## **Databases Laboratory Work Nr 2**

# Title Creating and modifying tables in SQL Server Management Studio

Prerequisites: Reading of the chapter 3 from the book/

Objectives: Creating and modifying tables using the SQL Server Management Studio

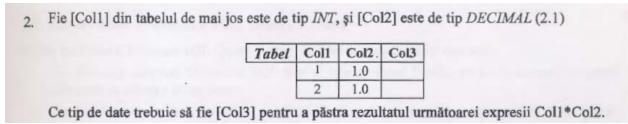
Tasks:

## **Implementation**

```
Care din numerele prezentate mai jos pot fi introduse într-un câmp de tipul DECIMAL(4,1)?
a) 16,2; b) 116,2; c) 16,21; d) 1116,2; e) 1116,21.
```

The response will be the numbers: 116.2 and 16.2.

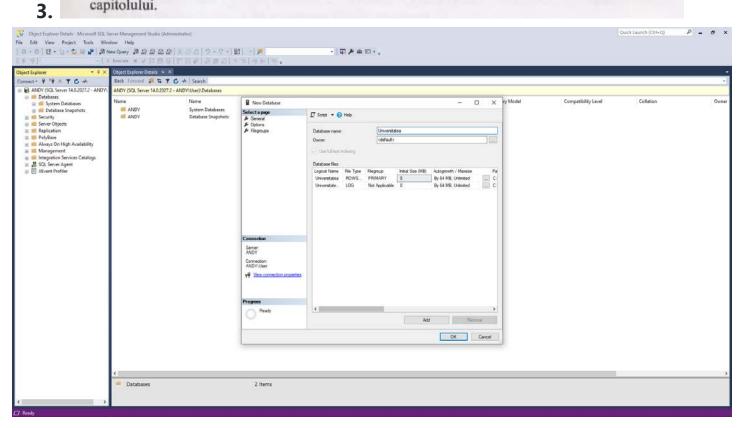
The definition of the *DECIMAL(P, [S])* data type says that as parameters this data type can take P equal to the maximum number of digits and S the number of digits that are allow before point, so the DECIMAL(4,1) will accept a max of 4 digits with 1 digit max after point, this means that: 16.2 is allowed, 116.2 also is allowed, 16.21 is not allowed because it contains 2 digits after point, 1116.2 is also not allowed because it contains in total 5 digits and last 1116,21 is not allow because it contains in total 6 digits, also 2 digits after point.



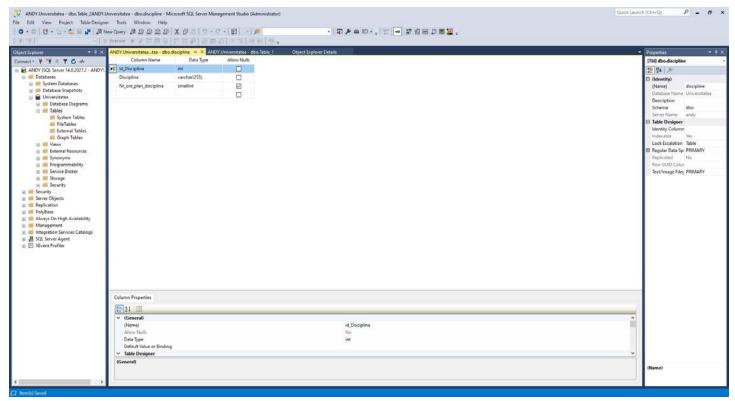
The response is DECIMAL(2,1), because in SQL Server there is when two expressions have data types with different collations, accuracies, scales or lengths and are

combined by an operator, the characteristics of the result are determined, by the precedence rules of the types of data from expressions. The data type DECIMAL is of higher order than INT, then the resulting data type is DECIMAL(2,1).

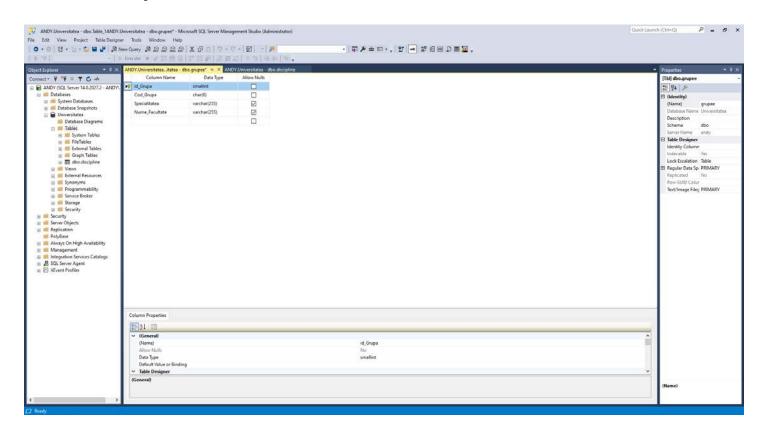
 Creați o bază de date numită universitatea cu proprietăți implicite. În cadrul acestei baze de date, creați 2 tabele (grupe, discipline), schemele cărora sunt definite în secțiunea 3.3 a capitolului.



