(SQL) SQL Server Database

IT & IT Engineering
Los Angeles (USA)
13 - 17 Jan 2025

UK Traininig
PARTNER

(SQL) SQL Server Database

Ref: 321700_144249 **Date:** 13 - 17 Jan 2025 **Location:** Los Angeles (USA) **Fees:** 5700 **Euro**

Introduction

This course provides an overview of relational database design principles it does not cover the teaching of formal database design processes and database/table creation.
The course assumes no previous knowledge of SQL and SELECT statements, and takes delegates from simple queries, through to complex queries involving multiple tables, introducing the vast collection of built-in functions along the way.

Target Audience:

- IT Administrators
- Database Administrators
- Application Developers
- Cloud Computing Professionals
- Configuration Specialists
- Migration & Deployment Specialists
- Data Migration Specialists
- Deployment Specialists
- Infrastructure Specialists
- IT Security Professionals

Course Outlines

Day 1

Relational Database Overview

- Basic Relational Database Terminology
- Relational Database
- Tables and Columns
- Rows and Records
- Connecting Tables
- Primary Keys
- Foreign Keys
- Relationship Types

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Day 2

The SELECT Statement

- SELECT list
- Columns
- ALL or DISTINCT
- String Expressions
- Arithmetic Expressions
- Column Aliases

Relational Operators

- BETWEEN AND
- IS NULL Example
- IN Example
- LIKE Examples
- Working With Dates
- NOT

Day 3

Aggregate Functions

- COUNT
- SUM
- MAX
- MIN
- AVG
- NULL Values and Aggregates
- Aggregate Expressions
- **Mathematical Functions**
- SQUARE
- POWER
- SQRT
- RADIANS, SIN, COS, TAN
- ABS
- ROUND
- CEILING & FLOOR

Day 4

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Conversion Functions

- CAST and CONVERT
- Converting Dates To Strings
- Converting Money Values To Strings
- ISNULL Function

String Functions

- UPPER & LOWER
- STR
- LEFT & RIGHT
- CHARINDEX
- SUBSTRING
- REVERSE, REPLACE and SPACE
- RTRIM & LTRIM
- REPLICATE
- Using REPLICATE To Pad Strings
- ASCII & CHAR

Day 5

Date Functions

- GETDATE
- YEAR, MONTH & DAY
- DATEPART & DATENAME
- Date Arithmetic
- DATEADD & DATEDIFF

INNER Join

- Legacy Style Joins
- ANSI Style Joins
- Simple Joins
- Two Tables
- Three Tables
- Four Tables
- INNER JOIN Theory

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