



MFE-IT

Reference: KJ/EN/SQL

Language SQL Training Course

Master the Art of Querying Your Databases Accurately

Duration: 3 Days | Hours: 21 h

Remote · Sessions guaranteed from 1 registrant · 60% hands-on practice

DESCRIPTION

Whether you are an analyst, developer, manager or beginner in the world of data, SQL is the key to effectively querying and exploiting a database. Understanding how to structure a query, filter results, aggregate values or link multiple tables is now essential in many professions — from finance to operations to product management.

This training course provides you with a solid foundation to become self-sufficient in querying and analysing relational data, with a progressive and 100% practical approach. The SQL skills you acquire are portable across all major databases (PostgreSQL, MySQL, Oracle, SQL Server) and form a foundation for further skills in BI, data engineering or AI.

LEARNING OBJECTIVES

By the end of this training course, participants will be able to:

- Understand the structures of a relational database (tables, columns, relationships)
- Formulate simple and complex SQL queries
- Use filters, sorts, aggregates and joins effectively
- Manage subqueries and built-in functions
- Create views, aliases and understand basic performance principles
- Gain autonomy in interpreting raw business data

PREREQUISITES

- Comfortable using a workstation (Windows, macOS or Linux)
- No prior knowledge of SQL or databases required
- A background in data, management, support, analysis or IT is recommended

Because each participant is unique, a personalised interview is systematically organised in advance with our expert to design a training programme perfectly aligned with their objectives, level and professional challenges.

TARGET AUDIENCE

Technical and non-technical profiles wishing to manipulate databases (PostgreSQL, MySQL, Oracle, SQL Server) — analysts, developers, support staff and business teams.

DETAILED PROGRAMME

The training alternates between theoretical input and hands-on practice (approximately 60% of the time). Modules are built around practical exercises based on real-world business use cases.

Module 1 – Introduction to Relational Databases

- Tables, schemas and data types
- Primary and foreign keys
- Exploring an existing dataset

Module 2 – Simple Queries: Filter, Sort, Select

- SELECT, WHERE, ORDER BY and LIMIT
- Aliases and basic expressions
- String, date and numeric functions

Module 3 – Aggregation and Grouping

- GROUP BY and HAVING
- COUNT, SUM, AVG, MIN, MAX
- Result formatting and reporting patterns

Module 4 – Joins Between Multiple Tables

- INNER JOIN, LEFT JOIN, RIGHT JOIN, FULL OUTER JOIN
- Combining data from multiple sources
- Self-joins and anti-joins

Module 5 – Nested Queries and Subqueries

- Subqueries in WHERE, SELECT and FROM clauses
- Correlated subqueries
- Common Table Expressions (CTEs)

Module 6 – Best Practices and Views

- Reading a simple execution plan
- Creating views to simplify access
- Common errors and how to avoid them

TEACHING METHODS

Format and Delivery

The training is delivered remotely via an interactive virtual classroom. It can also be delivered on-site, with content customised to match the needs of your professional project. The theory/practice split is approximately 40%/60%.

MFE-IT Ultra-Personalised Format

Each session accommodates between 1 and 3 participants, ensuring highly individualised support. A preliminary interview allows us to tailor the content to each participant's profile. Inter-company sessions are guaranteed from just 1 registrant (except in cases of force majeure).

Skills Assessment

Throughout the training, the trainer assesses participant progress through multiple-choice questions, role-playing exercises and hands-on work. At the end, a certificate of achievement is issued to each participant.

Post-Training Support

For one month following the training, each participant can contact MFE-IT trainers with questions about implementing acquired knowledge. A response is provided by email or telephone within 48 working hours.

Accessibility

MFE-IT is committed to welcoming people with disabilities. Contact: contact@mfe-it.com.

PRACTICAL INFORMATION

Trainer Resources

- Structured demonstrations aligned with the detailed programme
- Exercise briefs and solutions throughout the training
- A ready-to-use technical environment for practical workshops
- Trainer validation of acquired knowledge at the end of each workshop
- Digital reference documents

Certification and Validation

At the end of the training, a certificate is sent by email specifying the objectives, nature, duration and assessment results. A completion certificate can also be provided on request.

Benefits for Participants

- Train from your workplace or home, with no travel required
- Benefit from an expert trainer-consultant on the subject
- Enjoy an ultra-personalised format (1 to 3 participants)
- Continue training even in the event of unforeseen circumstances

Benefits for the Organisation

- Optimise the training budget by reducing travel and accommodation costs
- Offer quality training to all employees, regardless of location
- Reduce absence time linked to travel
- Support team upskilling in all contexts