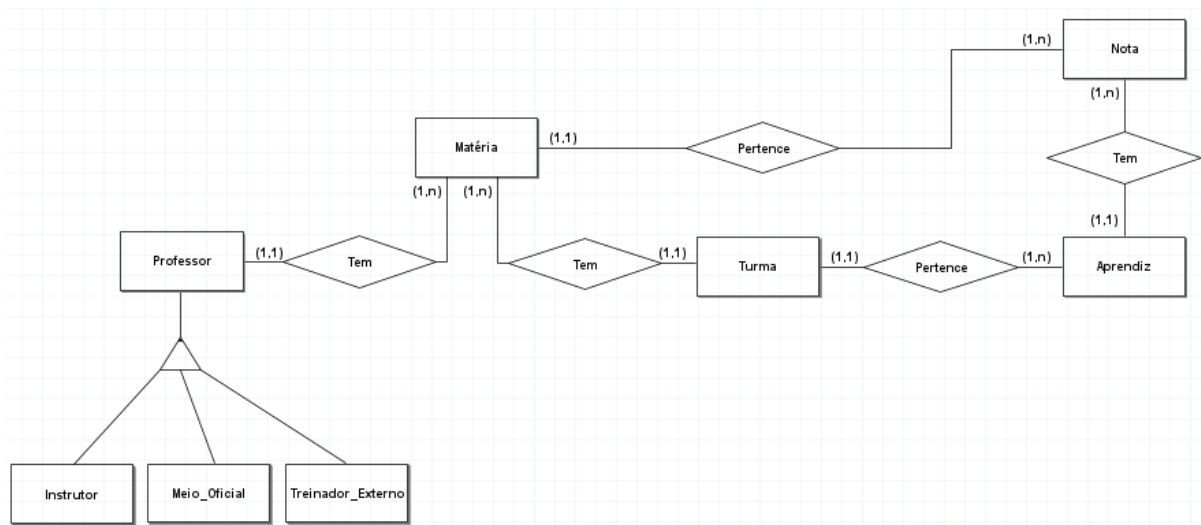
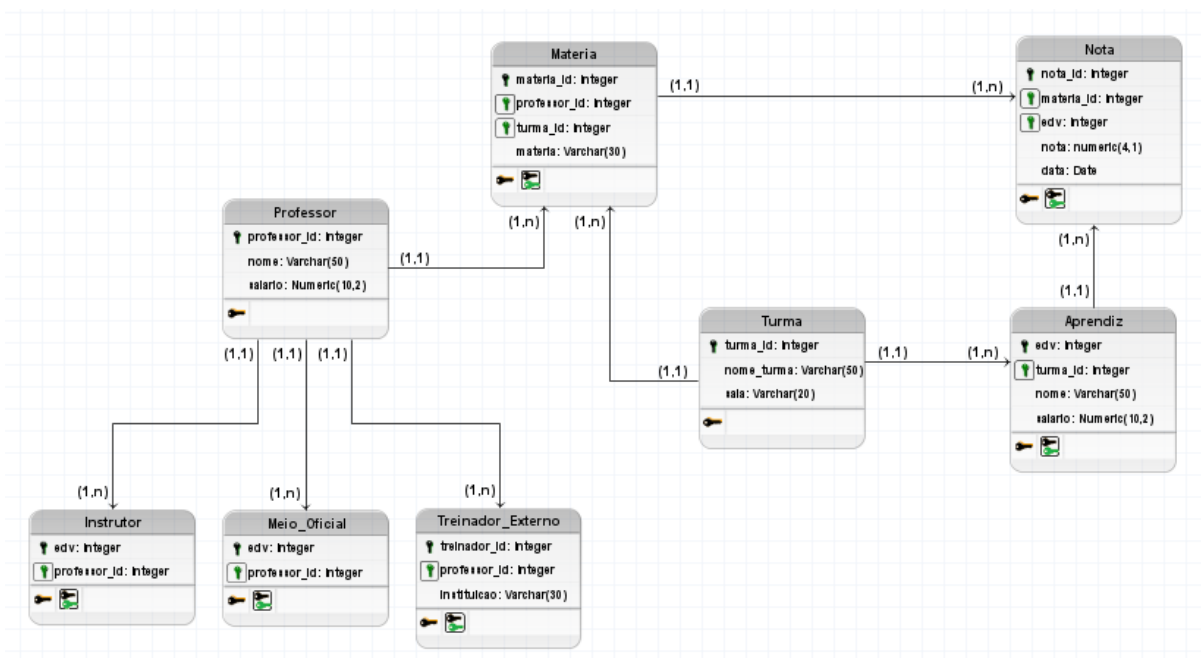


