

TECHNICAL UNIVERSITY OF MOLDOVA

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DB Laboratory 5

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General purpose:

Learn about SQL Query Language

Tasks:

Task Realization:

In Figure 1 Is the result of Finding Max Number, I used 2 If statements to find that number.

Figure 1: Finding Max number Using IF-Else

To Solve Next Task i Used WHILE statement, and i incremented the counter from 1 to 10 and printed each line one by one. Also I used variable to store the ID of the discipline "Baze de date".

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	Prenume_Student	Nume_Student	Nota	
1	Alexandru	Matasari	10	
	Prenume_Student	Nume_Student	Nota	
1	Andrei	Ghiran	10	
	Prenume_Student	Nume_Student	Nota	
1	Constantin	Paros	10	
	Prenume_Student	Nume_Student	Nota	
1	Florina	Dascal	10	
	Prenume_Student	Nume_Student	Nota	
1	Maria	Mesesan	10	
	Prenume_Student	Nume_Student	Nota	
1	Sergiu	Orian	10	
	Prenume_Student	Nume_Student	Nota	
1	Stefana	Judea	10	
	Prenume_Student	Nume_Student	Nota	
1	Alexandru	Рор	9	
	Prenume_Student	Nume_Student	Nota	
1	Andrei	Irimus	9	
	Prenume_Student	Nume_Student	Nota	

Figure 2: Top 10 Students, ad their marks

For this Task I used Case one statement. It Has Two decision making branches for b1 max and b2 max, and ELSE case when none of n1 or n2 are greater than n3

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-4 1 0.5 MAX NUMBER IS 1

Figure 3: Finding Max Number Using CASE

Here I customized the way of selecting random number, so now i create two integer random numbers in the interval -5 to 5 and divide them one by another. In these way i hope i increase the randomization, But the second number can be 0. So i Try to catch Zero Division Error.

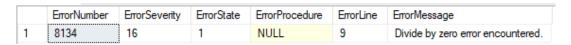


Figure 4: Try Catch Block

In Last Task I did my own custom Error, and i try to catch that error. So in case when it cant find the ID of the discipline it means that it was inserted with some mistakes.

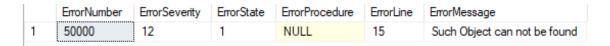


Figure 5: Custom Raise Error inside Try Catch Block

Conclusion

During This lab work i find out how to define and Use System and custom/user's variables. I gained skills with Control-Flow Operands like If-Else or Case. Also I figured out how to handle exceptions in my SQL code. [1]

References

- [1] SQL Server Management Studio 2017, Tutorials for Lab 5
- [2] MSSQL Official Documentation https://docs.microsoft.com/en-us/sql/t-sql/language-elements/try-catch-transact-sql?view=sql-server-2017