

Service Auto "TomService"

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1. Motivatia alegerii proiectului

Putem afirma ca cel putin o data in viata fiecare sofer a avut parte de un moment in care autovehiculul propriu a incetat sa mai functioneze la parametrii optimi.

Iar odata ce comoditatea, in ceea ce consta deplasarea dintr-un punct A pana in alt punct B, iti este sistata, putem spune ca timpul castigat in urma deplasarilor rapide este din nou pierdut, iar lipsa timpului util devine inca un factor de stres.

Decizia mea in ceea ce priveste alegerea proiectului, consta strict in faptul ca deplasarea fara un mijloc de transport propriu a devenit din ce in ce mai grea in ultimii ani.

Service-ul nostru auto "TomService" isi propune sa vina in ajutorul clientilor prin intermediul unei game largi de servicii printre care se numara: programul de functionare non-stop, transparenta totala in relatia cu clientii (acestia au posibilitatea de a viziona derularea reparatiilor in orice moment si de a fi informati si consiliati cu privire la deciziile ce trebuie luate pe parcursul reparatiilor), calitatea superioara a pieselor auto, o echipa de profesionisti pregatiti in acest domeniu, promptitudinea, preturi avantajoase, programarea rapida prin apelarea la numarul nostru, extinderea in mai multe orase din tara.

2. Crearea bazei de date si a tabelelor

1. Creati baza de date cu un nume corespunzator.

```
create database TomServ
ON PRIMARY
Name = TomServiceData1.
Filename = 'D:\Proiect_BD_Dumitru_Andreea_Ioana_C112B\TomService.mdf',
size = 10MB.
maxsize = 50MB.
filegrowth = 10MB
),
Name = TomServiceData2.
Filename = 'D:\Proiect_BD_Dumitru_Andreea_Ioana_C112B\TomService.ndf',
size = 10MB.
maxsize = 50MB
filegrowth = 10MB
LOG ON
Name = TomServiceLog1,
Filename = 'D:\Proiect_BD_Dumitru_Andreea_Ioana_C112B\TomService.ldf',
size = 10MB.
maxsize = 50MB.
filegrowth = 10MB
 Baza de date a fost creata cu success si o putem vedea in Object
Explorer la Databases, alaturi de baza Northwind si celelalte baze create
de mine pentru laborator.

☐ ■ Databases

    ⊕ Grupa

                                                4

    ⊞ test1

☐ ■ TomService
```

Crearea tabelelor:

2. Creati tabelul SERVICE

```
CREATE TABLE Service
IdService INT not null PRIMARY KEY,
 Adresa nvarchar(64) not null,
NrTelefon nvarchar(11) not null,
Oras nvarchar(16) not null,
Program nvarchar(16) not null
  3.Creati tabelul ANGAJATI
 CREATE TABLE Angajati
idAngajat int not null PRIMARY KEY,
idService int not null FOREIGN KEY REFERENCES Service(IdService),
Nume nvarchar(16) not null,
Prenume nvarchar(16) not null,
 Adresa nvarchar(64),
Oras nvarchar(32),
DataNastere date not null,
NrTelefon nvarchar(16) not null
 4.Creati tabelul FUNCTII
CREATE TABLE Functii
idFunctie int not null PRIMARY KEY,
Denumire nvarchar(64) not null,
```

5. Creati tabelul FUNTII ANGAJATI

```
CREATE TABLE FunctiiAngajati

(
idFunctieAngajat int not null PRIMARY KEY,
idAngajat int not null FOREIGN KEY REFERENCES Angajati(idAngajat),
idFunctie int not null FOREIGN KEY REFERENCES Functii(idFunctie),
DataAngajare date not null,
DataPlecare date,
Sefi int
)
```

6. Creati tabelul PROPRIETAR

```
create table Proprietar
(
idProprietar int not null PRIMARY KEY,
Nume nvarchar(32) not null,
Prenume nvarchar(32) not null,
Adresa nvarchar(64),
Oras nvarchar(32) not null,
NrTelefon nvarchar(11) not null,
Email nvarchar(32)
```

7. Creati tabelul AUTOVEHICUL

create table Autovehicul (idAutovehicul int not null PRIMARY KEY, Categorie nvarchar(16) not null, Model nvarchar(32) not null, Culoare nvarchar(16), Carburant nvarchar(16) not null, NrKm nvarchar(16) not null, PutereMotor int not null, SerieSasiu nvarchar(32) not null

8. Creati tabelul AUTOVEHICULE PROPRIETAR

```
CREATE TABLE AutovehiculeProprietar
 idProprietate int not null PRIMARY KEY,
 idProprietar int not null FOREIGN KEY REFERENCES Proprietar(idProprietar),
 idAutovehicul int not null FOREIGN KEY REFERENCES
Autovehicul(idAutovehicul).
 NrInmatriculare nvarchar(10) not null
9. Creati tabelul PROGRAMARI
CREATE TABLE Programari
 idProgramare int not null PRIMARY KEY,
 idProprietate int not null FOREIGN KEY REFERENCES
AutovehiculeProprietar(idProprietate),
 idService int not null FOREIGN KEY REFERENCES Service(idService),
 DataVenire date not null,
 DataIesire date
10. Creati tabelul CATEGORIE
CREATE TABLE Categorie
 idCategorie int not null PRIMARY KEY,
Tip nvarchar(32) not null,
 Pret decimal(18,2) not null,
 Cantitate int not null
 11. Creati tabelul FURNIZORI
CREATE TABLE Furnizori
 idFurnizor int not null PRIMARY KEY,
```

```
Nume nvarchar(16) not null,
Adresa nvarchar(64) not null,
Oras nvarchar(32) not null,
CodPostal nvarchar(8) not null,
Tara nvarchar(16) not null,
NrTelefon nvarchar(11) not null
```

12.Creati tabelul PIESE

```
idPiesa int not null PRIMARY KEY,
idCategorie int not null FOREIGN KEY REFERENCES Categorie(idCategorie),
idFurnizor int not null FOREIGN KEY REFERENCES Furnizori(idFurnizor),
Denumire nvarchar(32) not null,
```

13. Creati tabelulL REPARATII

```
create table Reparatii

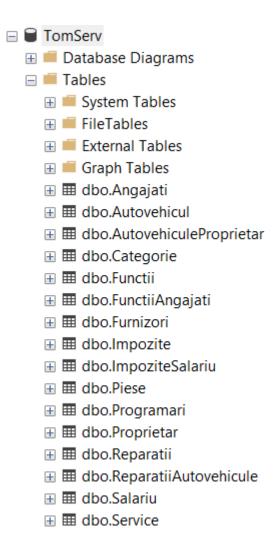
idReparatie int not null PRIMARY KEY,
idProgramare int not null FOREIGN KEY REFERENCES

Programari(idProgramare),
idPiesa int not null FOREIGN KEY REFERENCES Piese(idPiesa),
Defectiune nvarchar(32) not null,
Taxa decimal(18,2) not null,
Manopera decimal(18,2) not null,
PretTotal decimal(18,2) not null
```

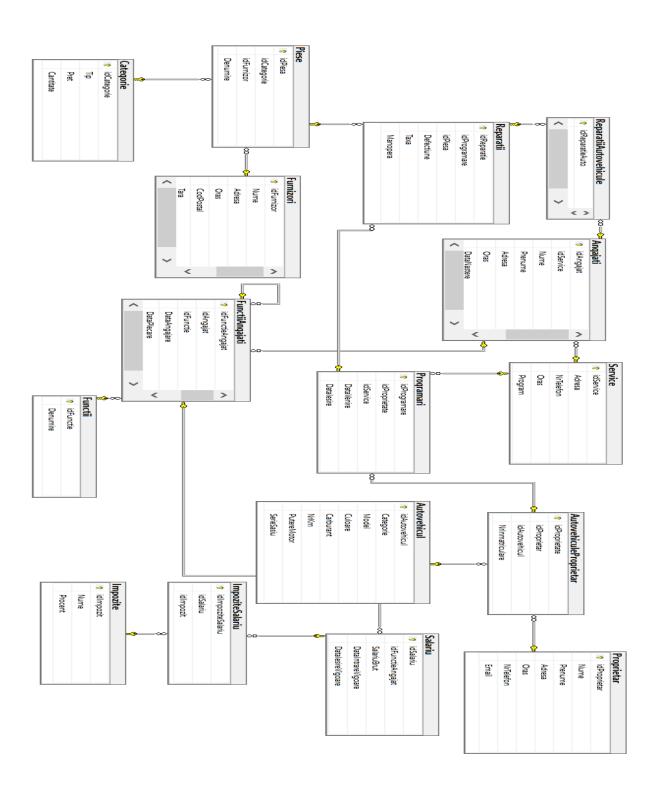
14.Creati tabelulL REPARATII AUTOVEHICULE

```
CREATE TABLE Reparatii Autovehicule
 idReparatie int not null FOREIGN KEY REFERENCES Reparatii(idReparatie),
 idAngajat int not null FOREIGN KEY REFERENCES Angajati(idAngajat)
 15. Creati tabelul SALARIU
CREATE TABLE Salariu
 idSalariu int not null PRIMARY KEY,
 idFunctieAngajat int not null FOREIGN KEY REFERENCES
FunctiiAngajati(idFunctieAngajat),
 SalariuBrut money not null,
 DataIntrareVigoare date not null,
 DataIesireVigoare date
 16. Creati tabelul IMPOZITE
CREATE TABLE Impozite
 idImpozit int not null PRIMARY KEY,
 Nume nvarchar(32) not null,
 Procent decimal(18,2) not null
 17. Creati tabelul IMPOZITE SALARIU
CREATE TABLE ImpoziteSalariu
 idImpoziteSalariu int not null PRIMARY KEY,
 idSalariu int not null FOREIGN KEY REFERENCES Salariu(idSalariu),
 idImpozit int not null FOREIGN KEY REFERENCES Impozite(idImpozit))
```

Dupa crearea tabelelor, acestea vor fi vizibile in Object Explorer prin expandarea bazei de date TomServ -> expandare Tables



3. Diagrama



4. Rezolvarea cerintelor legate de INSERT

18. Inserati inregistrari in tabelul SERVICE:

```
INSERT INTO Service(idService,Adresa,NrTelefon,Oras,Program) VALUES
(1,'str. Bobilna, nr. 12','0712345678','Ploiesti','Non-stop'),
(2,'str. Sforii, nr. 10','0798765432','Brasov','Non-stop'),
(3,'str. Viilor, nr. 30','0722334455','Bucuresti','Non-stop'),
(4,'str. Latina, nr.48','0799887766','Timisoara','Non-stop'),
(5,'str. Constructorilor, nr. 3','0744567788','Constanta','Non-stop')
```

