



0208 942 5724

Email: Info@aspecttraining.co.uk

Web: www.aspecttraining.co.uk

SQL Introduction for SQL Server

Duration: 1 Day

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.

Continued over....



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Course Topics:

Brief History of SQL

Relational Databases

[may be compressed due to attendee experience]

Tables

Rows

Columns

Relationships

Datatypes

Primary Keys

Foreign Keys

Relational Database Management System

SQL Server Objects

Valid Object References

SQL Statements

Database Manipulation Language (DML)

Database Definition Language (DDL)

Database Control Language (DCL)

Simple SELECTs with SQL Server

Introduction to the Northwind Database

Some Basics

Comments

Whitespace and Semi-colons

Case Sensitivity

SELECTing All Columns in All Rows

Exploring the Tables

SELECTing Specific Columns

Sorting Records

Sorting By a Single Column

Sorting By Multiple Columns

Sorting By Column Position

Ascending and Descending Sorts

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

The WHERE Clause and Operator

Words

The BETWEEN Operator

The IN Operator

The LIKE Operator

The NOT Operator

Checking Multiple Conditions

AND

OR

Order of Evaluation

Writing SELECTs with Multiple

Conditions

Advanced SELECTs with SQL Server

Calculated Fields

Concatenation

Mathematical Calculations

Aliases

Aggregate Functions and Grouping

Aggregate Functions

Grouping Data

Built-in Data Manipulation Functions

Common Math Functions

Common String Functions

Common Date Functions

Subqueries, Joins, and Unions with

SQL Server

Subqueries

Joins

Table Aliases

Multi-table Joins

Outer Joins

Unions

UNION ALL

UNION Rules