**Ministerul Educaţiei și Cercetării al Republicii Moldova**

**Universitatea Tehnică a Moldovei**

**Facultatea Calculatoare, Informatică și Microelectronică**

**RAPORT**

Lucrarea de laborator nr.7

*la Baza de date*

**Au efectuat: Vlasitchi Stefan**

**st. gr. TI-216**

**A verificat:**

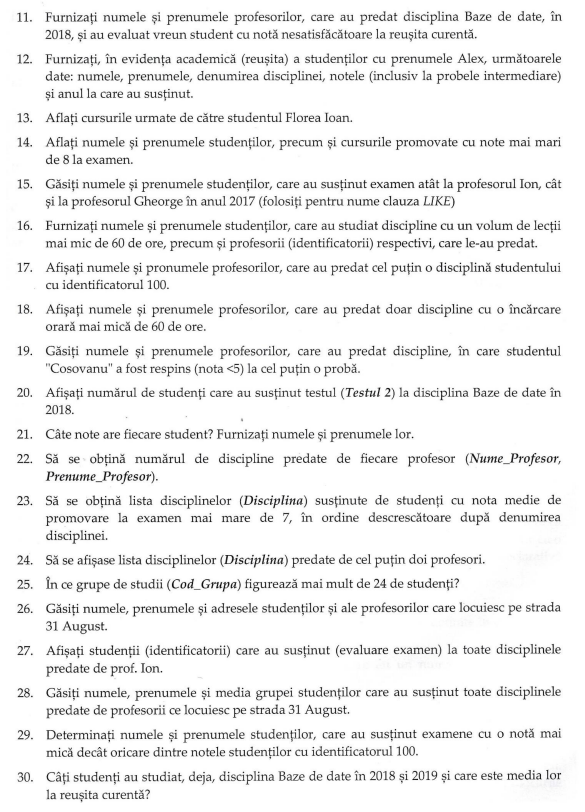
**asist. univ. Cebotar Gabriela**

**Chişinău - 2023**

**Lucrare de laborator nr. 7**

**Tema:** Interogări unirelatie simple in SQL

**Sarcini practice:**



## Efectuarea sarcinilor

**Sarcina 6**

Afisati numele si prenumele primelor 5 studentii care au obtinut note in ordine descrescatoare

la al doilea test la disciplina Baze de Date sa se foloseasca optiunea TOP...WITH TIES

select TOP 5 with ties S.Nume\_Student, S.Prenume\_Student, SR.Nota, SR.Tip\_Evaluare, D.Disciplina

from studenti S

join studenti\_reusita SR

on SR.Id\_Student=S.Id\_Student

join discipline D

on D.Id\_Disciplina=SR.Id\_Disciplina

where SR.Tip\_Evaluare='Testul 2' and D.Disciplina='Baze de Date' order by SR.Nota desc

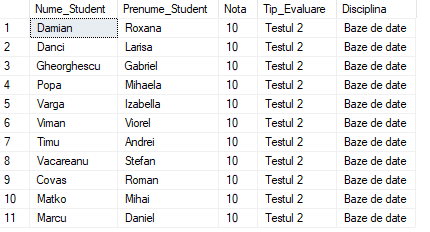


Figura 1. Rezultul interogarii

**Sarcina 7**

In ce grupa (Cod Grupa) invata studenti care locuiesc pe strada 31 August.

SELECT DISTINCT [gr].[Cod\_Grupa], [stu].[Nume\_Student], [stu].[Prenume\_Student], [stu]. [Adresa\_Postala\_Student]

FROM [dbo].[grupe] AS [gr]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Grupa] = [gr].[Id\_Grupa]

INNER JOIN [dbo].[studenti] AS [stu] ON [stu].Id\_Student = [sr].[Id\_Student]

WHERE [stu].[Adresa\_Postala\_Student] LIKE '%31 August%'

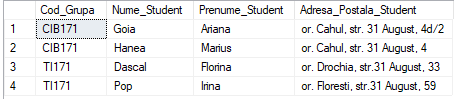


Figura 2. Rezultul interogarii

**Sarcina 8**

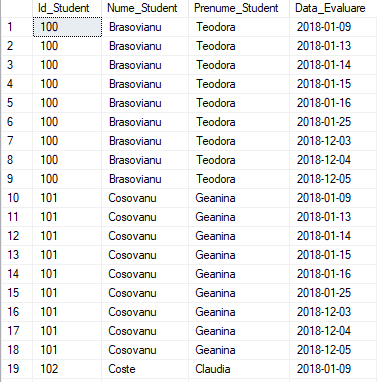
Obtineti identificatori si numele studentilor, ale examenelor sustinute in anul 2018.

SELECT DISTINCT [stu].Id\_Student, [stu].[Nume\_Student], [stu].[Prenume\_Student], [sr].

