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SQL level 1 course content (3-day)

Course Description

SQL or Structured Query Language is a standard language used to communicate with almost any database including MySQL, Microsoft SQL Server, Microsoft Access and Oracle. This course will teach you all you need to know about SQL from basics to advanced joins.

Course Outline:

Introduction

- What is SQL
- Relational Databases
- SQL and Standards
- SQL Implementations
- Client - Server
- SQL Syntax

Select Statements

- Overview of select
- Selecting One Field
- Selecting Multiple Fields
- Using a Wild Card
- Calculations

Filtering Results

- Limiting rows
- Exercise
- Using WHERE
- Using AND/OR and NOT
- Using LIKE

Functions

- String Functions
- Numeric Functions
- Date Functions
- Aggregate (Group) Functions

Sorting and Grouping

- Sorting Results
- Grouping Results
- Column Aliases
- Filtering Using Having

Joins

- Inner Joins
- Self Joins
- Outer Joins
- Joining Multiple Tables

Sub Queries Create, Drop Delete and Alter

- Create Database
- Create Schema
- Create Table Data Types
- Field Modifiers
- Create Select
- Create View
- Drop Queries
- Delete

ALTER TABLE

- INSERT
- INDEXES
- Update Queries
- Transactions
- Database Design