19. Inserati inregistrari in tabelul PROPRIETAR:

```
INSERT INTO Proprietar(idProprietar, Nume, Prenume, Adresa, Oras, NrTelefon, Email) VALUES
(1, 'Barbu', 'Madalina', 'str. Mihai Viteazu, nr.
3', 'Paulesti', '0737658967', 'madalina.barbu@mta.ro'),
(2, 'Craciun', 'Cristian', 'str. Patriei, nr.
10','Navodari','0788456723','cristian.craciun@mta.ro'),
(3,'Soare','Octavian','str. Fagului, nr.2','Brazii de
Jos','0723325665','soare.octavina@mta.ro'),
(4, 'Ionita', 'Daniel', 'str. Merilor, nr.
19', 'Craiova', '0733355578', 'daniel.ionita@mta.ro'),
(5, 'Moise', 'Sarah', 'str. Fat-Frumos, nr. 12-13', 'Alba-
Iulia','0766688899','sarah.moise@mta.ro')
INSERT INTO Proprietar(idProprietar,Nume,Prenume,Adresa,Oras,NrTelefon,Email) VALUES
(6, 'Toma', 'Cristina', 'str. Principala, nr.
34A', 'Mamaia', '0722335566', 'cristina.toma@mta.ro'),
(7, 'Chiva', 'Elena', 'str. Primaverii, nr. 90-
91','Galati','0712332145','elena.chiva@mta.ro'),
(8,'Petrea','Tudor','str. Muresului, nr. 7A','Iasi','0799999988','tudor.petrea@mta.ro'),
(9, 'Ilie', 'Roxana', 'str. Fericirii, nr.
759', 'Ciorani', '0766655534', 'roxana.ilie@mta.ro'),
(10, 'Onea', 'George', 'str. Democratiei, nr.
11', 'Sighisoara', '0777777788', 'george.onea@mta.ro')
```

20. Inserati inregistrari in tabelul AUTOVEHICUL:

```
INSERT INTO
Autovehicul(idAutovehicul, Categorie, Model, Culoare, Carburant, NrKm, PutereMotor, SerieSasiu)
VALUES
(1, 'Autoturism', 'Peugeot 508', 'Negru', 'Benzina', '198.123', 112, 'AB01CDE34F1234567'),
(2, 'Autoturism', 'BMW Seria 3', 'Argintiu', 'Motorina', '203.125', 180, 'WCDYC7CF8DX201851'),
(3, 'Autoturism', 'Audi A5', 'Maro', 'Motorina', '245.560', 195, 'WBAGG83461DN81194'),
(4, 'Motocicleta', 'Honda VFR 800x', 'Alb', 'Motorina', '150.255', 102, 'JH2PC35051M200020'),
(5, 'Autoturism', 'Volkswagen Passat
CC', 'Maro', 'Benzina', '199.000', 170, '1G1YY24UX5X7120EX')

INSERT INTO
Autovehicul(idAutovehicul, Categorie, Model, Culoare, Carburant, NrKm, PutereMotor, SerieSasiu)
VALUES
(6, 'Autoturism', 'Skoda Octavia', 'Verde', 'Motorina', '178.980', 115, 'WAULC68E92A140677'),
```

```
(7,'Autoturism','Citroen C4','Rosu','Electric','150.000',120,'1HGBH41JXMN109186'),
(8,'Autoturism','Audi Q7','Albastru','Motorina','50.000',286,'LJCPCBLCX11000237'),
(9,'Autoturism','Mercedes GLC','Alb','Benzina','103.520',194,'SGES000EX5CRC0199'),
(10,'Autoturism','Peugeot 308','Negru','Benzina','256.000',108,'WF04XXGBB4YS85432'),
(11,'Autoturism','Dacia Logan','Negru','Motorina','190.520',100,'SKES030ER5CP00189')
```

21. Inserati inregistrari in tabelul AUTOVEHICULE PROPRIETAR

```
INSERT INTO
AutovehiculeProprietar(idProprietate,idProprietar,idAutovehicul,NrInmatriculare) VALUES
(1,1,3,'PX03BRB'),
(2,2,5,'CT76CCC'),
(3,4,2,'DJ32DNY'),
(4,3,8,'PH18SUN')
INSERT INTO
AutovehiculeProprietar(idProprietate,idProprietar,idAutovehicul,NrInmatriculare) VALUES
(5,8,9,'IS12TDR'),
(6,9,1,'PH01RXV'),
(7,7,4,'GL45ELE'),
(8,10,10,'MS08NEA'),
(9,5,6,'AB67SRA'),
(10,6,7,'CT17CRS'),
(11,6,11,'CT78CSS')
```

22. Inserati inregistrari in tabelul ANGAJATI

```
---angajati SERVICE cu id=1 cu locatia in Ploiesti
INSERT INTO Angajati(idAngajat,idService,Nume,Prenume,Adresa,Oras,DataNastere,NrTelefon)
VALUES
(1,1,'Dumitru','Victoria','str. Postei, nr. 89','Ploiesti','1977-01-28','0789898989'),
(2,1,'Aciu','Lia','str. Rafiei, nr. 3','Ploiestiori','1978-01-05','0790909090'),
(3,1,'Badic','Mihai','str. Plopeni, nr. 9','Paulesti','1974-02-15','0767676767'),
(4,1,'Badea','Ion','str. Boldesti, nr. 178','Ploiesti', '1987-11-23','0734343434'),
(5,1,'Coca','Eugen','str. Bazaltului, nr. 19','Tantareni','1989-11-20','0723342356')
INSERT INTO Angajati(idAngajat,idService,Nume,Prenume,Adresa,Oras,DataNastere,NrTelefon)
VALUES
(6,1,'Lascu','Dan','str. Militari, nr. 46','Bucov','1990-11-11','0712333344'),
(7,1,'Enache','Sorin','str. Crisu Alb, nr. 2','Albesti-Paleologu','1998-02-
17','0737834155'),
(8,1,'Munteanu','Adrian','str. Carpati, nr. 897','Ploiesti','1985-02-28','0721929239'),
(9,1,'Ofrim','Dragos','str. Transilvaniei, nr. 27','Ploiesti','1980-11-30','0756677888'),
(10,1,'Neamtu','Liviu','str. Bucegi, nr. 3A','Blejoi', '1986-04-18','0756544332')
---angajati SERVICE cu id=2 cu locatia in Brasov
INSERT INTO Angajati(idAngajat,idService,Nume,Prenume,Adresa,Oras,DataNastere,NrTelefon)
(11,2,'Munteanu','George','str. Zeicani, nr. 2','Predeal','1987-03-28','0789900988'),
(12,2,'Radu','Serghei','str. Prasilei, nr. 178','Brasov','1990-02-14','0756776589'),
(13,2,'Samoilescu','Gheorghe','str. Amara, nr. 9','Sinaia','1984-11-26','0767676769'),
(14,2,'Stoian','Dan','str. Panselelor, nr. 18','Azuga','1991-09-25','0756678790'), (15,2,'Topa','Vasile','str. Zambilelor, nr. 2','Brasov','1982-01-09','0734433443')
INSERT INTO Angajati(idAngajat,idService,Nume,Prenume,Adresa,Oras,DataNastere,NrTelefon)
VALUES
```

```
(16,2,'Voncila','Ionel','str. Soarelui, nr. 456','Brasov','1996-12-13','0788888888'),
(17,2,'Voicu','Violeta','str. Garofitei, nr. 18','Brasov','1983-12-27','0723445665'), (18,2,'Ursachi','Robert','str. Mierei, nr. 12A','Busteni','1981-02-02','0789987656'), (19,2,'Teodor','Emanuel','str. Nicoarei, nr. 89','Brasov','1996-04-21','0711122231'),
(20,2,'Timoftei','Radu','str. Bucurei, nr. 9','Brasov','1974-02-15','0723472476')
---angajati SERVICE cu id=3 cu locatia in Bucuresti
INSERT INTO Angajati(idAngajat,idService,Nume,Prenume,Adresa,Oras,DataNastere,NrTelefon)
(21,3,'Dima','Stefan','str. Urziceni, nr. 18','Bragadiru','1998-02-17','0721314151'),
(22,3, 'Darie', 'George', 'str. Resita, nr. 8', 'Bucuresti', '1994-06-19', '0742526272'), (23,3, 'Herdea', 'Adrian', 'str. Stelelor, nr. 780', 'Pipera', '1997-03-06', '0753599787'), (24,3, 'Radu', 'Codrut', 'str. Principala, nr. 5', 'Bucuresti', '1992-01-05', '0789858412'), (25,3, 'David', 'Alexandru', 'str. Luica, nr. 8', 'Balotesti', '1980-12-08', '0789624153')
INSERT INTO Angajati(idAngajat,idService,Nume,Prenume,Adresa,Oras,DataNastere,NrTelefon)
VALUES
(26,3,'Miclaus','Marian','str. Zanoaga, nr. 46','Bucuresti','1996-12-13','0788778888'),
(27,3,'Petrea','Victor','str. Scropoasa, nr. 8','Gherghita','1983-12-27','0723435665'),
(28,3,'Popescu','Cornel','str. Odei, nr. 1','Bucuresti','1981-02-02','0789187656'),
(29,3,'Purcaru','Emil','str. Pogoanele, nr. 83','Pipera','1996-04-21','0731122231'),
(30,3,'Popovici','Andrei','str. Ciubarului, nr. 79','Balotesti','1974-02-
15','0723572476')
---angajati SERVICE cu id=4 cu locatia in Timisoara
INSERT INTO Angajati(idAngajat,idService,Nume,Prenume,Adresa,Oras,DataNastere,NrTelefon)
(31,4,'Dima','Cosmin','str. Lacului, nr. 128','Timisoara','1998-03-17','0722314151'),
(32,4,'Ursu','George','str. Simleu, nr. 38','Timisoara','1994-06-13','0742526282'),
(33,4,'Soare','Octavian','str. Morii, nr. 70','Timisoara','1997-08-05','0753599789'),
(34,4,'Radu','Toader','str. Zapezii, nr. 57','Timisoara','1992-05-13','0789858413'),
(35,4,'David','Ionut','str. Raureni, nr. 85','Timisoara','1980-08-17','0789637153')
INSERT INTO Angajati(idAngajat,idService,Nume,Prenume,Adresa,Oras,DataNastere,NrTelefon)
VALUES
(36,4,'Miclaus','Marin','str. Docuri, nr. 63','Timisoara','1996-12-11','0788677833'),
(37,4,'Petre','Victoras','str. Radacinei, nr. 81','Timisoara','1983-12-30','0723315661'),
(38,4, 'Ionescu', 'Corneliu', 'str. Semanatorului, nr. 91', 'Timisoara', '1981-02-
22','078913256'),
(39,4,'Vasilache','Serbastian','str. Florica, nr. 283','Timisoara','1996-04-
23','0741135231'),
(40,4,'Popescu','Vlad','str. Paunului, nr. 739','Timisoara','1974-02-15','0763586476')
---angajati SERVICE cu id=5 cu locatia in Constanta
INSERT INTO Angajati(idAngajat,idService,Nume,Prenume,Adresa,Oras,DataNastere,NrTelefon)
(41,5, 'Dumitrascu', 'Vasile', 'str. Veseliei, nr. 32', 'Constanta', '1978-01-
28','0789898999'),
(42,5,'Achim','Liliana','str. Stanescu, nr. 30','Navodari','1977-01-05','0790909091'),
(43,5,'Badea','Tudor','str. Stana de Vale, nr.89','Mamaia','1974-03-15','0767676777'),
(44,5,'Tudose','Mihai','str. Doina, nr. 18','Constanta', '1987-12-23','0734343334'), (45,5,'Raicu','Andrei','str. Telita, nr. 99','Mamaia','1997-11-20','0723342387')
INSERT INTO Angajati(idAngajat,idService,Nume,Prenume,Adresa,Oras,DataNastere,NrTelefon)
VALUES
(46,5, 'Lascuzeanu', 'Daniel', 'str. Dunavat, nr. 66', 'Jupiter', '1995-11-11', '0735333344'),
```

```
(47,5,'Avram','Sorinel','str. Ferentari, nr. 22','Constanta','1998-07-18','0738934155'),
(48,5,'Aldea','Adrian','str. Rahovei, nr. 877','Mamaia','1985-04-28','0721929240'),
(49,5,'Iordache','Dragos','str. Barnova, nr. 277','Constanta','1988-12-30','0756678388'),
(50,5,'Rusu','Liviu','str.Iancu Jianu, nr. 33','Constanta', '1986-07-18','0756544212')
```

