



Proiect

Restaurant Hanul Ancutei

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C112B

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Capitolul 1: Scopul bazei de date si contextul de utilizare

Baza de date “Hanul Ancutei” are ca scop stocarea informatiilor despre un restaurant, usurand astfel munca unui manager sau a proprietarului, cu privire la diverse informatii din interiorul afacerii.

Tabele prezente in baza de date sunt:

1.Tabelul “Angajati” contine Nume si Prenumele angajatiilor din restaurant, precum si alte informatii despre acestea.

2.Tabelul “Functii” contine o coloana cu Denumirea functiei si inca una cu salariul pe care o persoana il poate primi pe functia respectiva.

3.Tabelul “FunctiiAngajati” reprezinta un tabel de legatura intre Angajati-Functii, intrucat o functie poate apartine mai multor angajati, dar si un angajat poate avea mai multe functii.

4.Tabelul “Mese” contine mesele disponibile in restaurant, avand detalii despre capacitatea acestor si statusul(Rezervata/Ocupata/Libera).

5.Tabelul “Comenzi” contine data plasarii comenzii, pretul comenzii, modalitatea de plata, la care i se asociaza o masa.

6.Tabelul “Preparate” contine meniul restaurantului, numele si pretul preparatului.

7.Tabelul “ContinutComanda” contine 2 foreign key-uri(IdComanda si IdPreparat), fiind astfel un tabel de legatura, si cantitatea comandata.

8.Tabelul “Ingrediente” contine denumirea ingredientului.

9.Tabelul “IngredientePreparate” este un tabel de legatura dintre IdPreparat si IdIngredient.

10.Tabelul “Furnizori” contine numele Furnizorului, orasul din care provine si numarul de telefon al acestuia.

11.Tabelul “FurnizoriIngrediente” este un tabel de legatura dintre IdIngredient si IdFurnizor, si mai contine Cantitatea livrata de furnizor, precum si pretul per unitate(legatura/1kg/1L).

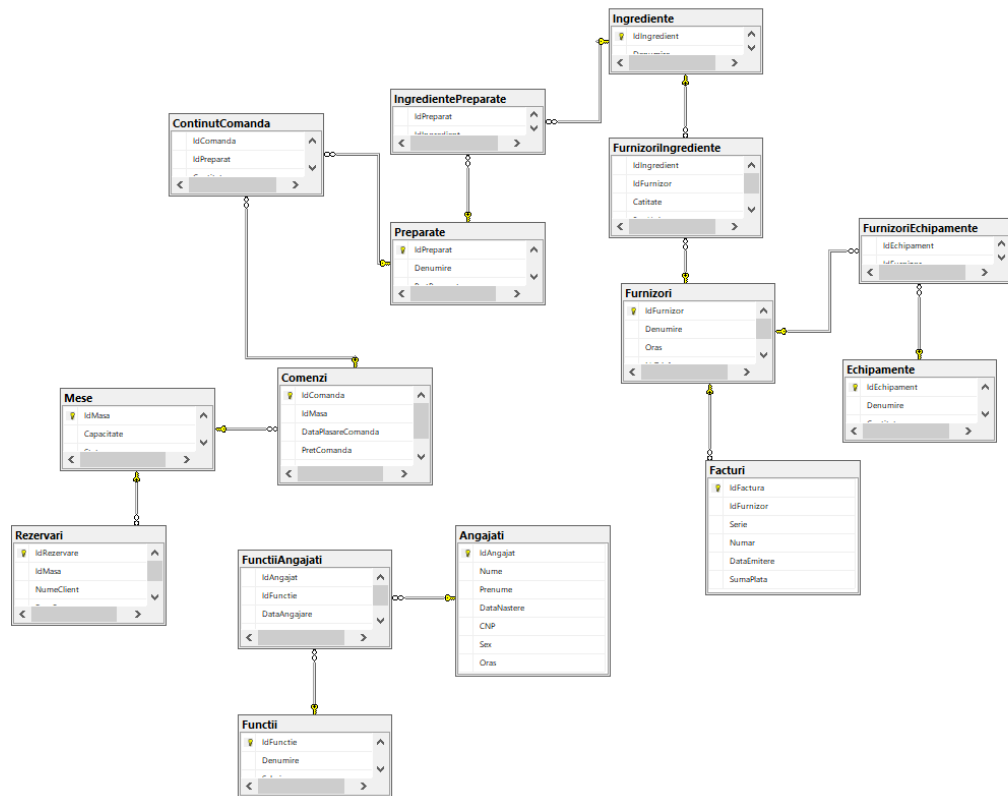
12.Tabelul “Echipamente” contine echipamentele care se afla in restaurant(electrocasnice, vesela,etc) .

13. Tabelul "FurnizoriEchipamente" este un tabel de legatura dintre furnizori si echipamente.

14. Tabelul "Facturi" are o cheie straina (IdFurnizor) si contine mai multe date specifice unei facturi (Serie, Numar, DataEmitere, Suma de plata).

15. Tabelul "Rezervari" contine rezervarile facute pe baza unui Nume de client si o data de rezervare, si bineinteles, are o cheie straina din tabelul Mese (IdMasa).

Capitolul 2: Diagrama Tabelelor



Capitolul 3: : Create Table si Insert-uri

```
use master
go
DROP DATABASE IF EXISTS HanulAncutei;
GO
CREATE DATABASE HanulAncutei
ON PRIMARY
(
    Name = RestaurantData,
    FileName = 'E:\Anul 2\SEM 2\EXAMEN\Baza de date\ProiectBD\HanulAncutei.mdf',
    size = 10MB, -- KB, Mb, GB, TB
    maxsize = unlimited,
    filegrowth = 10MB
),
(
    Name = RestaurantData2,
    FileName = 'E:\Anul 2\SEM 2\EXAMEN\Baza de date\ProiectBD\HanulAncutei_2.ndf',
    size = 10MB, -- KB, Mb, GB, TB
    maxsize = unlimited,
    filegrowth = 10MB
),
(
    Name = RestaurantData3,
    FileName = 'E:\Anul 2\SEM 2\EXAMEN\Baza de date\ProiectBD\HanulAncutei_3.ndf',
    size = 10MB, -- KB, Mb, GB, TB
    maxsize = unlimited,
    filegrowth = 10MB
)
LOG ON
(
    Name = RestaurantLog1,
    FileName = 'E:\Anul 2\SEM 2\EXAMEN\Baza de date\ProiectBD\HanulAncutei_log1.ldf',
    size = 10MB, -- KB, Mb, GB, TB
    maxsize = unlimited,
    filegrowth = 10%
),
(
    Name = RestaurantLog2,
    FileName = 'E:\Anul 2\SEM 2\EXAMEN\Baza de date\ProiectBD\HanulAncutei_log2.ldf',
    size = 10MB, -- KB, Mb, GB, TB
    maxsize = unlimited,
    filegrowth = 10%
```

```
)  
go  
use HanulAncutei  
go
```

```
create table Angajati(  
IdAngajat int not null identity(1,1) primary key,  
Nume nvarchar(64) not null,  
Prenume nvarchar (32) not null,  
DataNastere date not null,  
CNP nvarchar(13) not null,  
Sex nvarchar(8),  
Oras nvarchar(32)  
);
```

```
create table Functii(  
IdFunctie int not null identity(1,1) primary key,  
Denumire nvarchar(32) not null,  
Salariu float not null);
```

```
create table FunctiiAngajati(  
IdAngajat int constraint FK_IdAngajat_FunctiiAngajati foreign key(IdAngajat) references  
Angajati(IdAngajat),  
IdFunctie int constraint FK_IdFunctie_FunctiiAngajati foreign key(IdFunctie) references  
Functii(IdFunctie),  
DataAngajare date,  
DataDemitere date);
```

```
create table Mese(  
IdMasa int not null identity (1,1) primary key,  
Capacitate int not null,  
Status nvarchar (16));
```

```
create table Comenzi(  
IdComanda int not null identity (1,1) primary key,  
IdMasa int constraint FK_IdMasa_Comenzi foreign key(IdMasa) references Mese(IdMasa),  
DataPlasareComanda datetime,  
PretComanda float ,  
ModalitatePlata nvarchar(16) not null  
);
```

```
create table Preparare(  
IdPreparat int not null identity (1,1) primary key,  
Denumire nvarchar(32) not null,  
PretPreparat float not null);
```

```
create table ContinutComanda(  
  IdComanda int constraint FK_IdComanda_ContinutComanda foreign key(IdComanda)  
  references Comenzi(IdComanda),  
  IdPreparat int constraint FK_IdPreparat_ContinutComanda foreign key(IdPreparat) references  
  Prepare(IdPreparat),  
  Cantitate int not null  
);
```

```
create table Ingrediente(  
  IdIngredient int not null identity (1,1) primary key,  
  Denumire nvarchar(32) not null);
```

```
create table IngredientePreparate(  
  IdPreparat int constraint FK_IdPreparat_IngredientePreparate foreign key(IdPreparat) references  
  Prepare(IdPreparat),  
  IdIngredient int constraint FK_IdIngredient_IngredientePreparate foreign key(IdIngredient)  
  references Ingrediente(IdIngredient),  
);
```

```
create table Furnizori(  
  IdFurnizor int not null identity (1,1) primary key,  
  Denumire nvarchar(32) not null,  
  Oras nvarchar(32) not null,  
  NrTelefon nvarchar(10) not null);
```

```
create table FurnizoriIngrediente(  
  IdIngredient int constraint FK_Ingredient_FurnizoriIngrediente foreign key(IdIngredient)  
  references Ingrediente(IdIngredient),  
  IdFurnizor int constraint FK_Furnizori_FurnizoriIngrediente foreign key(IdFurnizor) references  
  Furnizori(IdFurnizor),  
  Catitate int not null,  
  PretUnitate float not null);
```

```
create table Echipamente(  
  IdEchipament int not null identity (1,1) primary key,  
  Denumire nvarchar(32) not null,  
  Cantitate int);
```

```
create table FurnizoriEchipamente(  
  IdFurnizor int constraint FK_Furnizori_FurnizoriEchipamente foreign key(IdFurnizor) references  
  Furnizori(IdFurnizor),  
  IdEchipament int constraint FK_Echipamente_FurnizoriEchipamente foreign key(IdEchipament) references  
  Echipamente(IdEchipament),  
  Cantitate int not null);
```



```
IdEchipament int constraint FK_Echipament_FurnizoriEchipamente foreign key(IdEchipament)
references Echipamente(IdEchipament),
IdFurnizor int constraint FK_Furnizori_FurnizoriEchipamente foreign key(IdFurnizor)
references Furnizori(IdFurnizor),
Numar_Bucati int null);
```

```
create table Facturi(
IdFactura int not null identity (1,1) primary key,
IdFurnizor int constraint FK_Furnizori_Facturi foreign key(IdFurnizor) references
Furnizori(IdFurnizor),
Serie nvarchar(2) not null,
Numar int not null,
DataEmitere date not null,
SumaPlata float not null);
```

```
create table Rezervari(
IdRezervare int not null identity (1,1) primary key,
IdMasa int constraint FK_IdMasa_Rezervari foreign key(IdMasa) references Mese(IdMasa),
NumeClient nvarchar(32) not null,
DataRezervare datetime not null);
```

```
insert into Angajati(Nume,Prenume,DataNastere,CNP,Sex,Oras) values
('Sandu','Dragos', '2001-10-26','5011026046200','Masculin','Bacau'),
('Barbusi','Darius', '2001-05-10','5011011146203','Masculin','Valcea'),
('Toader','Radu', '2001-07-25','5022011146102','Masculin','Bacau'),
('Corbu','Nutu', '2002-01-06','2022015566600','Masculin','Bucuresti'),
('Cioloca','Paul', '2000-02-05','5011015566501','Masculin','Reghin'),
('Ursachi','Marta', '2002-04-14','2021011122501','Feminin','Botosani'),
('Sandu','Codruta', '1997-03-30','5970330101112','Feminin','Valcea'),
('Barbusi','Marinela', '1975-01-20','5971010044501','Feminin','Botosani'),
('Toader','Andreea', '1998-12-05','5981205225012','Feminin','Cluj-Napoca'),
('Putin','Vladimir', '1965-06-28','2650628145011','Masculin','Bacau'),
('Cioloca','Ioan', '1970-08-21','2700821122501','Feminin','Reghin'),
('Ursachi','Violeta', '1976-09-25','5760905122501','Feminin','Suceava')
```

```
insert into Functii(Denumire,Salariu) values
('Manager',6000),
('Administrator',5000),
```

('Director bucatarie',5000),
('Bucatar',6000),
('Ajutor de bucatar',3500),
('Spalator de vase',2000),
('Ospatar Sef',4000),
('Barman',3500),
('Chelner',3000),
('Om de serviciu',2000)

insert into FunctiiAngajati(IdAngajat,IdFunctie,DataAngajare,DataDemitere) values

(1,1,'2019-05-26','2020-05-18'),
(2,2,'2019-06-18',null),
(3,4,'2019-03-10','2021-06-17'),
(6,9,'2019-05-25','2020-05-19'),
(6,2,'2020-05-19','2022-02-25'),
(4,8,'2020-01-05','2021-06-20'),
(5,7,'2019-05-26',null),
(6,1,'2022-02-25',null),
(3,3,'2021-06-18',null),
(3,4,'2020-05-10',null),
(7,8,'2019-05-26',null),
(8,10,'2019-03-10',null),
(8,6,'2019-09-20',null),
(9,9,'2019-04-26','2020-05-10'),
(10,6,'2020-08-20',null),
(9,7,'2020-05-10',null),
(11,8,'2019-10-25',null),
(12,10,'2019-05-29','2020-07-20'),
(12,6,'2020-07-20',null)

insert into Mese (Capacitate,Status) values

(2,'Libera'),
(4,'Ocupata'),
(2,'Rezervata'),
(10,'Libera'),
(8,'Rezervata'),
(4,'Ocupata'),
(12,'Libera'),
(16,'Rezervata'),
(2,'Libera'),
(2,'Ocupata'),
(4,'Libera'),
(4,'Rezervata'),

(4,'Ocupata')

insert into Comenzi(IdMasa,DataPlasareComanda,ModalitatePlata) values

(1,'2022-04-10 12:35:20','Cash'),
(4,'2022-04-10 14:12:00','Card'),
(3,'2022-04-11 09:40:19','Cash'),
(6,'2022-04-10 15:50:10','Cash'),
(2,'2022-04-12 19:49:10','Voucher'),
(1,'2022-04-12 21:49:10','Cash'),
(4,'2022-04-12 21:12:00','Cash'),
(3,'2022-04-13 10:22:19','Card'),
(6,'2022-04-13 12:20:20','Card'),
(6,'2022-04-13 13:40:19','Cash'),
(7,'2022-04-14 14:40:19','Card'),
(7,'2022-04-14 14:12:00','Card'),
(8,'2022-04-14 19:49:10','Voucher'),
(4,'2022-04-14 21:20:10','Cash')

insert into Preparate(Denumire,PretPreparat) values

('Ciorba de burta',14),
('Ciorba radauteana',13),
('Ciorba de afumatura',14),
('Ciorba de legume',12),
('Ciorba de vacuta',14),
('Ciorba de perisoare',14),
('Ciorba de fasole',13),
('Aperitiv Moldovenesc',29),
('Aperitiv Oltenesc',26),
('Meniul Zilei',20),
('Meniul Studentului',15),
('Ceafa la gratar',20),
('Cotlet de porc',22),
('Piept de pui',20),
('Pastrama de oaie',30),
('Pastrav la gratar',25),
('Somon',30),
('Ciulama de pui',25),
('Platoul Ciobanului',54),
('Platoul Drumetului',52),
('Platoul Padurarului',80),
('Platou Moldovenesc',99),
('Cartofi prajiti',7),
('Cartofi la ceaun',8),
('Cartofi piure',7),
('Cartofi taranesti',9),

('Orez basmati',8),
 ('Orez cu legume',7),
 ('Salata mixta',7),
 ('Salata de varza',6),
 ('Salata de varza rosie',6),
 ('Muraturi',7),
 ('Papanasi',18),
 ('Orez cu lapte',14),
 ('Inghetata de casa',16),
 ('Cremsnit',14),
 ('Tortul Casei',16),
 ('Clatite',16),
 ('Coca-Cola',8),
 ('Fanta',8),
 ('Sprite',8),
 ('Cappy',8),
 ('Mirinda',8),
 ('Sex on the beach',18),
 ('Mojito',18),
 ('Hurricane',16),
 ('Zombie',20),
 ('White Russian',18),
 ('Godfather',18),
 ('Vinul casei',30),
 ('Feteasca',40),
 ('Moet',400),
 ('Prosecco',30),
 ('Tuborg',7),
 ('Carlsberg',8),
 ('Peroni',8),
 ('Corona extra',15),
 ('Vodka',10),
 ('Jagermeister',10),
 ('B52',12)

insert into ContinutComanda(IdComanda,IdPreparat,Cantitate) values

(1,1,1),(1,2,1),(1,8,1),(1,20,1),(1,14,1),(1,24,1),(1,30,2),(1,39,2),(1,33,2),
 (2,2,2),(2,11,2),(2,34,2),(2,60,2),
 (3,10,3),(3,33,2),(3,54,3),
 (4,3,2),(4,15,1),(4,22,1),(4,29,1),(4,50,2),
 (5,20,1),(5,21,1),(5,26,2),(5,31,2),(5,34,2),(5,57,2),
 (6,4,2),(6,21,3),(6,50,2),(6,55,2),
 (7,2,1),(7,20,2),(7,52,2),
 (8,3,1),(8,22,1),(8,53,1),
 (9,2,3),(9,4,2),(9,21,1),(9,36,2),(9,27,1),(9,17,1),
 (10,6,1),(10,7,2),(10,9,1),(10,12,2),(10,14,1),(10,23,4),(10,56,6),

