

# Optimizing SQL queries in MySQL

Course code: GOC664

The course Optimizing SQL queries in MySQL contains all important information and techniques to ensure optimal performance of your queries or used MySQL database system functionality.

## Who is the course for

- The course is designed for database professionals who have experience with the development of database system and want to know how to write optimized SQL queries

## After completing this course, students will be able to use new features in these areas:

- Use advanced techniques for optimizing SQL
- Design and use indexes
- Optimization procedure
- Other optimization methods

## Required skills

- Basic knowledge of IT and PC
- Knowledge of SQL in MySQL
- Knowledge of database development

## Course Outline

### Recap advanced queries to optimize performance

- Integrity Constraints
- Join techniques
- Subqueries and Operators

### Indexes

- Structure and types of indexes
- Design and development indexes
- Index usage with SELECT statement
- Explain
- FullText search

### Performance optimization

- Restructuring query
- Practical approach to optimizing

### Other types of optimization

- Partitioning
- Optimization tables
- Cache
- Configure MySQL
- Important configuration parameters to optimize

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