23. Inserati inregistrari in tabelul FUNCTII:

```
INSERT INTO Functii(idFunctie,Denumire) VALUES
(1,'Vopsitor'),
(2,'Mecanic auto'),
(3,'Manager'),
(4,'Electrician'),
(5,'Contabil')
INSERT INTO Functii(idFunctie,Denumire) VALUES
(6, 'Tinichigiu'),
(7,'Inginer diagnoza'),
(8,'Tehnician'),
(9,'Dispecer'),
(10,'Patron'),
(11,'Inspector ITP'),
(12,'Mecanic mentenanta')
```

24. Inserati inregistrari in tabelul FUNCTII ANGAJATI:

```
INSERT INTO
FunctiiAngajati(idFunctieAngajat,idAngajat,idFunctie,DataAngajare,DataPlecare,Sefi)
VALUES
(1,1,10,'2005-05-17',NULL,NULL),
(2,2,3,'2008-07-25',NULL,1),
(3,3,5,'2008-08-23',NULL,2),
(4,4,4,'2009-09-20',NULL,2),
(5,5,12, '2011-11-15', NULL, 2)
INSERT INTO
FunctiiAngajati(idFunctieAngajat,idAngajat,idFunctie,DataAngajare,DataPlecare,Sefi)
VALUES
(6,6,1,'2008-02-06',NULL,2),
(7,7,2,'2010-12-30',NULL,2),
(8,8,11,'2012-01-04',NULL,2),
(9,9,8,'2009-03-23',NULL,2),
(10,10,7,'2018-04-04',NULL,2)
INSERT INTO
FunctiiAngajati(idFunctieAngajat,idAngajat,idFunctie,DataAngajare,DataPlecare,Sefi)
VALUES
(11,11,3,'2017-08-18',NULL,1),
(12,12,9,'2008-07-20',NULL,11),
(13,13,5,'2020-01-06',NULL,11),
(14, 14, 4, '2011-09-08', NULL, 11),
(15, 15, 6, '2013-11-15', NULL, 11)
INSERT INTO
FunctiiAngajati(idFunctieAngajat,idAngajat,idFunctie,DataAngajare,DataPlecare,Sefi)
VALUES
(16,16,1,'2021-02-06',NULL,11),
(17,17,2,'2020-12-30',NULL,11),
```

```
(18, 18, 11, '2004-01-04', NULL, 11),
(19, 19, 8, '2008-03-23', NULL, 11),
(20, 20, 7, '2005-04-04', NULL, 11)
INSERT INTO
FunctiiAngajati(idFunctieAngajat,idAngajat,idFunctie,DataAngajare,DataPlecare,Sefi)
(21,21,3,'2014-03-08',NULL,1),
(22, 22, 6, '2008-11-25', NULL, 21),
(23, 23, 5, '2017-03-03', NULL, 21),
(24, 24, 4, '2007-09-20', NULL, 21),
(25, 25, 12, '2019-12-15', NULL, 21)
INSERT INTO
FunctiiAngajati(idFunctieAngajat,idAngajat,idFunctie,DataAngajare,DataPlecare,Sefi)
VALUES
(26, 26, 1, '2010-01-06', NULL, 21),
(27,27,2,'2011-08-29',NULL,21),
(28, 28, 9, '2014-02-02', NULL, 21),
(29, 29, 8, '2020-07-20', NULL, 21),
(30,30,7,'2016-05-19',NULL,21)
INSERT INTO
FunctiiAngajati(idFunctieAngajat,idAngajat,idFunctie,DataAngajare,DataPlecare,Sefi)
VALUES
(31,31,3,'2005-05-17',NULL,1),
(32,32,6,'2008-07-25',NULL,31),
(33,33,5,'2008-08-23',NULL,31),
(34,34,4,'2009-09-20',NULL,31),
(35,35,12,'2011-11-15',NULL,31)
INSERT INTO
FunctiiAngajati(idFunctieAngajat,idAngajat,idFunctie,DataAngajare,DataPlecare,Sefi)
VALUES
(36,36,1,'2008-02-06',NULL,31),
(37, 37, 2, '2010-12-30', NULL, 31),
(38,38,11,'2012-01-04',NULL,31),
(39,39,8,'2009-03-23',NULL,31),
(40,40,7,'2018-04-04',NULL,31)
INSERT INTO
FunctiiAngajati(idFunctieAngajat,idAngajat,idFunctie,DataAngajare,DataPlecare,Sefi)
VALUES
(41,41,3,'2010-05-17',NULL,1),
(42,42,9,'2016-07-25',NULL,41),
(43,43,5,'2015-08-23',NULL,41),
(44,44,4,'2009-10-20',NULL,41),
(45, 45, 12, '2011-05-15', NULL, 41)
INSERT INTO
FunctiiAngajati(idFunctieAngajat,idAngajat,idFunctie,DataAngajare,DataPlecare,Sefi)
VALUES
(46,46,1,'2008-02-06',NULL,41),
(47,47,2,'2010-12-30',NULL,41),
(48,48,11,'2012-01-04',NULL,41),
(49,49,8,'2009-03-23',NULL,41),
(50,50,7,'2018-04-04',NULL,41)
```

25. Inserati inregistrari in tabelul CATEGORIE:

```
INSERT INTO Categorie(idCategorie,Tip,Pret,Cantitate) VALUES
(1,'Ulei',60,100),
(2,'Suruburi',5,350),
(3,'Vopsea',35,400),
(4,'Radiator',100,200),
(5,'Bujii',70,800)
INSERT INTO Categorie(idCategorie,Tip,Pret,Cantitate) VALUES
(6,'Antigel',150,417),
(7,'Parbriz',700,500),
(8,'Baterii',350,80),
(9,'Becuri',10,985),
(10,'Furtun',45,800)
INSERT INTO Categorie(idCategorie,Tip,Pret,Cantitate) VALUES
(11,'Filtre',100,652)
```

26. Inserati inregistrari in tabelul FURNIZORI:

```
INSERT INTO Furnizori(idFurnizor, Nume, Adresa, Oras, CodPostal, Tara, NrTelefon) VALUES
(1,'Total','str. Stejarilor, nr. 2','Brasov','507055',' Romania','0268401711'),
(2,'Bosch','49 Gilbert St.','Munchen','EC1 4SD','Germania','1715552222'),
(3,'A.B.S.','Josef-Orlopp-Strabe 55','Berlin','10365','Germania','0316302230'),
(4,'Ridex','92 Setsuko Chuo-ku','Osaka','545','Japonia','064317877'),
(5,'Stark','Kaloadagatan 13','Göteborg','S-345 67','Suedia','0319876543'),
(6,'Van Wezel','Tiergartenstraße 5','Berlin','10785','Germania','0109984510'),
(7,'Mann Filter','Sales Representative','Ravenna','48100','Italia','054460323')
```

27. Inserati inregistrari in tabelul PIESE:

```
INSERT INTO Piese(idPiesa,idCategorie,idFurnizor,Denumire) VALUES
(1,1,1,'Ulei motor'),
(2,2,4, 'Suruburi metrice'),
(3,3,6,'Vopsea Neagra'),
(4,3,6,'Vopsea Alba'),
(5,3,6,'Vopsea Gri'),
(6,3,6,'Vopsea Rosie'),
(7,3,6,'Vopsea Albastra'),
(8,4,4, 'Radiator de racire auto'),
(9,5,2,'Bujii'),
(10,6,7,'Antigel')
INSERT INTO Piese(idPiesa,idCategorie,idFurnizor,Denumire) VALUES
(11,7,5, 'Parbriz'),
(12,7,5,'Geamuri laterale'),
(13,7,5, 'Luneta'),
(14,8,2,'Acumulator auto'),
(15,9,3,'Becuri auto'),
(16,10,7, 'Furtun'),
(17,11,7,'Filtru polen'),
(18,11,7,'Filtru aer'),
(19,11,7,'Filtru ulei'),
(20,11,7,'Filtru combustibil')
```

28. Inserati inregistrari in tabelul IMPOZITE:

```
INSERT INTO Impozite(idImpozit,Nume,Procent) VALUES
(1,'Asigurare Sanatate',25),
(2,'Asigurare Sociala',10),
(3,'Impozit pe Venit',10),
(4,'CAM',2.25)
```

29. Inserati inregistrari in tabelul SALARIU:

```
INSERT INTO
Salariu(idSalariu,idFunctieAngajat,SalariuBrut,DataIntrareVigoare,DataIesireVigoare)
(1,1,2200, '2020-02-23', NULL),
(2,2,3000, '2021-05-26', NULL),
(3,3,6000, '2022-03-17', NULL),
(4,4,2300,'2021-02-23','2021-10-29'),
(5,4,2500, '2021-10-30', NULL),
(6,5,4675, '2022-03-25', NULL),
(7,6,2000, '2021-12-14', NULL)
INSERT INTO
Salariu(idSalariu,idFunctieAngajat,SalariuBrut,DataIntrareVigoare,DataIesireVigoare)
VALUES
(8,7,2460, '2019-09-01', NULL),
(9,8,2030, '2020-08-26', NULL),
(10,9,1950, '2020-10-10', NULL),
(11,10,7800, '2021-04-04', NULL),
(12,11,2840, '2020-06-02', NULL),
(13, 12, 2610, '2017-05-02', '2020-05-05'),
(14,12,2715,'2020-05-06',NULL)
```