(11,8,3),(11,2,1),(11,18,2),(11,19,1),(11,40,1),
(12,33,2),(12,34,2),(12,41,2),(12,42,2),
(13,16,1),(13,24,1),(13,44,1),
(14,4,2),(14,20,2),(14,55,2)

insert into Furnizori(Denumire,Oras,NrTelefon) values
(**'ALIRO MARMIR SRL'**,**'Cluj-Napoca'**,**'0264708703'**),
(**'SC BRILL CATERING SRL'**,**'Cluj-Napoca'**,**'0758755992'**),
(**'ESAROM ROMANIA SRL'**,**'Sibiu'**,**'0269208031'**),
(**'SC VANIMAR BLUE COMPANY SRL'**,**'Constanta'**,**'0241541910'**),
(**'SC FORTEX COM SRL'**,**'Valcea'**,**'0214106307'**),
(**'SC DACTRUST SRL'**,**'Bucuresti'**,**'0758071304'**),
(**'Espina România Prod S.r.l'**,**'Timisoara'**,**'0722405140 '**),
(**'Macelaria AGAPE'**,**'Suceava'**,**'0744169483'**),
(**'Fresh Fruits Logistics'**,**'Bucuresti'**,**'0767917258'**)

insert into Facturi(IdFurnizor, Serie,Numar,DataEmitere,SumaPlata) values
(1,**'EE'**,100335,**'2022-04-01'**,1504),
(7,**'AA'**,233555,**'2022-04-02'**,5069),
(2,**'EE'**,334532,**'2022-04-04'**,2500),
(3,**'AA'**,321333,**'2022-03-25'**,569),
(5,**'EA'**,456654,**'2022-03-30'**,4532),
(6,**'ED'**,233421,**'2022-02-28'**,4532),
(6,**'SW'**,717433,**'2022-05-06'**,7833),
(8,**'KW'**,016768,**'2022-09-16'**,3017),
(3,**'HH'**,617383,**'2022-02-06'**,4118),
(3,**'DC'**,359214,**'2021-07-03'**,7387),
(2,**'QK'**,337735,**'2022-01-06'**,6427),
(2,**'SR'**,172681,**'2022-01-20'**,2129),
(8,**'BH'**,053505,**'2022-06-10'**,5972),
(8,**'RT'**,574955,**'2022-10-22'**,3499),
(9,**'FK'**,433532,**'2022-11-09'**,5509),
(5,**'GJ'**,855044,**'2022-08-28'**,2886);

insert into Echipamente (Denumire) values
(**'Aragaz'**),
(**'Hota'**),
(**'Masa inox'**),
(**'Frigider'**),
(**'Lada Frigorifica'**),
(**'Cuptor Pizza'**),
(**'Malaxor'**),

('Fripteoza'),
('Gratar grill'),
('Cuptor cu microunde'),
('Fierbator'),
('Masina de curatat cartofi'),
('Blender'),
('Mixer'),
('Farfurii'),
('Bol'),
('Furculite'),
('Linguri'),
('Lingurite')

insert into FurnizoriEchipamente (IdEchipament,IdFurnizor,Numar_Bucati) values

(1,1,2),(1,3,2),
(2,1,3),(2,3,2),(2,2,1),
(3,4,1),(3,5,2),
(4,3,2),(4,4,3),
(5,6,3),(5,5,1),(5,4,2),
(6,2,4),
(7,3,1),(7,5,2),
(8,2,2),(8,3,1),
(9,1,2),(9,2,1),
(10,3,3),
(11,2,2),
(12,4,2),(12,2,1),
(13,3,2),(13,4,1),
(14,5,1),(14,2,1),(14,3,1),
(15,1,500),
(16,1,500),
(17,3,500),
(18,3,500),
(19,3,300)

insert into Ingrediente(Denumire) values

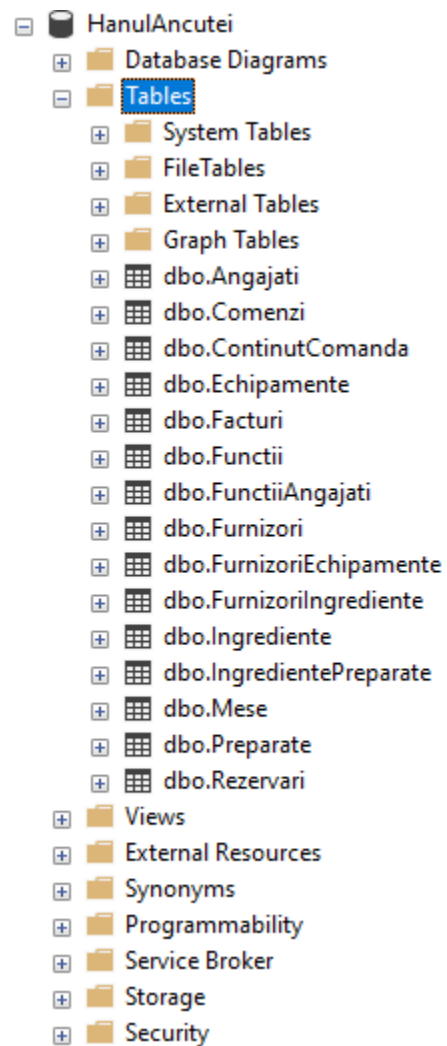
('Patrunjel'),('Marar'),('Busuioc'),('Piept de pui'),('Ceafa de porc'),('Burta de vita'),('Pastrama Oaie'),('Paste integrale'),('Sunca porc'),('Salam uscat'),('Muschi file'),
('Pastrav'),('Somon'),('Orez'),('Cartofi'),('Ceapa'),('Ardei iute'),('Gogonele'),('Lamaie'),('Varza'),('Rosii'),('Castraveti'),('Muschi file'),('Bors'),
('Branza de oaie'),('Branza de vaci'),('Smantana'),('Mustar'),('Fasole'),('Morcov'),('Nuca'),('Otet'),('Ulei'),('Ou'),('Faine'),('Pepene'),
('Porumb'),('Apa'),
('Carnati de porc'),('Muschi Afumat'),('Branza de burduf'),('Ciuperci'),('Carne de vacuta'),('Fasole'),('Costita afumata')

```
insert into FurnizoriIngrediente(IdIngredient,IdFurnizor,Catitate,PretUnitate) values
(1,9,50,1),(2,9,50,1),(3,9,50,2),(4,7,50,24),(5,7,50,2),(6,7,20,30),(7,6,20,5),(8,8,10,40),(9,8,10,60),
(10,8,10,50),(11,8,10,55),(12,8,80,15),
(13,7,10,15),(14,9,50,3),(15,9,10,5),(16,9,10,12),(17,9,20,6),(18,9,10,10),(19,7,20,6),(20,9,30,10),
(21,9,25,6),(22,8,20,50)
```

```
insert into IngredientePreparate(IdPreparat,IdIngredient) values
(1,1),(1,38),(1,6),(1,27),
(2,1),(2,38),(2,4),(2,27),
(3,1),(3,38),(3,45),(2,27),
(4,38),(4,1),(4,24),(4,15),(4,2),
(5,1),(5,38),(5,43),(5,27),
(6,1),(6,38),(6,4),(6,27),
(7,1),(7,38),(7,44),
(12,5),
(14,4),
(19,4),(19,5),(19,7),(19,34),(19,25),(19,18),
(20,4),(20,39),(20,40),(20,41),(20,9),(20,16),(20,18),(20,28),
(18,4),(18,27),(18,42)
```

```
insert into Rezervari(IdMasa,NumeClient,DataRezervare) values
(1,'Popescu','2022-04-09 15:00:00'),
(5,'Jipianu','2022-04-10 17:00:00'),
(2,'Ghita','2022-04-10 19:00:00'),
(3,'Iulia','2022-04-11 20:00:00'),
(2,'Paul','2022-04-11 21:00:00'),
(5,'Darius','2022-04-11 12:30:00'),
(5,'Radu','2022-05-12 13:30:00'),
(6,'Istrate','2022-05-12 20:00:00'),
(7,'Elena','2022-05-13 19:30:00'),
(7,'Sebi','2022-05-14 14:00:00')
```

(12 rows affected)
(10 rows affected)
(19 rows affected)
(13 rows affected)
(14 rows affected)
(60 rows affected)
(65 rows affected)
(9 rows affected)
(16 rows affected)
(19 rows affected)
(33 rows affected)
(45 rows affected)
(22 rows affected)
(47 rows affected)
(10 rows affected)



Capitolul 4: Interogari SELECT

--1.Sa se afiseze toti angajatii

`select * from Angajati`

	IdAngajat	Nume	Prenume	DataNastere	CNP	Sex	Oras
1	1	Sandu	Dragos	2001-10-26	5011026046200	Masculin	Bacau
2	2	Barbusi	Darius	2001-05-10	5011011146203	Masculin	Valcea
3	3	Toader	Radu	2001-07-25	5022011146102	Masculin	Bacau
4	4	Corbu	Nutu	2002-01-06	2022015566600	Masculin	Bucuresti
5	5	Cioloa	Paul	2000-02-05	5011015566501	Masculin	Reghin
6	6	Ursachi	Marta	2002-04-14	2021011122501	Feminin	Botosani
7	7	Sandu	Codruta	1997-03-30	5970330101112	Feminin	Valcea
8	8	Barbusi	Marinela	1975-01-20	5971010044501	Feminin	Botosani
9	9	Toader	Andreea	1998-12-05	5981205225012	Feminin	Cluj-Napoca
10	10	Putin	Vladimir	1965-06-28	2650628145011	Masculin	Bacau
11	11	Cioloa	Ioan	1970-08-21	2700821122501	Feminin	Reghin
12	12	Ursachi	Violeta	1976-09-25	5760905122501	Feminin	Suceava

--2.Sa se afiseze numele si prenumele angajatiilor de gen Masculin

`select Nume,Prenume from Angajati`

`where Sex='Masculin'`

	Nume	Prenume
1	Sandu	Dragos
2	Barbusi	Darius
3	Toader	Radu
4	Corbu	Nutu
5	Cioloa	Paul
6	Putin	Vladimir

--3. Sa se afiseze anagajatii al caror nume incepe cu litera T, de sex masculin, nascuti dupa data de '2001-02-04'

`select Nume,Prenume,Sex, DataNastere from Angajati`

`where Nume like 'T%'`

`and Sex='Masculin'`

`and DataNastere>='2001-02-04'`

	Nume	Prenume	Sex	DataNastere
1	Toader	Radu	Masculin	2001-07-25

--4. Sa se afiseze numele, prenumele si data nasterii angajatilor nascuti dupa anul 2000, ordonati alfabetic dupa nume.

```
select Nume,Prenume, DataNastere from Angajati
where year(DataNastere)>=2000 order by Nume
```

	Nume	Prenume	DataNastere
1	Barbusi	Darius	2001-05-10
2	Cioloa	Paul	2000-02-05
3	Corbu	Nutu	2002-01-06
4	Sandu	Dragos	2001-10-26
5	Toader	Radu	2001-07-25
6	Ursachi	Marta	2002-04-14

--5.Sa se afiseze echipamentele care au Id-ul un numar par

```
SELECT *
FROM Echipamente
WHERE IdEchipament%2 = 0;
```

	IdEchipament	Denumire	Cantitate
1	2	Hota	6
2	4	Frigider	5
3	6	Cuptor Pizza	4
4	8	Fripteoza	3
5	10	Cuptor cu microunde	3
6	12	Masina de curatat cartofi	3
7	14	Mixer	3
8	16	Bol	500
9	18	Linguri	500

--6.Sa se afiseze Furnizorii din Bucuresti

```
select * from Furnizori
where Oras='Bucuresti'
```

	IdFurnizor	Denumire	Oras	NrTelefon
1	6	SC DACTRUST SRL	Bucuresti	0758071304
2	9	Fresh Fruits Logistics	Bucuresti	0767917258

--7. Sa se afiseze Furnizorii din Cluj-Napoca al caror numar de telefon se termina cu 3 si au id Impar

```
select * from Furnizori
where Oras='Cluj-Napoca'
and NrTelefon like '%3'
and IdFurnizor%2=1
```

	IdFurnizor	Denumire	Oras	NrTelefon
1	1	ALIRO MARMIR SRL	Cluj-Napoca	0264708703

--8.Sa se afiseze Mesele libere

```
select* from Mese
where Status='Libera'
```

	IdMasa	Capacitate	Status
1	1	2	Libera
2	4	10	Libera
3	7	12	Libera
4	9	2	Libera
5	11	4	Libera

--9.Sa se afiseze facturile care au suma de plata mai mare de 2500 lei, ordonate descrescator dupa suma de plata

```
select * from Facturi
where SumaPlata>=2500 order by SumaPlata desc
```

	IdFactura	IdFumizor	Serie	Numar	DataEmitere	SumaPlata
1	7	6	SW	717433	2022-05-06	7833
2	10	3	DC	359214	2021-07-03	7387
3	11	2	QK	337735	2022-01-06	6427
4	13	8	BH	53505	2022-06-10	5972
5	15	9	FK	433532	2022-11-09	5509
6	2	7	AA	233555	2022-04-02	5069
7	5	5	EA	456654	2022-03-30	4532
8	6	6	ED	233421	2022-02-28	4532
9	9	3	HH	617383	2022-02-06	4118
10	14	8	RT	574955	2022-10-22	3499
11	8	8	KW	16768	2022-09-16	3017
12	16	5	GJ	855044	2022-08-28	2886
13	3	2	EE	334532	2022-04-04	2500

--10.Sa se afiseze Preparatele care incep cu litera P

```
select * from Preparate
where Denumire like 'P%'
```

	IdPreparat	Denumire	PretPreparat
1	14	Piept de pui	20
2	15	Pastrama de oaie	30
3	16	Pastrav la gratar	25
4	19	Platoul Ciobanului	54
5	20	Platoul Drumetului	52
6	21	Platoul Padurarului	80
7	22	Platou Moldovenesc	99
8	33	Papanasi	18
9	53	Prosecco	30
10	56	Peroni	8

--11. Sa se afiseze numele si prenumele angajatilor, a caror prenume se termina in litera 'a'

```
select Nume,Prenume from Angajati
where Prenume like '%a'
```

	Nume	Prenume
1	Ursachi	Marta
2	Sandu	Codruta
3	Barbusi	Marinela
4	Toader	Andreea
5	Ursachi	Violeta

--12. Sa se afiseze comenzile care au fost achitate cu cardul

```
select * from Comenzi
where ModalitatePlata='Card'
```

	IdComanda	IdMasa	DataPlasareComanda	PretComanda	ModalitatePlata
1	2	4	2022-04-10 14:12:00.000	NULL	Card
2	8	3	2022-04-13 10:22:19.000	NULL	Card
3	9	6	2022-04-13 12:20:20.000	NULL	Card
4	11	7	2022-04-14 14:40:19.000	NULL	Card
5	12	7	2022-04-14 14:12:00.000	NULL	Card

--13.Sa se afiseze Numele si prenumele persoanelor angajate in anul 2020

```
select distinct A.Nume,A.Prenume from Angajati A
inner join
FunctiiAngajati F
on A.IdAngajat=F.IdAngajat
where year(F.DataAngajare)=2020
```

	Nume	Prenume
1	Corbu	Nutu
2	Putin	Vladimir
3	Toader	Andreea
4	Toader	Radu
5	Ursachi	Marta
6	Ursachi	Violeta

--14. Sa se afiseze Id-ul comenzii si modalitatea de plata, de la mesele de doua persoane care au ca modalitate de plata Cash

```
select C.IdComanda from Comenzi C
inner join Mese M
on C.IdMasa=M.IdMasa
```

where M.Capacitate=2 and C.ModalitatePlata='Cash'

	IdComanda
1	1
2	3
3	6

--15. Sa se afiseze numele preparatelor din comanda numarul 3

```
select P.Denumire as 'Preparate Comandate' from ContinutComanda Co
inner join Preparate P
on Co.IdPreparat=P.IdPreparat
where Co.IdComanda=3
```

	Preparate Comandate
1	Meniul Zilei
2	Papanasi
3	Tuborg

--16. Sa se afiseze comenzile care contin ciorba

```
select IdComanda from ContinutComanda C
inner join Preparate P
on C.IdPreparat=P.IdPreparat
where P.Denumire like 'Ciorba %'
```

	IdComanda
1	1
2	1
3	2
4	4
5	6
6	7
7	8
8	9
9	9
10	10
11	10
12	11
13	14

--17. Sa se afiseze comanda care contine Platoul Drumetului, si sa se afiseze ingredientele acestuia.

```

select IdComanda from ContinutComanda C
inner join Preparate P
on C.IdPreparat=P.IdPreparat
inner join IngredientePreparate Ipp
on Ipp.IdPreparat=P.IdPreparat
where P.Denumire='Platoul Drumetului'

```

	IdComanda
1	1
2	5
3	7
4	14

--18. Sa se afiseze preparatele sub 20 de lei care contin Patrunjel

```

select p.Denumire, P.PretPreparat from Preparate P
inner join IngredientePreparate Ipp
on Ipp.IdPreparat=P.IdPreparat
inner join Ingrediente I
on I.IdIngredient=Ipp.IdIngredient
where I.Denumire='Patrunjel' and P.PretPreparat<=20

```

	Denumire	PretPreparat
1	Ciorba de burta	14
2	Ciorba radauteana	13
3	Ciorba de afumatura	14
4	Ciorba de legume	12
5	Ciorba de vacuta	14
6	Ciorba de perisoare	14
7	Ciorba de fasole	13

--19. Sa se afiseze Echipamentele livrate de 'ESAROM ROMANIA SRL'

```

select E.Denumire from Echipamente E
inner join FurnizoriEchipamente FE
on E.IdEchipament=FE.IdEchipament
inner join Furnizori F
on F.IdFurnizor=FE.IdFurnizor
where F.Denumire='ESAROM ROMANIA SRL'

```

	Denumire	Denumire
1	Aragaz	ESAROM ROMANIA SRL
2	Hota	ESAROM ROMANIA SRL
3	Frigider	ESAROM ROMANIA SRL
4	Malaxor	ESAROM ROMANIA SRL
5	Fripteoza	ESAROM ROMANIA SRL
6	Cuptor cu microunde	ESAROM ROMANIA SRL
7	Blender	ESAROM ROMANIA SRL
8	Mixer	ESAROM ROMANIA SRL
9	Furculite	ESAROM ROMANIA SRL
10	Linguri	ESAROM ROMANIA SRL
11	Lingurite	ESAROM ROMANIA SRL

--20. Sa se afiseze Furnizorul de piept de pui

```
select F.Denumire,F.NrTelefon,F.Oras from Furnizori F
inner join FurnizoriIngrediente FI
on F.IdFurnizor=FI.IdFurnizor
inner join Ingrediente I
on I.IdIngredient=FI.IdIngredient
where I.Denumire='Piept de pui'
```

	Denumire	NrTelefon	Oras
1	Espina România Prod S.r.l	0722405140	Timisoara

--21. Sa se afiseze adresa furnizorului de Frigidere

```
select F.IdFurnizor,F.Denumire,F.Oras,F.NrTelefon from Furnizori F
inner join FurnizoriEchipamente FE
on F.IdFurnizor=FE.IdFurnizor
inner join Echipamente E
on E.IdEchipament=FE.IdEchipament
where E.Denumire='Frigider'
```

	IdFurnizor	Denumire	Oras	NrTelefon
1	3	ESAROM ROMANIA SRL	Sibiu	0269208031
2	4	SC VANIMAR BLUE COMPANY SRL	Constanta	0241541910

--22. Sa se afiseze Seria, numarul facturii si suma de plata care trebuie achitate furnizorului 'ALIRO MARMIR SRL'

```
select Serie,Numar,SumaPlata from Facturi Fac
inner join Furnizori Fu
on Fac.IdFurnizor=Fu.IdFurnizor
where Fu.Denumire='ALIRO MARMIR SRL'
```

