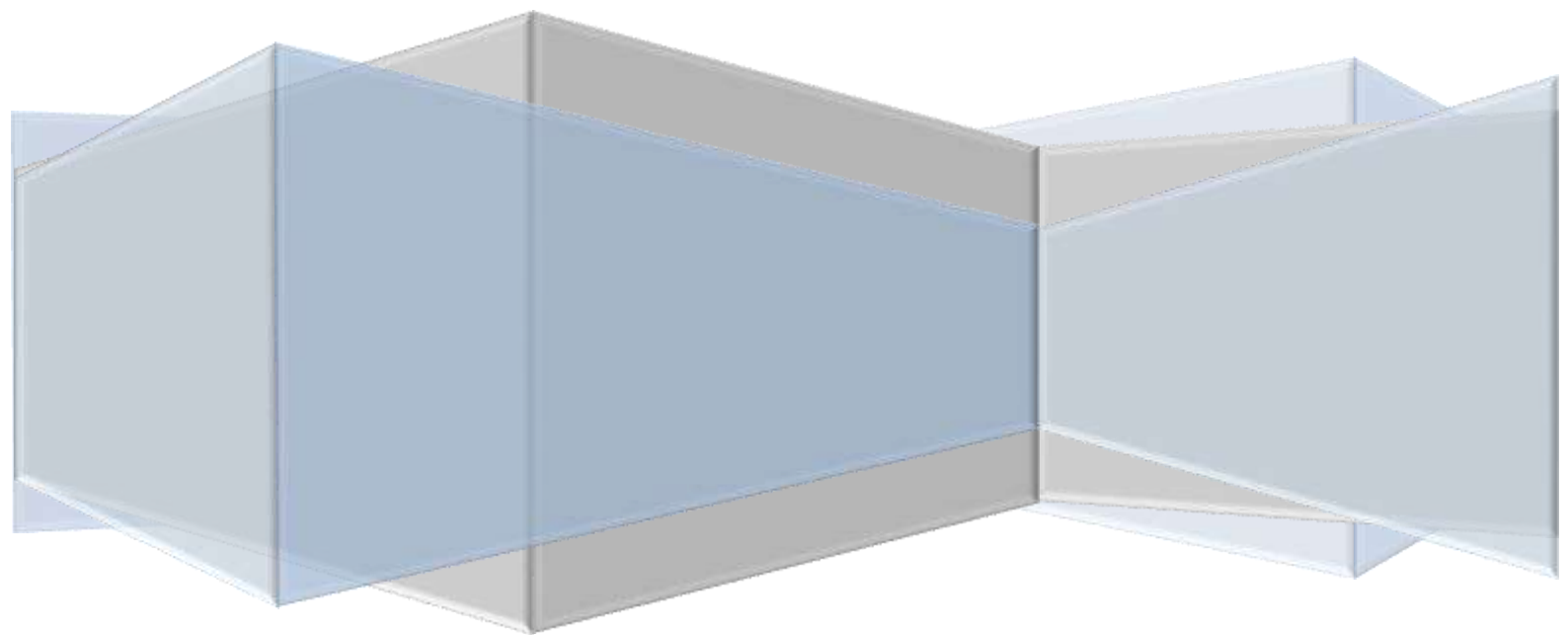


Aplicații MySQL

Prof. Chiș Violeta

w



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Prezentarea aplicației

Folosind aplicația **phpmyadmin** se va crea baza de date **firma**. Baza de date conține două tabele: **angajați** și **departamente**.

Structura celor două tabele este

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> angajati	★ Browse Structure Search Insert Empty Drop	10	InnoDB	latin1_swedish_ci	32 KiB	-
<input type="checkbox"/> departament	★ Browse Structure Search Insert Empty Drop	5	InnoDB	latin1_swedish_ci	16 KiB	-
2 tables	Sum	15	InnoDB	latin1_swedish_ci	48 KiB	0 B

Figura 1 Structura bazei de date

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	idangajati	int(10)		UNSIGNED	No	None			Change Drop More
<input type="checkbox"/> 2	nume	varchar(50)	latin1_swedish_ci		No	None			Change Drop More
<input type="checkbox"/> 3	prenume	varchar(50)	latin1_swedish_ci		No	None			Change Drop More
<input type="checkbox"/> 4	oras	varchar(20)	latin1_swedish_ci		No	None			Change Drop More
<input type="checkbox"/> 5	salariu	decimal(7,2)			No	None			Change Drop More
<input type="checkbox"/> 6	sex	enum('m', 'f')	latin1_swedish_ci		No	None			Change Drop More
<input type="checkbox"/> 7	iddepartament	int(10)			No	None			Change Drop More