Create a new data base "universitatea"



Create a new table "Discipline" with the 3 columns first id\_Disciplina, Disciplina and Nr\_ore\_plan\_disciplina with the primary key id\_Disciplina.



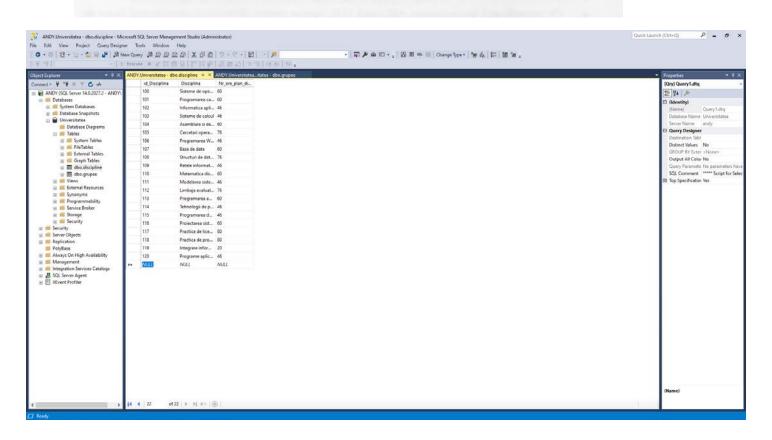
Create a new table "Grupe" with the 4 columns: id\_Grupa, Cod\_Grupa, Specialitatea, Nume\_Facultate with the primary key id\_Grupa.

#### 4. Inserați în tabelele respective ale bazei de date universitatea următoarele înregistrări:

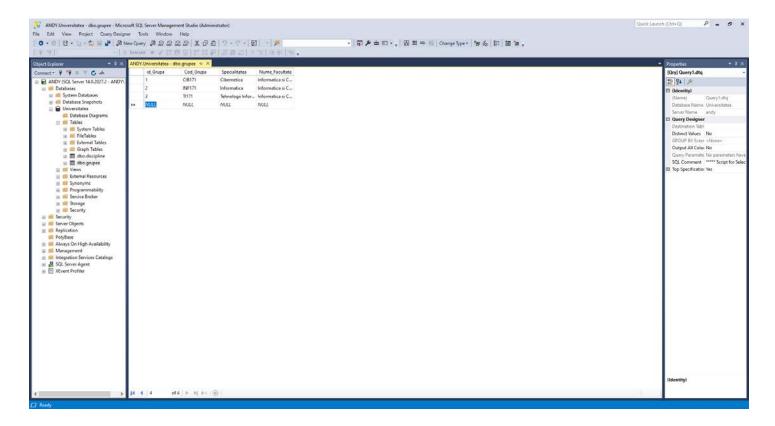
discipline	Id_Disciplina	Disciplina	Nr_ore_plan_disciplina	
	100	Sisteme de operare	60	
	101	Programarea calculatoarelor	60	
	102	Informatica aplicata	46	
	103	Sisteme de calcul	46	
	104	Asamblare si depanare PC	60	
	105	Cercetari operationale	76	
	106	Programarea WEB	46	
	107	Baze de date	60	
	108	Structuri de date si algoritmi	76	
	109	Retele informatice	46	
	110	Matematica discreta	60	
	111	Modelarea sistemelor	46	
	112	Limbaje evaluate de programare (Java, NET)	76	
	113	Programarea aplicatiilor Windows	60	
	114	Tehnologii de procesare a informatici	46	
	115	Programarea declarativa	46	
	116	Projectarea sistemelor informatice	60	
	117	Practica de licenta	80	
	118	Practica de productie	80	
	119	Integrare informationala europeana	20	
	120	Programe aplicative	46	

4.

grupe	Id_Grupa	Cod_Grupa	Specialitate	Nume_Facultate
	1	CIB171	Cibernetica	Informatica si Cibernetica
-	2	INF171	Informatica	Informatica si Cibernetica
	3	TI171	Tehnologii Informationale	Informatica si Cibernetica



### Inserting the given data in the created table "Discipline".



## Inserting the given data in the created table "grupe".

#### **Conclusion**

In this laboratory work I familiarized myself with the SQL Server Management Studio tool for creating and maintaining databases in more details, also studying the necessary information I acquainted the necessary steps for creating a database to which were added some tables that store information. Was learned the process of creating and configuring tables, also there were studied the main data types that SQL Server provide for the configuration of column elements.