	Serie	Numar	SumaPlata
1	EE	100335	1504

--23. Sa se afiseze numele furnizorilor pentru preparatele de la masa 6, care e din Bucuresti

```
select distinct F.Denumire,F.Oras,F.NrTelefon from Furnizori F
inner join FurnizoriIngrediente FI
on F.IdFurnizor=FI.IdFurnizor
inner join Ingrediente I
on I.IdIngredient=FI.IdIngredient
inner join IngredientePreparate Ipp
on Ipp.IdIngredient=I.IdIngredient
inner join Preparate P
on P.IdPreparat=Ipp.IdPreparat
inner join ContinutComanda CC
on CC.IdPreparat=P.IdPreparat
inner join Comenzi C
on CC.IdComanda=C.IdComanda
where C.IdMasa=6 and F.Oras='Bucuresti'
```

	Denumire	Oras	NrTelefon
1	Fresh Fruits Logistics	Bucuresti	0767917258

--24.Sa se afiseze Numele si prenumele Angajatilor ordonate descrescator in functie de salariu

```
select distinct A.Nume,A.Prenume,F.Salariu from Angajati A
inner join FunctiiAngajati FA
on A.IdAngajat= FA.IdAngajat
inner join Functii F
on FA.IdFuncție=F.IdFuncție
order by F.Salariu desc
```

	Nume	Prenume	Salariu
1	Sandu	Dragos	6000
2	Toader	Radu	6000
3	Ursachi	Marta	6000
4	Barbusi	Darius	5000
5	Toader	Radu	5000
6	Ursachi	Marta	5000
7	Cioloa	Paul	4000
8	Toader	Andreea	4000
9	Cioloa	Ioan	3500
10	Corbu	Nutu	3500
11	Sandu	Codruta	3500
12	Toader	Andreea	3000
13	Ursachi	Marta	3000
14	Barbusi	Marinela	2000
15	Putin	Vladimir	2000
16	Ursachi	Violeta	2000

--25. Sa se afiseze primele 40% de comenzi ordonate crescator in functie de data
 select TOP(40) Percent* from Comenzi
 order by DataPlasareComanda ASC

	IdComanda	IdMasa	DataPlasareComanda	PretComanda	ModalitatePlata
1	1	1	2022-04-10 12:35:20.000	NULL	Cash
2	2	4	2022-04-10 14:12:00.000	NULL	Card
3	4	6	2022-04-10 15:50:10.000	NULL	Cash
4	3	3	2022-04-11 09:40:19.000	NULL	Cash
5	5	2	2022-04-12 19:49:10.000	NULL	Voucher
6	7	4	2022-04-12 21:12:00.000	NULL	Cash

--26. Sa se afiseze top 3 cei mai bogati angajati
 select TOP(3) * from Functii
 order by Salariu desc

	Idfunctie	Denumire	Salariu
1	1	Manager	6000
2	4	Bucatar	6000
3	3	Director bucatarie	5000

--27. Sa se afiseze personalul angajat intre '01-03-2019' si '01-05-2019'
 select Nume,Prenume from Angajati A
 inner join FunctiiAngajati FA
 on Fa.IdAngajat=A.IdAngajat
 where FA.DataAngajare between '2019-03-01' and '2019-05-01'

	Nume	Prenume
1	Toader	Radu
2	Barbusi	Marinela
3	Toader	Andreea

--28. Sa se afiseze istoricul comenzilor de la masa primei rezervari
 select C.IdComanda,C.DataPlasareComanda from Rezervari R
 inner join Mese M
 on R.IdMasa=M.IdMasa
 inner join Comenzi C
 on C.IdMasa=M.IdMasa
 where M.IdMasa=(select top(1) IdMasa from Rezervari)

	IdComanda	DataPlasareComanda
1	1	2022-04-10 12:35:20.000
2	6	2022-04-12 21:49:10.000

--29.Sa se afiseze Numele si CNP-ul managerului

```

select Nume, Prenume, CNP from Angajati A
inner join FunctiiAngajati FA
on A.IdAngajat=FA.IdAngajat
inner join Functii F
on F.IdFunctie=FA.IdFunctie
where F.Denumire='Manager' and DataDemitere is NULL

```

	Nume	Prenume	CNP
1	Ursachi	Marta	2021011122501

--30. Sa se afiseze Echipamentele care incep cu 'F' si sunt in cantitate mai mare de 100

```

select * from Echipamente
where Denumire like 'F%' and Cantitate>100

```

	IdEchipament	Denumire	Cantitate
1	15	Farfurii	500
2	17	Furculite	500

--31. Sa se afiseze angajatii care au intre 19 si 25 de ani

```

select Nume,year(DataNastere) as 'An Nastere' from Angajati
where (2022-year(DataNastere))>=19 And (2022-year(DataNastere))<=25

```

	Nume	An Nastere
1	Sandu	2001
2	Barbusi	2001
3	Toader	2001
4	Corbu	2002
5	Cioloa	2000
6	Ursachi	2002
7	Sandu	1997
8	Toader	1998

--32. Sa se afiseze preparatele din comenzi care contin'ou'

```

select distinct P.Denumire from ContinutComanda CC
inner join Preparate P
on CC.IdPreparat=P.IdPreparat
where P.Denumire like '%ou%'

```

	Denumire
1	Platou Moldovenesc
2	Platoul Ciobanului
3	Platoul Drumetului
4	Platoul Padurarului

--33. Sa se afiseze preparatele din comenzi care contin 'ou' si se termina cu 'ui' si sa se grupeze in functie de numarul de aparitii.

```
select P.Denumire,count(*) as 'NrAparitii' from ContinutComanda CC
inner join Preparat P
on CC.IdPreparat=P.IdPreparat
where P.Denumire like '%ou%'
and P.Denumire like '%ui'
group by P.Denumire
```

	Denumire	NrAparitii
1	Platoul Ciobanului	1
2	Platoul Drumetului	4
3	Platoul Padurarului	3

--34. Sa se afiseze Numele,prenumele angajatilor care au lucrat mai mult de 2 ani pe o functie

```
select A.Nume,A.Prenume,F.Denumire from Angajati A
inner join FunctiiAngajati FA
on A.IdAngajat=FA.IdAngajat
inner join Functii F
on F.IdFunctie=FA.IdFunctie
where DATEDIFF(month,FA.DataAngajare,'2022-04-27')>=24
```

	Nume	Prenume	Denumire
1	Sandru	Dragos	Manager
2	Barbusi	Darius	Administrator
3	Toader	Radu	Bucatar
4	Ursachi	Marta	Chelner
5	Corbu	Nutu	Baman
6	Cioloa	Paul	Ospatar Sef
7	Sandru	Codruta	Baman
8	Barbusi	Marinela	Om de serviciu
9	Barbusi	Marinela	Spalator de vase
10	Toader	Andreea	Chelner
11	Cioloa	Ioan	Baman
12	Ursachi	Violeta	Om de serviciu

--35. Sa se afiseze Numele,Prenumele angajatilor care au lucrat mai mult de 2 ani pe o functie, care s-au nascut intr o zi para si sunt de sex masculin

```
select A.Nume,A.Prenume,A.DataNastere,A.Sex,F.Denumire from Angajati A
inner join FunctiiAngajati FA
on A.IdAngajat=FA.IdAngajat
```

```

inner join Functii F
on F.IdFuncție=FA.IdFuncție
where DATEDIFF(month,FA.DataAngajare,'2022-04-27')>=24
      and day(A.DataNastere)%2=0
      and sex='Masculin'

```

	Nume	Prenume	DataNastere	Sex	Denumire
1	Sandu	Dragos	2001-10-26	Masculin	Manager
2	Barbusi	Darius	2001-05-10	Masculin	Administrator
3	Corbu	Nutu	2002-01-06	Masculin	Baman

--36. Sa se afiseze Furnizorii din Bucuresti care distribuie ingrediente cu un pret pe
--unitate mai mic de 5 lei

```

select F.IdFurnizor,Denumire,F.Oras from Furnizori F
where exists
(
select FI.IdFurnizor from FurnizoriIngrediente FI
where F.IdFurnizor=FI.IdFurnizor
      and FI.PretUnitate<=5
      and F.Oras='Bucuresti'
)

```

	IdFurnizor	Denumire	Oras
1	6	SC DACTRUST SRL	Bucuresti
2	9	Fresh Fruits Logistics	Bucuresti

--37. Sa se afiseze doar Preparatele care au o lista de ingrediente

```

select Denumire from Preparate P
where exists
(
select Ipp.IdIngredient from IngredientePreparate Ipp
where P.IdPreparat=Ipp.IdPreparat
)

```

	Denumire
1	Ciorba de burta
2	Ciorba radauteana
3	Ciorba de afumatura
4	Ciorba de legume
5	Ciorba de vacuta
6	Ciorba de perisoare
7	Ciorba de fasole
8	Ceafa la gratar
9	Piept de pui
10	Ciulama de pui
11	Platoul Ciobanului
12	Platoul Drumetului

--38. Sa se afiseze facturile care trebuiesc achitate firmei 'ALIRO MARMIR SRL'

```
select * from Facturi
where exists
(
    select IdFurnizor from Furnizori
    where Facturi.IdFurnizor = Furnizori.IdFurnizor and Furnizori.Denumire='ALIRO
MARMIR SRL'
)
```

	IdFactura	IdFurnizor	Serie	Numar	DataEmitere	SumaPlata
1	1	1	EE	100335	2022-04-01	1504

--39. Sa se afiseze Ingredientele pentru preparatul cu ID-ul 3

```
select I.Denumire from Ingrediente I
where exists
(
    select * from IngredientePreparate Ipp
    where I.IdIngredient=Ipp.IdIngredient and Ipp.IdPreparat=3
)
```

	Denumire
1	Patrunjel
2	Apa
3	Costita afumata

--40. Sa se afiseze Numele angajatilor care au salariul mai mare de 5000 de lei

```
select A.Nume,A.Prenume from Angajati A
where exists
(
    select FA.IdAngajat from FunctiiAngajati FA
```

inner join Functii F

on F.IdFunctie=FA.IdFunctie

where A.IdAngajat=FA.IdAngajat and F.Salariu>=5000

)

	Nume	Prenume
1	Sandu	Dragos
2	Barbusi	Darius
3	Toader	Radu
4	Ursachi	Marta

--41. Sa se afiseze numele Ingredientelor si Preparatelor

select I.Denumire from Ingrediente I

UNION

select P.Denumire from Preparate P

	Denumire
1	Apa
2	Aperitiv Moldovenesc
3	Aperitiv Oltenesc
4	Ardei iute
5	B52
6	Bors
7	Branza de burduf
8	Branza de oaie
9	Branza de vaci
10	Burta de vita
11	Busuioc
12	Cappy
13	Carlsberg
14	Camati de porc
15	Came de vacuta
16	Cartofi
17	Cartofi la ceaun
18	Cartofi piure
19	Cartofi prajiti
20	Cartofi taranesti
21	Castraveti
22	Ceafa de porc
23	Ceafa la gratar
24	Ceapa
25	Ciorba de afumatura
26	Ciorba de burta
27	Ciorba de fasole
28	Ciorba de legume
29	Ciorba de perisoare
30	Ciorba de vacuta
31	Ciorba radauteana
32	Ciulama de pui
33	Ciuperci
34	Clatite
35	Coca-Cola
36	Corona extra
37	Costita afumata
38	Cotlet de porc
39	Cremsnit
40	Faine
41	Fanta

41	Fanta
42	Fasole
43	Feteasca
44	Godfather
45	Gogonele
46	Hurricane
47	Inghetata de casa
48	Jagermeister
49	Lamaie
50	Marar
51	Meniul Studentului
52	Meniul Zilei
53	Mirinda
54	Moet
55	Mojito
56	Morcov
57	Muraturi
58	Muschi Afumat
59	Muschi file
60	Mustar
61	Nuca
62	Orez
63	Orez basmati
64	Orez cu lapte
65	Orez cu legume
66	Otet
67	Ou
68	Papanasi
69	Paste integrale
70	Pastrama de oaie
71	Pastrama Oaie
72	Pastrav
73	Pastrav la gratar
74	Patrunjel
75	Pepene
76	Peroni
77	Piept de pui
78	Platou Moldovenesc
79	Platoul Ciobanului
80	Platoul Drumetului

80	Platoul Drumetului
81	Platoul Padurarului
82	Porumb
83	Prosecco
84	Rosii
85	Salam uscat
86	Salata de varza
87	Salata de varza rosie
88	Salata mixta
89	Sex on the beach
90	Smantana
91	Somon
92	Sprite
93	Sunca porc
94	Tortul Casei
95	Tuborg
96	Ulei
97	Varza
98	Vinul casei
99	Vodka
100	White Russian
101	Zombie

--42. Sa se afiseze orasele in care se afla atat Angajati cat si Furnizori

```
select Oras from Angajati  
Intersect  
select F.Oras from Furnizori F
```

	Oras
1	Bucuresti
2	Cluj-Napoca
3	Suceava
4	Valcea

--43. Sa se afiseze orasele in care sunt Angajati dar nu sunt Furnizori

```
select Oras from Angajati  
Except  
select F.Oras from Furnizori F
```

	Oras
1	Bacau
2	Botosani
3	Reghin

--44. Sa se afiseze numarul total de comenzi

```
select COUNT(*) as NumarTotalComenzi from Comenzi
```

	NumarTotalComenzi
1	14

--45. Cate comenzi a avut fiecare masa?

```
select C.IdMasa, COUNT(*) as NumarComenzi from Comenzi C  
group by C.IdMasa
```

	IdMasa	NumarComenzi
1	1	2
2	2	1
3	3	2
4	4	3
5	6	3
6	7	2
7	8	1

--46. Cate comenzi au fost pe zi la fiecare masa?

```
select IdComanda, day(C.DataPlasareComanda) as ZiComanda, count(*) as NumarComenzi
from Comenzi C
group by IdComanda, day(C.DataPlasareComanda)
```

	IdComanda	ZiComanda	NumarComenzi
1	1	10	1
2	2	10	1
3	3	11	1
4	4	10	1
5	5	12	1
6	6	12	1
7	7	12	1
8	8	13	1
9	9	13	1
10	10	13	1
11	11	14	1
12	12	14	1
13	13	14	1
14	14	14	1

--47. Sa se afiseze cati angajati de sex masculin si feminin sunt

```
select A.Sex, Count(*) as NumarAngajati
from Angajati A
group by Sex
```

	Sex	NumarAngajati
1	Feminin	6
2	Masculin	6

--48. Sa se afiseze cate mese au acelasi status

```
select M.Status, Count(*) as NumarMese from Mese M
```


group by Status

	Status	NumarMese
1	Libera	5
2	Ocupata	4
3	Rezervata	4

--49. Sa se afiseze mesele si zilele in care au avut cel putin 2 comenzi

```
select C.IdMasa,day(C.DataPlasareComanda) as ZiComanda, count(*) as NumarComenzi
from Comenzi C
group by C.IdMasa,day(C.DataPlasareComanda)
having count(*)>=2
```

	IdMasa	ZiComanda	NumarComenzi
1	6	13	2
2	7	14	2

--50. Sa se afiseze Denumirea ingredientelor care apar in cel putin 4 retete.

```
select Denumire from Ingrediente I
where exists(
select Ipp.IdIngredient,count(*) as NumarAparitiiIngredient
from IngredientePreparate Ipp
where I.IdIngredient=Ipp.IdIngredient
group by Ipp.IdIngredient
having count(*)>=4
)
```

	Denumire
1	Patrunjel
2	Piept de pui
3	Smantana
4	Apa

--51. Sa se afiseze cati angajati sunt din fiecare oras

```
select A.Oras, count(*) as NumarAngajati from Angajati A
group by A.Oras
```

	Oras	NumarAngajati
1	Bacau	3
2	Botosani	2
3	Bucuresti	1
4	Cluj-Napoca	1
5	Reghin	2
6	Suceava	1
7	Valcea	2

--52. Sa se afiseze orasele din care sunt cel putin 2 angajati

```
select A.Oras,count(*) as NumarAngajati from Angajati A
group by A.Oras
having count(*)>=2
order by A.Oras DESC
```

	Oras	NumarAngajati
1	Valcea	2
2	Reghin	2
3	Botosani	2
4	Bacau	3

--53. Sa se afiseze in ce data a fost efectuata cel putin o comanda, prima si ultima zi a comenzilor

```
select C.IdMasa,count(C.DataPlasareComanda) as
ComenziEfectuate,MIN(C.DataPlasareComanda) as PrimaZi,Max(DataPlasareComanda) as
UltimaZi
from Comenzi C
group by C.IdMasa
```

	IdMasa	ComenziEfectuate	PrimaZi	UltimaZi
1	1	2	2022-04-10 12:35:20.000	2022-04-12 21:49:10.000
2	2	1	2022-04-12 19:49:10.000	2022-04-12 19:49:10.000
3	3	2	2022-04-11 09:40:19.000	2022-04-13 10:22:19.000
4	4	3	2022-04-10 14:12:00.000	2022-04-14 21:20:10.000
5	6	3	2022-04-10 15:50:10.000	2022-04-13 13:40:19.000
6	7	2	2022-04-14 14:12:00.000	2022-04-14 14:40:19.000
7	8	1	2022-04-14 19:49:10.000	2022-04-14 19:49:10.000

--54. Sa se afiseze in cate din zile au fost efectuate comenzi pe fiecare masa in parte

```
select C.IdMasa,count(Distinct C.DataPlasareComanda) as 'Numar de zile'
from Comenzi C
```

group by C.IdMasa

	IdMasa	Numar de zile
1	1	2
2	2	1
3	3	2
4	4	3
5	6	3
6	7	2
7	8	1

--55. Sa se afiseze cate echipamente au fost distribuite de fiecare
--furnizor, si sa se afiseze numele furnizorului

```
select F.IdFurnizor,F.Denumire,count(*) as NrEchipamente
from Furnizori F
join FurnizoriEchipamente FE
on FE.IdFurnizor=F.IdFurnizor
group by F.IdFurnizor,F.Denumire
```

	IdFurnizor	Denumire	NrEchipamente
1	1	ALIRO MARMIR SRL	5
2	2	SC BRILL CATERING SRL	7
3	3	ESAROM ROMANIA SRL	11
4	4	SC VANIMAR BLUE COMPANY SRL	5
5	5	SC FORTEX COM SRL	4
6	6	SC DACTRUST SRL	1

--56. Sa se afiseze denumirea furnizorilor care au distribuit mai mult de 4 echipamente

```
select F.Denumire from Furnizori F
where exists
(
    select FE.IdFurnizor,count(*) as NrEchipamente
    from FurnizoriEchipamente FE
    where FE.IdFurnizor=F.IdFurnizor
    group by FE.IdFurnizor
    having count(*)>=4
)
```

	Denumire
1	ALIRO MARMIR SRL
2	SC BRILL CATERING SRL
3	ESAROM ROMANIA SRL
4	SC VANIMAR BLUE COMPANY SRL
5	SC FORTEX COM SRL