30. Inserati inregistrari in tabelul IMPOZITE SALARIU:

```
INSERT INTO ImpoziteSalariu(idImpoziteSalariu,idSalariu,idImpozit) VALUES
(1,1,1),
(2,1,2),
(3,1,3),
(4,1,4),
(5,2,1),
(6,2,2),
(7,2,3),
(8,2,4),
(9,3,1),
(10,3,2),
(11,3,3),
(12,3,4)
INSERT INTO ImpoziteSalariu(idImpoziteSalariu,idSalariu,idImpozit) VALUES
(13,4,1),
(14,4,2),
(15,4,3),
(16,4,4),
(17,5,1),
(18,5,2),
(19,5,3),
```

```
(20,5,4),
(21,6,1),
(22,6,2),
(23,6,3),
(24,6,4),
(25,7,1),
(26,7,2),
(27,7,3),
(28,7,4),
(29, 8, 1)
INSERT INTO ImpoziteSalariu(idImpoziteSalariu,idSalariu,idImpozit) VALUES
(30,8,2),
(31,8,3),
(32, 8, 4),
(33,9,1),
(34,9,2),
(35,9,3),
(36,9,4),
(37,10,1),
(38, 10, 2),
(39,10,3),
(40, 10, 4),
(41,11,1),
(42,11,2),
(43,11,3),
(44,11,4),
(45, 12, 1),
(46, 12, 2),
(47,12,3),
(48, 12, 4)
```

31. Inserati inregistrari in tabelul PROGRAMARI

```
INSERT INTO Programari(idProgramare,idProprietate,idService,DataVenire,DataIesire) VALUES
(1,1,1,'2022-04-20',NULL),
(2,2,5,'2022-04-20',NULL),
(3,3,4,'2022-04-10','2022-04-20'),
(4,4,1,'2022-03-02','2022-03-18'),
(5,5,2,'2022-01-23','2022-01-29'),
(6,6,1,'2022-04-20',NULL)
INSERT INTO Programari(idProgramare,idProprietate,idService,DataVenire,DataIesire) VALUES
(7,7,2,'2021-12-25','2022-01-05'),
(8,8,4,'2021-11-23','2021-12-03'),
(9,9,4,'2021-08-08','2021-09-01'),
(10,10,5,'2022-02-17','2022-02-19'),
(11,11,5,'2022-04-20',NULL)
```

32. Inserati inregistrari in tabelul REPARATII

```
INSERT INTO Reparatii(idReparatie,idProgramare,idPiesa,Defectiune,Taxa,Manopera) VALUES
(1,1,1,'Schimb ulei',0.1,12),
(2,1,19,'Schimb ulei',0.1,20),
(3,2,13,'Inlocuire luneta',0.5,50),
(4,3,3,'Vopsire si polish',0.6,48),
(5,4,15,'Inlocuire baterie auto',0.2,21),
```

```
(6,5,10,'Completare antigel',0.1,5),
(7,6,17,'Schimbare filtre',0.1,10),
(8,6,18,'Schimbare filtre',0.1,10)
INSERT INTO Reparatii(idReparatie,idProgramare,idPiesa,Defectiune,Taxa,Manopera) VALUES
(9,6,20,'Schimbare filtre',0.1,10),
(10,7,9,'Inlocuire bujii',0.05,5),
(11,7,2,'Inlocuire suruburi',0.02,5),
(12,8,15,'Schimbare becuri',0.1,5),
(13,9,8,'Inlocuire radiator',0.2,30),
(14,9,18,'Schimbare filtru aer',0.1,10),
(15,10,16,'Schimb furtun lichid parbriz',0.1,5),
(16,11,11,'Inlocuire parbriz',0.5,50)
```

33. Inserati inregistrari in tabelul REPARATII AUTOVEHICULE

```
INSERT INTO ReparatiiAutovehicule(idReparatieAuto,idReparatie,idAngajat) VALUES
(1,1,10),
(2,1,10),
(3,2,49),
(4,2,44),
 (5,3,36),
(6,4,4),
(7,5,17),
(8,6,10),
(9,6,7),
(10,6,8),
(11,6,10),
(12,7,17),
(13,8,34),
(14, 9, 35),
(15,9,34),
(16, 10, 47),
(17, 11, 44),
(18, 11, 45)
```

5. Rezolvarea cerintelor legate de SELECT

```
select * from Autovehicul
select * from AutovehiculeProprietar
select * from Proprietar
select * from Angajati
select * from Functii
select * from FunctiiAngajati
select * from Service
select * from Piese
select * from Furnizori
select * from Categorie
select * from Salariu
select * from Impozite
select * from ImpoziteSalariu
```

34. Afisati toti numele si prenumele angajatilor ce au functia de manager.

```
select a.Nume as NumeAngajati, a.Prenume as PrenumeAngajati
from FunctiiAngajati as fa
inner join Angajati as a on fa.idAngajat=a.idAngajat
inner join Functii as f on fa.idFunctie=f.idFunctie
where f.Denumire='Manager'
```

III	Results 📳 Mes	ssages
	NumeAngajati	PrenumeAngajati
1	Aciu	Lia
2	Munteanu	Andrei
3	Dima	Stefan
4	Dima	Cosmin
5	Dumitrascu	Vasile

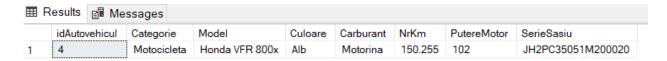
35. Afisati numele si prenumele angajatilor care s-au angajat dupa anul 2008.

```
select a.Nume as NumeAngajati,a.Prenume as PrenumeAngajati,fa.DataAngajare as
DataAngajare
from FunctiiAngajati as fa
inner join Angajati as a on fa.idAngajat=a.idAngajat
where year(fa.DataAngajare) > 2008
```

III F	Results 🗐 Mes	sages	
	NumeAngajati	PrenumeAngajati	DataAngajare
1	Badea	lon	2009-09-20
2	Coca	Eugen	2011-11-15
3	Enache	Sorin	2010-12-30
4	Munteanu	Adrian	2012-01-04
5	Ofrim	Dragos	2009-03-23
6	Neamtu	Liviu	2018-04-04
7	Munteanu	Andrei	2017-08-18
8	Samoilescu	Gheorghe	2020-01-06
9	Stoian	Dan	2011-09-08
10	Topa	Vasile	2013-11-15
11	Voncila	lonel	2021-02-06
12	Voicu	Violeta	2020-12-30
13	Dima	Stefan	2014-03-08
14	Herdea	Adrian	2017-03-03
15	David	Alexandru	2019-12-15
16	Miclaus	Marian	2010-01-06
17	Petrea	Victor	2011-08-29
18	Popescu	Cornel	2014-02-02
19	Purcaru	Emil	2020-07-20
20	Popovici	Andrei	2016-05-19
21	Radu	Toader	2009-09-20
22	David	lonut	2011-11-15
23	Petre	Victoras	2010-12-30
24	Ionescu	Corneliu	2012-01-04
25	Vasilache	Serbastian	2009-03-23
26	Popescu	Vlad	2018-04-04
27	Dumitrascu	Vasile	2010-05-17
28	Achim	Liliana	2016-07-25
29	Badea	Tudor	2015-08-23
30	Tudose	Mihai	2009-10-20
31	Raicu	Andrei	2011-05-15
32	Avram	Sorinel	2010-12-30
33	Aldea	Adrian	2012-01-04
34	lordache	Dragos	2009-03-23
35	Rusu	Liviu	2018-04-04
26	Enache	Sorin	2010-12-30

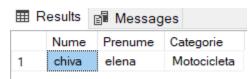
36. Afisati toate vehiculele din categoria motocicleta.

```
select *
from Autovehicul
where Categorie='Motocicleta'
```



37. Afisati proprietarii ce detin autovehicule din categoria motocicleta.

select p.Nume as Nume,p.Prenume as Prenume,a.Categorie as Categorie
from AutovehiculeProprietar as ap
inner join Proprietar p on ap.idProprietar=p.idProprietar
inner join Autovehicul a on ap.idAutovehicul=a.idAutovehicul
where a.Categorie='Motocicleta'



38. Afisati angajatii ce lucreaza la service-ul din Bucuresti.

```
select a.Nume as NumeAngajati, a.Prenume as PrenumeAngajati,s.Oras as Oras
from Angajati a
inner join Service s on a.idService=s.idService
where s.Oras='Bucuresti'
```

	Results 🗐 Mes	sages 🗐 Client	
	NumeAngajati	PrenumeAngajati	Oras
1	Dima	Stefan	Bucuresti
2	Darie	Andrei	Bucuresti
3	Herdea	Adrian	Bucuresti
4	Radu	Codrut	Bucuresti
5	David	Alexandru	Bucuresti
6	Miclaus	Marian	Bucuresti
7	Petrea	Victor	Bucuresti
8	Popescu	Cornel	Bucuresti
9	Purcaru	Emil	Bucuresti
10	Popovici	Andrei	Bucuresti

39. Afisati numele si prenumele patronului ce detine lantul de service-uri auto.

```
select a.Nume as NumePatron, a.Prenume as PrenumePatron
from FunctiiAngajati as fa
inner join Angajati as a on fa.idAngajat=a.idAngajat
inner join Functii as f on fa.idFunctie=f.idFunctie
where f.Denumire='Patron'

--sau

select distinct a.Nume+' '+a.Prenume as Sef
from FunctiiAngajati fa
inner join Angajati as a on fa.idAngajat=a.idAngajat
inner join Functii as f on fa.idFunctie=f.idFunctie
where fa.Sefi is null
```



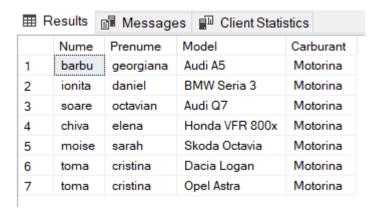
40. Selectati toate autovehiculele ce au carburantul benzina.

```
select a.Model as Model, a.Carburant as Carburant
from Autovehicul a
where a.Carburant='#Benzina'
```

⊞R	esults	Messages	Client St	atis
	Model		Carburant	
1	Peuge	ot 508	#Benzina	
2	Volksv	vagen Passat CC	#Benzina	
3	Merce	des GLC	#Benzina	
4	Peuge	ot 308	#Benzina	
5	BMW	Seria 1	#Benzina	

41. Afisati toti proprietarii ce detin autovehicule ce au carburantul motorina.

```
select p.Nume as Nume,p.Prenume as Prenume,a.Model as Model,a.Carburant as Carburant
from AutovehiculeProprietar as ap
inner join Proprietar p on ap.idProprietar=p.idProprietar
inner join Autovehicul a on ap.idAutovehicul=a.idAutovehicul
where a.Carburant='Motorina'
```



42. Selectati autoturismele ce au peste 120 CP si numele proprietarilor lor.

```
select p.Nume as Nume,p.Prenume as Prenume,a.Model as Model, a.PutereMotor as PutereMotor
from AutovehiculeProprietar as ap
inner join Proprietar p on ap.idProprietar=p.idProprietar
inner join Autovehicul a on ap.idAutovehicul=a.idAutovehicul
where a.PutereMotor > 120
```