Figura 2 Structura tabelului angajați

		idangajati	nume	prenume	oras	salariu	sex	iddepartament
<input type="checkbox"/>	Edit Copy Delete	1	Pop	Dan	Arad	4000.00	m	4
<input type="checkbox"/>	Edit Copy Delete	2	Cuc	Ionela	Pancota	3001.00	f	4
<input type="checkbox"/>	Edit Copy Delete	3	Popescu	Radu	Siria	3800.00	m	2
<input type="checkbox"/>	Edit Copy Delete	4	Vid	Raluca	Zimand	2800.00	f	2
<input type="checkbox"/>	Edit Copy Delete	5	Zah	Letitia	Arad	2700.00	f	5
<input type="checkbox"/>	Edit Copy Delete	6	Popa	Ioan	Curtici	2850.00	m	5
<input type="checkbox"/>	Edit Copy Delete	7	Ionescu	Raul	Pancota	3200.00	m	3
<input type="checkbox"/>	Edit Copy Delete	8	Popescu	Gica	Zimand	4500.00	m	2
<input type="checkbox"/>	Edit Copy Delete	9	Dragu	Raul	Curtici	3300.00	m	1
<input type="checkbox"/>	Edit Copy Delete	10	Radu	Ioana	Nadlac	3400.00	f	1

Figura 3 Captura cu date din tabelul angajați

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	iddepartament	int(10)			No	None		AUTO_INCREMENT	Change Drop More
2	departament	varchar(10)	latin1_swedish_ci		No	None			Change Drop More

Figura 4 Structura tabelului departamente

	iddepartament	departament
1	1	logistica
2	2	cercetare
3	3	mentenanta
4	4	calitate
5	5	productie

Figura 5 Captura cu date din tabelul departamente

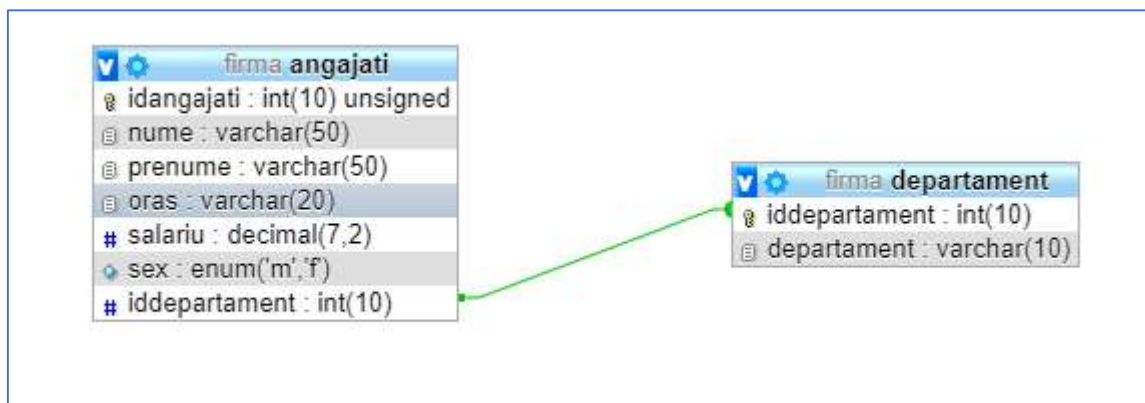


Figura 6 Relațiile între tabele

În continuare se vor realiza următoarele interogări:

Interogarea 1

Se vor afișa toți angajații de sex feminin

SELECT* FROM angajati WHERE sex='F'

	idangajati	nume	prenume	salariu	sex	iddepartament
2	2	Cuc	Ionela	3001.00	f	4
4	4	Vid	Raluca	2800.00	f	2
5	5	Zah	Letitia	2700.00	f	5
10	10	Radu	Ioana	3400.00	f	1

