Introduction to SQL

2 day training course







Course contents

This course will cover the following topics. Those marked with (*) will be covered if time allows.

Using SQL Server

- SQL Server Management Studio
- Controlling windows
- Using Object Explorer

Creating databases - overview

- Designing databases
- Primary keys

Working with tables

- Creating tables
- Allowing nulls or not
- Identity fields
- Creating relationships

Query Designer

- Building queries
- Editing queries in the designer

Simple Queries

- Creating queries
- Comments
- Indentation and case

Setting criteria using WHERE

- Wildcards (% and _)
- Setting criteria for dates
- Coping with nulls

Calculations

- Calculated columns
- Using aliases
- String functions and concatenation

Calculations using dates

- GetDate
- Converting dates
- Useful date functions

Basic joins

- Inner joins
- Table aliases
- Left and right outer joins

Aggregation and grouping

- SUM, AVG, MIN, MAX
- Various ways to count
- Grouping by fields
- Using HAVING to filter results

Views

- The view designer
- Limitations of the designer
- Scripting views

Subqueries (*)

- The concept of a subquery
- Syntax of subqueries
- Using subqueries in a query

Derived tables and CTEs (*)

- Using derived tables
- Common Table Expressions (CTEs)
- Multiple CTEs in a single query

Pre-requisites for Introduction to SQL course

There aren't any pre-requisites for this course, although you'll find it easier if you've already seen a relational database (one with lots of tables joined together). The course uses SQL Server Management Studio, although if you're booking an onsite SQL course we will on request use Azure Data Studio instead.

Prices

Venue	Address	Price per place
London	Landmark, 99 Bishopsgate, London EC2M 3XD	£1,425 per person + VAT
Manchester	Holiday Inn, 25 Aytoun Street, Manchester M1 3AE	£1,050 per person + VAT
Online	Your home or office!	£875 per person + VAT

Scheduled Dates

Dates	Venue	Times	Price per place	Booking
Mon/Tue 07-08 December 2026	Online	09:30-16:30	£875 + VAT	Book this
Tue/Wed 12-13 January 2027	Online	09:30-16:30	£875 + VAT	Book this
Thu/Fri 14-15 January 2027	London	09:30-16:30	£1,425 + VAT	Book this
Thu/Fri 04-05 February 2027	Manchester	09:30-16:30	£1,050 + VAT	Book this
Thu/Fri 11-12 February 2027	Online	09:30-16:30	£875 + VAT	Book this

If you can't see the dates that you want, ask us about organizing a customized course at your office (we'll provide and set up the computers), or else an online course tailored to your needs.