Databases Laboratory Work Nr. 3

CREAREA ŞI MODIFICAREA TABELELOR iN SQL SERVER MANAGEMENT STUDIO

Prerequisites:
Processor, RAM memory, monitor, Operating system, framework;

Objectives:
- Study Chapter 3;
- Complete the practical tasks.

Tasks:
1. Which of the following numbers, presented below, could be introduced in the field of DECIMAL(4,1) type?
   a)16,2; **b)**116,2; **c)**16,21; **d)**1116,2; **e)**1116,21;
2. Let [Col1] from the table below be of INT type and [Col2] of DECIMAL(2,1)

Tabel	Col1	Col2	Col3
	1	1.0	
	2	1.0	

What type of data should be in [Col3] to store the result of the next operation: Col1*Col2.

3. Create a database called **universitatea** with default properties. In this database, create 2 tables **(grupe, discipline)**, whose schemas are defined in section 3.3 of the chapter.
4. Insert in the respective tables in **universitatea** database the provided data.

Implementation:

Task 1: The correct answer is **b)**, because the DECIMAL(4,1) consists of 4 digits totally, from which one is after the decimal point.

Task 2: The data type of 3rd column will be DECIMAL(2,1), the same as the data type of 2nd column.

Task 3: The Tables where created in the Universitatea database, selecting Tables in properties. I've put tables and columns names and introduced the datatypes of every column.

Column Name	Data Type	Allow Nulls
Id_Grupa	smallint	☐
Cod_Grupa	char(6)	☐
Specialitate	varchar(255)	☑
Nume_Facultate	varchar(255)	☑

[Tbl] dbo.grupe

☐ (Identity)
| (Name) | grupe |
| Database Name | Universitatea |

Task 4: For this task we had to complete the tables created earlier with the given data.

DESKTOP-D941FPL.U...a - dbo.Discipline

Id_Discipline	Disciplina	Nr_ore_plan_di...
100	Sisteme de ope...	60
101	Programarea ca...	60
102	Informatica apli...	46
103	Sisteme de calcul	46
104	Asamblare si de...	60
105	Cercetari opera...	76
106	Programarea W...	46
107	Baze de date	60
108	Structuri de dat...	76
109	Retele informat...	46
110	Matematica dis...	60
111	Modelarea siste...	46
112	Limbaje evaluat...	76
113	Programarea a...	60
114	Tehnologii de p...	46
115	Programarea d...	46
116	Proiectarea sist...	60
117	Practica de lice...	80
118	Practica de pro...	80
119	Intergrare infor...	20
120	Programe aplic...	46

	Id_Grupa	Cod_Grupa	Specialitate	Nume_Facultate
	1	CIB171	Cibernetica	Informatica si C...
	2	INF171	Informatica	Informatica si C...
✎	3	❗ TI171	❗ Tehnologii info❗	itica si Cibernetica

Conclusion: This laboratory work was an easy one, we learned how to create tables and introduce the given data. We found out about the data types that are used in SQL Server systems.