

# Introduction to MySQL

Classroom or online training course 2 day course outline

This course covers the following topics (any items marked with a \* will be covered if time allows). Note that this is a new course (this which means that we don't guarantee to run all scheduled dates).

## MySQL installation overview

- · Installation on Windows
- MySQL Service
- The User account
- · Command line interface

# **Using MySQL Workbench**

- Connections
- The Navigator
- · The main window
- · The schema window

## **Creaitng databases**

- · Designing databases
- · Primary keys

## Working with tables

- · Creating tables
- Field types
- · Creating relationships

# Simple queries

- · Creating SELECT queries
- · Commenting your queries
- Good coding practice
- Table and column aliases

# Setting criteria using WHERE

- · Creating criteria
- Using wildcards
- Filtering by date
- · Handling nulls

#### Calculations

- · Calculated columns
- Using aliases
- · Converting data types
- Using built-in functions

# Calculations using dates

- The current date/time
- · Using date functions

#### **Joins**

- Inner joins
- Giving tables aliases
- · Left and right outer joins

# Aggregation and grouping

- Single statistics
- · Various ways to count
- · Grouping by columns
- Filtering results using HAVING

# Subqueries (\*)

- · Subquery syntax
- · Creating subqueries
- · Using subqueries in a query

## Derived tables and CTEs (\*)

- Using derived tables
- Common Table Expressions (CTEs)
- Multiple CTEs

## Models (\*)

- Entity Relationship Diagrams (ERDs)
- Reverse engineering ERDs

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