PURPLE GRIFFON
The IT Service Management Training & Consultancy Specialists

Course Title: Querying SQL Databases Using T-SQL	**Course Duration**: 2.0 Days
Exam: Not Included	**Exam Type**: No Exam
Qualification: Certificate Of Achievement	

Course Syllabus

Our Querying SQL Databases Using T-SQL training course will cover the following topics:

Module 1: Introduction to T-SQL

This module provides essential background information on Relational Database Management Systems and Microsoft SQL Server and introduces the main tool that will be used throughout the course - SQL Server Management Studio.

Lab :

- Familiarize yourself with SSMS
- Introduction to the Query Editor

Module 2: Retrieving Data

This module describes the fundamental part of a T-SQL query: the SELECT statement.

Lab :

- Basic Select statements
- Using expressions in Select lists

Module 3: Filtering Rows

This module describes how you can filter unwanted data out of your results using the WHERE clause.

Lab :

- Basic equality filters
- Basic comparisons
- Logical comparisons
- String comparisons
- NULL comparisons

Module 4: Sorting returned rows

This module describes how to use the ORDER BY clause of a query to manage the order in which rows are returned.

Lab :

- Basic sorting
- Sorting on expressions

- Unique rows
- Limiting results

Module 5: Grouping and Aggregating data

This module describes how to use the aggregate functions of SQL to calculate results for a number of records at a time and how to group results into a series of values. Finally, it describes how to filter the grouped values.

Lab :

- Single aggregates
- GROUP BY
- HAVING

Module 6: Using multiple tables

This module describes how to use JOIN clauses to retrieve data from multiple tables. It also covers the UNION, INTERSECT and EXCEPT keywords

Lab :

- Inner joins
- Outer joins
- Unions

Module 7: Using Views and Stored Procedures

This module provides an introduction to the benefits of using pre-written queries which have been stored in the database.

Lab :

- Using views
- Using stored procedures

Module 8: Common Functions

This module introduces you to some of the basic text, date and null-value manipulation functions that are built in to SQL Server.

Lab :

- Text functions
- Date functions
- NULL functions
- Formatting dates

Appendix : Modifying Data

If time allows and if enough delegates express an interest in the topic, this module gives a brief introduction to INSERT, UPDATE and DELETE statements.

Course Overview

T-SQL is Microsoft's implementation of SQL (Structured Query Language) used to query and manage data in the SQL Server relational database.

Our two-day Querying SQL Databases Using T-SQL training course will provide you with the basic knowledge and skills to create queries using Transact-SQL.

It will teach you how to select, filter and sort data from multiple tables and how to use views and stored procedures.

Course Learning Outcomes

Our Querying SQL Databases Using T-SQL training course will teach you how to:

- Accessing the TSQL language using SQL Server Management Studio (SSMS)
- Getting to use SSMS to write TSQL to write queries using a single table
- Using more than one table using joins such as inner, outer and cross
- Applying filters to the output to reduce the number of rows returned
- Analysing data to return aggregated results using group by and a few functions
- Using functions to convert and cast the data between data types.

Audience

Our Querying SQL Databases Using T-SQL training course is suitable for IT Professionals who will be writing queries for use with Microsoft SQL Server 2005, 2008, 2012, 2014 and 2016. It is also applicable to non-technical power users if they are comfortable using sophisticated software tools like SQL Server Management Studio.

Entry-Level Requirements

There are no technical pre-requisites for our Querying SQL Databases Using T-SQL training course and it assumes no prior knowledge of SQL Server.

Recommended Reading

There is no recommended reading associated with our Querying SQL Databases Using T-SQL training course.

What's Included

Our Querying SQL Databases Using T-SQL training course includes full materials including a comprehensive workbook.

Exam Information

There is no formal examination or certification associated with our Querying SQL Databases Using T-SQL training course. You will earn a certificate of achievement though.

What's Next

Our two-day BCS DevOps Foundation training course is a great starting point for an individual or organisation wishing to embark upon the DevOps journey.

A core understanding of fundamental DevOps values, practices and techniques is essential learning, as you move towards improved workflows and faster deployments.

Our BCS DevOps Foundation training course promotes framework-agnostic learning, and core DevOps values will be at the heart of all discussions, citing specific textbook examples to support these values.

Additional Information

Our Querying SQL Databases Using T-SQL training course will give you the ability to query data with T-SQL.