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YOUR COURSE, YOUR WAY - MORE EFFECTIVE IT TRAINING

SQL Introduction / Intermediate

Duration: 3 days

Overview:

Aspect's Introduction to T-SQL for SQL Server training class teaches attendees the T-SQL and SQL Server skills they need to develop queries and data reports using SQL.

Aspect Training's course will enable delegates to:

• Understand how SQL Server works

• Learn to select the required records

• Learn to use SQL to output reports with SQL Server

Prerequisites:

This course can be adapted to any level of prior SQL Server and relational database experience.

Topics:

1 - Relational Databases

Tables

Rows

Columns

Relationships

Datatypes

Primary Keys

Foreign Keys

Relational Database Management System

2 - SQL Statements

Database Manipulation Language (DML)

Database Definition Language (DDL)

Database Control Language (DCL)

3 - Some Basics

Comments
Whitespace and Semi-colons
Case Sensitivity
4 - Selecting Records
Simple SELECTs with SQL Server
SELECTing All Columns in All Rows
Exploring the Tables
SELECTing Specific Columns
5 - Sorting Records
Sorting By a Single Column
Sorting By Multiple Columns
Sorting By Column Position
Ascending and Descending Sorts
6 - The WHERE Clause and Operator Symbols
Checking for Equality
Checking for Inequality
Checking for Greater or Less Than
Checking for NULL
WHERE and ORDER BY
7 - The WHERE Clause and Operator Words
The BETWEEN Operator
The IN Operator
The LIKE Operator
The NOT Operator
8 - Checking Multiple Conditions
AND
OR
Order of Evaluation
Writing SELECTs with Multiple Conditions
9 - Advanced SELECTs with SQL
Calculated Fields
Concatenation

Mathematical Calculations

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10 - Aggregate Functions and Grouping

Aggregate Functions

Grouping Data

11 - Built-in Data Manipulation Functions

Common Math Functions

Common String Functions

Common Date Functions

12 - Subqueries, Joins, and Unions Subqueries

Joins

Table Aliases

Multi-table Joins

Outer Joins

Unions

UNION ALL

UNION Rules

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