SQL Database Training – Introduction

Description

Discover our SQL database training designed for professionals who want to build strong skills in data management. This SQL course provides clear and practical foundations to understand and effectively use a relational database management system. With a step-by-step approach, you will first learn the essential principles and then explore more technical aspects such as data modeling and performance optimization.

Why take this SQL training

Learning SQL is a major asset for developers and professionals working with data. Today, organizations handle increasingly large volumes of information. Understanding the structure and functioning of an SQL database is therefore essential to ensure reliability, consistency, and performance of information systems. This training guides you step by step to build robust and optimized databases. It is designed both for beginners and for those who want to strengthen their technical knowledge.

Course Content
Module 1: Introduction to databases

- Introduction to Relational Databases
- Other Databases and Storage
- Data Analysis
- SQL Server Database Languages

Module 2: Data Modeling

- Data Modelling
- Designing a Database
- Relationship Modeling

Module 3: Normalization

- Fundamentals of Normalization
- Normal Form
- Denormalization

Module 4: Relationships

- Introduction to Relationships
- Planning Referential Integrity

Module 5: Performance

- Indexing
- Query Performance
- Concurrency

Module 6: Database Objects

- Tables
- Views
- Stored Procedures, Triggers and Functions

Lab / Exercises

- This course includes hands-on exercises designed to reinforce your knowledge and apply your skills in real-world professional scenarios.

Documentation

- Digital courseware included

Participant profiles

- 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

Prerequisites

- No prerequisites

Objectives

- Understand the basics of relational databases
- Apply data modeling techniques
- Implement normalization and denormalization
- Manage relationships and referential integrity
- Optimize performance and SQL queries
- Use key database objects

Description
SQL Database Training - Introduction
Niveau
Fondamental
Classroom Registration Price (CHF)
2500
Virtual Classroom Registration Price (CHF)
2350
Duration (in Days)
3
Reference

55315AC