--57. Sa se afiseze sumaTotala de plata a tuturor facturilor

```
select SUM (SumaPlata) as 'SumaTotala(Lei)' from Facturi
```

	SumaTotala(Lei)
1	67483

--58. Sa se afiseze suma de plata pe luna a facturilor

```
select MONTH(Facturi.DataEmitere) as LunaFacturare, SUM (SumaPlata) as 'SumaTotala(Lei)'  
from Facturi  
group by MONTH(Facturi.DataEmitere)
```

	LunaFacturare	SumaTotala(Lei)
1	1	8556
2	2	8650
3	3	5101
4	4	9073
5	5	7833
6	6	5972
7	7	7387
8	8	2886
9	9	3017
10	10	3499
11	11	5509

--59. Sa se afiseze Id-ul meselor care se afla in tabela comenzi

```
select IdMasa from Mese  
intersect  
select IdMasa from Comenzi
```

	IdMasa
1	1
2	2
3	3
4	4
5	6
6	7
7	8

--60. Sa se afiseze Denumirea Furnizorilor care NU distribuie Ingrediente

```
select F.IdFurnizor from Furnizori F
```

```
except
select FI.IdFurnizor from FurnizoriIngrediente FI
```

	IdFurnizor
1	1
2	2
3	3
4	4
5	5

--61. Sa se afiseze cea mai scumpa factura pe fiecare luna

```
select F.Numar,F.Serie,MAX(F.SumaPlata) as SumaFactura, MONTH(F.DataEmitere) as 'Luna
Emitere'
from Facturi F
group by MONTH(F.DataEmitere),F.Numar,F.Serie
```

	Numar	Serie	SumaFactura	Luna Emitere
1	172681	SR	2129	1
2	337735	QK	6427	1
3	233421	ED	4532	2
4	617383	HH	4118	2
5	321333	AA	569	3
6	456654	EA	4532	3
7	100335	EE	1504	4
8	233555	AA	5069	4
9	334532	EE	2500	4
10	717433	SW	7833	5
11	53505	BH	5972	6
12	359214	DC	7387	7
13	855044	GJ	2886	8
14	16768	KW	3017	9
15	574955	RT	3499	10
16	433532	FK	5509	11

--62. Sa se afiseze preparatele care au mai putin de 4 ingrediente

```
select Ipp.IdPreparat,count(Ipp.IdIngredient) as 'NumarIngrediente' from IngredientePreparate
Ipp
group by Ipp.IdPreparat
having count(Ipp.IdIngredient)<=4
```

	IdPreparat	NumarIngrediente
1	1	4
2	3	3
3	5	4
4	6	4
5	7	3
6	12	1
7	14	1
8	18	3

--63. Sa se afiseze mesele care apar in tabele de rezervari

```
select M.IdMasa from Mese M
intersect
select R.IdMasa from Rezervari R
```

	IdMasa
1	1
2	2
3	3
4	5
5	6
6	7

--64. Sa se afiseze media salariilor Angajatilor

```
select AVG(F.Salariu) as 'MedieSalarii'
from Functii F
```

	MedieSalarii
1	4000

--65. Sa se afiseze Angajatii pe varste, numai pt varstele care au peste 2 Angajati

```
select DATEDIFF(year,A.DataNastere,GETDATE())as 'Varsta',count(A.Nume) as 'NrAngajati'
from Angajati A
group by DATEDIFF(year,A.DataNastere,GETDATE())
having count(A.Nume)>=2
```

	Varsta	NrAngajati
1	20	2
2	21	3

Capitolul 5: CTE-uri

--1. Sa se creeze o expresie care sa afiseze Numele Angajatilor care au un salariu mai mare de 4000 ron. Afisarea se va face descrescator pe salariu si crescator pe Numele angajatilor

```
WITH CTE_1(Nume,Prenume,Salariu)
AS
(
    select A.Nume,A.Prenume,F.Salariu from Angajati A
    join FunctiiAngajati FA
    on FA.IdAngajat=A.IdAngajat
    join Functii F
    on F.IdFunctie=FA.IdFunctie
    where F.Salariu>=4000 and FA.DataDemitere is NULL
)
select * from CTE_1
order by Salariu ASC, Nume DESC
```

	Nume	Prenume	Salariu
1	Toader	Andreea	4000
2	Cioloa	Paul	4000
3	Toader	Radu	5000
4	Barbusi	Darius	5000
5	Ursachi	Marta	6000
6	Toader	Radu	6000

--2.Sa se creeze o expresie care sa afiseze Denumirea,Adresa si nr de telefon al Furnizorului de 'Ceafa de porc',

```
WITH CTE_2(DenumireFurnizor, Oras,NrTelefon)
AS
(
    select F.Denumire,F.Oras,F.NrTelefon from Furnizori F
    inner join FurnizoriIngrediente FI
    on F.IdFurnizor=FI.IdFurnizor
    inner join Ingrediente I
    on I.IdIngredient=FI.IdIngredient
    where I.Denumire='Ceafa de porc'
)
select * from CTE_2
```

	DenumireFurnizor	Oras	NrTelefon
1	Espina România Prod S.r.l	Timisoara	0722405140

--3. Sa se creeze o expresie care sa afiseze numarul de comenzi,mai mare ca 2, grupate pe mese plasate dupa data de 12.04.2022

```
WITH CTE_3(IdMasa, NrComenzi)
AS
(
    Select M.IdMasa,count(C.IdComanda)
    from Mese M
    join Comenzi C
    on C.IdMasa=M.IdMasa
    where C.DataPlasareComanda>='2022/04/12'
    group by M.IdMasa
    having count(C.IdComanda)>=2
)
select * from CTE_3
```

	IdMasa	NrComenzi
1	4	2
2	6	2
3	7	2

--4. Sa se creeze o expresie care sa afiseze grupat pe luna cate facturi s-au emis, si care e pretul total al acestora

```
with CTE_4 (LunaEmitere, SumaPlata,NrFacturi)
as
(
    select MONTH(F.DataEmitere), SUM(F.SumaPlata),Count(F.IdFactura)
    from Facturi F
    group by MONTH(F.DataEmitere)
)
select * from CTE_4
```

	LunaEmitere	SumaPlata	NrFacturi
1	1	8556	2
2	2	8650	2
3	3	5101	2
4	4	9073	3
5	5	7833	1
6	6	5972	1
7	7	7387	1
8	8	2886	1
9	9	3017	1
10	10	3499	1
11	11	5509	1

--5. Sa se afiseze Denumirea si Orasul furnizorului preparatelor de la masa 4

```

with CTE_5
as
(
    select F.Denumire from Furnizori F
inner join FurnizoriIngrediente FI
on F.IdFurnizor=FI.IdFurnizor
inner join Ingrediente I
on I.IdIngredient=FI.IdIngredient
inner join IngredientePreparate Ipp
on Ipp.IdIngredient=I.IdIngredient
inner join Preparate P
on P.IdPreparat=Ipp.IdPreparat
inner join ContinutComanda CC
on CC.IdPreparat=P.IdPreparat
inner join Comenzi C
on CC.IdComanda=C.IdComanda
where C.IdMasa=4
)
select DISTINCT* from CTE_5

```

	Denumire
1	Espina România Prod S.r.l
2	Fresh Fruits Logistics
3	Macelaria AGAPE

--6. Sa se creeze o expresie care sa afiseze Denumirea Furnizorilor care NU distribuie Ingrediente si au primele 2 cifre din numarul de telefon '02' si sunt din Sibiu sau Constanta
WITH CTE_6(IdFurnizor)

```

AS
(
select F.IdFurnizor from Furnizori F
except
select FI.IdFurnizor from FurnizoriIngrediente FI
)
select F.IdFurnizor,F.Denumire,F.NrTelefon,F.Oras from CTE_6 C
inner join Furnizori F
on C.IdFurnizor=F.IdFurnizor
where F.NrTelefon like '02%'

```

and Oras='Sibiu' or
Oras ='Constanta'

	IdFurnizor	Denumire	NrTelefon	Oras
1	3	ESAROM ROMANIA SRL	0269208031	Sibiu
2	4	SC VANIMAR BLUE COMPANY SRL	0241541910	Constanta

Capitolul 6: View-uri

--1. Sa se creeze un view cu numarul de comenzi efectuate in fiecare zi

```
if OBJECT_ID('View_1','v') is not null
    drop view ComenziPerZi;
go
create view View_1
as
    select day(c.DataPlasareComanda) as 'ZiComanda', count(C.IdComanda) as
'NumarComenzi'
    from Comenzi C
    group by day(c.DataPlasareComanda)

select * from View_1
```

	ZiComanda	NumarComenzi
1	10	3
2	11	1
3	12	3
4	13	3
5	14	4

--2. Sa se creeze un view cu preparatele grupate pe Numarul de aparitii din Comenzi care incep cu litera 'P' si costa intre 40 si 100 lei

```
go
if OBJECT_ID('View_2','v') is not null
    drop view View_2;
go
create view View_2
as
    select P.Denumire, count(CC.IdPreparat) as 'NrPreparate' from ContinutComanda CC
    inner join Preparate P
    on CC.IdPreparat=P.IdPreparat
    where P.Denumire like 'P%' and P.PretPreparat Between 40 and 100
    group by P.Denumire
```

select* from View_2

	Denumire	NrPreparate
1	Platou Moldovenesc	2
2	Platoul Ciobanului	1
3	Platoul Drumetului	4
4	Platoul Padurarului	3

--3. Sa se creeze un view care sa contina Denumirea
--echipamentelor care au furnizorul din Cluj-Napoca

```
go
if OBJECT_ID('View_3','v') is not null
    drop view View_3;
go
create view View_3
as
    select distinct E.Denumire from Echipamente E
    inner join FurnizoriEchipamente FE
    on FE.IdEchipament=E.IdEchipament
    join Furnizori F
    on F.IdFurnizor=FE.IdFurnizor
    where F.Oras='Cluj-Napoca'
select * from View_3
```

	Denumire
1	Aragaz
2	Bol
3	Cuptor Pizza
4	Farfurii
5	Fierbator
6	Fripteoza
7	Gratar grill
8	Hota
9	Masina de curatat cartofi
10	Mixer

--4. Sa se creeze un view cu Angajatii care au fost demisi din Functie

```
go
if OBJECT_ID('View_4','v') is not null
    drop view View_4;
go
create view View_4
as
    select A.Nume,A.Prenume from Angajati A
    join FunctiiAngajati FA
    on A.IdAngajat=FA.IdAngajat
    where DataDemitere is not null
```

	Nume	Prenume
1	Sandu	Dragos
2	Toader	Radu
3	Ursachi	Marta
4	Ursachi	Marta
5	Corbu	Nutu
6	Toader	Andreea
7	Ursachi	Violeta

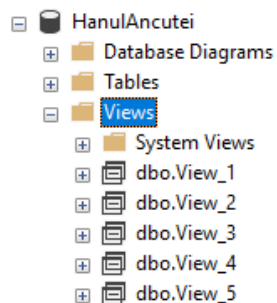
--5. Sa se creeze un view cu Angajatii care au fost promovati
--din functie

```

if OBJECT_ID('View_5','v') is not null
    drop view View_5;
go
create view View_5
as
    WITH CTE_6(IdAngajat,Nume,Prenume,DataDemitere)
    AS
    (
        select distinct A.IdAngajat,A.Nume,A.Prenume, FA.DataDemitere from Angajati A
        join FunctiiAngajati FA
        on A.IdAngajat=FA.IdAngajat
        where DataDemitere is not null
    )
    select Nume,Prenume from CTE_6 C
    inner join FunctiiAngajati FA
    on FA.IdAngajat=C.IdAngajat
    where Fa.DataAngajare=C.DataDemitere

```

	Nume	Prenume
1	Toader	Andreea
2	Ursachi	Marta
3	Ursachi	Violeta



Capitolul 7: Triggere

--1. Sa se creeze un declansator care sa afiseze un mesaj cand se executa insert in tabela de Angajati.

```
if OBJECT_ID('TriggerINSERT_Angajati','Tr') is not null
    drop trigger TriggerINSERT_Angajati

go
create Trigger TriggerINSERT_Angajati
on Angajati
for Insert
as
BEGIN
    print('S-a executat un INSERT')
END
GO
begin tran
    insert into Angajati(Nume,Prenume,DataNastere,CNP,Sex,Oras) values
        ('Popa','Ionut', '2002-12-03','5021203046234','Masculin','Bacau')
rollback
```

S-a executat un INSERT

(1 row affected)

Completion time: 2022-05-13T21:05:57.2707207+03:00

	IdAngajat	Nume	Prenume	DataNastere	CNP	Sex	Oras
1	16	Popa	Ionut	2002-12-03	5021203046234	Masculin	Bacau

--2.Sa se creeze un declansator care sa afiseze un mesaj de eroare 16,1 cand se executa UPDATE in tabela Angajati.

```
if OBJECT_ID('TriggerUPDATE_Angajati','Tr') is not null
    drop trigger TriggerUPDATE_Angajati
```

```
go
create Trigger TriggerUPDATE_Angajati
on Angajati
for Update
as
BEGIN
    RAISERROR('S-a executat un UPDATE',16,1)
```

```
END
GO
```

```
begin tran
    Update Angajati
    set Prenume='Darie'
    where Nume='Popa'
rollback
```

```
Msg 50000, Level 16, State 1, Procedure TriggerUPDATE_Angajati, Line 6 [Batch Start Line 34]
S-a executat un UPDATE
```

```
(0 rows affected)
```

```
Completion time: 2022-05-13T21:08:29.2295304+03:00
```

--3. Sa se creezeze un declansator care sa afiseze un mesaj cand se executa DELETE in tabela de Angajati

```
if OBJECT_ID('TriggerDELETE_Angajati','Tr') is not null
    drop trigger TriggerDELETE_Angajati
```

```
go
create Trigger TriggerDELETE_Angajati
on Angajati
for Delete
as
BEGIN
    print('A fost executat un delete in tabela Angajati')
END
GO
begin tran
    delete from Angajati where Nume='Popa'
    select * from Angajati where Nume='Popa'
rollback
```

```
A fost executat un delete in tabela Angajati
```

```
(0 rows affected)
```

```
Completion time: 2022-05-13T21:09:32.8020325+03:00
```

IdAngajat	Nume	Prenume	DataNastere	CNP	Sex	Oras
-----------	------	---------	-------------	-----	-----	------

--4. Sa se creeze un declansator pentru tabela Functii care adauga 10 lei la salariul medicului inserta

```
if OBJECT_ID('FunctiiSalariu','Tr') is not null
    drop trigger FunctiiSalariu

go
create Trigger FunctiiSalariu
on Functii
AFTER insert
as
BEGIN
    update Functii
    set Functii.Salariu=Functii.Salariu+10
    from inserted
    where Functii.IdFunctie=inserted.IdFunctie
    print('Ai inserat o noua valoare in tabelul Functii')
END

go
begin tran
    insert into Functii(Denumire,Salariu) values
    ('Ajutor Manager2',3500)
    select * from Functii
```

rollback

(1 row affected)

Ai inserat o noua valoare in tabelul Functii

(1 row affected)

Completion time: 2022-05-13T21:12:10.0764675+03:00

	IdFunctie	Denumire	Salariu
1	14	Ajutor Manager2	3510

--5.Sa se creeze un declansator pentru tabela Functii care sa inlocuiasca operatia INSERT cu operatia UPDATE, cand dorim inserarea unei noi functii, se va declansa update, iar salariul va creste cu 9 lei, numai pentru functiile care au un salariu intre 2000-4000 lei

```
if OBJECT_ID('Functii_update_insteadOF_insert','Tr') is not null
    drop trigger Functii_update_insteadOF_insert
```

go

```

create Trigger Functii_update_insteadOF_insert
on Functii
instead of insert
as
BEGIN
    update Functii
    set Functii.Salariu=Functii.Salariu+9 from inserted
    where Functii.Salariu between 2000 and 4000
END
go
begin tran
    insert into Functii(Denumire,Salariu) values
    ('Ajutor Manager2',3500)
rollback

```

(6 rows affected)

(1 row affected)

Completion time: 2022-05-13T21:16:27.4998638+03:00

	IdFunctie	Denumire	Salariu
1	1	Manager	6000
2	2	Administrator	5000
3	3	Director bucatarie	5000
4	4	Bucatar	6000
5	5	Ajutor de bucatar	3509
6	6	Spalator de vase	2009
7	7	Ospatar Sef	4009
8	8	Baman	3509
9	9	Chelner	3009
10	10	Om de serviciu	2009

--6. Sa se creeze un trigger care sa afiseze un mesaj de eroare daca s-a modificat numarul de telefon al unui furnizor si alt mesaj daca s-a modificat altceva

```

if OBJECT_ID('UpdateError_Furnizori','Tr') is not null
    drop trigger UpdateError_Furnizori

```

```

go
create Trigger UpdateError_Furnizori
on Furnizori
for update
as
BEGIN

```



```

        if update(NrTelefon)
            RAISERROR('S-a modificat campul NrTelefon',16,1)

        else
            RAISERROR('S-a modificat alt camp din Furnizori',16,1)
END
go
begin tran
    update Furnizori
    set NrTelefon='0720410777'
    where Denumire='ALIRO MARMIR SRL'

    update Furnizori
    set Oras='Cluj-Napoca'
    where Denumire='ALIRO MARMIR SRL'
rollback

```

```

(9 rows affected)
Msg 50000, Level 16, State 1, Procedure UpdateError_Furnizori, Line 7 [Batch Start Line 135]
S-a modificat campul NrTelefon

(1 row affected)
Msg 50000, Level 16, State 1, Procedure UpdateError_Furnizori, Line 10 [Batch Start Line 135]
S-a modificat alt camp din Furnizori

(1 row affected)

Completion time: 2022-05-13T21:17:02.1008417+03:00

```

--7.Sa se creeze un trigger care sa afiseze un mesaj de eroare daca s-a modificat CNP-ul si data de nastere a unui angajat si alt mesaj daca s-a modificat altceva

```

if OBJECT_ID('UpdateErrorAngajati','Tr') is not null
    drop trigger UpdateErrorAngajati

go
create Trigger UpdateErrorAngajati
on Angajati
for update
as
BEGIN
    if update(DataNastere) and UPDATE(CNP)
        RAISERROR('S-a modificat campul DataNastere si CNP din tabela
Angajati',16,1)
    else
        RAISERROR('S-a modificat alt camp din tabelul Angajati',16,1)
END

```

```

go
begin tran
    insert into Angajati(Nume,Prenume,DataNastere,CNP,Sex,Oras) values
    ('Popa','Ionut', '2002-12-03','5021203046234','Masculin','Bacau')

    update Angajati
    set DataNastere='1997-12-03', CNP='5021203046999'
    where nume='Popa'
rollback

```

```

Msg 50000, Level 16, State 1, Procedure UpdateErrorAngajati, Line 7 [Batch Start Line 164]
S-a modificat campul DataNastere si CNP din tabela Angajati

(1 row affected)

Completion time: 2022-05-13T21:19:40.7327792+03:00

```

--8. Sa se creeze un declansator asupra lui View3 pentru operatiile de DELETE,INSERT,UPDATE sa arunce o eroare. Deoarece nu sunt permise modificari asupra viewurilor care contin tabele multiple

```

if OBJECT_ID('Trigger_View3','Tr') is not null
    drop trigger Trigger_View3
go
create Trigger Trigger_View3
on View_3
INSTEAD OF Update, insert, delete
as
BEGIN
    RAISERROR('Invalid Operation!!!',16,1)
END
go
begin tran
    insert into View_3(Denumire) values
    ('Cuptor pe lemne');
rollback

```

```

Msg 50000, Level 16, State 1, Procedure Trigger_View3, Line 6 [Batch Start Line 188]
Invalid Operation!!!

(1 row affected)

```

--9.Sa se afiseze un mesaj de eroare daca una dintre valorile adaugate in tabela Furnizor este NULL.

```

if OBJECT_ID('Furnizor_InsertedNULL','Tr') is not null
    drop trigger Furnizor_InsertedNULL
GO
create Trigger Furnizor_InsertedNULL

```

```

ON Furnizori
for insert
as
BEGIN
    DECLARE @mDenumire nvarchar(64),
            @mOras nvarchar(32),
            @mNrTelefon nvarchar(10)

    select @mDenumire= F.Denumire, @mOras=F.Oras,
           @mNrTelefon=F.NrTelefon
    from Furnizori F
    if (@mDenumire is null or @mNrTelefon is null OR
        @mNrTelefon is null)
        RAISERROR('Element NULL',16,1)
    return

END
go
begin tran
    insert into Furnizori(Denumire,Oras) values
        ('Dragos SRL','Bacau')
rollback

```

Msg 515, Level 16, State 2, Line 220

Cannot insert the value NULL into column 'NrTelefon', table 'HanulAncutei.dbo.Furnizori'; column does not allow nulls. INSERT fails
The statement has been terminated.

