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Introduction to SQL Databases

Duration: 3 Days Course Code: M55315

Delivery Method: Company Event

Overview:

The M55315 instructor-led course is provided as an introductory class for anyone getting started with databases. It will be useful to programmers and other IT professionals whose job roles are expanding into database management. Students will learn fundamental database concepts through demonstrations and hands-on labs on a SQL Server instance. The material updates and replaces course 10985C previously published under the same title.

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

The primary audience for this course is people who are moving into a database role, or whose role has expanded to include database technologies. Developers that deliver content from SQL Server databases will also benefit from this material.

Objectives:

- Describe key database concepts in the context of SQL Server
- Describe database languages used in SQL Server
- Describe data modelling techniques
- Describe normalization and denormalization techniques
- Describe relationship types and effects in database design
- Describe the effects of database design on performance
- Describe commonly used database objects

Prerequisites:

This is a foundation level course and therefore only requires general computer literacy.

Content:		
Module 1: Introduction to databases	Module 3: Normalization	Module 5: Performa
This module introduces key database concepts	This module describes normalization and	This module introdu
in the context of SQL Server.	denormalization techniques.	database design or
Introduction to Relational Databases	Fundamentals of Normalization	Indexing
Other Databases and Storage	Normal Form	Query Performan
Data Analysis	Denormalization	Concurrency
SQL Server Database Languages		
	Lab of Module 3:	Lab of Module 5:
Lab of Module 1:		
	Normalizing Data	Performance Issu
Exploring SQL Server Databases and Tables	Normalizing Tables	Using Indexes
Explore SQL Server	After completing this module 3, students will	After completing thi
Query Databases and Tables	be able to:	be able to:
After completing this module 1 students will be	Describe normalization benefits and	Discuss the perfo
able to:	notation	indexing
	Describe important normalization terms	Describe the perf
Describe what a database is	Describe the normalization levels	and search types
Understand basic relational aspects	Describe the role of denormalization	Describe the perf
Describe database languages used in SQL		concurrency
Server	Module 4: Relationships	
Describe data analytics		Module 6: Databas
Madula 2: Data Madaling	This module describes relationship types and	
Module 2. Data Modeling	effects in database design	This module introdu
		database objects.
This module describes data modelling	Introduction to Relationships	
techniques.	Planning Referential Integrity	Tables
		Views
Data Modelling	Lab of Module 4:	Stored Procedure
Designing a Database		Functions
Relationship Modeling	Planning and Implementing Referential	
	Integrity	Lab of Module 6:
Lab of Module 2:	Implementing Referential Integrity	
- Identify Common anto in Deletionship		Using SQL Serve
Medeling	After completing this module 4, students will be able to:	Using Tables
Modeling a database	De able to.	Using views
	Describe relationship types	
After completing this module 2, students will be	Describe the use, types, and effects of	After completing thi
able to:	referential integrity	be able to:
Understand the common data modeling		Describe the use
techniques		Describe the use

- Describe the ANSI/SPARC database model
- Describe entity relationship modeling

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- er Objects
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is module 6, students will

- of tables in SQL Server
- of views in SQL Server
- Describe the use of stored procedures in SQL Server
- Describe other database objects commonly used in SQL Server

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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