

# The SQL Server Trail: by Tomer Itzhakov-Nevo

Hello to everyone!

This project sums up 30 topics in SQL Server Language and allows you to practice all of them in a single file. The topics organized from a beginner Level into an Advanced Level. Inside of each topic there is between 4 and 12 questions that starts from a simple question into a harder one. These are the topics:

- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| 1. Simple select questions        | 16. User Defined Functions        |
| 2. Group by questions             | 17. Temporary Tables              |
| 3. Join questions                 | 18. If Statements                 |
| 4. Replacing Null value questions | 19. Derived Tables                |
| 5. Union and Union all questions  | 20. Row Number and Partition by   |
| 6. Mathematical Functions         | 21. Dense Rank and Partition by   |
| 7. Date-Time Functions            | 22. CTE - Common table expression |
| 8. String Functions               | 23. Duplicate values              |
| 9. Finding Character              | 24. Ntile function                |
| 10. Patindex function             | 25. Lag and Lead function         |
| 11. Counting Letters              | 26. Sliding Window                |
| 12. CAST and CONVERT functions    | 27. Basic Pivot                   |
| 13. Stored Procedure              | 28. Basic Unpivot                 |
| 14. Index                         | 29. Multiple CTEs                 |
| 15. Views                         | 30. Recursive CTEs                |

## The project made up of three files:

1. Number 1 - Create Database Tables file.
2. Number 2 - The SQL Server Trail – Solo practice file.
3. Number 3 - Questions and Answers file.

## How to use the SQL Server Trail Project?

1. Open file number 1 and press Execute. This will create automatically the Database name and all the Project Tables.
2. Open file number 2 and start walking on the trail. In the beginning of each topic you will see the topics name, the tables names and the questions. If the file doesn't recognize the tables - go to Edit – Intellisense – Refresh local Cache.
3. If you don't success to answer on a question, you can do two things:
  - A. Explorer the topic and his syntax in the internet.
  - B. Open file number 3, Select and Execute the Answer.