

Lucrare de laborator nr.2

1. Creați o bază de date cu 3 tabele	1 punct
2. Stabiliți legătura corectă între tabele	1 punct
3. Creați o interogare simplă asupra bazei de date	1 punct
4. Creați o interogare complexă asupra bazei de date	1 punct
5. Creați 2 viziuni	2 puncte
6. Creați 2 tranzacții	2 puncte
7. Elaborați un index	2 puncte

```
CREATE DATABASE scoala;
```

```
use scoala;
```

```
create table Profesori(
```

```
profesor_id int primary key not null auto_increment,
```

```
name varchar(20),
```

```
sur_name varchar(40),
```

```
academic_degree int);
```

```
insert into Profesori(name, sur_name, academic_degree) values
```

```
('Karl', 'Jablonski', 1),
```

```
('Anotn', 'Ludvik', 1),
```

```
('Mark', 'Ferguson', 3),
```

```
('lon', 'lonovixi', 2),
```

```
('Katea', 'Katiushinka', 3);
```

```
select * from Profesori;
```

```
create table Elev(
```

```
elev_id int primary key not null auto_increment,
```

```
name varchar(20),
```

```
sur_name varchar(20));
```

```
insert into Elev(name, sur_name) values
```

```
('Alexei', 'Schevtov'),
```

```
('Aliona', 'Ptushkin'),  
( 'Vicu', 'Alexeevici'),  
( 'Nastea', 'Ciobanu'),  
( 'Vasea', 'Nikolaevi4i');
```

```
select * from Elev;
```

```
create table Lectii(  
  
                lesson_id int primary key not null auto_increment,  
                name varchar(20),  
  
                Foreign Key (profesor_id) references Profesori(profesor_id),  
  
                Foreign Key (elev_id) references Profesori(elev_id));
```

```
insert into Lectii(name) values
```

```
('Matematica'),  
( 'Istoria'),  
( 'Romana'),  
( 'Engleza'),  
( 'Fizica');
```

```
select * from Lectii;
```

```
select * from Profesori p where p.academic_degree > 2;
```

```
select * from Profesori p where p.academic_degree > 2 order by academic_degree DESC;
```

```
select * from Profesori p where p.academic_degree BETWEEN 0 AND 2;
```

```
select * from Profesori p ORDER BY p.academic_degree DESC;
```

```
Create view ProfeosriAverageDegree AS
```

```
Select name, sur_name, academic_degree
```

```
from Profesori
```

```
where academic_degree > (Select AVG(academic_degree) From Profesori);
```

```
Create view Schevtov As
```

```
Select sur_name
```

From Profesori

Where sur_name='Schevtov';

select * from ProfeosriAverageDegree;

START TRANSACTION;

UPDATE Profesori SET academic_degree = academic_degree + 1 WHERE profesor_id = 5;

UPDATE Profesori SET academic_degree = academic_degree + 10 WHERE profesor_id = 1;

COMMIT;

START TRANSACTION;

UPDATE Profesori SET name = 'Valentin' WHERE profesor_id = 1;

COMMIT;

create index idx_name_Profesori on Profesori(name);

select name from Profesori where name = 'Karl';