Figura 7 Interogarea 1

Interogarea 2

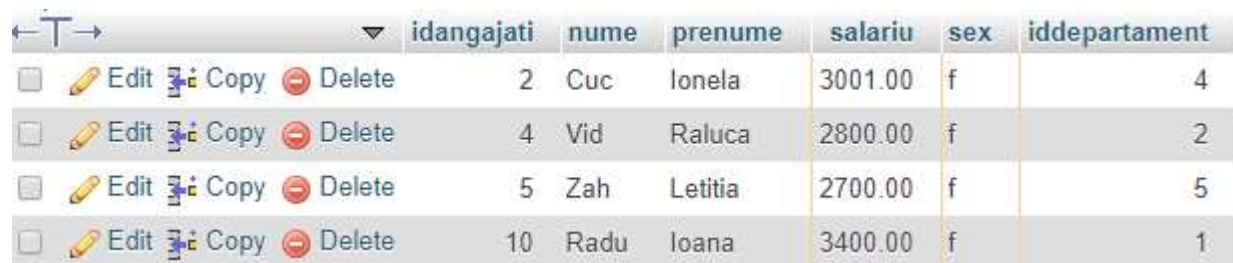
SELECT * FROM angajati WHERE Oras='Arad'



	idangajati	nume	prenume	Oras	salariu	sex	iddepartament
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Pop	Dan	Arad	4000.00	m	4
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	Zah	Letitia	Arad	2700.00	f	5

Interogarea 3

SELECT * FROM `angajati` WHERE sex='F' AND salariu > 2500



	idangajati	nume	prenume	salariu	sex	iddepartament
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Cuc	Ionela	3001.00	f	4
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	Vid	Raluca	2800.00	f	2
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	Zah	Letitia	2700.00	f	5
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10	Radu	Ioana	3400.00	f	1

Interogarea 4

SELECT * FROM `angajati` WHERE sex='M' AND salariu > 3000



	idangajati	nume	prenume	salariu	sex	iddepartament
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Pop	Dan	4000.00	m	4
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	Popescu	Radu	3800.00	m	2
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	Ionescu	Raul	3200.00	m	3
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	Popescu	Gica	4500.00	m	2
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	Dragu	Raul	3300.00	m	1

Figura 8 Interogarea 4

Interogarea 5

SELECT * FROM `angajati` WHERE oras='Arad' AND salariu > 2500



	idangajati	nume	prenume	oras	salariu	sex	iddepartament
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Pop	Dan	Arad	4000.00	m	4
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	Zah	Letitia	Arad	2700.00	f	5

Figura 9 Interogarea 5

Interogarea 6

```
SELECT `nume`, `prenume`, `salariu` FROM `angajati` ORDER BY salariu ASC
```

nume	prenume	salariu ▲ 1
Zah	Letitia	2700.00
Vid	Raluca	2800.00
Popa	Ioan	2850.00
Cuc	Ionela	3001.00
Ionescu	Raul	3200.00
Dragu	Raul	3300.00
Radu	Ioana	3400.00
Popescu	Radu	3800.00
Pop	Dan	4000.00
Popescu	Gica	4500.00

Figura 10 Interogarea 6

Interogarea 7

```
SELECT `nume`, `prenume`, `salariu` FROM `angajati` ORDER BY salariu DESC
```

nume	prenume	salariu ▼ 1
Popescu	Gica	4500.00
Pop	Dan	4000.00
Popescu	Radu	3800.00
Radu	Ioana	3400.00
Dragu	Raul	3300.00
Ionescu	Raul	3200.00
Cuc	Ionela	3001.00
Popa	Ioan	2850.00
Vid	Raluca	2800.00
Zah	Letitia	2700.00

Figura 11 Interogarea 7

Interogarea 8

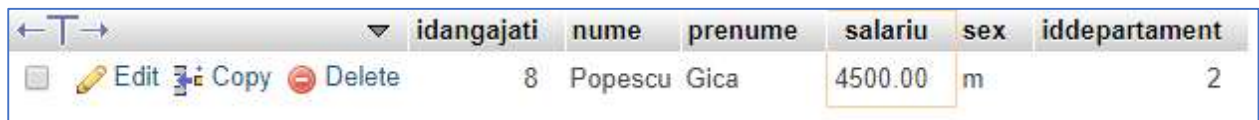
```
SELECT nume, prenume , salariu FROM angajati ORDER BY max(`salariu`)
```

nume	prenume	salariu
Pop	Dan	4000.00

Figura 12 Interogarea 8

Interogarea 9

```
SELECT * FROM `angajati` WHERE salariu=(SELECT max(`salariu`) FROM `angajati`)
```