## EX001



## EX002



## EX003

create database Prova;

use Prova;

create table Departamentos(

dep\_id integer primary key identity(1,1),

dep\_nome varchar(20) not null,

dep\_local integer not null

```
);
```

```
create table Grade_salarial(  
    grade integer primary key identity(1,1),  
    sal_min integer not null,  
    sal_max integer not null  
);
```

```
create table Funcionarios(  
    edv integer primary key,  
    nome varchar(30) not null,  
    lider varchar(15) not null,  
    data_de_contratacao date not null,  
    salario integer not null,  
    dep_id integer not null,  
    foreign key (dep_id) references Departamentos  
);
```

```
insert into Departamentos(dep_nome, dep_local) values  
('REMAN', 104),  
('ICO', 101),  
('ETS', 401),  
('FCM', 303),  
('INOVE', 303);
```

```
insert into Grade_salarial(sal_min, sal_max) values  
(1500, 4000),  
(4001, 9000),  
(9001, 22000),  
(22001, 50000);
```

```
insert into Funcionarios(edv,nome,lider,data_de_contratacao,salario,dep_id) values
```

(92890148,'Edna Carvalho','Andrea','1990-02-24',19000,1),  
(92790062,'João Manfredo','Andrea','2001-09-26',12500,1),  
(91004090,'Débora Junior','Andrea','1999-03-02',15600,1),  
(94566222,'Carla Rodrigues','Andrea','1990-10-04',20000,1),  
(96334100,'Maciel Oliveira','Andrea','1995-12-06',16500,1),  
(97885245,'Guilherme Guilherme','Marcos','2010-05-13',9000,2),  
(92894706,'Jessica Lima','Marcos','2015-08-14',25678,2),  
(91450032,'Isabella Machado','Marcos','1993-01-22',10900,2),  
(94661932,'Carlo Daniel','Lucio','1990-01-31',13750,2),  
(95780634,'Maria Santana','Lucio','2015-09-05',8000,2),  
(97881945,'Dominic Ferreira','Pietra','2020-02-09',2000,3),  
(98490620,'Daniela Silva','Pietra','2020-02-09',1500,3),  
(96854299,'Felipe Augusto','Pietra','2020-02-09',1600,3),  
(97805503,'Natalia Reis','Pietra','2019-06-14',2200,3),  
(90103456,'Thiago Dias','Pietra','2018-08-24',2800,3),  
(98462157,'Lorena Ray','Pietra','2017-02-25',1900,3),  
(95482340,'Natanael Brasil','Pietra','2020-06-03',3500,3),  
(96314782,'Ana Mass','Captu','1997-02-19',3600,4),  
(97854318,'Otávio Luis','Captu','2017-05-19',9200,4),  
(94862122,'Luisa Otávia','Captu','2002-11-11',10500,4),  
(97864320,'Lucas Moura','Captu','1990-08-29',6600,4),  
(96315782,'Fernanda Lacerda','Captu','1999-12-17',2900,4),  
(97546210,'Caroline Adeus','Captu','2018-02-19',4555,4),  
(94621573,'Marco Valastro','Captu','2003-03-30',7000,4),  
(96548432,'Valdemir Cantante','Jonas','2020-03-15',1200,5),  
(97511020,'Eduarda Souza','Jonas','2011-08-14',1100,5),  
(96410654,'Allan Jonas','Felipe','2008-06-17',3200,5),  
(95645012,'Diana Jones','Felipe','2002-09-24',2050,5),  
(94746054,'Mario Bros','Felipe','1990-01-18',25600,5),  
(92085478,'Aline Franco','Jonas','1996-05-05',3700,5);

**EX004**

```

select top 1 f.nome as Nome, d.dep_nome as Setor, f.salario as Salário
from Funcionarios as f
inner join Departamentos as d on f.dep_id = d.dep_id
where f.nome like 'D%'
order by f.salario desc;

```

	Nome	Setor	Salário
1	Débora Junior	REMAN	15822

### EX005

```

select f.nome as Nome, d.dep_nome as Nome_do_Departamento, d.dep_local as Local_de_Trabalho
from Funcionarios as f
inner join Departamentos as d on f.dep_id = d.dep_id;

```

	Nome	Nome_do_Departamento	Local_de_Trabalho
1	Thiago Dias	ETS	401
2	Débora Junior	REMAN	104
3	Isabella Machado	ICO	101
4	João Manfredo	REMAN	104
5	Edna Carvalho	REMAN	104
6	Jessica Lima	ICO	101
7	Carla Rodrigues	REMAN	104
8	Marco Valastro	FCM	303
9	Carlo Daniel	ICO	101
10	Mario Bros	INOVE	303
11	Luisa Otávia	FCM	303
12	Natanael Brasil	ETS	401
13	Diana Jones	INOVE	303
14	Maria Santana	ICO	101
15	Ana Mass	FCM	303
16	Fernanda Lacer...	FCM	303
17	Maciel Oliveira	REMAN	104
18	Allan Jonas	INOVE	303
19	Felipe Augusto	ETS	401
20	Caroline Adeus	FCM	303
21	Natalia Reis	ETS	401
22	Otávio Luis	FCM	303
23	Lucas Moura	FCM	303

