



This course covers the following topics (any items marked with a \* 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

Maximum 6 people per course. Scheduled classroom courses include lunch at a local restaurant; you can see how our online training works [here](https://www.wiseowl.co.uk/). For more information, see <https://www.wiseowl.co.uk/>.