Completion time: 2022-05-13T21:21:09.6784479+03:00

--10. Sa se creeze un Trigger care sa afiseze un mesaj de eroare daca se insereaza un Echipament care exista deja, daca nu sa nu il insereze.

```

if OBJECT_ID('Echipament_Existent','TR') is not null
    drop trigger Echipament_Existent
go
create TRIGGER Echipament_Existent
on Echipamente
After Insert
as
BEGIN
    if exists(select count(*) from inserted I
              join Echipamente C
              on C.Denumire=I.Denumire
              group by I.Denumire
              having count(*)>1)
        raiserror('Ati introdus un echipament care deja exista',16,1)
    else
        print 'e ok'

END
go

```

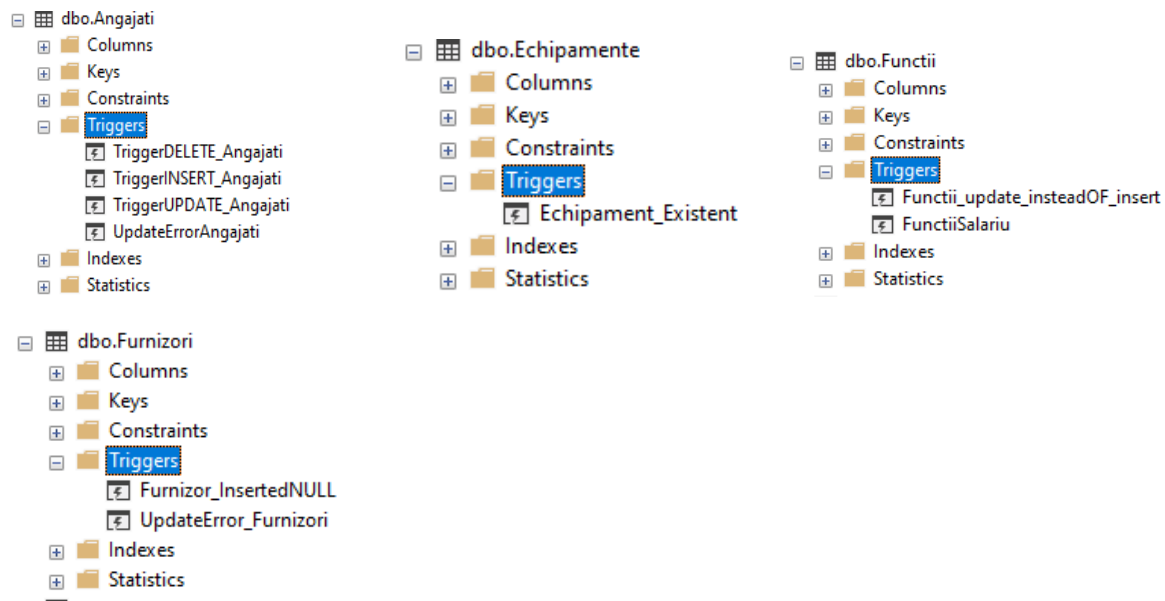
```
begin tran
    insert into Echipamente(Denumire,Cantitate) values
    ('Aragaz',2)
rollback
```

Msg 50000, Level 16, State 1, Procedure Echipament_Existent, Line 11 [Batch Start Line 244]
Ati introdus un echipament care deja exista

(1 row affected)

Completion time: 2022-05-13T21:23:21.4244802+03:00

Triggerele create anterior pot fi vizualizate atunci cand dam click pe Tabelul corespunzator acestuia:



Capitolul 8: Proceduri Stocate

--1. Sa se creeze o procedura stocata care sa afiseze angajatii nascuti intre anul xxxx-yyyy. Sa se execute apoi procedura pentru anii 2000-2003.

```
if OBJECT_ID('Angajati_An1_An2','P') is not null
    drop proc Angajati_An1_An2;
GO

create PROC Angajati_An1_An2
    @An1 as int=1997,
    @An2 as int=2002,
    @numRows int=0 output
as
BEGIN
    select * from Angajati
    where year(DataNastere) between @An1 and @An2
    set @numRows=@@ROWCOUNT
    return;
END
```

```
DECLARE @numRowsReturned AS INT;
exec Angajati_An1_An2
    @An1=2000,
    @An2=2003,
    @numRows=@numRowsReturned output;

SELECT @numRowsReturned AS 'Number of rows returned'
```

	IdAngajat	Nume	Prenume	DataNastere	CNP	Sex	Oras
1	1	Sandu	Dragos	2001-10-26	5011026046200	Masculin	Bacau
2	2	Barbusi	Darius	2001-05-10	5011011146203	Masculin	Valcea
3	3	Toader	Radu	2001-07-25	5022011146102	Masculin	Bacau
4	4	Corbu	Nutu	2002-01-06	2022015566600	Masculin	Bucuresti
5	5	Cioloa	Paul	2000-02-05	5011015566501	Masculin	Reghin
6	6	Ursachi	Marta	2002-04-14	2021011122501	Feminin	Botosani
7	17	Popa	Ionut	2002-12-03	5021203046234	Masculin	Bacau

	Number of rows returned
1	7

--2. Sa se creeze o procedura stocata care sa afiseze angajatii de un anumit sex, care sunt dintr-un anumit oras si al caror prenume se termina intr o anumita litera. Sa se execute procedura pentru Angajatii de sex Masculin, din orasul Bacau al caror prenume se termina in s.

```

if object_id('Angajati_sex_oras_litera','P') is not null
    drop proc Angajati_sex_oras_litera

GO
CREATE PROC Angajati_sex_oras_litera
    @mSex as varchar(16),
    @mOras as varchar(16),
    @mLitera as varchar(2),
    @numRows as int =0 output
as
BEGIN
    select IdAngajat,Nume,Prenume,Sex, Oras from Angajati
    where Sex=@mSex
        and Oras=@mOras
        and Nume like @mLitera
    set @numRows=@@ROWCOUNT
    return;
END

declare @numRowsReturned as int;
exec Angajati_sex_oras_litera
    @mSex='Masculin',
    @mOras='Bacau',
    @mLitera='S%',
    @numRows =@numRowsReturned output;

SELECT @numRowsReturned AS 'Number of rows returned'

```

	IdAngajat	Nume	Prenume	Sex	Oras
1	1	Sandu	Dragos	Masculin	Bacau

	Number of rows returned
1	1

--3. Sa se creeze o procedura stocata care sa afiseze mesele care au un anumit status si au avut un numar de rezervari mai mare de 1

```
if object_id('StatusMese','P') is not null
    drop proc StatusMese
```

GO

```
create PROC StatusMese
    @mStatus as varchar(16),
    @mNumarRezervari int,
    @numRows int =0 output
```

as

BEGIN

```
    select M.IdMasa,count(R.IdMasa) as 'Numar Rezervari' from Mese M
    join Rezervari R
    on R.IdMasa=M.IdMasa
    where M.Status=@mStatus
    group by M.IdMasa
    having count(R.IdMasa)>=@mNumarRezervari
    set @numRows=@@ROWCOUNT
    return;
```

end;

```
declare @numRowsReturned as int;
```

```
exec StatusMese
```

```
    @mStatus='Rezervata',
```

```
    @mNumarRezervari=1,
```

```
    @numRows=@numRowsReturned output;
```

```
SELECT @numRowsReturned AS 'Number of rows returned'
```

	IdMasa	Numar Rezervari
1	3	1
2	5	3

	Number of rows returned
1	2

--4. Sa se creeze o procedura stocata care sa afiseze Numele,prenumele,cnp-ul si data angajarii persoanelor care sunt angajate dupa o anumita data si care inca lucreaza, si al caror nume se termina cu o anumita litera, iar cnp-ul incepe cu o anumita cifra

```
if OBJECT_ID('AngajatiData','P') is not null
    drop proc AngajatiData
```

GO

```

CREATE PROC AngajatiData
    @mDataAngajare date,
    @mLiteraPrenume varchar(2),
    @mCifraCNP varchar(2)
as
BEGIN
    select A.Nume,A.Prenume,A.CNP,FA.DataAngajare from Angajati A
    join FunctiiAngajati FA
    on FA.IdAngajat=A.IdAngajat
    where FA.DataAngajare>=@mDataAngajare and FA.DataDemitere is null
        and A.Prenume like @mLiteraPrenume
        and A.CNP like @mCifraCNP

    return;
END

```

```

exec AngajatiData
    @mDataAngajare='2020-02-01',
    @mLiteraPrenume='%a',
    @mCifraCNP='5%'

```

	Nume	Prenume	CNP	DataAngajare
1	Toader	Andreea	5981205225012	2020-05-10
2	Ursachi	Violeta	5760905122501	2020-07-20

--5. Sa se creeze o procedura care sa afiseze Id-ul comenzii si modalitatea de plata, de la mesele de o anumita capacitate care au o anumita modalitate de plata

```

if OBJECT_ID('Capacitate_ModalitatePlata_Mese','P') is not null
    drop proc Capacitate_ModalitatePlata_Mese
GO
CREATE PROC Capacitate_ModalitatePlata_Mese
    @mCapacitate int,
    @mModalitatePlata nvarchar(8)
as
BEGIN
    select C.IdComanda,C.ModalitatePlata from Comenzi C
    inner join Mese M
    on C.IdMasa=M.IdMasa
    where M.Capacitate=@mCapacitate
        and C.ModalitatePlata=@mModalitatePlata

    return;
END

exec Capacitate_ModalitatePlata_Mese

```


@mCapacitate =10,
@mModalitatePlata='Cash'

	IdComanda	ModalitatePlata
1	7	Cash
2	14	Cash

--6. Sa se creeze o procedura care sa afiseze comanda care contine un anumit Preparat si sa se afiseze ingredientele acestuia.

```
if OBJECT_ID('IngredientePreparatComanda','P') is not null
    drop proc IngredientePreparatComanda
GO
CREATE PROC IngredientePreparatComanda
    @mDenumirePreparat1 nvarchar(32),
    @mDenumirePreparat2 nvarchar(32)
as
BEGIN
    select IdComanda, P.Denumire,I.Denumire from ContinutComanda C
    inner join Preparate P
    on C.IdPreparat=P.IdPreparat
    inner join IngredientePreparate Ipp
    on Ipp.IdPreparat=P.IdPreparat
    inner join Ingrediente I
    on ipp.IdIngredient=I.IdIngredient
    where P.Denumire=@mDenumirePreparat1
        or P.Denumire=@mDenumirePreparat2
    return;
END
select * from Preparate
exec IngredientePreparatComanda
    @mDenumirePreparat1='Platoul Drumetului',
    @mDenumirePreparat2='Ciorba de legume'
```

1	1	Platoul Drumetului	Branza de burduf
2	1	Platoul Drumetului	Camati de porc
3	1	Platoul Drumetului	Ceapa
4	1	Platoul Drumetului	Gogonele
5	1	Platoul Drumetului	Muschi Afumat
6	1	Platoul Drumetului	Mustar
7	1	Platoul Drumetului	Piept de pui
8	1	Platoul Drumetului	Sunca porc
9	5	Platoul Drumetului	Branza de burduf
10	5	Platoul Drumetului	Camati de porc
11	5	Platoul Drumetului	Ceapa
12	5	Platoul Drumetului	Gogonele
13	5	Platoul Drumetului	Muschi Afumat
14	5	Platoul Drumetului	Mustar
15	5	Platoul Drumetului	Piept de pui
16	5	Platoul Drumetului	Sunca porc
17	6	Ciorba de legume	Apa
18	6	Ciorba de legume	Bors
19	6	Ciorba de legume	Cartofi
20	6	Ciorba de legume	Marar
21	6	Ciorba de legume	Patrunjel
22	7	Platoul Drumetului	Branza de burduf
23	7	Platoul Drumetului	Camati de porc
24	7	Platoul Drumetului	Ceapa
25	7	Platoul Drumetului	Gogonele
26	7	Platoul Drumetului	Muschi Afumat
27	7	Platoul Drumetului	Mustar
28	7	Platoul Drumetului	Piept de pui
29	7	Platoul Drumetului	Sunca porc
30	9	Ciorba de legume	Apa
31	9	Ciorba de legume	Bors
32	9	Ciorba de legume	Cartofi
33	9	Ciorba de legume	Marar
34	9	Ciorba de legume	Patrunjel
35	14	Ciorba de legume	Apa
36	14	Ciorba de legume	Bors
37	14	Ciorba de legume	Cartofi
38	14	Ciorba de legume	Marar
39	14	Ciorba de legume	Patrunjel
40	14	Platoul Drumetului	Branza de burduf

--7. Sa se creeze o procedura sa afiseze Echipamentele livrate de o anumita firma si care se afla pe stoc intr un numar mai mare dat ca parametru procedurii

```

if OBJECT_ID('FirmaEchipamente','P') is not null
    drop proc FirmaEchipamente
go
create proc FirmaEchipamente
    @numeFirma nvarchar(32),
    @StocMinim int
as
begin
    select E.Denumire,E.Cantitate from Echipamente E

```

```

        inner join FurnizoriEchipamente FE
        on E.IdEchipament=FE.IdEchipament
        inner join Furnizori F
        on F.IdFurnizor=FE.IdFurnizor
        where F.Denumire=@numeFirma
               and E.Cantitate>=@StocMinim
    return
end

exec FirmaEchipamente
    @numeFirma='SC BRILL CATERING SRL',
    @StocMinim=3

```

	Denumire	Cantitate
1	Hota	6
2	Cuptor Pizza	4
3	Fripteoza	3
4	Gratar grill	3
5	Masina de curatat cartofi	3
6	Mixer	3

--8. Sa se afiseze Numele angajatilor care au lucrat mai mult de x luni pe o functie, care data de nastere dupa un anumit an si care au un anumit sex, si un anumit oras

```

if OBJECT_ID('Vechime_Angajati','P') is not null
    drop proc Vechime_Angajati
GO

create PROC Vechime_Angajati
    @nrLuni int,
    @anNastere int,
    @mSex nvarchar(8),
    @mOras nvarchar(16)
as
BEGIN
    select A.Nume,A.Prenume,A.Oras,A.Sex,F.Denumire from Angajati A
    inner join FunctiiAngajati FA
    on A.IdAngajat=FA.IdAngajat
    inner join Functii F
    on F.IdFuncie=FA.IdFuncie
    where DATEDIFF(month,FA.DataAngajare,GETDATE())>=@nrLuni
           and year(DataNastere)>=@anNastere
           and A.Oras=@mOras
           and A.Sex=@mSex
    return

```

END

```
exec Vechime_Angajati
    @nrLuni =12,
    @anNastere =2000,
    @mSex ='Masculin',
    @mOras ='Bacau'
```

	Nume	Prenume	Oras	Sex	Denumire
1	Sandu	Dragos	Bacau	Masculin	Manager
2	Toader	Radu	Bacau	Masculin	Bucatar
3	Toader	Radu	Bacau	Masculin	Bucatar

--9. Sa se creeze o procedura care sa afiseze denumirea ingredientelor care apar in cel putin intr-un anumit numar de retete si care incep cu o anumita litera.

```
if OBJECT_ID('AparitiiIntgrediente','P') is not null
    drop proc AparitiiIntgrediente
GO
CREATE PROC AparitiiIntgrediente
    @mNrAparitii int,
    @mLitera varchar(2)
as
BEGIN
    select I.Denumire,count(*) as 'NrAparitii' from Ingrediente I
    join IngredientePreparate Ipp
    on Ipp.IdIngredient=I.IdIngredient
    where I.Denumire like @mLitera
    group by I.Denumire
    having count(*)>=@mNrAparitii
    return;
END
exec AparitiiIntgrediente
    @mNrAparitii=2,
    @mLitera='P%'
```

	Denumire	NrAparitii
1	Patrunjel	7
2	Piept de pui	6

--10. Sa se creeze o procedura care sa afiseze facturile care se afla intre doua sume de plata si care au fost emise dupa o anumita data de catre un furnizor care este dintr-un anumit oras.

```

if OBJECT_ID('Facturi_suma_furnizori','P') is not null
    drop proc Facturi_suma_furnizori
GO
CREATE PROC Facturi_suma_furnizori
    @mSuma1 int,
    @mSuma2 int,
    @mDataEmitere1 date,
    @mDataEmitere2 date,
    @mOras nvarchar(50),
    @numRows int output
as
BEGIN
    select IdFactura,Serie,Numar,DataEmitere,SumaPlata from Facturi F
    join Furnizori Fu
    on Fu.IdFurnizor=F.IdFurnizor
    where F.SumaPlata between @mSuma1 and @mSuma2
        and F.DataEmitere between @mDataEmitere1 and @mDataEmitere2
        and FU.Oras=@mOras
    set @numRows=@@ROWCOUNT
    return;
END

declare @numRowsReturned int;
exec Facturi_suma_furnizori
    @mSuma1=500,
    @mSuma2=8000,
    @mDataEmitere1='2020-02-04',
    @mDataEmitere2='2022-05-04',
    @mOras= 'Cluj-Napoca',
    @numRows=@numRowsReturned output

SELECT @numRowsReturned AS 'Number of rows returned'

