

SQL for Analysts



Purpose of the training

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 of completing the training

- 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



Expected Listener Preparation

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



Training Language

English



Duration

2 days / 14 hours

Training agenda

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