[Data\_Evaluare]

FROM [dbo].[studenti] AS [stu]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].Id\_Student = [stu].[Id\_Student] WHERE [sr].[Data\_Evaluare] LIKE '2018%'

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**Sarcina 9**

Gasiti numele, adresa studentilor si codul disciplinei la care studentii au avut cel putin

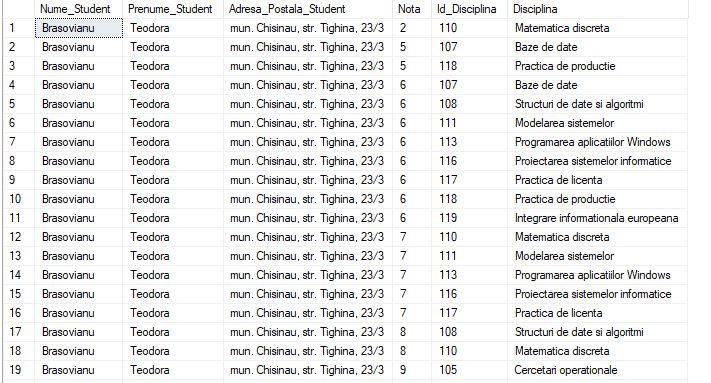
o nota in anul 2018.

SELECT DISTINCT[stu].[Nume\_Student], [stu].[Prenume\_Student],[stu].[Adresa\_Postala\_Student], [sr].[Nota], [dis].[Id\_Disciplina],[dis].[Disciplina]

FROM [dbo].[studenti] AS [stu]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Student] = [stu].[Id\_Student] INNER JOIN [dbo].[discipline] AS [dis]

ON [dis].Id\_Disciplina = [sr].[Id\_Disciplina] WHERE [sr].[Nota] IS NOT NULL

****

**Sarcina 10**

Gasiti studentii (numele, prenumele), care au obtinut la disciplina Baze de Date (examen),

in anul 2018, vrio nota mai mica ca 8 si mai mare ca 4.

SELECT [stu].[Nume\_Student], [stu].[Prenume\_Student] ,[dis].[Disciplina],[sr].[Nota], [sr]. [Tip\_Evaluare]

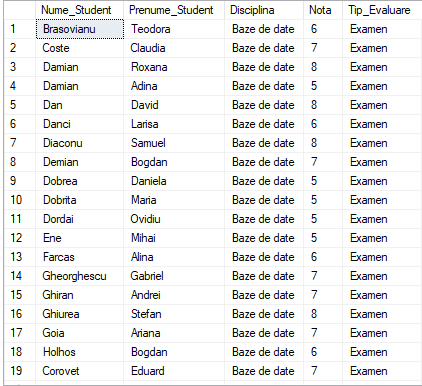
FROM [dbo].[studenti] AS [stu]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Student] = [stu].[Id\_Student] INNER JOIN [dbo].[discipline] AS [dis]

ON [dis].Id\_Disciplina = [sr].[Id\_Disciplina]

WHERE [dis].[Disciplina] = 'Baze de date' AND [sr].[Tip\_Evaluare] = 'Examen' AND [sr].[Nota]

BETWEEN 4 AND 8

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**Sarcina 11**

Furnizati numele si prenumele profesorilor, care au predat disciplina Baze de Date, in 2018,

si au evaluat vriun student cu nota nesatisfacatoare la reusita curenta

SELECT DISTINCT [pro].[Id\_Profesor], [pro].Nume\_Profesor, [pro].[Prenume\_Profesor] FROM [dbo].[profesori] AS [pro]

INNER JOIN [dbo].studenti\_reusita AS [sr] ON [sr].Id\_Profesor = [pro].Id\_Profesor INNER JOIN [dbo].[discipline] AS [dis]

ON [dis].[Id\_Disciplina] = [sr].[Id\_Disciplina]

WHERE [sr].[Data\_Evaluare] LIKE '2018%' AND [dis].[Disciplina] = 'Baze de date' AND [sr].[Nota]

<= '4'

****

**Sarcina 12**

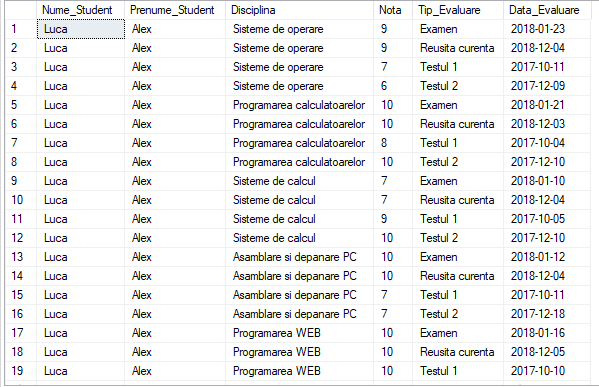
Furnizati, in evidenta (reusita) a studentilor cu prenumele Alex, urmatorele date: numele, prenumele, denumirea disciplinei notele (inclusiv la probele intermediare) si anul care au sustinut.

