

DATA ANALYSIS WITH MYSQL

"Transforming Raw Data into Actionable Insights Using SQL Queries and Functions"

Schedule

Date	Venue	Fees (Face-to-Face)
06 - 10 Jul 2026	Dubai, UAE	USD 3495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

In the age of data-driven decision-making, professionals need the ability to access, manipulate, and analyze data efficiently. MySQL remains one of the most widely used relational database systems for analytics, reporting, and business intelligence tasks. This course provides hands-on skills in writing SQL queries, performing data aggregation, cleansing datasets, and generating insights directly from structured databases.

Participants will explore real-world datasets and use SQL functions to analyze trends, summarize data, and support data-driven decisions across business domains.

Objectives

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

- Write efficient SQL queries to extract, filter, and join data
- Perform aggregation, grouping, and conditional analysis
- Clean, format, and validate data within SQL environments
- Use subqueries, views, and stored procedures for advanced analysis
- Create data summaries to support dashboards and reports

Why Attend

- Build fluency in SQL for data analysis and business intelligence
- Analyze operational data without depending on developers
- Increase speed and accuracy in decision-support tasks
- Gain practical experience using real business datasets
- Prepare for roles in analytics, reporting, and database management

Target Audience

This program is designed for:

- Data analysts and business intelligence professionals
- Financial, marketing, and operations analysts
- IT professionals and database administrators
- Project managers and functional team leads
- Anyone who works with structured data and reports

Individual Benefits

Key competencies that will be developed include:

- Data extraction and transformation using SQL
- Aggregating and analyzing KPIs across datasets
- Structuring reusable queries and data views
- Detecting and correcting data quality issues
- Building queries that support visual dashboards and reporting tools

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Reduced dependency on technical teams for data access
- Faster, more accurate reporting and decision support
- Improved internal data literacy and analysis culture
- More consistent use of data across departments
- Stronger alignment of operations and analytics functions

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - Database structure, SQL logic, query performance
- Case Studies - Business analysis scenarios using SQL
- Workshops - Write and optimize SQL queries for real datasets
- Peer Exchange - Share query design approaches across departments
- Tools - MySQL Workbench, command line tools, data model templates

Course Outline

Training Hours: 7:30 AM - 3:30 PM Daily Format: 3-4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 - 02:00

Day 1: SQL Fundamentals and Data Structures

- Module 1: Introduction to Relational Databases and MySQL (07:30 - 09:30) • Tables, relationships, primary/foreign keys
- Module 2: Writing Basic SQL Queries (09:45 - 11:15) • SELECT, FROM, WHERE, ORDER BY
- Module 3: Filtering and Sorting Data (11:30 - 01:00) • Conditions, wildcards, logical operators
- Module 4: Workshop - Extract Sales and Customer Data (02:00 - 03:30) • Build basic queries from sample dataset

Day 2: Aggregation and Grouped Analysis

- Module 5: Using Aggregate Functions (07:30 - 09:30) • COUNT, SUM, AVG, MAX, MIN
- Module 6: Grouping Data with GROUP BY and HAVING (09:45 - 11:15) • Segment-level analysis
- Module 7: Conditional Aggregations and CASE Logic (11:30 - 01:00) • Custom calculations and flags
- Module 8: Workshop - Generate Summary KPIs by Region/Product (02:00 - 03:30) • Analyze metrics across categories

Day 3: Joins and Data Relationships

- Module 9: INNER, LEFT, RIGHT, and FULL JOINS (07:30 - 09:30) • Combining data from multiple tables
- Module 10: Handling NULLS and Data Integrity (09:45 - 11:15) • Dealing with missing or unmatched data
- Module 11: Multi-table Joins and Table Aliases (11:30 - 01:00) • Efficient query writing
- Module 12: Workshop - Join Orders, Customers, and Product Tables (02:00 - 03:30) • Analyze sales pipeline with full data model

Day 4: Advanced SQL for Analysis

- Module 13: Subqueries and Nested SELECT Statements (07:30 - 09:30) • Filter, compute, and compare inside queries
- Module 14: Creating Views for Reusable Queries (09:45 - 11:15) • Save logic for reporting or dashboards
- Module 15: Intro to Stored Procedures and Functions (11:30 - 01:00) • Automate analysis workflows
- Module 16: Workshop - Build a Reusable Report View (02:00 - 03:30) • Create view for weekly performance summary

Day 5: Data Cleaning, Validation, and Reporting Support

- Module 17: Data Quality Checks in SQL (07:30 - 09:30) • Identify duplicates, missing fields, data outliers
- Module 18: String and Date Functions (09:45 - 11:15) • CONCAT, SUBSTRING, DATE_FORMAT, DATEDIFF
- Module 19: Final Project - Dashboard-Ready Dataset Creation (11:30 - 01:00) • Design dataset for visualization or export
- Module 20: Wrap-Up and Skills Assessment (02:00 - 03:30) • Practice test and feedback session

Certification

Participants will receive a Certificate of Completion in Data Analysis with MySQL, validating their ability to write SQL queries, analyze structured datasets, and support decision-making through database-driven insights.

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