шп	esults 🖹	Messages	s 📳 Client Statistics	
	Nume	Prenume	Model	PutereMotor
1	barbu	georgiana	Audi A5	195 Click to
2	craciun	cristian	Volkswagen Passat CC	170
3	ionita	daniel	BMW Seria 3	180
4	soare	octavian	Audi Q7	286
5	petrea	tudor	Mercedes GLC	194

43. Afisati toti angajatii cu varsta peste 30 de ani.

```
select a.Nume as Nume, a.Prenume as Prenume,year(a.DataNastere) as AnNastere,
DATEDIFF(year,a.DataNastere,current_timestamp) as Varsta
from Angajati a
where DATEDIFF(year,a.DataNastere,current_timestamp) > 30
```

⊞ R	esults 📳 M	essages	Client Sta	tistics
	Nume	Prenume	AnNastere	Varsta
1	Dumitru	Victoria	1977	45
2	Aciu	Lia	1978	44
3	Badic	Mihai	1974	48
4	Badea	lon	1987	35
5	Coca	Eugen	1989	33
6	Lascu	Dan	1990	32
7	Munteanu	Adrian	1985	37
8	Ofrim	Dragos	1980	42
9	Neamtu	Liviu	1986	36
10	Munteanu	Andrei	1987	35
11	Radu	Serghei	1990	32
12	Samoilescu	Gheorghe	1984	38
13	Stoian	Dan	1991	31
14	Topa	Vasile	1982	40
15	Voicu	Violeta	1983	39
16	Ursachi	Robert	1981	41
17	Timoftei	Radu	1974	48
18	David	Alexandru	1980	42
19	Petrea	Victor	1983	39
20	Popescu	Cornel	1981	41
21	Popovici	Andrei	1974	48
22	David	lonut	1980	42
23	Petre	Victoras	1983	39
24	Ionescu	Corneliu	1981	41
25	Popescu	Vlad	1974	48
26	Dumitrascu	Vasile	1978	44
27	Achim	Liliana	1977	45
28	Badea	Tudor	1974	48
29	Tudose	Mihai	1987	35
30	Aldea	Adrian	1985	37
31	lordache	Dragos	1988	34
32	Rusu	Liviu	1986	36

44. Afisati toate piesele din categoria 'Filtre'.

```
select p.Denumire as Filtre
from Piese p
inner join Categorie c on p.idCategorie=c.idCategorie
where c.Tip='Filtre'
```



45. Afisati numele furnizorului care livreaza piese din categoria 'Parbriz'.

```
select distinct f.Nume as Nume

from Piese p

inner join Categorie c on p.idCategorie=c.idCategorie
inner join Furnizori f on p.idFurnizor=f.idFurnizor
where c.Tip='Parbriz'

Results

Nume

1 Stark
```

46. Scrieti o interogare care sa afiseze numarul de produse din fiecare categorie si numele categoriei.

select c.Tip as Categorie, c.Cantitate as Cantitate
from Categorie c



47. Afisati toate orașele din 'Germania' in care furnizorii de piese au sediul.

select f.Oras as Oras
from Furnizori f
where f.Tara='Germania'



48. Afisati toate orașele din 'Germania' in care furnizorii de piese au sediul. Afisati și categoriile de piese pe care le fabrica și denumirea furnizorului.

```
select distinct f.Oras as Oras, c.Tip as Categorie,
f.Nume as Furnizor
from Piese p
inner join Categorie c on p.idCategorie=c.idCategorie
inner join Furnizori f on p.idFurnizor=f.idFurnizor
where f.Tara='Germania'
```



49. Afisati toate salariile ce au suferit modificari.

```
select s.SalariuBrut as Salariu
from Salariu s
inner join FunctiiAngajati fa on s.idFunctieAngajat=fa.idFunctieAngajat
where s.DataIesireVigoare is not null
```



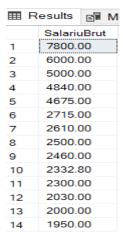
50. Afisati toate impozitele pentru functiile angajatilor cu id=3.

select i.Nume as Impozite
from ImpoziteSalariu imp
inner join Salariu s on imp.idSalariu=s.idSalariu
inner join Impozite i on imp.idImpozit=i.idImpozit
where s.idFunctieAngajat=3



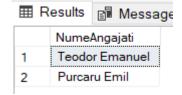
51. Afisati salariile brute ordonate descrescator.

select SalariuBrut
from Salariu
order by SalariuBrut desc



52. Selectati toti angajatii nascuti in data de '1996-04-21'

select a.Nume+' '+a.Prenume as NumeAngajati
from Angajati a
where a.DataNastere='1996-04-21'



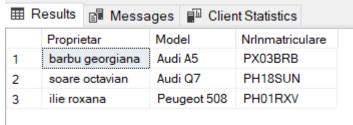
53. Afisati toti angajati ai caror nume incepe cu 'A'.

select *
from Angajati
where Nume like 'A%'

⊞ R	esults	Messages	Cli	ent Statistic	S			
	idAngajat	idService	Nume	Prenume	Adresa	Oras	DataNastere	NrTelefon
1	2	1	Aciu	Lia	str. Rafiei, nr. 3	Ploiestiori	1978-01-05	0790909090
2	42	5	Achim	Liliana	str. Stanescu, nr. 30	Navodari	1977-01-05	0790909091
3	47	5	Avram	Sorinel	str. Ferentari, nr. 22	Constanta	1998-07-18	0738934155
4	48	5	Aldea	Adrian	str. Rahovei, nr. 877	Mamaia	1985-04-28	0721929240

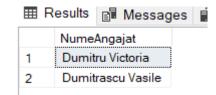
54. Afisati toate masinile inregistrate in service-ul cu id=1 si numele proprietarilor acestora.

select prop.Nume+' '+prop.Prenume as Proprietar, auto.Model as Model, ap.NrInmatriculare
as NrInmatriculare
from AutovehiculeProprietar ap
inner join Programari p on ap.idProprietate=p.idProprietate
inner join Proprietar prop on ap.idProprietar=prop.idProprietar
inner join Autovehicul auto on ap.idAutovehicul=auto.idAutovehicul
where p.idService=1



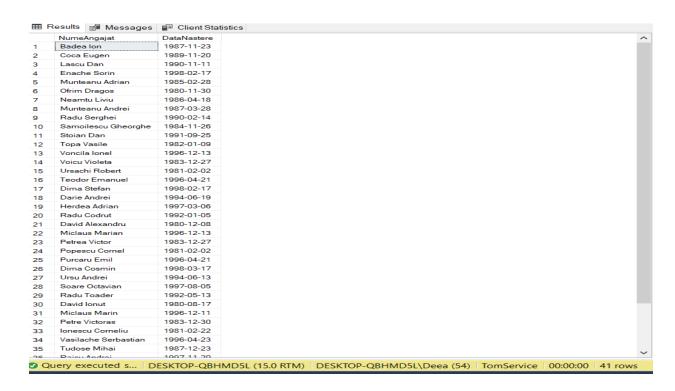
55. Sa se afiseze toti angajatii al caror nume incepe cu "Dum".

select a.Nume+' '+a.Prenume as NumeAngajat
from Angajati a
where a.Nume like 'Dum%'



56. Sa se afiseze toti angajatii nascuti dupa data de '1980-01-01'.

```
select a.Nume+' '+a.Prenume as NumeAngajat, a.DataNastere
from Angajati a
where a.DataNastere > '1980-01-01'
```



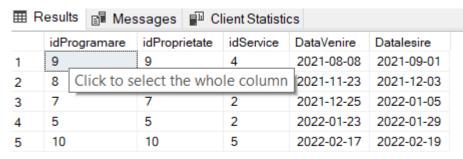
57. Sa se afiseze toate salariile pentru fiecare functie, ordonate crescator.

```
select distinct f.Denumire as Functie, s.SalariuBrut
from FunctiiAngajati fa
inner join Salariu s on fa.idFunctieAngajat=s.idFunctieAngajat
inner join Functii f on fa.idFunctie=f.idFunctie
order by s.SalariuBrut asc
```

⊞ B	esults 📳 Messages	☐ Client Statis		
	Functie	SalariuBrut		
1	Tehnician	1950.00		
2	Vopsitor	2000.00		
3	Inspector ITP	2030.00		
4	Electrician	2300.00		
5	Patron	2332.80		
6	Mecanic auto	2460.00		
7	Electrician	2500.00		
8	Dispecer	2610.00		
9	Dispecer	2715.00		
10	Mecanic mentenanta	4675.00		
11	Manager	4840.00		
12	Manager	5000.00		
13	Contabil	6000.00		
14	Inginer diagnoza	7800.00		

58. Sa se afiseze urmatoarele 5 programari in ordine crescatoare.

select top(5) *
from Programari p
order by p.DataVenire asc



59. Sa se afiseze angajatii nascuti in luna februarie, august, octombrie sau decembrie,

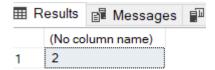
ordonati crescator dupa anul nasterii.

select *
from Angajati a
where DATEPART(m,a.DataNastere) IN (2,8,10,12)
order by DATEPART(year,a.DataNastere) asc

⊞ R	esults		Messages	Clien	t Statistics				
	idAnga	jat	idService	Nume	Prenume	Adresa	Oras	DataNastere	NrTelefon
1	3		1	Badic	Mihai	str. Plopeni, nr. 9	Paulesti	1974-02-15	0767676767
2	20		2	Timoftei	Radu	str. Bucurei, nr. 9	Brasov	1974-02-15	0723472476
3	30		3	Popovici	Andrei	str. Ciubarului, nr. 79	BALOTESTI	1974-02-15	0723572476
4	40		4	Popescu	Vlad	str. Paunului, nr. 739	Timisoara	1974-02-15	0763586476
5	35		4	David	lonut	str. Raureni, nr. 85	Timisoara	1980-08-17	0789637153
6	25		3	David	Alexandru	str. Luica, nr. 8	BALOTESTI	1980-12-08	0789624153
7	28		3	Popescu	Cornel	str. Odei, nr. 1	BUCURESTI	1981-02-02	0789187656
8	18		2	Ursachi	Robert	str. Mierei, nr. 12A	Busteni	1981-02-02	0789987656
9	38		4	Ionescu	Corneliu	str. Semanatorului,	Timisoara	1981-02-22	078913256
10	37		4	Petre	Victoras	str. Radacinei, nr. 81	Timisoara	1983-12-30	0723315661
11	17		2	Voicu	Violeta	str. Garofitei, nr. 18	Brasov	1983-12-27	0723445665
12	27		3	Petrea	Victor	str. Scropoasa, nr. 8	GHERGHITA	1983-12-27	0723435665
13	8		1	Munte	Adrian	str. Carpati, nr. 897	Ploiesti	1985-02-28	0721929239
14	44		5	Tudose	Mihai	str. Doina, nr. 18	Constanta	1987-12-23	0734343334
15	49		5	lordache	Dragos	str. Barnova, nr. 277	Constanta	1988-12-30	0756678388
16	12		2	Radu	Serghei	str. Prasilei, nr. 178	Brasov	1990-02-14	0756776589
17	16		2	Voncila	Ionel	str. Soarelui, nr. 456	Brasov	1996-12-13	0788888888
18	26		3	Miclaus	Marian	str. Zanoaga, nr. 46	BUCURESTI	1996-12-13	0788778888
19	36		4	Miclaus	Marin	str. Docuri, nr. 63	Timisoara	1996-12-11	0788677833
20	33		4	Soare	Octavian	str. Morii, nr. 70	Timisoara	1997-08-05	0753599789
21	7		1	Enache	Sorin	str. Crisu Alb, nr. 2	Albesti-Pal	1998-02-17	0737834155
22	21		3	Dima	Stefan	str. Urziceni, nr. 18	BRAGADIRU	1998-02-17	0721314151

