



# **Effective SQL for Data Management and Reporting Training Course**

**07 - 11 Sep 2026**

**Tokyo**

**6500 € (Per Person)**

**Ref: #DM3112\_532596**



## **Course Introduction / Overview:**

In a world that is driven by data, the ability to manage and retrieve information from databases is a skill that is vital for almost every business professional. SQL, or Structured Query Language, is the universal language for interacting with databases, and mastering it is the key to unlocking valuable insights. This training course is designed to take participants from the basics of SQL to advanced techniques for data management and reporting. We will cover everything from simple queries to complex joins, data aggregation, and database design principles. The course is not just about writing code; it is about learning how to think in terms of data, how to find the information you need, and how to create powerful reports. The program focuses on practical application, using real-world scenarios and hands-on exercises to give you the skills you can use right away. As Judith Hurwitz and Robin Bloor discuss in their book, "Big Data for Dummies," the ability to use query languages like SQL is a foundational skill in the data-driven world. At BIG BEN Training Center, we believe that understanding your data is the first step to making better business decisions. This training course will give you the confidence to use SQL effectively to get the information you need to succeed.

## **Target Audience / This training course is suitable for:**



- Business analysts and data analysts.
- Report developers.
- Marketing and sales professionals.
- IT and database administrators.
- Project managers.
- Anyone who works with large datasets.
- Aspiring data professionals.

### **Target Sectors and Industries:**

- Technology and software.
- Financial services.
- Retail and e-commerce.
- Healthcare.
- Manufacturing.
- Government agencies and the public sector.
- Telecommunications.

### **Target Organizations Departments:**

- Data Analytics and Business Intelligence.
- IT and Database Administration.
- Finance and Accounting.
- Marketing and Sales.
- Operations.
- Product Management.

### **Course Offerings:**

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



- Write basic to advanced SQL queries to retrieve and manipulate data.
- Use functions to clean and transform data.
- Create and manage database tables.
- Combine data from multiple sources using joints and subqueries.
- Perform data aggregation and build summary reports.
- Improve query performance and efficiency.
- Design simple database schemas for business needs.
- Extract meaningful business insights from raw data.

## **Course Methodology:**

This training course uses a hands-on, interactive methodology with a strong emphasis on practical application. The learning environment is built around live coding exercises and real-world case studies, where participants can practice writing SQL queries to solve real business problems. We will start with simple concepts and gradually move to more complex topics, with plenty of time for questions and practice. Our expert trainers will provide direct feedback and support, making sure you gain confidence with every line of code you write. At BIG BEN Training Center, we believe that the best way to learn a technical skill is by doing it. Our methodology makes sure you not only learn the syntax but also understand the logic behind building efficient and effective queries.

## **Course Agenda (Course Units):**

### **Unit One: SQL Fundamentals.**



- Introduction to relational databases and SQL.
- Basic SELECT, FROM, and WHERE clauses.
- Filtering data with operators and conditions.
- Sorting results with ORDER BY.
- The role of primary and foreign keys.
- Using aliases for tables and columns.
- Understanding the database schema.

### **Unit Two: Data Retrieval and Manipulation.**

- Advanced filtering with logical operators.
- Working with wildcards and patterns.
- Creating queries with multiple conditions.
- Inserting, updating, and deleting data.
- Understanding data types.
- Using aggregate functions like COUNT, SUM, and AVG.
- Grouping data with GROUP BY and HAVING.

### **Unit Three: Joining Data from Multiple Tables.**

- Introduction to joins.
- Inner joins and left joins.
- Right joins and full outer joins.
- Using multiple joins in a single query.
- Self-joins for hierarchical data.
- Understanding the difference between joins.
- Practical examples of combining sales and customer data.

### **Unit Four: Subqueries and Views.**



- What is a subquery?
- Using subqueries in the WHERE clause.
- Subqueries in the FROM clause.
- Correlated vs. non-correlated subqueries.
- Creating and managing database views.
- The benefits of views for reporting.
- Practical exercises with complex data questions.

### **Unit Five: Data Reporting and Optimization.**

- Creating a variety of business reports.
- Using conditional logic in queries.
- Advanced reporting techniques.
- Introduction to query optimization.
- Indexing and its impact on performance.
- Best practices for writing efficient SQL.
- Final project: building a comprehensive report.

### **FAQ:**

#### **Qualifications required for registering to this course?**

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

**This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.**

Something to think about:

**In an era of big data where information is everywhere, how does mastering a foundational language like SQL provide a competitive advantage, enabling professionals to not only access data but also to turn it into strategic business insights?**

**What unique qualities does this course offer compared to other courses?**



This training course is unique because it focuses on a practical, business-oriented approach to learning SQL. Many other courses get caught up in theory or are too technical for non-programmers. We have designed this program to be directly relevant to professionals who need to manage and report on data every day. The course is filled with hands-on exercises that are based on real business scenarios, helping you build a portfolio of useful queries. You will not just learn the commands; you will learn how to use them to solve real-world problems. This focus on practical, applied knowledge makes this training an ideal choice for anyone who wants to use data to make smarter decisions, regardless of their technical background.