

# Databases Laboratory Work Nr 2

## Title: Creation and Modification of Tables in SSMS

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**Prerequisites:** SQL Server 2019 and SSMS

**Objectives:** get knowledge and practical skills on creating table and modification of tables using SQL.

### Tasks:

- 1) Which of presented numbers will be introduced in field of type DECIMAL(4,1)?
- 2) What type should Col3 have, in order to hold value  $Col1 * Col2$ ?
- 3) Create database 'universitatea' with 2 tables: discipline, grupe.
- 4) Insert values to all tables of databases created in previous task

### Implementation

1. Values of a), b) and c) will be introduced in this field, but value c) will be chopped to 16,2.
2. There can be used INT type, but it might cause problems with precision, so in this case it will be more suitable to use DECIMAL(2,1)
3. Implementation of task is in file named 'Task 3 and 4.sql', which is attached to the file.
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### Conclusion

In this work I got general knowledge of creating tables with different types of columns (INT, DECIMAL, VARCHAR, NVARCHAR, DATETIME, etc.) and modifiers such as UNIQUE, NOT NULL and IDENTITY. Also, I found out how to insert, update and delete values in table, as well as modifying columns of table (alter and delete columns). Moreover, in this work I managed to create a basic constraint – PRIMARY KEY.