SELECT [stu].[Nume\_Student], [stu].[Prenume\_Student], [dis].[Disciplina], [sr].[Nota],[sr]. [Tip\_Evaluare], [sr].[Data\_Evaluare]

FROM [dbo].[studenti] AS [stu]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Student] = [stu].[Id\_Student] INNER JOIN [dbo].[discipline] AS [dis]

ON [dis].[Id\_Disciplina] = [sr].[Id\_Disciplina] WHERE [stu].[Prenume\_Student] = 'Alex'

****

**Sarcina 13**

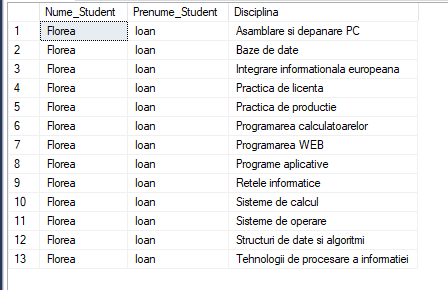
Aflati cursurile urmate de catre studentul Florea Ioan

SELECT DISTINCT [stu].[Nume\_Student], [stu].[Prenume\_Student], [dis].[Disciplina] FROM [dbo].[studenti] AS [stu]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Student] = [stu].[Id\_Student] INNER JOIN [dbo].[discipline] AS [dis]

ON [dis].[Id\_Disciplina] = [sr].[Id\_Disciplina]

WHERE [stu].[Nume\_Student] = 'Florea' AND [stu].[Prenume\_Student] = 'Ioan'

****

**Sarcina 14**

Aflanti numele si prenumele studentilor, precum si cursurile promovate cu note mai mari de

SELECT [stu].[Nume\_Student], [stu].[Prenume\_Student], [dis].[Disciplina], [sr]. [Tip\_Evaluare], [sr].[Nota]

FROM [dbo].[studenti] AS [stu]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Student] = [stu].[Id\_Student] INNER JOIN [dbo].[discipline] AS [dis]

ON [dis].[Id\_Disciplina] = [sr].[Id\_Disciplina]

WHERE [sr].[Tip\_Evaluare] = 'Examen' AND [sr].[Nota] >= 8

****

**Sarcina 15**

Aflati numele si prenumele studentilor, care au sustinut examenat atat la profesorul Ion,

cit si la profesorul Gheorghe in anul 2017 (folosit pentru nume clauza LIKE)

SELECT [stu].[Nume\_Student], [stu].[Prenume\_Student],[sr].[Tip\_Evaluare],[pro]. [Nume\_Profesor],[pro].[Prenume\_Profesor]

FROM [dbo].[studenti] AS [stu]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Student] = [stu].[Id\_Student] INNER JOIN [dbo].[profesori] AS [pro]

ON [pro].[Id\_Profesor] = [sr].[Id\_Profesor]

WHERE [sr].[Data\_Evaluare] LIKE '2017%' AND [sr].[Tip\_Evaluare] Like 'Testul 2' AND [pro]. [Prenume\_Profesor] LIKE 'Ion' --AND [pro].[Prenume\_Profesor] LIKE '%Ion%'

UNION

SELECT [stu].[Nume\_Student], [stu].[Prenume\_Student],[sr].[Tip\_Evaluare],[pro]. [Nume\_Profesor],[pro].[Prenume\_Profesor]

FROM [dbo].[studenti] AS [stu]

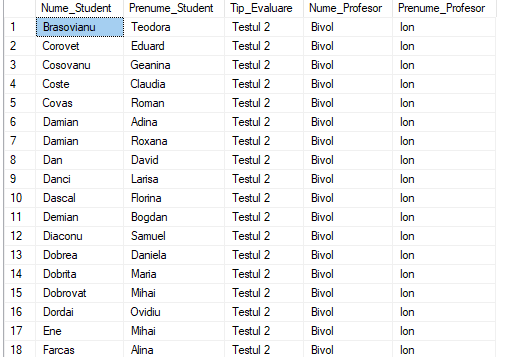
INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Student] = [stu].[Id\_Student] INNER JOIN [dbo].[profesori] AS [pro]

ON [pro].[Id\_Profesor] = [sr].[Id\_Profesor]

WHERE [sr].[Data\_Evaluare] LIKE '2017%' AND [sr].[Tip\_Evaluare] Like 'Testul 2' AND [pro]. [Prenume\_Profesor] LIKE 'Georghe'

--[sr].[Data\_Evaluare] LIKE '2017%' AND

select \* FROM profesori --!!! IN anul 2017 profesori ion nu au avut examene iar profesor cu prenumele george nu a predate

****

**Sarcina 16**

Furnizati numele si prenumele studentilor, care au studiat discipline cu un volum de lectii

mai mic de 60 de ore, precum si profesori (identificatorii) respectivi, care le-au predat.

SELECT DISTINCT [stu].[Nume\_Student], [stu].[Prenume\_Student], [dis].[Disciplina], [dis]. [Nr\_ore\_plan\_disciplina],[pro].[Id\_Profesor],[pro].[Nume\_Profesor],[pro].[Prenume\_Profesor]

FROM [dbo].[studenti] AS [stu]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Student] = [stu].[Id\_Student] INNER JOIN [dbo].[discipline] AS [dis]

ON [dis].[Id\_Disciplina] = [sr].[Id\_Disciplina] INNER JOIN [dbo].[profesori] AS [pro]

ON [pro].[Id\_Profesor] = [sr].[Id\_Profesor] WHERE [dis].[Nr\_ore\_plan\_disciplina] <= '60'

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**Sarcina 17**

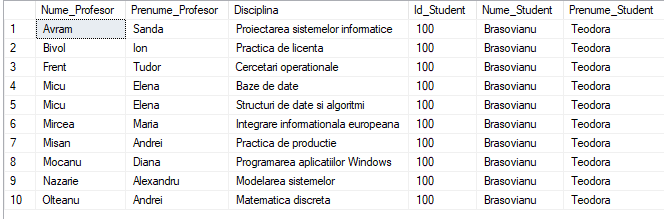
Afisati numele si prenumele profesorilor, care au predat cel putin o disciplina studentului cu identificatorul 100.