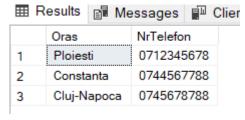
60. Sa se afiseze cati proprietari sunt al caror nume incepe cu 'I'.

```
select count(distinct p.Nume)
from Proprietar p
where p.Nume like 'I%'
```



61. Sa se afiseze service-urile ce contin in numarul de telefon '56' si orașul in care se afla.

```
select s.Oras,s.NrTelefon
from Service s
where s.NrTelefon like '%56%'
```



62. Sa se afiseze numele proprietarilor ce detin masini aduse in service intr-o luna para si sa fie intr-o zi cuprinsa intre 10-21.

```
select p.Nume+' '+p.Prenume as Proprietar,ap.NrInmatriculare
from AutovehiculeProprietar ap
inner join Autovehicul a on ap.idAutovehicul=a.idAutovehicul
inner join Proprietar p on ap.idProprietar=p.idProprietar
inner join Programari prog on ap.idProprietate=prog.idProprietate
where month(prog.DataVenire)%2=0 and day(prog.DataVenire) between 10 and 20
```



63. Sa se afiseze media salariilor, numai primele 4 cifre.

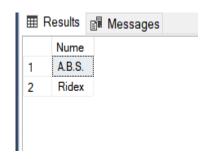
```
select left(avg(s.SalariuBrut),4) as Salariu
from Salariu s
```



SUBINTEROGARI

64. Sa se afiseze toate numele companiilor care furnizeaza produse cu un pret pe unitate mai mic decat 20.

```
select f.Nume
from Furnizori f
where EXISTS
( select p.Denumire
   from Piese p
   inner join Categorie c on p.idCategorie=c.idCategorie
   where p.idFurnizor=f.idFurnizor and c.Pret<20
)</pre>
```



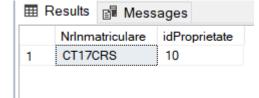
65. Sa se afiseze doar service-urile(numele orasului) care au programari.

select s.Oras
from Service s
where EXISTS
(select p.idProgramare
from Programari p
where p.idService=s.idService

Ⅲ	Results	Messages
	Oras	
1	Ploies	ti
2	Braso	V
3	Timiso	para
4	Consta	anta

66. Sa se afiseze doar nr. de inmatriculare al masinilor a caror reparatie a durat mai putin de 5 zile.

```
select ap.NrInmatriculare,ap.idProprietate
from AutovehiculeProprietar ap
where EXISTS
( select p.idProgramare
    from Programari as p
    where DATEDIFF(day,p.DataVenire,p.DataIesire) < 5 and
p.idProprietate=ap.idProprietate and p.DataIesire is not
null
)</pre>
```



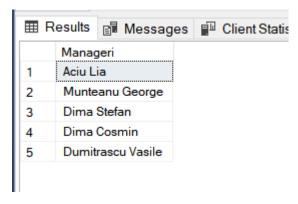
67. Sa se afiseze nr. de inmatriculare al masinilor care au fost reparate.

select ap.NrInmatriculare,ap.idProprietate

Ⅲ	Results	Mess	ages	☐ Clie	ent Statistics
	Nrlnm	atriculare	idPro	prietate	
1	DJ32[NY	3		
2	PH18	SUN	4		
3	IS12T	DR	5		
4	GL45	ELE	7		
5	MS08	NEA	8		
6	AB679	SRA	9		
7	CT170	CRS	10		

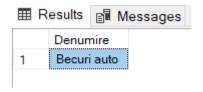
68. Sa se afiseze angajatii cu functia de 'manager' din fiecare service.

```
select a.Nume+' '+a.Prenume as Manageri
from Angajati a
where EXISTS
(
select fa.idFunctie
from FunctiiAngajati fa
inner join Functii f on fa.idFunctie=f.idFunctie
where fa.idAngajat=a.idAngajat and
f.Denumire='Manager'
)
```



69. Sa se afiseze piesele care sunt in cantitati mai mari de 800 bucati.

```
select p.Denumire
from Piese p
where p.idCategorie=any
(select c.idCategorie
from Categorie c
where c.Cantitate > 800
)
```



70. Afisati toate piesele daca au toate cantitatea egala cu 800 bucati.

```
select p.Denumire

from Piese p

where p.idCategorie=all

(select c.idCategorie

from Categorie c

where c.Cantitate = 800

)
```

!! Aceasta interogare va returna FALSE deoarece nu toate piesele au aceeasi cantitate, si anume 800 bucati.

71. Sa se afiseze numele proprietarilor care au lungimea mai mare de 6 litere in ordine alfabetica.

```
select p.Nume+' '+p.Prenume as Nume

from Proprietar p
where p.idProprietar=any
(
select p.idProprietar
from Proprietar p
where len(p.Nume)>6
)
order by p.Nume asc
```

72. Sa se afiseze numele angajatilor al caror nume de telefon se termina cu 7.

(No column name)

Badic Mihai

Herdea Adrian

Badea Tudor

Raicu Andrei

2

NrTelefon

0767676767

0753599787

0767676777

0723342387

```
select a.Nume+' '+a.Prenume,a.NrTelefon
from Angajati a
where a.idAngajat=any
(select a.idAngajat
from Angajati a
where a.NrTelefon like '%7')
```

73. Sa se afiseze angajatii nascuti in an impar.

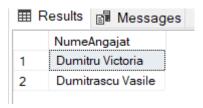
```
select a.Nume+' '+a.Prenume,a.NrTelefon,year(a.DataNastere) as An
from Angajati a
where a.idAngajat=any
(
select a.idAngajat
from Angajati a
where year(a.DataNastere)%2=1
```

)

⊞ Results 🗐 Messages			
	(No column name)	NrTelefon	An
1	Dumitru Victoria	0789898989	1977
2	Badea Ion	0734343434	1987
3	Coca Eugen	0723342356	1989
4	Munteanu Adrian	0721929239	1985
5	Munteanu George	0789900988	1987
6	Stoian Dan	0756678790	1991
7	Voicu Violeta	0723445665	1983
8	Ursachi Robert	0789987656	1981
9	Herdea Adrian	0753599787	1997
10	Petrea Victor	0723435665	1983
11	Popescu Cornel	0789187656	1981
12	Soare Octavian	0753599789	1997
13	Petre Victoras	0723315661	1983
14	Ionescu Corneliu	078913256	1981
15	Achim Liliana	0790909091	1977
16	Tudose Mihai	0734343334	1987
17	Raicu Andrei	0723342387	1997
18	Lascuzeanu Dani	0735333344	1995
19	Aldea Adrian	0721929240	1985

---73. Sa se afiseze toti angajatii al caror nume incepe cu "Dum".

```
select a.Nume+' '+a.Prenume as NumeAngajat
from Angajati a
where a.Nume like 'Dum%'---
```



OPERATORI PE SETURI DE DATE

74. Sa se afiseze orașele din care provin clientii și angajatii.

```
select p.Oras --10 rows
from Proprietar p
UNION
select a.Oras --50 rows
from Angajati a
```

--total: 29 rows, elimina duplicatele

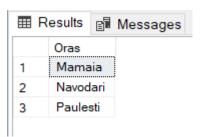
!! Operatorul UNION aplicat asupra celor doua interogari va elimina

duplicatele.

	Results Message
	Oras
1	Alba-Iulia
2	Albesti-Paleologu
3	Azuga
4	Balotesti
5	Blejoi
6	Bragadiru
7	Brasov
8	Brazii de Jos
9	Bucov
10	Bucuresti
11	Busteni
12	Ciorani
13	Constanta
14	Craiova
15	Galati
16	Gherghita
17	lasi
18	Jupiter
19	Mamaia
20	Navodari
21	Paulesti
22	Pipera
23	Ploiesti
24	Ploiestiori
25	Predeal
26	Sighisoara
27	Sinaia
28	Tantareni
29	Timisoara

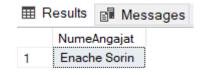
75. Sa se afiseze orașele comune pentru clienti și angajati.

select p.Oras --10 rows
from Proprietar p
INTERSECT
select a.Oras --50 rows
from Angajati a
--total: 3 rows



76. Sa se afiseze angajatii care au functia de 'Mecanic auto' si 'Mecanic mentenanta'.

select a.Nume+' '+a.Prenume as NumeAngajat
from FunctiiAngajati fa
inner join Angajati a on a.idAngajat=fa.idAngajat
inner join Functii f on fa.idFunctie=f.idFunctie
where f.Denumire='Mecanic auto'
INTERSECT
select a.Nume+' '+a.Prenume as NumeAngajat
from FunctiiAngajati fa
inner join Angajati a on a.idAngajat=fa.idAngajat
inner join Functii f on fa.idFunctie=f.idFunctie
where f.Denumire='Mecanic mentenanta'



77. Sa se afiseze angajatii care au functia de 'Mecanic auto', dar nu si de 'Mecanic mentenanta'.

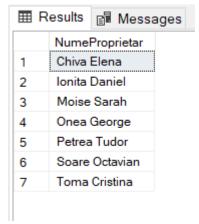
```
select a.Nume+' '+a.Prenume as NumeAngajat
from FunctiiAngajati fa
inner join Angajati a on a.idAngajat=fa.idAngajat
inner join Functii f on fa.idFunctie=f.idFunctie
where f.Denumire='Mecanic auto'
EXCEPT
select a.Nume+' '+a.Prenume as NumeAngajat
from FunctiiAngajati fa
inner join Angajati a on a.idAngajat=fa.idAngajat
inner join Functii f on fa.idFunctie=f.idFunctie
where f.Denumire='Mecanic mentenanta'
```



78. Sa se afiseze proprietarii care au programare si au masinile

reparate.

```
select p.Nume+' '+p.Prenume as NumeProprietar
from AutovehiculeProprietar ap
inner join Proprietar p on ap.idProprietar=p.idProprietar
inner join Programari prog on ap.idProprietate=prog.idProgramare
where prog.DataIesire is not null
INTERSECT
select p.Nume+' '+p.Prenume
from Proprietar p
```



