

# SQL Standard Intensive Training (SQL02)

ID SQL02 Price 1,590.— €excl. tax Duration 2 days

## Course Overview

In this training you will learn everything you need to know and be able to query your database on the basis of standard SQL-3.

## Who should attend

Developers, analysts, businessmen and other interested persons who want to work with an SQL-capable database or create applications using the SQL possibilities of the database system. People who want to get well-founded information about SQL, its possibilities, limitations and meaning.

## Prerequisites

General practical experience with computers, pleasure in analytical thinking as well as abstraction and imagination. Basic knowledge of relational databases is advantageous

## Course Objectives

After this training you will be able to query and modify all common relational databases with the standard tools.

## Course Content

### 1. basic terms of relational databases

- Database
- Table (entities, attributes)
- Data types (value ranges)
- primary, foreign key
- Relations
- Data consistency, referential integrity
- View
- Index

### 2. basics about SQL

- History
- Application (basic concept)

- SQL Properties
- SQL Syntaxdiagram
- Naming conventions for objects

### 3. data retrieval, data evaluation and manipulation (DML)

- SELECT
- Simple queries
- Constant columns, calculated columns, aliases
- DISTINCT
- ORDER BY
- TOP
- WHERE
- Aggregate functions
- GROUP BY / HAVING
- JOIN (INNER, OUTER, FULL, Self, Cross)
- Subqueries
- UNION
- SELECT INTO

### 4. add data

- INSERT (VALUES, SELECT)
- UPDATE
- DELETE

### 5. data definition language (DDL)

- CREATE DATABASE
- CREATE TABLE
- Constraints (PRIMARY-, FOREIGN KEY, UNIQUE )
- DROP TABLE
- CREATE VIEW
- ALTER VIEW
- DROP VIEW
- CREATE PROCEDURE

### 6. data control language (DCL)

- Transaction Management
- COMMIT & ROLLBACK
- GRANT & REVOKE

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