24	Dominic Ferreira	ETS	401
25	Guilherme Guilh...	ICO	101
26	Lorena Ray	ETS	401
27	Daniela Silva	ETS	401

## EX006

update Funcionarios

set salario = salario + ((select sum(salario) from Funcionarios where lider = 'Jonas') / (select count(salario) from funcionarios where lider <> 'Jonas'))

where lider <> 'Jonas';

delete from Funcionarios

where lider = 'Jonas';

select nome, lider, salario from Funcionarios;

	nome	lider	salario
1	Thiago Dias	Pietra	3022
2	Débora Junior	Andrea	15822
3	Isabella Machado	Marcos	11122
4	João Manfredo	Andrea	12722
5	Edna Carvalho	Andrea	19222
6	Jessica Lima	Marcos	25900
7	Carla Rodrigues	Andrea	20222
8	Marco Valastro	Captu	7222
9	Carlo Daniel	Marcos	13972
10	Mario Bros	Felipe	25822
11	Luisa Otávia	Captu	10722
12	Natanael Brasil	Pietra	3722
13	Diana Jones	Felipe	2272
14	Maria Santana	Marcos	8222
15	Ana Mass	Captu	3822
16	Femanda Lacerda	Captu	3122
17	Maciel Oliveira	Andrea	16722
18	Allan Jonas	Felipe	3422
19	Felipe Augusto	Pietra	1822
20	Caroline Adeus	Captu	4777
21	Natalia Reis	Pietra	2422
22	Otávio Luis	Captu	9422
23	Lucas Moura	Captu	6822
24	Dominic Ferreira	Pietra	2222
25	Guilherme Guilhermo	Marcos	9222
26	Lorena Ray	Pietra	2122
27	Daniela Silva	Pietra	1722

### EX007

```
select nome as Nome, edv as EDV, lider as Líder,  
(select grade from Grade_salarial as g  
inner join Funcionarios as f on f.salario > g.sal_min and f.salario < g.sal_max  
where f.data_de_contratacao = (select min(data_de_contratacao) from Funcionarios)) as  
Grade_Salarial  
from Funcionarios  
where data_de_contratacao = (select min(data_de_contratacao) from Funcionarios);
```

Resultados		Mensagens		
	Nome	EDV	Lider	Grade_Salarial
1	Mario Bros	94746054	Felipe	4

### EX008

```
select d.dep_nome as Nome_do_Departamento, count(f.salario) as Salarios_Maior_Que_4000  
from Departamentos as d  
inner join Funcionarios as f on d.dep_id = f.dep_id  
where f.salario > 4000  
group by d.dep_nome;
```

Resultados		Mensagens	
	Nome_do_Departamento	Salarios_Maior_Que_4000	
1	FCM	5	
2	ICO	5	
3	INOVE	1	
4	REMAN	5	

### EX009

```
update Funcionarios  
set lider = 'Marcos'  
where lider = 'Lucio';  
select nome, edv, data_de_contratacao  
from Funcionarios  
where lider in ('Marcos', 'Captu') and data_de_contratacao >= '01-01-2015';
```

	nome	edv	data_de_contratacao
1	Jessica Lima	92894706	2015-08-14
2	Maria Santana	95780634	2015-09-05
3	Caroline Adeus	97546210	2018-02-19
4	Otávio Luis	97854318	2017-05-19

### EX010

```
select d.dep_nome as Setor, avg(f.salario) as Média_Salário_Setor
```

```
from Departamentos as d
```

```
inner join Funcionarios as f on d.dep_id = f.dep_id
```

```
group by d.dep_nome;
```

```
select d.dep_nome as Setor, min(f.salario) as Menor_Salário_Setor, max(f.salario) as  
Maior_Salário_Setor
```

```
from Departamentos as d
```

```
inner join Funcionarios as f on d.dep_id = f.dep_id
```

```
group by d.dep_nome;
```

	Setor	Média_Salário_Setor
1	ETS	2436
2	FCM	6558
3	ICO	13687
4	INOVE	10505
5	REMAN	16942

	Setor	Menor_Salário_Setor	Maior_Salário_Setor
1	ETS	1722	3722
2	FCM	3122	10722
3	ICO	8222	25900
4	INOVE	2272	25822
5	REMAN	12722	20222