to

external data sources.

Lessons

- Lesson 1: Using Linked Servers
- Lesson 2: Using PolyBase

Lab 1: Managing External Data Sources

- Exercise 1: Using Linked Servers
- Exercise 2: Using PolyBase

Lab 2: Capstone Lab (Optional)

- Exercise 1: Querying SQL Server database records

After completing this module, students will be able to:

- Use Linked Servers
- Use PolyBase