SELECT DISTINCT [pro].[Nume\_Profesor],[pro].[Prenume\_Profesor], [dis].Disciplina, [stu]. [Id\_Student], [stu].[Nume\_Student],[stu].[Prenume\_Student]

FROM [dbo].[studenti] AS [stu]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Student] = [stu].[Id\_Student] INNER JOIN [dbo].[discipline] AS [dis]

ON [dis].[Id\_Disciplina] = [sr].[Id\_Disciplina] INNER JOIN [dbo].[profesori] AS [pro]

****ON [pro].[Id\_Profesor] = [sr].[Id\_Profesor] WHERE [stu].[Id\_Student] = '100'

**Sarcina 18**

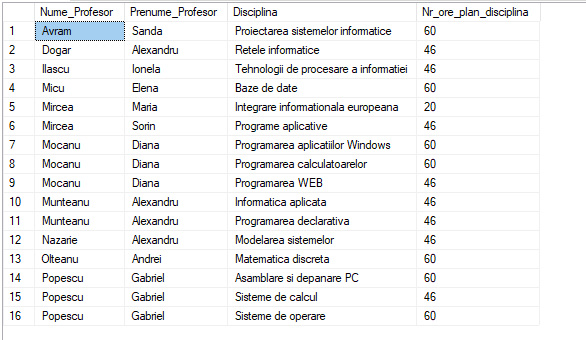
Afisati numele si prenumele profesorilor, care au predat doar discipline cu o incarcare orara mai mica de 60 de ore.

SELECT DISTINCT [pro].[Nume\_Profesor], [pro].[Prenume\_Profesor], [dis].[Disciplina], [dis]. [Nr\_ore\_plan\_disciplina]

FROM [dbo].[profesori] AS [pro]

INNER JOIN [dbo].studenti\_reusita AS [sr] ON [sr].Id\_Profesor = [pro].Id\_Profesor INNER JOIN [dbo].[discipline] AS [dis]

ON [dis].[Id\_Disciplina] = [sr].[Id\_Disciplina] WHERE [dis].[Nr\_ore\_plan\_disciplina] <= '60'

****

**Sarcina 19**

Gasiti numele si prenumele profesorilor, care au predat disciplina, in care studentul "Cosovanu" a fost respins (nota < 5) la cel putin o proba.

SELECT [pro].[Nume\_Profesor], [pro].[Prenume\_Profesor], [dis].[Disciplina], [sr].[Tip\_Evaluare], [sr].[Nota], [stu].[Nume\_Student], [stu].[Prenume\_Student]

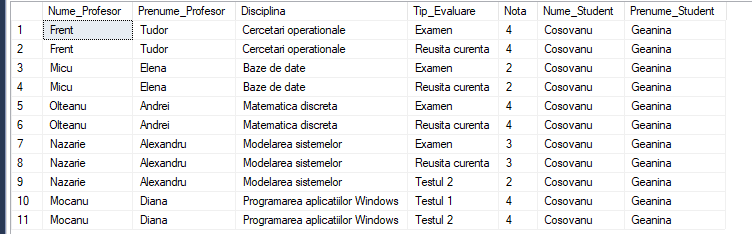
FROM [dbo].[profesori] AS [pro]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Profesor] = [pro].[Id\_Profesor] INNER JOIN [dbo].[discipline] AS [dis]

ON [dis].[Id\_Disciplina] = [sr].[Id\_Disciplina] INNER JOIN [dbo].[studenti] AS [stu]

ON [stu].[Id\_Student] = [sr].[Id\_Student]

WHERE [stu].[Nume\_Student] = 'Cosovanu' AND [sr].[Nota] < = '4'

****

**Sarcina 20**

Afisati numarul de studenti care au sustinut testul (Testul 2) la disciplina Baze de Date in 2018.

SELECT COUNT([stu].[Id\_Student]) --Nume\_Student,Prenume\_Student,Disciplina,Tip\_Evaluare

--COUNT([stu].[Id\_Student])

FROM [dbo].[studenti] AS [stu]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Student] = [stu].[Id\_Student] INNER JOIN [dbo].[discipline] AS [dis]

ON [dis].[Id\_Disciplina] = [sr].[Id\_Disciplina] WHERE [sr].[Tip\_Evaluare] = 'Testul 2'

****

**Sarcina 21**

Cite note are fiecar student? Furnizati numele si prenumele lor.

SELECT [stu].[Nume\_Student], [stu].[Prenume\_Student], NrNote = (SELECT COUNT ([sr].[Nota])

FROM [dbo].[studenti\_reusita] AS [sr] WHERE [sr].[Id\_Student] = [stu].[Id\_Student])

FROM [dbo].[studenti] AS [stu]

****

**Sarcina 22**

Sa se obtina numarul de discipline predate de fiecare profesor (Nume\_Profesor, Prenume\_profesor).

