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TRAINING

## Structured Query Language (SQL)

**Duration:** 3 days

**Price:** £845 + vat

### Prerequisites

Familiarity with relational database design is recommended

Previous programming experience is recommended but not essential

This Structured Query Language (SQL) training course will teach the student how to read and write good SQL for querying, updating and maintaining SQL Server databases. The course progresses through the elements of the language to build a thorough appreciation and understanding of SQL's capabilities and power. It covers ANSI-standard SQL and some of the common extensions.

This course is made up of a mix of theory and practical sessions. You will complete a series of exercises that cover all the important components of the language and allow you to practise your SQL.

### Objectives

After this training course, delegates will:

- Describe where the SQL language came from and its set-based mode of operation
- Write SQL statements to create and manipulate database objects and data
- Read SQL effectively
- Write queries to join many related tables
- Use the features of the language to safeguard the data and its value to the user
- Recognise the dangers inherent in the language that may return the right result but would be fatally flawed with different data

### Course Content

#### Introduction to Relational Databases

- The need for an SQL standard
- The ANSI standards
- What is a database?
- What is a relational database?
- Components of a relational database
- Normalised data
- Anatomy of a table
- Primary and foreign keys
- Joins
- Components of SQL

**continued...**

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### Related Courses

**SQL Server:** 2 days

**ASP.Net:** 2 days

**VB.Net:** 2 days

**C# & .Net:** 5 days

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### Data Manipulation Language

- SELECT operations
- DISTINCT
- Virtual columns
- Column aliases
- Functions
- Restricting the rows returned
- Multiple conditions
- Ordering data
- Inserting rows
- Updating rows
- Deleting rows

### Joining tables

- The theory of joining tables
- Cross, Inner, Outer, Full, Left and Right
- Composite joins
- Table aliases
- SQL92 and SQL89 Join syntax

### Data Definition Language

- Data types
- Column attributes
- Create table
- Primary and foreign keys
- Referential integrity
- Alter and drop tables

### Views

- Defining simple views
- Views with virtual columns
- Restricted-column views
- Joined-table views
- Restricted-row views
- View restrictions

### Summarised Queries

- Table aggregates
- GROUP BY and aggregates
- The HAVING clause

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### Subqueries

- Using simple Subqueries
- EXISTS
- Correlated Subqueries

### Further Data Manipulation Language

- Unions
- Self joins

### Data Control Language

- Identifying users
- Setting privileges
- GRANT and REVOKE

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