```

	IdFactura	Serie	Numar	DataEmitere	SumaPlata
1	1	EE	100335	2022-04-01	1504
2	3	EE	334532	2022-04-04	2500
3	11	QK	337735	2022-01-06	6427
4	12	SR	172681	2022-01-20	2129

	Number of rows returned
1	4

Capitolul 9: Tranzactii

--1. O tranzactie care sa insereze o noua valoare in tabelul Angajati

```
select @@TRANCOUNT 'First @@TRANCOUNT value'  
BEGIN TRAN
```

```
Insert into Angajati(Nume,Prenume,DataNastere,CNP,Sex,Oras) values  
( 'Toma','Marcu','2001-02-04','5010204456987','Masculin','Simleu')
```

```
select * from Angajati where Nume='Toma'  
select @@TRANCOUNT 'Second @@Trancount value'
```

commit tran

```
select @@TRANCOUNT 'Third @@Trancount value'
```

	First @@TRANCOUNT value	
1	0	

	IdAngajat	Nume	Prenume	DataNastere	CNP	Sex	Oras
1	18	Toma	Marcu	2001-02-04	5010204456987	Masculin	Simleu

	Second @@Trancount value	
1	1	

	Third @@Trancount value	
1	0	

--2. Sa se realizeze o tranzactie care sa insereze o noua valoare in tabela Angajati, apoi sa se actualizeze orasul cu 'Borsa' sa se dea commit, iar apoi rollback pentru a nu se salva moficarile.

```
SELECT @@TRANCOUNT;
```

```
BEGIN TRAN;
```

```
SELECT @@TRANCOUNT;
```

```
SET IDENTITY_INSERT Angajati ON;
```

```
Insert into Angajati(IdAngajat,Nume,Prenume,DataNastere,CNP,Sex,Oras) values  
(1001,'Toma','Marcu','2001-02-04','5010204456987','Masculin','Simleu')
```

```
select * from Angajati where Nume='Toma'
```

```
BEGIN TRAN;
```

```
SELECT @@TRANCOUNT;
```

```
UPDATE Angajati
```

```
SET Oras= 'Borsa'
```

```
WHERE Nume = 'Toma' and Prenume='Marcu'
```

```
select * from Angajati where Nume='Toma' and Prenume='Marcu'
```

```

COMMIT
SET IDENTITY_INSERT Angajati OFF
select * from Angajati where Nume='Toma' and Prenume='Marcu'
SELECT @@TRANCOUNT;
Rollback TRAN;

```

```

select * from Angajati where Nume='Toma' and Prenume='Marcu'
SELECT @@TRANCOUNT;

```

	(No column name)							
1	0							
	(No column name)							
1	1							
	IdAngajat	Nume	Prenume	DataNastere	CNP	Sex	Oras	
1	1001	Toma	Marcu	2001-02-04	5010204456987	Masculin	Simleu	
	(No column name)							
1	2							
	IdAngajat	Nume	Prenume	DataNastere	CNP	Sex	Oras	
1	1001	Toma	Marcu	2001-02-04	5010204456987	Masculin	Borsa	
	IdAngajat	Nume	Prenume	DataNastere	CNP	Sex	Oras	
1	1001	Toma	Marcu	2001-02-04	5010204456987	Masculin	Borsa	
	(No column name)							
1	1							
	IdAngajat	Nume	Prenume	DataNastere	CNP	Sex	Oras	
	(No column name)							
1	0							

--3. Sa se creeze o tranzactie cu blocul try-catch prin care sa se insereze 2 valori din care una sa insereze un foreign key care nu exista in tabelul Mese. Sa se afiseze un mesaj corespunzator

```

begin try
    begin tran
        set identity_insert Rezervari ON

        insert into Rezervari(IdRezervare,IdMasa,NumeClient,DataRezervare) values
        (1001,4,'Ionela','2022-05-13 14:00:00')

        insert into Rezervari(IdRezervare,IdMasa,NumeClient,DataRezervare) values
        (1002,20,'Codruta','2022-05-13 17:00:00')

        set identity_insert Rezervari OFF
    commit tran;
end try

```

```

begin catch
    if ERROR_NUMBER()=2627
        begin
            print'Valoare duplicata';
        end
    else if ERROR_NUMBER()=547
        begin
            print 'Constraint violation'
        end
    else
        begin
            print 'Eroare netratata';
        end

    if @@TRANCOUNT>0 rollback tran
end catch

```

(1 row affected)

(0 rows affected)

Constraint violation

Completion time: 2022-05-13T22:14:34.5415475+03:00

--4. Sa se creeze o tranzactie care sa stearga o valoare pe baza numarului de telefon din tabela Furnizori

```

begin try
    begin tran
        select* from Furnizori
        declare @NumeFurnizor nvarchar(32)='Macelaria AGAPE'
        declare @NumarTelefon varchar(10)='0744169483'

        if @NumarTelefon !=(select NrTelefon from Furnizori where
Denumire=@NumeFurnizor)
            THROW 50001,'Numarul de telefon este gresit. Nu se poate sterge
Furnizorul',1

        ALTER TABLE FurnizoriIngrediente
        DROP CONSTRAINT FK_Furnizori_FurnizoriIngrediente
        alter table FurnizoriIngrediente with CHECK
        add Constraint FK_Furnizori_FurnizoriIngrediente foreign key(IdFurnizor)references
Furnizori(IdFurnizor)

```


on delete cascade

```
ALTER TABLE FurnizoriEchipamente  
DROP CONSTRAINT FK_Furnizori_FurnizoriEchipamente  
alter table FurnizoriEchipamente with CHECK  
add Constraint FK_Furnizori_FurnizoriEchipamente foreign key(IdFurnizor)references  
Furnizori(IdFurnizor)  
on delete cascade
```

```
alter table Facturi  
DROP CONSTRAINT FK_Furnizori_Facturi  
alter table Facturi with CHECK  
add Constraint FK_Furnizori_Facturi foreign key(IdFurnizor)references  
Furnizori(IdFurnizor)  
on delete cascade
```

```
delete from Furnizori where Denumire=@NumeFurnizor and  
NrTelefon=@NumarTelefon  
select * from Furnizori  
rollback tran  
end try  
begin catch  
if ERROR_NUMBER()=50001  
    print Error_Message()  
if @@TRANCOUNT>0 rollback tran  
end catch
```

	IdFurnizor	Denumire	Oras	NrTelefon
2	2	SC BRILL CATERING SRL	Cluj-Napoca	0758755992
3	3	ESAROM ROMANIA SRL	Sibiu	0269208031
4	4	SC VANIMAR BLUE COMPANY SRL	Constanta	0241541910
5	5	SC FORTEX COM SRL	Valcea	0214106307
6	6	SC DACTRUST SRL	Bucuresti	0758071304
7	7	Espina România Prod S.r.l	Timisoara	0722405140
8	8	Macelaria AGAPE	Suceava	0744169483
9	9	Fresh Fruits Logistics	Bucuresti	0767917258

	IdFurnizor	Denumire	Oras	NrTelefon
1	1	ALIRO MARMIR SRL	Cluj-Napoca	0264708703
2	2	SC BRILL CATERING SRL	Cluj-Napoca	0758755992
3	3	ESAROM ROMANIA SRL	Sibiu	0269208031
4	4	SC VANIMAR BLUE CO...	Constanta	0241541910
5	5	SC FORTEX COM SRL	Valcea	0214106307
6	6	SC DACTRUST SRL	Bucuresti	0758071304
7	7	Espina România Prod S.r.l	Timisoara	0722405140
8	9	Fresh Fruits Logistics	Bucuresti	0767917258

--5. Sa se creeze o tranzactie care testeaza da un nr de telefon introdus este deja existent in tabelul furnizori, al unui furnizor cu Id-ul corespunzator

```
begin try
    begin tran
        declare @NrTelefon nvarchar(10)='0767917258'
        declare @IdFurnizor int=9

        if(@NrTelefon =(select NrTelefon from Furnizori where
IdFurnizor=@IdFurnizor))
            throw 50001,'Numar de telefon deja existent',1

        update Furnizori
        set NrTelefon=@NrTelefon
        where IdFurnizor=@IdFurnizor
    commit tran
end try
begin catch
    if ERROR_NUMBER()=50001
        print Error_Message()
    if @@TRANCOUNT>0 rollback tran
end catch
```

Numar de telefon deja existent

Completion time: 2022-05-13T22:16:30.4936599+03:00

--6. Sa se creeze o tranzactie care sa sterga o valoare din tabela Facturi daca e mai veche de 60 de zile

```
select * from Facturi where DATEDIFF(day,DataEmitere,GETDATE())>=60
```

```
begin try
    begin tran
        delete from Facturi
        where DATEDIFF(day,DataEmitere,GETDATE())>=60

    commit tran
end try
begin catch
    print Error_Message()
    if @@TRANCOUNT>0 rollback tran
end catch
```

```
select * from Facturi where DATEDIFF(day,DataEmitere,GETDATE())>=60
```

	IdFactura	IdFumizor	Serie	Numar	DataEmitere	SumaPlata
1	6	6	ED	233421	2022-02-28	4532
2	9	3	HH	617383	2022-02-06	4118
3	10	3	DC	359214	2021-07-03	7387
4	11	2	QK	337735	2022-01-06	6427
5	12	2	SR	172681	2022-01-20	2129

	IdFactura	IdFumizor	Serie	Numar	DataEmitere	SumaPlata
--	-----------	-----------	-------	-------	-------------	-----------

--7. Sa se creeze o tranzactie care sa insereze o noua Factura apoi sa faca update cu o anumita suma daca aceasta este mai mica decat 6000 lei. Daca nu este mai mica de 6000 lei sa se faca throw la o eroare.

```

begin try
    begin tran
        declare @Suma int =5900;

        SET IDENTITY_INSERT Facturi ON;
        insert into Facturi(IdFactura,IdFurnizor,Serie,Numar,DataEmitere,SumaPlata)
values
    (1001,4,'ZZ',143223,'2022-05-12',4000)

        BEGIN TRAN;

        if @Suma<=6000
            throw 50003,'Suma este mai mica de 6000 lei. Nu se va face
update-ul',1

        UPDATE Facturi
        SET SumaPlata= @Suma
        WHERE IdFactura=1001

        COMMIT
        SET IDENTITY_INSERT Facturi OFF

    commit tran
end try
begin catch
    if ERROR_NUMBER()=50003
        print Error_Message()
    if @@TRANCOUNT>0 rollback tran

```

end catch

```
(1 row affected)
Suma este mai mica de 6000 lei. Nu se va face update-ul

Completion time: 2022-05-13T22:29:50.8917132+03:00
```

--8. Sa se creeze o tranzactie care sa inlocuiasca ciorba de legume din comenzi cu o alta ciorba.

```
select CC.IdComanda from ContinutComanda CC
join Prepare P
on P.IdPreparat=CC.IdPreparat
where P.Denumire='Ciorba de legume'

begin try
    begin tran
        declare @CiorbaNoua nvarchar(32)='Ciorba de urzici`

        if (select Denumire from Prepare where Denumire='Ciorba de urzici`) is null
            throw 50004, 'Ciorba nu exista in meniu!',1

        update ContinutComanda
        set IdPreparat=(select Prepare.IdPreparat from prepare where
Denumire=@CiorbaNoua)
        from ContinutComanda CC
        inner join Prepare P
        on P.IdPreparat=CC.IdPreparat
        where P.Denumire=@CiorbaNoua
    commit tran
end try
begin catch
    if ERROR_NUMBER()=50004
        print Error_Message()
    if @@TRANCOUNT>0 rollback tran
end catch
```

```
Ciorba nu exista in meniu!|
```

```
Completion time: 2022-05-13T22:30:36.8415912+03:00
```

--9. Sa se schimbe furnizorul tuturor farfuriilor cu un alt furnizor. Daca nu exista sa se afiseze o eroare.

```
begin try
    begin tran
        declare @Furnizor nvarchar(32)='SanduFarfurii SRL'

        if (select IdFurnizor from Furnizori where Denumire=@Furnizor) is null
            throw 50005,'Furnizorul nu exista!',1

        update FurnizoriEchipamente
        set IdFurnizor=(select IdFurnizor from Furnizori where Denumire=@Furnizor)
        from FurnizoriEchipamente FE
        join Echipamente E
        on E.IdEchipament=FE.IdEchipament
        where E.Denumire='Farfurii'

    commit tran
end try
begin catch
    if ERROR_NUMBER()=50005
        print Error_Message()
    if @@TRANCOUNT>0 rollback tran
end catch
```

```

Furnizorul nu exista!
```

```
Completion time: 2022-05-13T22:31:28.4447271+03:00
```

--10. Sa se creeze o tranzactie care sa sterga Cartofii si Ceafa de porc din toate Preparatele.

```
select I.Denumire,Ipp.IdPreparat from Ingrediente I
join IngredientePreparate Ipp
on ipp.IdIngredient=I.IdIngredient

begin try
    begin tran

    delete ipp from IngredientePreparate ipp
    join Ingrediente I
    on ipp.IdIngredient=i.IdIngredient
    where I.Denumire='Cartofi' or I.Denumire='Ceafa de porc'
```

```

        where I.Denumire='Cartofi' or I.Denumire= 'Ceafa de porc'

        commit

end try
begin catch
    print Error_Message()
if @@TRANCOUNT>0 rollback tran
end catch

select I.Denumire,Ipp.IdPreparat from Ingrediente I
join IngredientePreparate Ipp
on ipp.IdIngredient=I.IdIngredient

```

	Denumire	IdPreparat
1	Cartofi	4
2	Ceafa de porc	12
3	Ceafa de porc	19

	Denumire	IdPreparat
--	----------	------------

Capitolul 10: Update-uri si Delete-uri

--1. Sa se mareasca salariul angajatilor cu 10%

```
update Functii  
set Salariu=Salariu*1.10
```

```
select * from Functii
```

	IdFunctie	Denumire	Salariu
1	1	Manager	6600
2	2	Administrator	5500
3	3	Director bucatarie	5500
4	4	Bucatar	6600
5	5	Ajutor de bucatar	3850
6	6	Spalator de vase	2200
7	7	Ospatar Sef	4400
8	8	Baman	3850
9	9	Chelner	3300
10	10	Om de serviciu	2200

--2. Sa se micsoreze salariul Bucatarului si ajutorului de bucatar cu 200 de lei.

```
update Functii  
set Salariu=Salariu-200  
where Denumire='Bucatar' or Denumire='Ajutor de bucatar'
```

```
select * from Functii where Denumire='Bucatar' or Denumire='Ajutor de bucatar'
```

	IdFunctie	Denumire	Salariu
1	4	Bucatar	6400
2	5	Ajutor de bucatar	3650

--3. Sa se seteze functia cu ID-ul 3 angajatului Barbusi Darius.

```
select * from FunctiiAngajati FA  
inner join Angajati A  
on A.IdAngajat=FA.IdAngajat  
where A.Nume='Barbusi' and A.Prenume='Darius'
```

```
update FunctiiAngajati  
set FunctiiAngajati.IdFunctie=3 from FunctiiAngajati FA  
inner join Angajati A
```

```
on A.IdAngajat=FA.IdAngajat
where A.Nume='Barbusi' and A.Prenume='Darius'
```

```
select * from FunctiiAngajati FA
inner join Angajati A
on A.IdAngajat=FA.IdAngajat
where A.Nume='Barbusi' and A.Prenume='Darius'
```

	IdAngajat	IdFunctie	DataAngajare	DataDemitere	IdAngajat	Nume	Prenume	DataNastere	CNP	Sex	Oras
1	2	2	2019-06-18	NULL	2	Barbusi	Darius	2001-05-10	50110111146203	Masculin	Valcea

<											>
	IdAngajat	IdFunctie	DataAngajare	DataDemitere	IdAngajat	Nume	Prenume	DataNastere	CNP	Sex	Oras
1	2	3	2019-06-18	NULL	2	Barbusi	Darius	2001-05-10	50110111146203	Masculin	Valcea

--4. Angajatul Cioloca Paul a fost promovat in functia de Administrator.
-- Sa se reflecte aceasta schimbare si in baza de date.

```
select A.Nume,A.Prenume,F.Denumire from FunctiiAngajati FA
inner join Angajati A
on A.IdAngajat=FA.IdAngajat
join Functii F
on F.IdFunctie=FA.IdFunctie
where A.Nume='Cioloca' and A.Prenume='Paul'
```

```
update FunctiiAngajati
set FunctiiAngajati.IdFunctie=(select IdFunctie from Functii where Denumire='Director
Bucatarie')
from FunctiiAngajati FA
inner join Angajati A
on A.IdAngajat=FA.IdAngajat
where A.Nume='Cioloca' and A.Prenume='Paul'
```

```
select A.Nume,A.Prenume,F.Denumire from FunctiiAngajati FA
inner join Angajati A
on A.IdAngajat=FA.IdAngajat
join Functii F
on F.IdFunctie=FA.IdFunctie
where A.Nume='Cioloca' and A.Prenume='Paul'
```


	Nume	Prenume	Denumire
1	Ciocola	Paul	Ospatar Sef

	Nume	Prenume	Denumire
1	Ciocola	Paul	Director bucatarie

--5. Sa se inlocuiasca ciorba de burta din comenzi cu ciorba radauteana.

```
select CC.IdComanda from ContinutComanda CC
join Preparete P
on P.IdPreparat=CC.IdPreparat
where P.Denumire='Ciorba de burta'
```

```
update ContinutComanda
set IdPreparat=(select Preparete.IdPreparat from preparete where Denumire='Ciorba radauteana')
from ContinutComanda CC
inner join Preparete P
on P.IdPreparat=CC.IdPreparat
where P.Denumire='Ciorba de burta'
```

```
select CC.IdComanda from ContinutComanda CC
join Preparete P
on P.IdPreparat=CC.IdPreparat
where P.Denumire='Ciorba de burta'
```

	IdComanda
1	1

IdComanda

--6. Sa se actualizeze campul PretComanda din tabela comenzi cu nota de plata a fiecarei comenzi

```
select * from Comenzi
update Comenzi
set Comenzi.PretComanda=(
    select sum(CC.Cantitate*P.PretPreparat)
    from ContinutComanda CC
    join Preparate P
    on P.IdPreparat=CC.IdPreparat
    where Comenzi.IdComanda=CC.IdComanda
    group by CC.IdComanda)
```