SELECT [pro].[Id\_Profesor], [pro].[Nume\_Profesor], [pro].[Prenume\_Profesor], [NrDisciplinePredate] = (

SELECT DISTINCT COUNT([dis].[Id\_Disciplina] ) FROM [dbo].[discipline] AS [dis]

WHERE [dis].[Id\_Disciplina] IN ( SELECT [sr].[Id\_Disciplina]

FROM [dbo].[studenti\_reusita] AS [sr]

WHERE [sr].[Id\_Profesor] = [pro].[Id\_Profesor] )) FROM [dbo].[profesori] AS [pro]

****

**Sarcina 23**

Sa se obtina lista disciplinelor (Disciplina) sustinute de studentii cu nota medie de

promovare la examen mai mare de 7, in ordine descrescatoare dupa denumirea disciplineis.

SELECT [dis].[Disciplina], [sr].[Tip\_Evaluare], [sr].[Nota], [stu].[Nume\_Student], [stu].

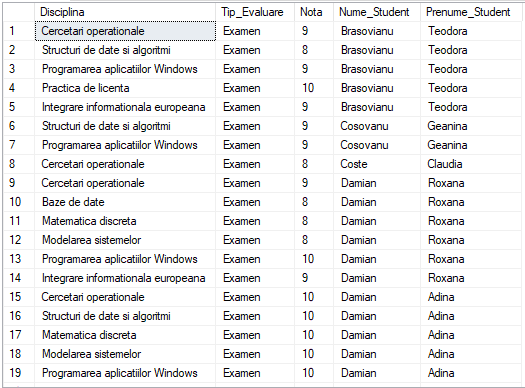
[Prenume\_Student]

FROM [dbo].[discipline] AS [dis]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Disciplina] = [dis].[Id\_Disciplina] INNER JOIN [dbo].[studenti] AS [stu]

ON [stu].Id\_Student = [sr].[Id\_Student]

WHERE [sr].[Tip\_Evaluare] = 'Examen' AND [sr].[Nota] > 7

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**Sarcina 24**

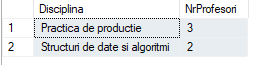
Sa se afiseze lista disciplinelor(Disciplina)predta de cel putin doi profesori.

SELECT [Disciplina], COUNT([Id\_Profesor]) AS NrProfesori FROM (SELECT DISTINCT [dis].[Disciplina], [sr].[Id\_Profesor]

FROM [dbo].[studenti\_reusita] AS [sr] JOIN [dbo].[discipline] AS [dis] ON [sr].Id\_Disciplina = [dis].[Id\_Disciplina]

) AS TEMPTable GROUP BY [Disciplina]

HAVING COUNT(Id\_Profesor) >1

****

**Sarcina 25**

In ce grupe de studii (Cod\_Grupa) figureaza mai mult de 24 de studenti

SELECT DISTINCT [Cod\_Grupa], COUNT([Id\_Student]) AS [NrStudenti] FROM (SELECT DISTINCT [gru].[Cod\_Grupa],[sr].[Id\_Student]

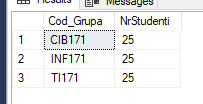
FROM [dbo].[grupe] AS [gru]

JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Grupa] = [gru].[Id\_Grupa]

--JOIN [dbo].[studenti] AS [stu] ON [stu].[Id\_Student] = [sr].[Id\_Student]

) AS TEMPTable GROUP BY [Cod\_Grupa]

HAVING COUNT(Id\_Student) > 24

****

**Sarcina 26**

Gasiti numele, prenumele si adresele studentilor si ale profesorilor care locuiesc pe

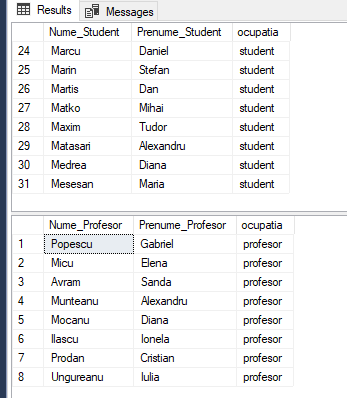
-- strada 31 August

SELECT [stu].[Nume\_Student],[stu].[Prenume\_Student], [ocupatia] = 'student' FROM [dbo].[studenti] AS [stu]

WHERE [stu].[Adresa\_Postala\_Student] LIKE '%Chisinau%' --LIKE '%31 August%' UNION

SELECT [pro].[Nume\_Profesor],[pro].[Prenume\_Profesor], [ocupatia] = 'profesor' FROM [dbo].[profesori] AS [pro]

WHERE [pro].[Adresa\_Postala\_Profesor] LIKE '%Chisinau%' --LIKE '%31 August%'

****

**Sarcina 27**

Aflati studentii (identificatorii) care au sustinut (evaluarea examen) la toate disciplinele de profesorul Ion

SELECT [stu].[Id\_Student], [stu].Nume\_Student, [stu].[Prenume\_Student], [sr].[Nota], [sr]. [Tip\_Evaluare], [dis].[Disciplina], [pro].[Id\_Profesor], [pro].[Nume\_Profesor], [pro].[Prenume\_Profesor]

