



TECHNICAL UNIVERSITY OF MOLDOVA

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DB Laboratory 10

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General purpose:

Learn about SQL Query Language

Tasks:

- Answer Questions at the end of Chapter 10;
- Solve ex. 1 - 8 at the end of Chapter 10.

Task Realization:

In Figure 1 i modified existing trigger and now when any update happens in orarul table it is shown.

CIB171	has Integreare informatională europeană in room 201 at Luni	13:30
CIB171	has Structuri de date și algoritmi in room 201 at Luni	11:30
CIB171	has Baze de date in room 201 at Luni	08:00

Figure 1: Ex 1 Lab 10

In figure 2 I added new trigger. It process the input data to avoid any mistakes in fields.

	Id_Student	Nume_Student	Prenume_Student	Data_Nastere_Student	Adresa_Postala_Student
1	601	UNKNOWN	UNKNOWN	NULL	mun. Chisinau

	Id_Student	Id_Disciplina	Id_Profesor	Id_Grupa	Tip_Evaluare	Nota	Data_Evaluare
1	601	102	102	1	Examen	9	NULL

Figure 2: Ex 2 Lab 10

In figure 3 we can observe that the error appeared because any changes are not allowed for group CIB 171 and no mark decrease is allowed.

```
Msg 220, Level 16, State 2, Line 76
Arithmetic overflow error for data type tinyint, value = -1.
The statement has been terminated.
Msg 50000, Level 16, State 1, Procedure CIB171_guard, Line 14 [Batch Start Line 74]
Students mark from CIB171 group cant be decreased
Msg 3609, Level 16, State 1, Line 78
The transaction ended in the trigger. The batch has been aborted.
```

Figure 3: Ex 3 Lab 10

In figure 4 we observe again an error message because user tries to modify phe column idDisciplina. that is not allowed

```
Msg 5074, Level 16, State 1, Line 95
The object 'Ex4Lab4' is dependent on column 'Disciplina'.
Msg 4922, Level 16, State 9, Line 95
ALTER TABLE ALTER COLUMN Disciplina failed because one or more objects access this column.
```

Figure 4: Ex 4 Lab 10

In figure 5 we observe again an error message because user tries to modify the database not in work hours

```
Schema can not be modified in non-working hours!
Msg 3609, Level 16, State 2, Line 121
The transaction ended in the trigger. The batch has been aborted.
```

Figure 5: Ex 5 Lab 10

Conclusion

During This lab work i find out how to Make Triggers. They are important part of sql because they handle events, so ic case that something unexpected happens it will be cached and examined. [1]

References

- [1] SQL Server Management Studio 2017, Tutorials for Lab 10
- [2] MSSQL Official Documentation <https://docs.microsoft.com/en-us/sql/t-sql/language-elements/try-catch-transact-sql?view=sql-server-2017>