	IdComanda	IdMasa	DataPlasareComanda	PretComanda	ModalitatePlata
1	1	1	2022-04-10 12:35:20.000	NULL	Cash
2	2	4	2022-04-10 14:12:00.000	NULL	Card
3	3	3	2022-04-11 09:40:19.000	NULL	Cash
4	4	6	2022-04-10 15:50:10.000	NULL	Cash
5	5	2	2022-04-12 19:49:10.000	NULL	Voucher
6	6	1	2022-04-12 21:49:10.000	NULL	Cash
7	7	4	2022-04-12 21:12:00.000	NULL	Cash
8	8	3	2022-04-13 10:22:19.000	NULL	Card
9	9	6	2022-04-13 12:20:20.000	NULL	Card
10	10	6	2022-04-13 13:40:19.000	NULL	Cash
11	11	7	2022-04-14 14:40:19.000	NULL	Card
12	12	7	2022-04-14 14:12:00.000	NULL	Card
13	13	8	2022-04-14 19:49:10.000	NULL	Voucher
14	14	4	2022-04-14 21:20:10.000	NULL	Cash

	IdComanda	IdMasa	DataPlasareComanda	PretComanda	ModalitatePlata
1	1	1	2022-04-10 12:35:20.000	199	Cash
2	2	4	2022-04-10 14:12:00.000	108	Card
3	3	3	2022-04-11 09:40:19.000	117	Cash
4	4	6	2022-04-10 15:50:10.000	224	Cash
5	5	2	2022-04-12 19:49:10.000	220	Voucher
6	6	1	2022-04-12 21:49:10.000	340	Cash
7	7	4	2022-04-12 21:12:00.000	917	Cash
8	8	3	2022-04-13 10:22:19.000	143	Card
9	9	6	2022-04-13 12:20:20.000	209	Card
10	10	6	2022-04-13 13:40:19.000	202	Cash
11	11	7	2022-04-14 14:40:19.000	212	Card
12	12	7	2022-04-14 14:12:00.000	96	Card
13	13	8	2022-04-14 19:49:10.000	51	Voucher
14	14	4	2022-04-14 21:20:10.000	144	Cash

--7. Sa se schimbe furnizorul tuturor hotelor cu 'ESAROM ROMANIA SRL'

```
select E.Denumire, F.Denumire from FurnizoriEchipamente FE
join Echipamente E
on E.IdEchipament=FE.IdEchipament
join Furnizori F
on F.IdFurnizor=FE.IdFurnizor
where E.Denumire='Hota'
```

```
update FurnizoriEchipamente
set IdFurnizor=(select IdFurnizor from Furnizori where Denumire='ESAROM ROMANIA SRL')
from FurnizoriEchipamente FE
join Echipamente E
on E.IdEchipament=FE.IdEchipament
where E.Denumire='Hota'
```

```
select E.Denumire, F.Denumire from FurnizoriEchipamente FE
join Echipamente E
on E.IdEchipament=FE.IdEchipament
join Furnizori F
on F.IdFurnizor=FE.IdFurnizor
where E.Denumire='Hota'
```

	Denumire	Denumire
1	Hota	ALIRO MARMIR SRL
2	Hota	ESAROM ROMANIA SRL
3	Hota	SC BRILL CATERING SRL

	Denumire	Denumire
1	Hota	ESAROM ROMANIA SRL
2	Hota	ESAROM ROMANIA SRL
3	Hota	ESAROM ROMANIA SRL

--8. Sa se actualizeze in tabelul Echipamente, stocul total al fiecarui echipament distribuit de furnizori

```
select * from Echipamente
```

```
update Echipamente
set Cantitate=( select sum(FE.Numar_bucati) from FurnizoriEchipamente FE
                where Echipamente.IdEchipament=FE.IdEchipament
                group by IdEchipament)
```

	IdEchipament	Denumire	Cantitate
1	1	Aragaz	NULL
2	2	Hota	NULL
3	3	Masa inox	NULL
4	4	Frigider	NULL
5	5	Lada Frigorifica	NULL
6	6	Cuptor Pizza	NULL
7	7	Malaxor	NULL
8	8	Fripteoza	NULL
9	9	Gratar grill	NULL
10	10	Cuptor cu microunde	NULL
11	11	Fierbator	NULL
12	12	Masina de curatat cartofi	NULL
13	13	Blender	NULL
14	14	Mixer	NULL
15	15	Farfurii	NULL
16	16	Bol	NULL
17	17	Furculite	NULL
18	18	Linguri	NULL
19	19	Lingurite	NULL

	IdEchipament	Denumire	Cantitate
1	1	Aragaz	4
2	2	Hota	6
3	3	Masa inox	3
4	4	Frigider	5
5	5	Lada Fri...	6
6	6	Cuptor ...	4
7	7	Malaxor	3
8	8	Fripteoza	3
9	9	Gratar grill	3
10	10	Cuptor c...	3
11	11	Fierbator	2
12	12	Masina ...	3
13	13	Blender	3
14	14	Mixer	3
15	15	Farfurii	500
16	16	Bol	500
17	17	Furculite	500
18	18	Linguri	500
19	19	Lingurite	300

--9.Sa se inlocuiasca mararul din ciorba de legume cu morcovul

```
select P.Denumire, I.Denumire from IngredientePreparate Ipp
join Preparate P
on P.IdPreparat=Ipp.IdPreparat
join Ingrediente I
on I.IdIngredient= Ipp.IdIngredient
where P.Denumire like 'Ciorba de legume'
```

```
update IngredientePreparate
set IdIngredient=(select IdIngredient from Ingrediente where Denumire='Morcov')
where IdIngredient=(select IdIngredient from Ingrediente where Denumire='Marar')
```

```
select P.Denumire, I.Denumire from IngredientePreparate Ipp
join Preparate P
on P.IdPreparat=Ipp.IdPreparat
join Ingrediente I
on I.IdIngredient= Ipp.IdIngredient
where P.Denumire like 'Ciorba de legume'
```

	Denumire	Denumire
1	Ciorba de legume	Apa
2	Ciorba de legume	Patrunjel
3	Ciorba de legume	Bors
4	Ciorba de legume	Cartofi
5	Ciorba de legume	Marar

	Denumire	Denumire
1	Ciorba de legume	Apa
2	Ciorba de legume	Patrunjel
3	Ciorba de legume	Bors
4	Ciorba de legume	Cartofi
5	Ciorba de legume	Morcov

--10. Sa se schimbe numarul de telefon al furnizorului de Aragaze din Sibiu, precum si orasul acestuia cu Brasov

```
select F.Denumire,F.NrTelefon,F.Oras from Furnizori F
join FurnizoriEchipamente FE
on F.IdFurnizor=FE.IdFurnizor
join Echipamente E
on FE.IdEchipament=E.IdEchipament
where E.Denumire='Aragaz'
```

```

update Furnizori
set NrTelefon='0234281332',Oras='Brasov'
from Furnizori F
join FurnizoriEchipamente FE
on F.IdFurnizor=FE.IdFurnizor
join Echipamente E
on FE.IdEchipament=E.IdEchipament
where E.Denumire='Aragaz' and F.Oras='Sibiu'

```

```

select F.Denumire,F.NrTelefon,F.Oras from Furnizori F
join FurnizoriEchipamente FE
on F.IdFurnizor=FE.IdFurnizor
join Echipamente E
on FE.IdEchipament=E.IdEchipament
where E.Denumire='Aragaz'

```

	Denumire	NrTelefon	Oras
1	ALIRO MARMIR SRL	0264708703	Cluj-Napoca
2	ESAROM ROMANIA SRL	0269208031	Sibiu

	Denumire	NrTelefon	Oras
1	ALIRO MARMIR SRL	0264708703	Cluj-Napoca
2	ESAROM ROMANIA SRL	0234280567	Brasov

--11. Sa se creasca capacitatea meselor care apar in tabelul cu rezervari
--cu 2 locuri

```

select* from Mese

```

```

update Mese
set Capacitate+=2
from Mese M
join (select distinct IdMasa from Rezervari) R
on R.IdMasa=M.IdMasa

```

```

select* from Mese

```

	IdMasa	Capacitate	Status
1	1	2	Libera
2	2	4	Ocupata
3	3	2	Rezervata
4	4	10	Libera
5	5	8	Rezervata
6	6	4	Ocupata
7	7	12	Libera
8	8	16	Rezervata
9	9	2	Libera
10	10	2	Ocupata
11	11	4	Libera
12	12	4	Rezervata
13	13	4	Ocupata

	IdMasa	Capacitate	Status
1	1	4	Libera
2	2	6	Ocupata
3	3	4	Rezer...
4	4	10	Libera
5	5	10	Rezer...
6	6	6	Ocupata
7	7	14	Libera
8	8	16	Rezer...
9	9	2	Libera
10	10	2	Ocupata
11	11	4	Libera
12	12	4	Rezer...
13	13	4	Ocupata

--12. Sa se modifice modalitatea de plata cu 'Din partea casei' a comenzilor

--care au mai putin de 3 preparate

select * from Comenzi

update Comenzi

set ModalitatePlata='Din partea casei'

from Comenzi C

join (select CC.IdComanda, count(CC.IdPreparat) as 'NrComenzi'

from ContinutComanda CC

group by CC.IdComanda

having count(CC.IdPreparat)<=3) as CC

on C.IdComanda=CC.IdComanda

select * from Comenzi

	IdComanda	IdMasa	DataPlasareComanda	PretComanda	ModalitatePlata
1	1	1	2022-04-10 12:35:20.000	199	Cash
2	2	4	2022-04-10 14:12:00.000	108	Card
3	3	3	2022-04-11 09:40:19.000	117	Cash
4	4	6	2022-04-10 15:50:10.000	224	Cash
5	5	2	2022-04-12 19:49:10.000	220	Voucher
6	6	1	2022-04-12 21:49:10.000	340	Cash
7	7	4	2022-04-12 21:12:00.000	917	Cash
8	8	3	2022-04-13 10:22:19.000	143	Card
9	9	6	2022-04-13 12:20:20.000	209	Card
10	10	6	2022-04-13 13:40:19.000	202	Cash
11	11	7	2022-04-14 14:40:19.000	212	Card
12	12	7	2022-04-14 14:12:00.000	96	Card
13	13	8	2022-04-14 19:49:10.000	51	Voucher
14	14	4	2022-04-14 21:20:10.000	144	Cash

	IdComanda	IdMasa	DataPlasareComanda	PretComanda	ModalitatePlata
1	1	1	2022-04-10 12:35:20.000	199	Cash
2	2	4	2022-04-10 14:12:00.000	108	Card
3	3	3	2022-04-11 09:40:19.000	117	Din partea casei
4	4	6	2022-04-10 15:50:10.000	224	Cash
5	5	2	2022-04-12 19:49:10.000	220	Voucher
6	6	1	2022-04-12 21:49:10.000	340	Cash
7	7	4	2022-04-12 21:12:00.000	917	Din partea casei
8	8	3	2022-04-13 10:22:19.000	143	Din partea casei
9	9	6	2022-04-13 12:20:20.000	209	Card
10	10	6	2022-04-13 13:40:19.000	202	Cash
11	11	7	2022-04-14 14:40:19.000	212	Card
12	12	7	2022-04-14 14:12:00.000	96	Card
13	13	8	2022-04-14 19:49:10.000	51	Din partea casei
14	14	4	2022-04-14 21:20:10.000	144	Din partea casei

--13. Sa se demita din cea mai veche functie angajatii care au 2 functii.

```
select FA.IdAngajat,count (*) as 'NrFuncții' from FunctiiAngajati FA
      join Functii F
      on F.IdFuncție=FA.IdFuncție
      where FA.DataDemitere is null
      group by FA.IdAngajat
      having count(*)>1
```

```
update FunctiiAngajati
set DataDemitere=GETDATE()
from FunctiiAngajati FA
```



```

join ( select FA.IdAngajat,count (*) as 'NrFunctii' from FunctiiAngajati FA
      join Functii F
      on F.IdFunctie=FA.IdFunctie
      where FA.DataDemitere is null
      group by FA.IdAngajat
      having count(*)>1) as CTE
on FA.IdAngajat=CTE.IdAngajat
where FA.DataDemitere is null
select FA.IdAngajat,count (*) as 'NrFunctii' from FunctiiAngajati FA
      join Functii F
      on F.IdFunctie=FA.IdFunctie
      where FA.DataDemitere is null
      group by FA.IdAngajat
      having count(*)>1

```

	IdAngajat	NrFunctii
1	3	2
2	8	2

	IdAngajat	NrFunctii
--	-----------	-----------

--14. Sa se actualizeze seria facturilor care au furnizor din orase care incep cu litera 'B', si sa se acorde un discount de 10%

```

select Fac.IdFactura,F.Denumire,Fac.Numar,Fac.SumaPlata
from Facturi Fac
inner join Furnizori F
on Fac.IdFurnizor=F.IdFurnizor
where F.Oras like 'B%'

```

```

update Facturi
set Serie='BB',SumaPlata=SumaPlata*0.9
from Facturi Fac
inner join Furnizori F
on Fac.IdFurnizor=F.IdFurnizor
where F.Oras like 'B%'

```

```

select Fac.IdFactura,F.Denumire,Fac.Numar,Fac.SumaPlata
from Facturi Fac
inner join Furnizori F
on Fac.IdFurnizor=F.IdFurnizor
where F.Oras like 'B%'

```

	IdFactura	Denumire	Numar	SumaPlata
1	4	ESAROM ROMANIA SRL	321333	569
2	7	SC DACTRUST SRL	717433	7833
3	15	Fresh Fruits Logistics	433532	5509

	IdFactura	Denumire	Numar	SumaPlata
1	4	ESAROM ROMANIA SRL	321333	512.1
2	7	SC DACTRUST SRL	717433	7049.7
3	15	Fresh Fruits Logistics	433532	4958.1

--15. Sa se mareasca cantitatea de ingrediente livrata de furnizorul
--'Macelaria AGAPE' cu 10%, sa se mareasca pretul/perUnitate cu 7%

```
select * from FurnizoriIngrediente FI
join Furnizori F
on FI.IdFurnizor=F.IdFurnizor
where F.Denumire='Macelaria AGAPE'
```

```
update FurnizoriIngrediente
set PretUnitate=PretUnitate*1.07,Catitate*=1.1
from FurnizoriIngrediente FI
join Furnizori F
on FI.IdFurnizor=F.IdFurnizor
where F.Denumire='Macelaria AGAPE'
```

```
select * from FurnizoriIngrediente FI
join Furnizori F
on FI.IdFurnizor=F.IdFurnizor
where F.Denumire='Macelaria AGAPE'
```

	IdIngredient	IdFumizor	Catitate	PretUnitate	IdFumizor	Denumire	Oras	NrTelefon
1	8	8	10	40	8	Macelaria AGAPE	Suceava	0744169483
2	9	8	10	60	8	Macelaria AGAPE	Suceava	0744169483
3	10	8	10	50	8	Macelaria AGAPE	Suceava	0744169483
4	11	8	10	55	8	Macelaria AGAPE	Suceava	0744169483
5	12	8	80	15	8	Macelaria AGAPE	Suceava	0744169483
6	22	8	20	50	8	Macelaria AGAPE	Suceava	0744169483

	IdIngredient	IdFumizor	Catitate	PretUnitate	IdFumizor	Denumire	Oras	NrTelefon
1	8	8	11	42.8	8	Macelaria AGAPE	Suceava	0744169483
2	9	8	11	64.2	8	Macelaria AGAPE	Suceava	0744169483
3	10	8	11	53.5	8	Macelaria AGAPE	Suceava	0744169483
4	11	8	11	58.85	8	Macelaria AGAPE	Suceava	0744169483
5	12	8	88	16.05	8	Macelaria AGAPE	Suceava	0744169483
6	22	8	22	53.5	8	Macelaria AGAPE	Suceava	0744169483

DELETE-uri:

--1. Sa se stearga toti furnizorii din Bucuresti

```
select * from Furnizori
```

```
ALTER TABLE FurnizoriIngrediente
```

```
DROP CONSTRAINT FK_Furnizori_FurnizoriIngrediente
```

```
alter table FurnizoriIngrediente with CHECK
```

```
add Constraint FK_Furnizori_FurnizoriIngrediente foreign key(IdFurnizor)references
```

```
Furnizori(IdFurnizor)
```

```
on delete cascade
```

```
ALTER TABLE FurnizoriEchipamente
```

```
DROP CONSTRAINT FK_Furnizori_FurnizoriEchipamente
```

```
alter table FurnizoriEchipamente with CHECK
```

```
add Constraint FK_Furnizori_FurnizoriEchipamente foreign key(IdFurnizor)references
```

```
Furnizori(IdFurnizor)
```

```
on delete cascade
```

```
alter table Facturi
```

```
DROP CONSTRAINT FK_Furnizori_Facturi
```

```
alter table Facturi with CHECK
```

```
add Constraint FK_Furnizori_Facturi foreign key(IdFurnizor)references
```

```
Furnizori(IdFurnizor)
```

```
on delete cascade
```

```
delete from Furnizori
```

```
where Oras='Bucuresti'
```

```
select * from Furnizori
```

	IdFurnizor	Denumire	Oras	NrTelefon
2	2	SC BRILL CATERING SRL	Cluj-Napoca	0758755992
3	3	ESAROM ROMANIA SRL	Brasov	0234280567
4	4	SC VANIMAR BLUE COMPANY SRL	Constanta	0241541910
5	5	SC FORTEX COM SRL	Valcea	0214106307
6	6	SC DACTRUST SRL	Bucuresti	0758071304
7	7	Espina România Prod S.r.l	Timisoara	0722405140
8	8	Macelaria AGAPE	Suceava	0744169483
9	9	Fresh Fruits Logistics	Bucuresti	0767917258

	IdFurnizor	Denumire	Oras	NrTelefon
1	1	ALIRO MARMIR SRL	Cluj-Napoca	0264708703
2	2	SC BRILL CATERING SRL	Cluj-Napoca	0758755992
3	3	ESAROM ROMANIA SRL	Brasov	0234280567
4	4	SC VANIMAR BLUE CO...	Constanta	0241541910
5	5	SC FORTEX COM SRL	Valcea	0214106307
6	7	Espina România Prod S.r.l	Timisoara	0722405140
7	8	Macelaria AGAPE	Suceava	0744169483

--2. Sa se stearga toate rezervarile care au id impar si au data rezervarii
--intre 2022-05-01 si 2022-06-01

```
select * from Rezervari
```

```
delete from Rezervari  
where IdRezervare%2=1 and DataRezervare between '2022-05-01' and '2022-06-01'
```

```
select * from Rezervari
```

	IdRezervare	IdMasa	NumeClient	DataRezervare
1	1	1	Popescu	2022-04-09 15:00:00.000
2	2	5	Jipianu	2022-04-10 17:00:00.000
3	3	2	Ghita	2022-04-10 19:00:00.000
4	4	3	Iulia	2022-04-11 20:00:00.000
5	5	2	Paul	2022-04-11 21:00:00.000
6	6	5	Darius	2022-04-11 12:30:00.000
7	7	5	Radu	2022-05-12 13:30:00.000
8	8	6	Istrate	2022-05-12 20:00:00.000
9	9	7	Elena	2022-05-13 19:30:00.000
10	10	7	Sebi	2022-05-14 14:00:00.000