The screenshot shows a database query result with the following columns: idangajati, nume, prenume, salariu, sex, and iddepartament. The result row is: 8, Popescu Gica, 4500.00, m, 2. The 'salariu' column is highlighted with a yellow border.

idangajati	nume	prenume	salariu	sex	iddepartament
8	Popescu	Gica	4500.00	m	2

Figura 13 Interogarea 9

Interogarea10

```
SELECT * FROM `angajati` WHERE salariu=(SELECT MIN(`salariu`) FROM `angajati`)
```



The screenshot shows a database query result with the following columns: idangajati, nume, prenume, salariu, sex, and iddepartament. The result row is: 5, Zah, Letitia, 2700.00, f, 5. The 'salariu' column is highlighted with a yellow border.

idangajati	nume	prenume	salariu	sex	iddepartament
5	Zah	Letitia	2700.00	f	5

Figura 14 Interogarea 10

Interogarea 11

```
SELECT a.nume, a.prenume, d.departament FROM `angajati` a INNER JOIN `departament`  
d on (a.iddepartament=d.iddepartament) where salariu= (SELECT max(`salariu`) FROM  
`angajati`)
```



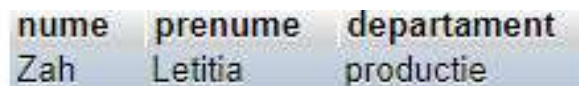
The screenshot shows a database query result with the following columns: nume, prenume, and departament. The result row is: Popescu Gica, cercetare.

nume	prenume	departament
Popescu	Gica	cercetare

Figura 15 Interogarea 11

Interogarea 12

```
SELECT a.nume, a.prenume, d.departament FROM `angajati` a INNER JOIN `departament`  
d on (a.iddepartament=d.iddepartament) where salariu= (SELECT min(`salariu`) FROM  
`angajati`)
```



The screenshot shows a database query result with the following columns: nume, prenume, and departament. The result row is: Zah, Letitia, productie.

nume	prenume	departament
Zah	Letitia	productie

Figura 16 Interogarea 12

Interogarea 13

SELECT max(`salariu`) FROM `angajati` where salariu not in (SELECT max(`salariu`) FROM `angajati`)

max(`salariu`)
4000.00

Figura 17 Interogarea 13

Interogarea 14

SELECT a.nume, a.prenume, a.salariu, d.departament FROM `angajati` a INNER JOIN `departament` d on (a.iddepartament=d.iddepartament) where salariu IN (SELECT max(`salariu`) FROM `angajati` group by iddepartament)

nume	prenume	salariu	departament
Radu	Ioana	3400.00	logistica
Popescu	Gica	4500.00	cercetare
Ionescu	Raul	3200.00	mentenanta
Pop	Dan	4000.00	calitate
Popa	Ioan	2850.00	productie

Figura 18 Interogarea 14

Interogarea 15

SELECT a.nume, a.prenume, a.salariu, d.departament FROM `angajati` a INNER JOIN `departament` d on (a.iddepartament=d.iddepartament) where salariu IN (SELECT MIN(`salariu`) FROM `angajati` group by iddepartament)

nume	prenume	salariu	departament
Dragu	Raul	3300.00	logistica
Vid	Raluca	2800.00	cercetare
Ionescu	Raul	3200.00	mentenanta
Cuc	Ionela	3001.00	calitate
Zah	Letitia	2700.00	productie

Figura 19 Interogarea 15

Interogarea 16

SELECT a.nume, a.prenume, a.salariu, a.Oras, d.departament FROM `angajati` a INNER JOIN `departament` d on (a.iddepartament=d.iddepartament) where salariu IN (SELECT MIN(`salariu`))FROM`angajati` group by iddepartament)

nume	prenume	salariu	Oras	departament
Dragu	Raul	3300.00	Curtici	logistica
Vid	Raluca	2800.00	Zimand	cercetare
Ionescu	Raul	3200.00	Pancota	mentenanta
Cuc	Ionela	3001.00	Pancota	calitate
Zah	Letitia	2700.00	Arad	productie

Figura 20 Interogarea 16

Interogarea 17

SELECT salariu as Salariu_cel_mai_mare_din_Arad FROM angajati WHERE oras='Arad'

Salariu_cel_mai_mare_din_Arad
4000.00
2700.00

Figura 21 Interogarea 17

Temă

Pe modelul prezentat fiecare elev va realiza încă cinci interogări proprii (enunț, sintaxa, captura).

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