

Course Outline



Tel: +44 (0) 118 979 4000 Fax: +44 (0) 118 979 4000

Email: training@ptr.co.uk Web: www.ptr.co.uk

Advanced SQL, Stored Procedures & Triggers for Microsoft SQL Server

Course Description:

The objective of this course is to provide a comprehensive understanding of the advanced use of structured query language (SQL) for Microsoft SQL Server and the advanced use of Transact-SQL.

The course will provide delegates with the ability to carry out advanced, complex Data Manipulation Statements (DML) to query on, and change the contents of a relational database and extends this to programming in the Transact-SQL language to create SQL scripts, Stored Procedures and Triggers.

Pre-requisites:

Delegates should be familiar with the Microsoft SQL Server SQL Language to the level of the PTR SQL for SQL Server course.

Course Content:

- **Review of Structured Query Language**
 - SELECT
 - UPDATE
 - INSERT
 - DELETE

- **Advanced Select Statements**
 - The GROUP BY Clause
 - The HAVING Clause
 - Sub-queries
 - Correlated Sub-queries

- **Advanced Update & Delete Statements**
 - Sub-queries
 - Correlated Sub-queries

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- **Programmability**
 - Variables
 - Control-Of-Flow Statements
 - IF
 - WHILE
 - CASE
 - GOTO
 - RETURN
- **Managing Errors**
 - Responding To Errors
 - RAISERROR
 - PRINT
- **Using Transactions**
 - Introduction To Transactions
 - Transaction Isolation Levels
 - Deadlocks
 - Transactional Error Handling
- **Implementing Cursors**
 - Declaring Cursors
 - OPEN
 - FETCH
 - CLOSE
 - DEALLOCATE
 - CURRENT OF
- **Stored Procedures**
 - Introduction To Stored Procedures
 - Creating Stored Procedures
 - Passing values into a Stored Procedure
 - Returning Information From Stored Procedures
 - Altering Stored Procedures
- **Triggers**
 - Introduction To Triggers
 - Creating Triggers
 - Transactional Error Handling

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- **Triggers**
- Using Inserted and Deleted Tables

Course Duration:

5 Days