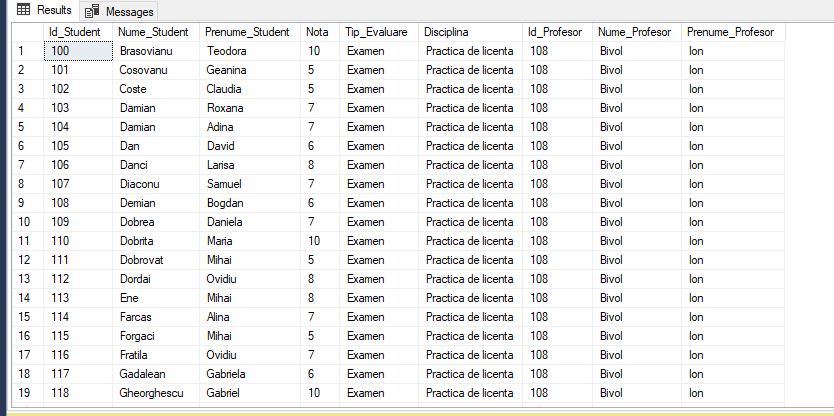
FROM [dbo].[studenti] AS [stu]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Student] = [stu].[Id\_Student] INNER JOIN [dbo].[profesori] AS [pro]

ON [pro].[Id\_Profesor] = [sr].[Id\_Profesor] INNER JOIN [dbo].[discipline] AS [dis]

ON [dis].[Id\_Disciplina] = [sr].[Id\_Disciplina]

WHERE [pro].[Prenume\_Profesor] = 'Ion' AND [sr].[Tip\_Evaluare] = 'Examen'

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**Sarcina 28**

Gasiti numele prenumele si media grupei studentilor care au sustinut toate disciplinele predate de profesori care locuiesc pe strada 31 August.

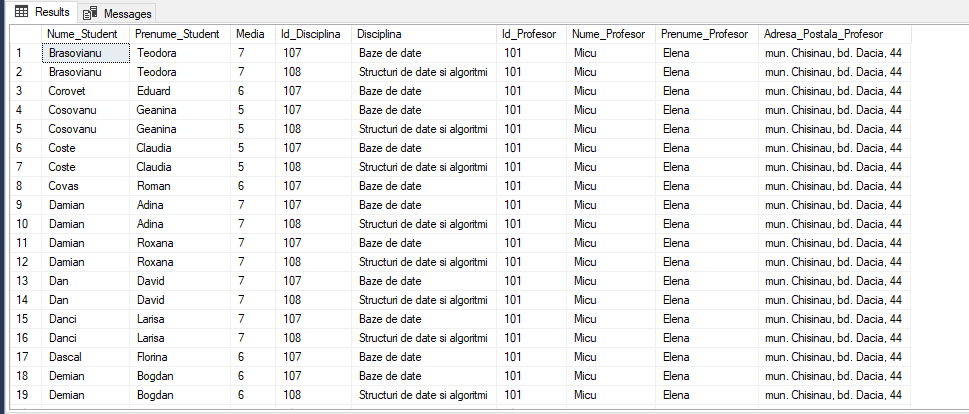
SELECT DISTINCT [stu].[Nume\_Student],[stu].[Prenume\_Student], [Media] = ( SELECT AVG([sr].[Nota])

FROM [dbo].[studenti\_reusita] AS [sr] WHERE [sr].[Id\_Student] = [stu].[Id\_Student]

) ,[dis].[Id\_Disciplina], [dis].[Disciplina], [pro].[Id\_Profesor], [pro].[Nume\_Profesor], [pro].[Prenume\_Profesor], [pro].[Adresa\_Postala\_Profesor]

FROM [dbo].[studenti] AS [stu]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Student] = [stu].[Id\_Student] INNER JOIN [dbo].[profesori] AS [pro] ON [pro].[Id\_Profesor] = [sr].[Id\_Profesor] INNER JOIN [dbo].[discipline] AS [dis] ON [dis].[Id\_Disciplina] = [sr].[Id\_Disciplina] WHERE [pro].[Adresa\_Postala\_Profesor] LIKE '%bd. Dacia%'

****

**Sarcina 29**

Determinati numele si prenumele studentilor, care au sustinut examene cu o nota mai mica decit oricare dintre notele studentilor cu identificatorul 100.

SELECT [stu].[Nume\_Student], [stu].[Prenume\_Student], [sr].[Nota], [sr].[Tip\_Evaluare], [dis]. [Disciplina] --[sr].[Nota])

FROM [dbo].[studenti] AS [stu]

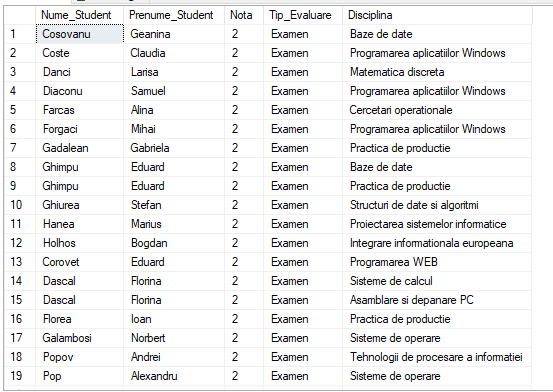
INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].Id\_Student = [stu].[Id\_Student] INNER JOIN [dbo].[discipline] AS [dis] ON [dis].[Id\_Disciplina] = [sr].[Id\_Disciplina] WHERE [sr].[Tip\_Evaluare] = 'Examen' AND [sr].[Nota] < = (

SELECT MIN([sr].[Nota])

FROM [dbo].[studenti\_reusita] AS [sr]

WHERE [sr].[Id\_Student] = 100 --AND [sr].[Tip\_Evaluare] = 'Examen'

)

****

**Sarcina 30**

Cati studenti au studiat, deja disciplina Baze de Date in 2018 si 2019 si care este media lor la reusita curenta?

