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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:

â€¢ Understand how SQL Server works

â€¢ Learn to select the required records

â€¢ 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

Aliases

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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