

Standard SQL-3 & In-depth («SQLB»)

An intensive introductory seminar for DB project managers, developers and administrators as well as an additional in-depth day: «Learning SQL by doing SQL».

Duration: 3 days

Price: 2'700.–

Content

Day 1 and 2:

1. Repetition of the basic concepts of relational databases
 - o Database
 - o Table (entities, attributes)
 - o Data types (value ranges)
 - o Primary, foreign key
 - o Relations
 - o Data Consistency, Referential Integrity
 - o View
 - o Index
 - o ERM
2. SQL basics
 - o History
 - o Application (basic concept)
 - o SQL properties
 - o SQL syntax diagrams
 - o Naming conventions for objects
3. Data retrieval, data evaluation and data manipulation (DML)
 - o SELECT
 - o Simple queries
 - o Constant Columns, Calculated Columns, Aliases
 - o DISTINCT
 - o ORDER BY
 - o TOP
 - o WHERE
 - o Aggregate functions
 - o GROUP BY / HAVING
 - JOIN (INNER, OUTER, FULL, SELF, CROSS)
 - o Subqueries
 - o UNION
 - o SELECT INTO
4. Adding data
 - o INSERT (VALUES, SELECT)
 - o UPDATE
 - o DELETE
5. Data Definition Language (DDL)
 - o CREATE DATABASE
 - o CREATE TABLE
 - o Constraints (PRIMARY KEY, FOREIGN KEY, UNIQUE)
 - o DROP TABLE
 - o CREATE VIEW
 - o OLD VIEW

- DROP VIEW
- CREATE PROCEDURE
- 6. Data control language (DCL)
 - Transaction management
 - COMMIT & ROLLBACK
 - GRANT & REVOKE

Day 3:

Practical review of SQL Basics within a bigger course project:

- SELECT, WHERE
- GROUP BY, HAVING
- INNER and OUTER JOINS

Additional topics:

- DATETIME Functions
- FORMATTING Functions
- CASE STATEMENT
- VIEWS
- Extended Q&A

Key Learnings

- This course will provide you with solid SQL basics. You will learn everything you need to know to thoroughly master Standard SQL.
- Practical exercises provide an immediate plus in your daily work routine.
- The specially developed Digicomp course documentation also provides you with helpful practical tips after the course.
- In-depth practice day putting together all the skills learned in the SQL Standard Course.
- Additional SQL Basics further covering today's on-the-job requirements.

Target audience

This course is aimed at programmers, PC administrators and other people who want to work with an SQL-enabled database or create applications using the SQL capabilities of the database system, as well as people who want to systematically inform themselves about SQL, its possibilities, limitations and meaning.

Additional information

This course is manufacturer-independent. So it does not matter if you work with Oracle, SQL Server, MySQL, DB2, PostgreSQL, MariaDB, TeraData or other relational database systems.

Any questions?

We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-microsoft-technology/microsoft-server/course-standard-sql-3-in-depth