SELECT [dis].[Disciplina], COUNT(DISTINCT [stu].[Id\_Student]) AS [NrStudenti], AVG([sr].[Nota]) AS [MedieReusitaCurenta]

FROM [dbo].[studenti\_reusita] AS [sr]

INNER JOIN [dbo].[discipline] AS [dis] ON [dis].[Id\_Disciplina] = [sr].[Id\_Disciplina]

INNER JOIN [dbo].[studenti] AS [stu] ON [stu].[Id\_Student] = [sr].[Id\_Student]

WHERE [dis].[Disciplina] = 'Baze de Date' AND ((YEAR([sr].[Data\_Evaluare]) = 2018 AND [sr].[Data\_Evaluare] >= '2018-01-01' AND [sr].[Data\_Evaluare] <= '2018-12-31') OR

(YEAR([sr].[Data\_Evaluare]) = 2019) )

GROUP BY [dis].[Disciplina];

****

**Sarcina 31**

Furnizati numele si prenumele studentilor, care au avut mai mult de doua dezaprobari intr-unan la o disciplina.

SELECT [stu].[Nume\_Student], [stu].[Prenume\_Student], COUNT([sr].[Id\_Student]) AS Numar\_Restante

FROM [dbo].[studenti] AS [stu]

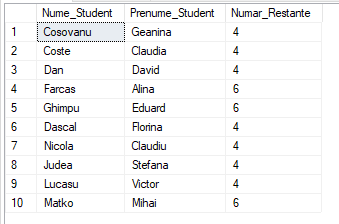
INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Student] = [stu].[Id\_Student]

INNER JOIN [dbo].[discipline] AS [dis] ON [dis].[Id\_Disciplina] = [sr].[Id\_Disciplina]

WHERE [sr].[Nota] < 4 AND [sr].[Data\_Evaluare] LIKE '2018%'

GROUP BY [stu].[Id\_Student], [stu].[Nume\_Student], [stu].[Prenume\_Student]

HAVING COUNT([sr].[Id\_Student]) > 2;

****

**Sarcina 32**

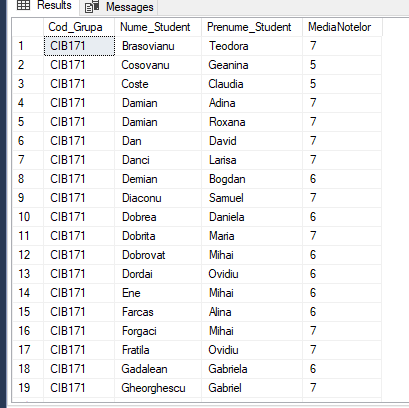
Furnizati numele, prenumel si media notelor pe grupe pentru studenti.

SELECT DISTINCT [gru].[Cod\_Grupa], [stu].[Nume\_Student], [stu].[Prenume\_Student], [MediaNotelor] = (SELECT AVG([sr].[Nota]) FROM [dbo].[studenti\_reusita] AS [sr]

WHERE [sr].[Id\_Student] = [stu].[Id\_Student] ) FROM [dbo].[studenti] AS [stu]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Student] = [stu].[Id\_Student] INNER JOIN [dbo].[grupe] AS [gru] ON [gru].[Id\_Grupa] = [sr].[Id\_Grupa]

ORDER BY [gru].[Cod\_Grupa], [stu].[Nume\_Student], [stu].[Prenume\_Student]

****

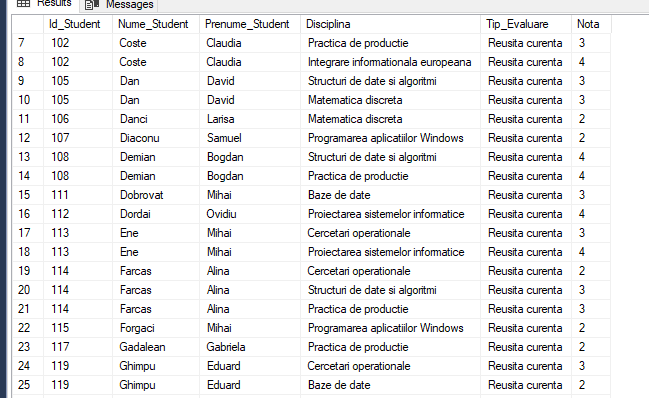
**Sarcina 33**

Gasiti numele si prenumele studentilor, care nu au luat nota de promovare la reusita curenta la nici o disciplina

SELECT [stu].[Id\_Student], [stu].[Nume\_Student], [stu].[Prenume\_Student], [dis].[Disciplina], [sr].[Tip\_Evaluare], [sr].[Nota]

FROM [dbo].[studenti] AS [stu]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Student] = [stu].[Id\_Student] INNER JOIN [dbo].[discipline] AS [dis] ON [dis].[Id\_Disciplina] = [sr].[Id\_Disciplina] WHERE [sr].[Tip\_Evaluare] = 'Reusita curenta' AND [sr].[Nota] < = 4

****

**Sarcina 34**

Gasiti numele si prenumele studentilor, care nu au luat note de promovare (inclusiv note intermediare) la nici o disciplina.