79. Sa se afiseze orașul service-urile care nu au programari.

```
select s.Oras
from Service s
EXCEPT
select s.Oras
from Service s
inner join Programari p on s.idService=p.idService
```



GRUPAREA DATELOR

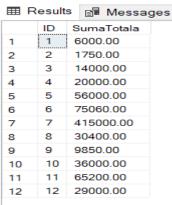
80. Afisati numele celei mai scumpe piese si categoria din care face parte.

```
select c.idCategorie as ID,MAX(p.Denumire) as Piesa, MAX(c.Tip) as Categorie,
MAX(c.Pret) as Pret
from Categorie c
inner join Piese p on c.idCategorie=p.idCategorie
group by c.idCategorie
```

Ⅲ F	Result	s 🗐 Messages		
	ID	Piesa	Categorie	Pret
1	1	Ulei motor	Ulei	60.00
2	2	Suruburi metrice	Suruburi	5.00
3	3	Vopsea Rosie	Vopsea	35.00
4	4	Radiator de racire auto	Radiator	100.00
5	5	Bujii	Bujii	70.00
6	6	Antigel	Antigel	180.00
7	7	Parbriz	Parbriz	830.00
8	8	Acumulator auto	Baterii	380.00
9	9	Becuri auto	Becuri	10.00
10	10	Furtun	Furtun	45.00
11	11	Filtru ulei	Filtre	100.00

81. Scrieți o interogare care sa afiseze pentru fiecare categorie IDul și valoarea totala a acesteia.

```
select c.idCategorie as ID,SUM(c.Pret*c.Cantitate) as SumaTotala
from Categorie c
group by c.idCategorie
```



82. Sa se afiseze cate comenzi a livrat fiecare furnizor.

```
select p.idFurnizor,f.Nume as Furnizor, count(*) as NrComenzi from Piese p
```

inner join Furnizori f on p.idFurnizor=f.idFurnizor
group by p.idFurnizor,f.Nume

	idFurnizor	Furnizor	NrComenzi
1	1	Total	1
2	2	Bosch	2
3	3	A.B.S.	1
4	4	Ridex	2
5	5	Stark	3
6	6	Van Wezel	5
7	7	Mann Filter	6

83. Sa se scrie o interogare care calculeaza pretul total pentru fiecare categorie de piese.

```
select p.idPiesa,c.Tip as Categorie,sum(c.Cantitate*c.Pret) as PretTotal
from Piese p
inner join Categorie c on p.idCategorie=c.idCategorie
group by p.idPiesa,c.Tip
```

Results					
	idCate	gorie	Categorie	PretTotal	
1	1		Ulei	6000.00	
2	2		Suruburi	1750.00	
3	3		Vopsea	70000.00	
4	4		Radiator	20000.00	
5	5		Bujii	56000.00	
6	6		Antigel	62550.00	
7	7		Parbriz	1050000.00	
8	8		Baterii	28000.00	
9	9		Becuri	9850.00	
10	10		Furtun	36000.00	
11	11		Filtre	260800.00	

84. Sa se afiseze cate programari are fiecare service.

```
select s.idService,s.Oras as OrasService, count(*) as NrProgramari
from Service s
inner join Programari p on s.idService=p.idService
```

group by s.idService,s.Oras

Ⅲ F	Results 📳	Messages	
	idService	OrasService	NrProgramari
1	1	Ploiesti	3
2	2	Brasov	2
3	4	Timisoara	3
4	5	Constanta	3
4	5	Constanta	3

FILTRAREA DE GRUP

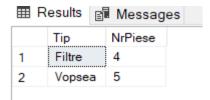
85. Sa se afiseze tara furnizorilor de piese dintr-un oras ce incepe cu litera 'B' si au un nr. de bucati pe care le-au livrat mai mic decat 500 bucati.

```
select f.Tara
from Piese p
inner join Furnizori f on p.idFurnizor=f.idFurnizor
inner join Categorie c on p.idCategorie=c.idCategorie
where f.Oras like 'B%'
group by f.Tara
having max(c.Cantitate)<500</pre>
```

!!! Nu se afiseaza nimic pentru ca nu exista inregistrari care sa corespunda cerintei.

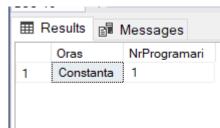
86. Sa se afiseze piesele care au fost livrate in cantitati de mai mult de 100 bucati de cel putin 3 tipuri, grupate dupa denumirea categoriei.

```
select c.Tip, count(*) as NrPiese
from Piese p
inner join Categorie c on p.idCategorie=c.idCategorie
where c.Cantitate>100
group by c.Tip
having count(*)>3
```



87. Selectati orașul service-urilor cu mai putin de 2 programari de dupa 23 februarie 2022, grupate dupa numele orașului.

```
select s.Oras,count(*) as NrProgramari
from Service s
inner join Programari p on s.idService=p.idService
where p.DataVenire > '2022-02-23'
group by s.Oras
having count(*)<2</pre>
```



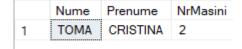
88. Sa se afiseze functiile angajatilor care au cel putin 3 functii cu salariul mai mare de 2500 lei, grupate dupa denumirea functiei.

```
select count(*) as NrFunctii, f.Denumire as Functie
from FunctiiAngajati fa
inner join Salariu s on
fa.idFunctieAngajat=s.idFunctieAngajat
inner join Functii f on fa.idFunctie=f.idFunctie
inner join Angajati a on fa.idAngajat=a.idAngajat
where s.SalariuBrut>2500
group by f.Denumire
having count(*)<3</pre>
```

	NrFunctii	Functie
1	1	Contabil
2	2	Dispecer
3	1	Inginer diagnoza
4	2	Manager
5	1	Mecanic mentenanta

89. Afisati proprietarii care au mai mult de o masina al caror nr. de telefon se termina in cifra 6.

```
select p.Nume,p.Prenume,count(*) as NrMasini
from Proprietar p
inner join AutovehiculeProprietar ap on
p.idProprietar=ap.idProprietar
where p.NrTelefon like '%6'
group by p.Nume,p.Prenume
having count(*)>1
```



90. Sa se afiseze autovehiculele de culoare negru care au maxim 2 proprietari, grupate dupa numele proprietarilor.

```
select a.Model, a.Culoare, p.Nume,p.Prenume, count(*) as NrMasini
from AutovehiculeProprietar ap
inner join Proprietar p on ap.idProprietar=p.idProprietar
```

```
inner join Autovehicul a on ap.idAutovehicul=a.idAutovehicul
where a.Culoare='Negru'
group by p.Nume,p.Prenume, a.model,a.culoare
having count(*)=2
```



!!! Nu se afiseaza nimic pentru ca nu exista inregistrari care sa corespunda cerintei.

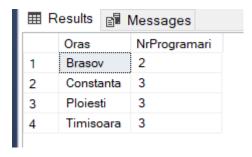
GRUPAREA DATELOR FILTRATE

92. Scrieți o interogare care sa afiseze pentru fiecare categorie IDul și valoarea totala a acesteia. Afisati si denumirea categoriei si toate piesele din categoria 'Vopsea'.

```
select c.idCategorie as ID,SUM(c.Pret*c.Cantitate) as SumaTotala, p.Denumire as
Piesa, c. Tip as Categorie
                                               from Categorie c
                                                         SumaTotala
inner join Piese p on
                                                                     Piesa
                                                                                    Categorie
c.idCategorie=p.idCategorie
                                                     3
                                                         14000.00
                                                                     Vopsea Alba
                                                1
                                                                                     Vopsea
where c.Tip='Vopsea'
                                                         14000.00
                                                                     Vopsea Albastra
                                                2
                                                     3
                                                                                     Vopsea
group by c.idCategorie,p.Denumire,c.Tip
                                                3
                                                     3
                                                         14000.00
                                                                     Vopsea Gri
                                                                                     Vopsea
                                                     3
                                                4
                                                         14000.00
                                                                     Vopsea Neagra
                                                                                     Vopsea
                                                     3
                                                         14000.00
                                                                     Vopsea Rosie
                                                5
                                                                                     Vopsea
```

93. Sa se afiseze orașul pt fiecare service și cate programari au.

```
select s.Oras,count(s.idService) as NrProgramari
from Service s,Programari p
where s.idService=p.idService
group by s.Oras
```



94. Afisati cate produse are fiecare categorie, grupate in functie de id-ul categoriei.

```
select c.idCategorie,count(*) as NrPiese, c.Tip as Categorie
from Piese p
inner join Categorie c on c.idCategorie=p.idCategorie
group by c.idCategorie,c.Tip
```

Ⅲ F	Results	e N	lessages	
	idCate	gorie	NrPiese	Categorie
1	1		1	Ulei
2	2		1	Suruburi
3	3		5	Vopsea
4	4		1	Radiator
5	5		1	Bujii
6	6		1	Antigel
7	7		3	Parbriz
8	8		1	Baterii
9	9		1	Becuri
10	10		1	Furtun
11	11		4	Filtre

95. Sa se afiseze service-urile care au programari in intervalul '2022-01-01' si '2022-05-09', grupate dupa numele orasului.

```
select s.Oras
from Service s
inner join Programari p on s.idService=p.idService
where p.DataVenire>'2022-01-01' and p.DataIesire<'2022-05-09'
group by s.Oras</pre>
```



96. Afisati pentru fiecare angajat de la Ploiesti numarul de masini pe care le-au reparat, grupate dupa numele angajatului.

```
select a.Nume,a.Prenume,count(*) as NrReparatii
from ReparatiiAutovehicule ra
inner join Angajati a on a.idAngajat=ra.idAngajat
inner join Service s on a.idService=s.idService
where s.Oras='Ploiesti'
group by a.Nume, a.Prenume
```



97. Sa se afiseze orașul pt fiecare service și cate programari au.

```
select s.Oras,count(s.idService) as NrProgramari
from Service s,Programari p
where s.idService=p.idService
group by s.Oras
```

	Oras	NrProgramari
1	Brasov	2
2	Constanta	3
3	Ploiesti	3
4	Timisoara	3
4	Tittisodia	3

6. Rezolvarea cerintelor legate de VIEWS

98. Creati o vedere in care sa stocati numele, prenumele si varsta angajatilor de peste 35 ani, orasul service-ului la care sunt angajati, numarul lor de telefon, functia si salariul lor. Sa se afiseze angajatii cu varsta de peste 35 de ani.