	IdRezervare	IdMasa	NumeClient	DataRezervare
1	1	1	Popescu	2022-04-09 15:00:00.000
2	2	5	Jipianu	2022-04-10 17:00:00.000
3	3	2	Ghita	2022-04-10 19:00:00.000
4	4	3	Iulia	2022-04-11 20:00:00.000
5	5	2	Paul	2022-04-11 21:00:00.000
6	6	5	Darius	2022-04-11 12:30:00.000
7	8	6	Istrate	2022-05-12 20:00:00.000
8	10	7	Sebi	2022-05-14 14:00:00.000

--3. sa se stearga cea mai Scumpa factura

```
select * from Facturi  
delete top(1) from Facturi  
where SumaPlata=(select top(1) SumaPlata from Facturi order by SumaPlata desc)  
select * from Facturi
```

	IdFactura	IdFurnizor	Serie	Numar	DataEmitere	SumaPlata
1	1	1	EE	100335	2022-04-01	1504
2	2	7	AA	233555	2022-04-02	5069
3	3	2	EE	334532	2022-04-04	2500
4	4	3	BB	321333	2022-03-25	512.1
5	5	5	EA	456654	2022-03-30	4532
6	7	6	BB	717433	2022-05-06	7049.7
7	8	8	KW	16768	2022-09-16	3017
8	13	8	BH	53505	2022-06-10	5972
9	14	8	RT	574955	2022-10-22	3499
10	15	9	BB	433532	2022-11-09	4958.1
11	16	5	GJ	855044	2022-08-28	2886

	IdFactura	IdFurnizor	Serie	Numar	DataEmitere	SumaPlata
1	1	1	EE	100335	2022-04-01	1504
2	2	7	AA	233555	2022-04-02	5069
3	3	2	EE	334532	2022-04-04	2500
4	4	3	BB	321333	2022-03-25	512.1
5	5	5	EA	456654	2022-03-30	4532
6	8	8	KW	16768	2022-09-16	3017
7	13	8	BH	53505	2022-06-10	5972
8	14	8	RT	574955	2022-10-22	3499
9	15	9	BB	433532	2022-11-09	4958.1
10	16	5	GJ	855044	2022-08-28	2886

--4. Sa se stearga Factura care are furnizori din orasul Bucuresti

```
select F.IdFactura,F.Numar,F.SumaPlata, Fur.Oras from Facturi F
join Furnizori Fur
on Fur.IdFurnizor=F.IdFurnizor
```

```
delete F from Facturi F
join Furnizori Fur
on F.IdFurnizor=Fur.IdFurnizor
where Fur.Oras='Bucuresti'
```

```
select F.IdFactura,F.Numar,F.SumaPlata, Fur.Oras from Facturi F
join Furnizori Fur
on Fur.IdFurnizor=F.IdFurnizor
```

	IdFactura	Numar	SumaPlata	Oras
1	1	100335	1504	Cluj-Napoca
2	2	233555	5069	Timisoara
3	3	334532	2500	Cluj-Napoca
4	4	321333	512.1	Brasov
5	5	456654	4532	Valcea
6	7	717433	7049.7	Bucuresti
7	8	16768	3017	Suceava
8	13	53505	5972	Suceava
9	14	574955	3499	Suceava
10	15	433532	4958.1	Bucuresti
11	16	855044	2886	Valcea

	IdFactura	Numar	SumaPlata	Oras
1	1	100335	1504	Cluj-Napoca
2	2	233555	5069	Timisoara
3	3	334532	2500	Cluj-Napoca
4	4	321333	512.1	Brasov
5	5	456654	4532	Valcea
6	8	16768	3017	Suceava
7	13	53505	5972	Suceava
8	14	574955	3499	Suceava
9	16	855044	2886	Valcea

--5. Sa se stearga Patrunjelul din toate Preparatele care il contin.

```
select I.Denumire,Ipp.IdPreparat from Ingrediente I
join IngredientePreparate Ipp
on ipp.IdIngredient=I.IdIngredient
where I.Denumire='Patrunjel'
```

```
delete ipp from IngredientePreparate ipp
join Ingrediente I
on ipp.IdIngredient=i.IdIngredient
where I.Denumire='Patrunjel'
```

```
select I.Denumire,Ipp.IdPreparat from Ingrediente I
join IngredientePreparate Ipp
on ipp.IdIngredient=I.IdIngredient
where I.Denumire='Patrunjel'
```

	Denumire	IdPreparat
1	Patrunjel	1
2	Patrunjel	2
3	Patrunjel	3
4	Patrunjel	4
5	Patrunjel	5
6	Patrunjel	6
7	Patrunjel	7

Denumire	IdPreparat
----------	------------

--6. Sa se stearga Ciorbele din toate comenzile

```
select p.Denumire,CC.IdComanda from Preparate P
join ContinutComanda CC
on CC.IdPreparat=P.IdPreparat
where P.Denumire like 'Ciorba%'
```

```
delete CC from ContinutComanda CC
join Preparate P
on CC.IdPreparat=P.IdPreparat
where P.Denumire like 'Ciorba%'
select p.Denumire,CC.IdComanda from Preparate P
join ContinutComanda CC
on CC.IdPreparat=P.IdPreparat
where P.Denumire like 'Ciorba%'
```

	Denumire	IdComanda
2	Ciorba radauteana	1
3	Ciorba radauteana	2
4	Ciorba de afumatura	4
5	Ciorba de legume	6
6	Ciorba radauteana	7
7	Ciorba de afumatura	8
8	Ciorba radauteana	9
9	Ciorba de legume	9
10	Ciorba de perisoare	10
11	Ciorba de fasole	10
12	Ciorba radauteana	11
13	Ciorba de legume	14

Denumire	IdComanda
----------	-----------

--7. Sa se stearga Furnizorii de aragaze

```
select E.Denumire,FE.IdFurnizor from Echipamente E
join FurnizoriEchipamente FE
on E.IdEchipament= FE.IdEchipament
where E.Denumire='Aragaz'
```

```
delete FE from FurnizoriEchipamente FE
join Echipamente E
on FE.IdEchipament=E.IdEchipament
where E.Denumire='Aragaz'
```

```
select E.Denumire,FE.IdFurnizor from Echipamente E
join FurnizoriEchipamente FE
on E.IdEchipament= FE.IdEchipament
where E.Denumire='Aragaz'
```

	Denumire	IdFurnizor
1	Aragaz	1
2	Aragaz	3

Denumire	IdFurnizor
----------	------------

--8. Sa se stearga Pieptul de pui din platoul Ciobanului

```
select P.Denumire,I.Denumire from IngredientePreparate ipp
join Ingrediente I
on ipp.IdIngredient=i.IdIngredient
join Preparate P
on P.IdPreparat=ipp.IdPreparat
where P.Denumire='Platoul Ciobanului' and I.Denumire='Piept de pui'
```

```
delete ipp from IngredientePreparate ipp
join Ingrediente I
on ipp.IdIngredient=i.IdIngredient
join Preparate P
on P.IdPreparat=ipp.IdPreparat
where P.Denumire='Platoul Ciobanului' and I.Denumire='Piept de pui'
```



```

select P.Denumire,I.Denumire from IngredientePreparate ipp
join Ingrediente I
on ipp.IdIngredient=i.IdIngredient
join Preparate P
on P.IdPreparat=ipp.IdPreparat
where P.Denumire='Platoul Ciobanului' and I.Denumire='Piept de pui'

```

	Denumire	Denumire
1	Platoul Ciobanului	Piept de pui

Denumire	Denumire
----------	----------

--9. Sa se stearga preparatele peste 15 de lei care contin Ceafa de porc

```

select p.Denumire,I.Denumire, P.IdPreparat from Preparate P
inner join IngredientePreparate Ipp
on Ipp.IdPreparat=P.IdPreparat
inner join Ingrediente I
on I.IdIngredient=Ipp.IdIngredient
where P.PretPreparat>=15 and I.Denumire='Ceafa de porc'

```

```

ALTER TABLE ContinutComanda
DROP CONSTRAINT FK_IdPreparat_ContinutComanda
alter table ContinutComanda with CHECK
add Constraint FK_IdPreparat_ContinutComanda foreign key(IdPreparat)references
Preparate(IdPreparat)
on delete cascade

```

```

ALTER TABLE IngredientePreparate
DROP CONSTRAINT FK_IdPreparat_IngredientePreparate
alter table IngredientePreparate with CHECK
add Constraint FK_IdPreparat_IngredientePreparate foreign key(IdPreparat)references
Preparate(IdPreparat)
on delete cascade

```

```

delete P from Preparate P
inner join IngredientePreparate Ipp
on Ipp.IdPreparat=P.IdPreparat
inner join Ingrediente I
on I.IdIngredient=Ipp.IdIngredient

```

where P.PretPreparat>=15 and I.Denumire='Ceafa de porc'

```
select p.Denumire,I.Denumire, P.IdPreparat from Prepare P
inner join IngredientePreparate Ipp
on Ipp.IdPreparat=P.IdPreparat
inner join Ingrediente I
on I.IdIngredient=Ipp.IdIngredient
where P.PretPreparat>=15 and I.Denumire='Ceafa de porc'
```

	Denumire	Denumire	IdPreparat
1	Ceafa la gratar	Ceafa de porc	12
2	Platoul Ciobanului	Ceafa de porc	19

Denumire	Denumire	IdPreparat
----------	----------	------------

--10. Sa se stearga Furnizorul de Burta de vita

```
select F.Denumire,F.NrTelefon,F.Oras from Furnizori F
inner join FurnizoriIngrediente FI
on F.IdFurnizor=FI.IdFurnizor
inner join Ingrediente I
on I.IdIngredient=FI.IdIngredient
where I.Denumire='Burta de Vita'
```

```
ALTER TABLE FurnizoriIngrediente
DROP CONSTRAINT FK_Furnizori_FurnizoriIngrediente
alter table FurnizoriIngrediente with CHECK
add Constraint FK_Furnizori_FurnizoriIngrediente foreign key(IdFurnizor)references
Furnizori(IdFurnizor)
on delete cascade
```

```
ALTER TABLE FurnizoriEchipamente
DROP CONSTRAINT FK_Furnizori_FurnizoriEchipamente
alter table FurnizoriEchipamente with CHECK
add Constraint FK_Furnizori_FurnizoriEchipamente foreign key(IdFurnizor)references
Furnizori(IdFurnizor)
on delete cascade
```

```
alter table Facturi
```

```

DROP CONSTRAINT FK_Furnizori_Facturi
alter table Facturi with CHECK
add Constraint FK_Furnizori_Facturi foreign key(IdFurnizor)references
Furnizori(IdFurnizor)
on delete cascade

```

```

delete F from Furnizori F
inner join FurnizoriIngrediente FI
on F.IdFurnizor=FI.IdFurnizor
inner join Ingrediente I
on I.IdIngredient=FI.IdIngredient
where I.Denumire='Burta de Vita'

```

```

select F.Denumire,F.NrTelefon,F.Oras from Furnizori F
inner join FurnizoriIngrediente FI
on F.IdFurnizor=FI.IdFurnizor
inner join Ingrediente I
on I.IdIngredient=FI.IdIngredient
where I.Denumire='Burta de Vita'

```

	Denumire	NrTelefon	Oras
1	Espina România Prod S.r.l	0722405140	Timisoara

Denumire	NrTelefon	Oras
----------	-----------	------

--11. Sa se sterga comenzile toate comenzile mai vechi de o luna

```

select * from Comenzi

alter table ContinutComanda
DROP CONSTRAINT FK_IdComanda_ContinutComanda
alter table ContinutComanda with CHECK
add Constraint FK_IdComanda_ContinutComanda foreign key(IdComanda)references
Comenzi(IdComanda)
on delete cascade

delete from Comenzi
where DATEDIFF(DAY,DataPlasareComanda,'2022-05-13')>=31

```

`select * from Comenzi`

	IdComanda	IdMasa	DataPlasareComanda	PretComanda	ModalitatePlata
1	1	1	2022-04-10 12:35:20.000	199	Cash
2	2	4	2022-04-10 14:12:00.000	108	Card
3	3	3	2022-04-11 09:40:19.000	117	Din partea casei
4	4	6	2022-04-10 15:50:10.000	224	Cash
5	5	2	2022-04-12 19:49:10.000	220	Voucher
6	6	1	2022-04-12 21:49:10.000	340	Cash
7	7	4	2022-04-12 21:12:00.000	917	Din partea casei
8	8	3	2022-04-13 10:22:19.000	143	Din partea casei
9	9	6	2022-04-13 12:20:20.000	209	Card
10	10	6	2022-04-13 13:40:19.000	202	Cash
11	11	7	2022-04-14 14:40:19.000	212	Card
12	12	7	2022-04-14 14:12:00.000	96	Card
13	13	8	2022-04-14 19:49:10.000	51	Din partea casei
14	14	4	2022-04-14 21:20:10.000	144	Din partea casei

	IdComanda	IdMasa	DataPlasareComanda	PretComanda	ModalitatePlata
1	8	3	2022-04-13 10:22:19.000	143	Din partea casei
2	9	6	2022-04-13 12:20:20.000	209	Card
3	10	6	2022-04-13 13:40:19.000	202	Cash
4	11	7	2022-04-14 14:40:19.000	212	Card
5	12	7	2022-04-14 14:12:00.000	96	Card
6	13	8	2022-04-14 19:49:10.000	51	Din partea casei
7	14	4	2022-04-14 21:20:10.000	144	Din partea casei

--12. Sa se stearga angajatii care ai mai mult de 2 ani pe o functie,
 --care s-au nascut intr o luna impara si sunt de sex feminin

```
select A.Nume,A.Prenume,A.DataNastere,A.Sex,F.Denumire from Angajati A
inner join FunctiiAngajati FA
on A.IdAngajat=FA.IdAngajat
inner join Functii F
on F.IdFuncție=FA.IdFuncție
where DATEDIFF(month,FA.DataAngajare,'2022-05-13')>=24
and day(A.DataNastere)%2=1
and sex='Feminin'
```

```
alter table FunctiiAngajati
DROP CONSTRAINT FK_IdAngajat_FunctiiAngajati
alter table FunctiiAngajati with CHECK
add Constraint FK_IdAngajat_FunctiiAngajati foreign key(IdAngajat)references
Angajati(IdAngajat)
```

on delete cascade

```
delete A from Angajati A
inner join FunctiiAngajati FA
on A.IdAngajat=FA.IdAngajat
inner join Functii F
on F.IdFuncție=FA.IdFuncție
where DATEDIFF(month,FA.DataAngajare,'2022-05-13')>=24
and day(A.DataNastere)%2=1
and sex='Feminin'
```

```
select A.Nume,A.Prenume,A.DataNastere,A.Sex,F.Denumire from Angajati A
inner join FunctiiAngajati FA
on A.IdAngajat=FA.IdAngajat
inner join Functii F
on F.IdFuncție=FA.IdFuncție
where DATEDIFF(month,FA.DataAngajare,'2022-05-13')>=24
and day(A.DataNastere)%2=1
and sex='Feminin'
```

	Nume	Prenume	DataNastere	Sex	Denumire
1	Toader	Andreea	1998-12-05	Feminin	Chelner
2	Toader	Andreea	1998-12-05	Feminin	Ospatar Sef
3	Cioloa	Ioan	1970-08-21	Feminin	Baman
4	Ursachi	Violeta	1976-09-25	Feminin	Om de serviciu

Nume	Prenume	DataNastere	Sex	Denumire
------	---------	-------------	-----	----------

--13. Sa se stearga mesele care au un Id-ul par, care au capacitate mai mare de 8

```
select* from Mese
where IdMasa%2=0 and Capacitate>=8
```

```
alter table Rezervari
DROP CONSTRAINT FK_IdMasa_Rezervari
alter table Rezervari with CHECK
add Constraint FK_IdMasa_Rezervari foreign key(IdMasa)references Mese(IdMasa)
on delete cascade
```

```
alter table Comenzi
DROP CONSTRAINT FK_IdMasa_Comenzi
```

```
alter table Comenzi with CHECK
add Constraint FK_IdMasa_Comenzi foreign key(IdMasa)references Mese(IdMasa)
on delete cascade
```

```
alter table ContinutComanda
DROP CONSTRAINT FK_IdComanda_ContinutComanda
alter table ContinutComanda with CHECK
add Constraint FK_IdComanda_ContinutComanda foreign key(IdComanda)references
Comenzi(IdComanda)
on delete cascade
```

```
delete from Mese
where IdMasa%2=0 and Capacitate>=8
```

```
select* from Mese
where IdMasa%2=0 and Capacitate>=8
```

	IdMasa	Capacitate	Status
1	4	10	Libera
2	8	16	Rezervata

	IdMasa	Capacitate	Status
--	--------	------------	--------

--14. Sa se stearga functiile care au salariu mai mic de 3000 de lei

```
select * from Functii
where Salariu<=3000
```

```
alter table FunctiiAngajati
DROP CONSTRAINT FK_IdFunctionie_FunctiiAngajati
alter table FunctiiAngajati with CHECK
add Constraint FK_IdFunctionie_FunctiiAngajati foreign key(IdFunctionie)references
Functii(IdFunctionie)
on delete cascade
```

```
delete from Functii
where Salariu<=3000
```

```
select * from Functii
where Salariu<=3000
```

	IdFunctie	Denumire	Salariu
1	6	Spalator de vase	2200
2	10	Om de serviciu	2200

--15. Sa se stearga ingredientele care apar in cel putin 4 retete.

```
select Denumire from Ingrediente I
where exists(
select Ipp.IdIngredient,count(*) as NumarAparitiiIngredient
from IngredientePreparate Ipp
where I.IdIngredient=Ipp.IdIngredient
group by Ipp.IdIngredient
having count(*)>=4
)
```

```
alter table IngredientePreparate
DROP CONSTRAINT FK_IdIngredient_IngredientePreparate
alter table IngredientePreparate with CHECK
add Constraint FK_IdIngredient_IngredientePreparate foreign key(IdIngredient)
references Ingrediente(IdIngredient)
on delete cascade
```

```
alter table FurnizoriIngrediente
DROP CONSTRAINT FK_Ingredient_FurnizoriIngrediente
alter table FurnizoriIngrediente with CHECK
add Constraint FK_Ingredient_FurnizoriIngrediente foreign key(IdIngredient) references
Ingrediente(IdIngredient)
on delete cascade
```

```
delete I from Ingrediente I
where exists(
select Ipp.IdIngredient,count(*) as NumarAparitiiIngredient
from IngredientePreparate Ipp
where I.IdIngredient=Ipp.IdIngredient
group by Ipp.IdIngredient
having count(*)>=4
)
```

```

select Denumire from Ingrediente I
where exists(
select Ipp.IdIngredient,count(*) as NumarAparitiiIngredient
from IngredientePreparate Ipp
where I.IdIngredient=Ipp.IdIngredient
group by Ipp.IdIngredient
having count(*)>=4
)

```

	Denumire
1	Patrunjel
2	Piept de pui
3	Smantana
4	Apa

Denumire
