training code: SQL02 / ENG AA 2d / EN

SQL for Analysts

Training recipients

The school has been structured in such a way as to supplement the basic knowledge acquired independently or through previous participation in the SQL01 training. Its content is not only a collection of good practices, but also advanced queries and original expressions. People who use SQL on a daily basis, work as analysts or use SQL databases and want to learn and expand their skills will find something for themselves here.

Benefits

- You will learn good practices regarding the use of databases
- You will understand how the different types of table joins work
- You will see how to apply criteria and regular expressions
- You will understand the professional vocabulary that will help you navigate the world of databases
- You will learn how to use text and logical functions and how to perform operations on dates
- You will learn how to use grouping and aggregation
- You will learn good practices regarding the use of databases
- You will become familiar with the ranking functions and the OVER function
- You will understand how stored procedures and views work
- You will see what is the difference between a CTE and a subquery

Training program

1. The use of scheduling functions
    - Window function OVER()
    - ROW_NUMBER()
    - RANK()
    - DENSE_RANK()
    - NTILE(n)

2. Non-standard data grouping
    - ROLLUP
    - CUBE
    - GROUPING SETS
3. Glossaries, sums, differences and set products
    - UNION
    - UNION ALL
    - EXCEPT
    - INTERSECT
4. Selected functions
    - Text
    - Date and time
    - Mathematical
    - Converting
5. The use of several sources and data combining
    - Subqueries
    - CTE (Common Table Expression) queries
    - The use of views
    - Temporary tables
6. Creating parameterised stored procedures
7. Downloading, sending data
    - data import
    - BULK INSERT
    - Sending SQL commands from VBA code in Excel (ADO Recordset)
8. Performing an operation in a loop
9. Navigating through records
    - FETCH, OFFSET
    - LAG, LEAD
10. Data transformation (PIVOT / UNPIVOT)
11. Recursive CTE
12. Incremental sum

Expected preparation of the participant

Basic knowledge of SQL syntax (such as: SEL: ECT, FROM, JOIN, WHERE, GROUP BY, HAVING, or ORDER BY)

Duration

2 days / 14 hours

Language

English