SELECT [stu].[Nume\_Student], [stu].[Prenume\_Student]

FROM [dbo].[studenti] AS [stu]

WHERE [stu].[Id\_Student] NOT IN (

SELECT DISTINCT [sr].[Id\_Student]

FROM [dbo].[studenti\_reusita] AS [sr]

WHERE [sr].[Tip\_Evaluare] = 'Note Intermediare' AND [sr].[Nota] > 5);

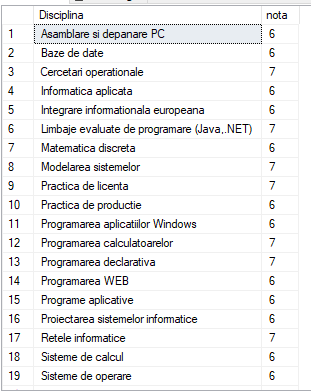
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**Sarcina 35**

Gasiti denumirile disciplinelor si media notelor pe disciplina. Afisati numai disciplinel cu media mai mare de 7.0.

SELECT DISTINCT [dis].[Disciplina], AVG([sr].[Nota]) AS [nota] FROM [dbo].[discipline] AS [dis]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Disciplina] = [dis].[Id\_Disciplina] GROUP BY [dis].[Disciplina]

****

**Sarcina 37**

Gasiti disciplina sustinuta de studenti cu nota medie (la examen) ce mai inalta.

SELECT TOP 1 [dis].[Disciplina], [sr].[Tip\_Evaluare], notaMedie = AVG([sr].[Nota])

FROM [dbo].[discipline] AS [dis]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Disciplina] = [dis].[Id\_Disciplina]

WHERE [sr].[Tip\_Evaluare] = 'Examen'

GROUP BY [dis].[Disciplina], [sr].[Tip\_Evaluare]

ORDER BY notaMedie DESC;

****

**Sarcina 38**

Furnizati denumirile disciplinelor cu o medie mai mica decit media notelor de la disciplina

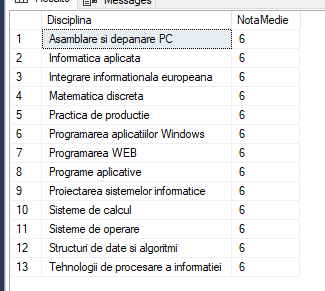
SELECT [dis].[Disciplina], AVG([sr].[Nota]) AS 'NotaMedie' FROM [dbo].[discipline] AS [dis]

INNER JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Disciplina] = [dis].[Id\_Disciplina] GROUP BY [dis].[Disciplina]

HAVING [dis].[Disciplina] != 'Baze de Date' AND AVG([sr].[Nota]) < = ( SELECT AVG([sr1].[Nota])

FROM [dbo].[studenti\_reusita] AS [sr1]

INNER JOIN [dbo].[discipline] AS [dis1] ON [dis1].[Id\_Disciplina] = [sr1].[Id\_Disciplina] WHERE [dis1].[Disciplina] = 'Baze de Date')

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**Sarcina 39**

Gasiti denumirile disciplinelor la care nu au sustinut examenul, in medie, peste 5% de studenti.

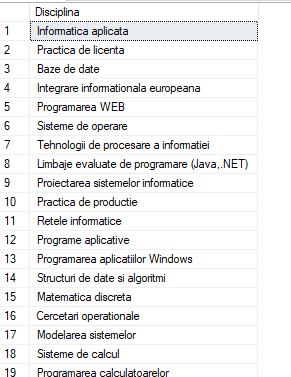
SELECT [dis].[Disciplina]

FROM [dbo].[discipline] AS [dis]

LEFT JOIN [dbo].[studenti\_reusita] AS [sr] ON [sr].[Id\_Disciplina] = [dis].[Id\_Disciplina]

GROUP BY [dis].[Disciplina]

HAVING AVG(CASE WHEN [sr].[Tip\_Evaluare] = 'Examen' AND [sr].[Nota] >= 5 THEN 1 ELSE 0 END) <= 0.05 OR AVG(CASE WHEN [sr].[Tip\_Evaluare] = 'Examen' THEN 1 ELSE 0 END) IS NULL;

****

**Concluzie**

În această lucrare de laborator, s-a explorat utilizarea interogărilor unirelație simple în limbajul SQL. S-au implementat interogări eficiente pentru extragerea informațiilor necesare dintr-o singură tabelă, evidențiindu-se abilitățile de filtrare, grupare și calculare a datelor. A fost analizată importanța comenzilor `SELECT`, `FROM`, și `WHERE` în obținerea rezultatelor dorite. Această experiență consolidează înțelegerea practică a manipulării datelor într-un mediu de bază al bazelor de date relaționale.