



## MICROSOFT SQL SERVER

### Description:

Microsoft SQL is a robust programming language designed for managing and optimizing data within Relational Database Management Systems (RDBMS). It serves as the backbone for many modern technologies, enabling efficient data storage, retrieval, and manipulation to ensure seamless operation and consistency in today's data-driven environments.



**We have 1 standard level of Microsoft SQL:**

## INTRODUCTION

- This course provides a comprehensive introduction to SQL, focusing on creating tables and designing relational databases. You'll explore the tools and techniques within SQL Database Management Systems (DBMS) to build efficient, scalable, and robust database structures tailored for modern data management needs

**\*BESPOKE COURSES | All of our courses can be easily tailored to suit any company.  
Course duration and level can be changed, depending on content, company & individuals\***





# INTRODUCTION

**Course Code: ITDS | Course Title: Foundations of Database Management | Duration: 1 Day  
Delivery: Face To Face & Live Online**

## Course Description:

This course provides a comprehensive introduction to SQL, focusing on creating tables and designing relational databases. You'll explore the tools and techniques within SQL Database Management Systems to build efficient, scalable, and robust database structures tailored for modern data management needs.



## Who Should Attend Microsoft SQL Training?

- Database Administrators
- Software Developers
- Data Engineers
- Application & Report Developers

## Course Requirements:

No previous experience of Microsoft SQL Server is required however the delegate should have knowledge in basic computer skills.

## Course Contents:

- **Overview of SQL Server:** Understanding its components and functionality
- **Designing Databases:** Creating, managing, and configuring databases effectively
- **Creating Tables:** Learning to insert and select data for efficient data handling
- **Understanding Data Structure:** Using primary and foreign keys for relational integrity
- **Creating Views:** Simplifying data access with primary and foreign keys
- **Database Management Tools:** Leveraging MS Access project files for enhanced management
- **Advanced Query Writing:** Mastering inner joins, outer joins, and cross joins
- **Triggers:** Automating tasks to enhance database functionality
- **Stored Procedures:** Utilizing parameters, Transact-SQL, and cursors for advanced operations
- **System Security:** Resolving connectivity issues for ODBC access, web integration & Crystal Reports
- **Optimizing Performance:** Writing efficient queries and managing indexes and relationships

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