

## SQL Language Course Outlines

### Course Duration: 2 Days

**Course Price: £650 Per Person | One to One £750**

**Onsite Price from: £1170 for 2 Delegates | Additional Delegates £100 Per Person, Per Day**

#### The Select Statement

- ... The from clause
- ... Aliasing column names
- ... The select distinct statement
- ... Applied in line comments
- ... Applied block comments

#### Sorting Retrieved Data

- ... Order By Statement

#### Filtering data

- ... Using the where clause
- ... Used and & or operators
- ... Used the between and not between operators
- ... Used the in operator to specify multiple values in a where clause
- ... Search for data using the like operator and SQL wildcards
- ... SQL select top

#### Calculated fields

- ... Used concatenation
- ... Used mathematical operators
- ... Understood aggregate (group) functions
- ... Sum, avg, min, max and count functions
- ... Used the group by statement
- ... Used the having clause
- ... Used the IsNull function
- ... Used case functions

#### Action SQL

- ... SQL insert into
- ... SQL update
- ... SQL delete

#### SQL Joins

- ... Inner joins
- ... Left join
- ... Right join
- ... Full join
- ... SQL union

#### SQL – Creating a Database

- ... Create DB
- ... Create table
- ... SQL constraints
- ... Not null
- ... Unique
- ... Primary key
- ... Foreign key
- ... SQL check
- ... Default
- ... Create index
- ... Drop
- ... Alter
- ... Auto increment

## **Creating Views**

- ... Creating views
- ... Using the with check option
- ... Inserting and deleting rows in a view
- ... Dropping views

## **Working with Transactions**

- ... Transaction properties
- ... Transaction controls

## **Working with Sub Queries**

- ... Understanding sub queries
- ... Sub query rules
- ... Single row sub queries
- ... Multiple row sub queries
- ... Correlated sub queries using aliases
- ... Nested sub queries

## **SQL Stored Procedures**

- ... SQL procedure syntax
- ... Define a SQL procedure
- ... Call a procedure
- ... Alter a procedure
- ... Drop a procedure