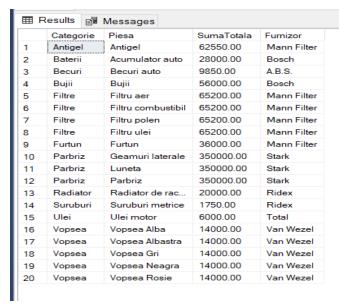
```
if OBJECT_ID('DetaliiAngajati','V') is not null
drop view DetaliiAngajati
go
create view DetaliiAngajati
as
select a.Nume,a.Prenume, f.Denumire as Functie,
s.Oras,DATEDIFF(year,a.DataNastere,CURRENT_TIMESTAMP) as Varsta,
a.NrTelefon,sl.SalariuBrut
from Angajati a
inner join Service s on a.idService=s.idService
inner join FunctiiAngajati fa on a.idAngajat=fa.idAngajat
inner join Functii f on fa.idFunctie=f.idFunctie
inner join Salariu sl on sl.idFunctieAngajat=fa.idFunctieAngajat
where DATEDIFF(year,a.DataNastere,CURRENT_TIMESTAMP)>35
```

select * from DetaliiAngajati

	Nume	Prenume	Functie	Oras	Varsta	NrTelefon	SalariuBru
1	Dumitru	Victoria	Patron	Ploiesti	45	0789898989	2200.00
2	Aciu	Lia	Manager	Ploiesti	44	0790909090	5000.00
3	Badic	Mihai	Contabil	Ploiesti	48	0767676767	6000.00
4	Munteanu	Adrian	Inspector ITP	Ploiesti	37	0721929239	2030.00
5	Ofrim	Dragos	Tehnician	Ploiesti	42	0756677888	1950.00
6	Neamtu	Liviu	Inginer diagnoza	Ploiesti	36	0756544332	7800.00

99. Creati o vedere in care sa inserati categoria, tipul pieselor din acea categorie, suma totala si furnizorii ce le-au livrat

```
if OBJECT_ID('DetaliiPiese','V') is not null
drop view DetaliiPiese
go
create view DetaliiPiese
as
select c.Tip as Categorie, p.Denumire as Piesa,
SUM(c.Pret*c.Cantitate) as SumaTotala, f.Nume as
Furnizor
from Categorie c
inner join Piese p on
c.idCategorie=p.idCategorie
inner join Furnizori f on
f.idFurnizor=p.idFurnizor
group by c.Tip, p.Denumire,f.Nume
select * from DetaliiPiese
```



100. Sa se creeze un view in care sa se stocheze proprietarii ce au adus masini la reparat, nr. de inmatriculare, modelul, orasul service-ului, nr de zile cat au durat reparatiile, costurile reparatiilor si numele angajatilor care au contribuit la repararea masinilor.

```
if OBJECT ID('CosturiReparatii','V') is not null
drop view CosturiReparatii
create view CosturiReparatii as
select p.Nume,p.Prenume,ap.NrInmatriculare,a.Model,s.Oras as
Service,DATEDIFF(DAY,prog.DataVenire,prog.DataIesire) as NrZileReparatie,
SUM((c.Pret+r.Manopera)+r.Taxa*(c.Pret+r.Manopera)) as PretReparatie
from Proprietar p
inner join AutovehiculeProprietar ap on ap.idProprietar=p.idProprietar
inner join Autovehicul a on a.idAutovehicul=ap.idAutovehicul
inner join Programari prog on prog.idProprietate=ap.idProprietate
inner join Service s on s.idService=prog.idService
inner join Angajati ang on ang.idService=s.idService
inner join ReparatiiAutovehicule ra on ra.idAngajat=ang.idAngajat
inner join Reparatii r on r.idReparatie=ra.idReparatie
inner join Piese pie on pie.idPiesa=r.idPiesa
inner join Categorie c on c.idCategorie=pie.idCategorie
where prog.DataIesire is not null
p.Nume,p.Prenume,ap.NrInmatriculare,a.Model,s.Oras,prog.DataIesire,prog.DataVenire
```

select * from CosturiReparatii

Ⅲ F	Results		Messages					
	Nume		Prenume	Nrlnmatriculare	Model	Service	NrZileReparatie	PretReparatie
1	CHIVA	-	ELENA	GL45ELE	Honda VFR 800x	Brasov	11	158.2000
2	IONITA		DANIEL	DJ32DNY	BMW Seria 3	Timisoara	10	1488.0000
3	MOISE	E	SARAH	AB67SRA	Skoda Octavia	Timisoara	24	1488.0000
4	ONEA		GEORGE	MS08NEA	Peugeot 308	Timisoara	10	1488.0000
5	PETR	EΑ	TUDOR	IS12TDR	Mercedes GLC	Brasov	6	158.2000
6	SOAR	E	OCTAVIAN	PH18SUN	Audi Q7	Ploiesti	16	973.2000
7	TOMA		CRISTINA	CT17CRS	Citroen C4	Constanta	2	363.1500

101. Creati o vedere in care sa stocati toate autoturismele ce au carburantul 'Benzina' si au peste 110 CP, proprietarii acestora, nr. de inmaticulare, modelul si culoarea.

⊞ R	esults	Messa	ges				
	Proprie	etar	Model	Carburant	Culoare	PutereMotor	Nrlnmatriculare
1	Craciu	n Cristian	Volkswagen Passat CC	Benzina	Maro	170	CT76CCC
2	PETRI	EA TUDOR	Mercedes GLC	Benzina	Alb	194	IS12TDR
3	Ilie Ro	xana	Peugeot 508	Benzina	Negru	112	PH01RXV

102. Creati o vedere in care sa afisati anagajatii care au reparat mai mult de 1 masina, numele acestora, numarul de telefon, functia si service-ul.

```
if OBJECT_ID('MasiniReparate','V') is not null
drop view MasiniReparate
go
create view MasiniReparate as
        select a.Nume+' '+a.Prenume as Angajat,a.NrTelefon,f.Denumire as
Functie,s.Oras,count(*) as NrReparatii
```

```
from Angajati a
   inner join FunctiiAngajati fa on fa.idAngajat=a.idAngajat
   inner join Functii f on f.idFunctie=fa.idFunctie
   inner join ReparatiiAutovehicule ra on ra.idAngajat=a.idAngajat
   inner join Service s on s.idService=a.idService
   group by a.Nume,a.Prenume,a.NrTelefon,f.Denumire,s.Oras
   having count(*)>1
select * from MasiniReparate
```

	Angajat	NrTelefon	Functie	Oras	NrReparatii
1	Neamtu Liviu	0756544332	Inginer diagnoza	Ploiesti	4
2	Radu Toader	0789858413	Electrician	Timisoara	2
3	Tudose Mihai	0734343334	Electrician	Constanta	2
4	Voicu Violeta	0723445665	Mecanic auto	Brasov	2

7. Rezolvarea cerintelor legate de CTEs

103. Sa se creeze o expresie care afiseaza cea mai ieftina categorie de piese.

```
with PretMin as

(
    select min(c.Pret) as PretMin,c.Tip as Categorie
    from categorie c
    group by c.Tip
)

select top(1) p.PretMin,p.Categorie
from PretMin p
order by p.PretMin asc
```

104. Creati un CTE care sa afiseze numarul de programari si orasul pentru service-ul cu cele mai multe programari.

```
with NrProgramari as --calculez pt fiecare service nr de programari
 select count(*) as NrProgramari, s.Oras
                                                              from Programari p
                                                                   NrMaxProg
                                                                               Oras
 inner join Service s on s.idService=p.idService
 group by s.Oras
                                                                    3
                                                                               Brasov
                                                              2
                                                                    3
                                                                               Constanta
MaxProg as --aflu maximul din toate
                                                                    3
                                                                               Ploiesti
                                                              3
 select max(NrProgramari) as NrMaxProg
                                                                    3
                                                                               Timisoara
                                                              4
 from NrProgramari
```

```
select NrMaxProg, nr.Oras
from MaxProg
inner join NrProgramari nr on nr.NrProgramari=NrProgramari
```

105. Creati un CTE care sa afiseze pentru fiecare functie salariul net.

```
with ProcentImpozite as
(
    select i.Nume as Impozit,i.Procent, s.SalariuBrut,f.Denumire as Functie
    from ImpoziteSalariu imps
    inner join Impozite i on i.idImpozit=imps.idImpozit
    inner join Salariu s on s.idSalariu=imps.idSalariu
    inner join FunctiiAngajati fa on fa.idFunctieAngajat=s.idFunctieAngajat
    inner join Functii f on f.idFunctie=fa.idFunctie
),
SalariuNet as
(
    select imp.Functie, sum(imp.SalariuBrut-(imp.Procent*imp.SalariuBrut)/100) as
SalariuTotal
    from ProcentImpozite imp
    group by imp.Functie
)
select sn.Functie,sn.SalariuTotal
from SalariuNet sn
```

106. Sa se creeze un CTE care sa afiseze numarul de progaramari(mai mult decat una) pentru fiecare luna din anul 2022.

107. Sa se afiseze doar nr. de inmatriculare al masinilor a caror reparatie a durat mai putin de 10 zile.

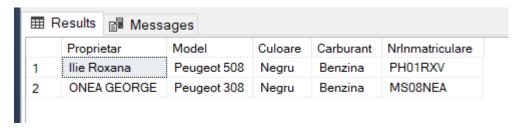
```
with MasiniReparate as
(
   select ap.NrInmatriculare, DATEDIFF(day,p.DataVenire,p.DataIesire) as NrZile
   from AutovehiculeProprietar ap
   inner join Programari p on p.idProprietate=ap.idProprietate
   where DATEDIFF(day,p.DataVenire,p.DataIesire) < 10 and p.idProprietate=ap.idProprietate
and p.DataIesire is not null
)</pre>
```

```
select *
from MasiniReparate
```

III I	Results	₽ Mess	ages	
	Nrlnma	atriculare	NrZile	
1	IS12TI	IS12TDR		
2	CT170	2		

108. Creati un CTE in care sa afisati modelul masinilor de culoare negru si carburant benzina, proprietarul acestora si nr de inmatriculare.

```
with MasiniBenzina as
(
   select p.Nume+' '+p.Prenume as
Proprietar,a.Model,a.Culoare,a.Carburant,ap.NrInmatriculare
   from Autovehicul a
   inner join AutovehiculeProprietar ap on a.idAutovehicul=ap.idAutovehicul
   inner join Proprietar p on p.idProprietar=ap.idProprietar
   where a.Carburant='Benzina' and a.Culoare='Negru'
)
select *
from MasiniBenzina
```



109. Sa se creeze un CTE care sa afiseze angajatii, denumirea service-ului de care apartin si seful acestora.

```
with Sefi as
(
   select s.Oras,a2.Nume+' '+a2.Prenume as Angajati,a.Nume+' '+a.Prenume as Sefi
   from FunctiiAngajati fa
   inner join Angajati a on a.idAngajat=fa.idAngajat
   inner join Service s on s.idService=a.idService
   inner join FunctiiAngajati fa2 on fa.idAngajat=fa2.Sefi
```

inner join Angajati a2 on a2.idAngajat=fa2.idAngajat

)
select * from Sefi

III F	Results 🖺	Messages			
	Oras	Angajati	Sefi		
1	Ploiesti	Aciu Lia	Dumitru Victoria		
2	Ploiesti	Badic Mihai	Aciu Lia		
3	Ploiesti	Badea Ion	Aciu Lia		
4	Ploiesti	Coca Eugen	Aciu Lia		
5	Ploiesti	Lascu Dan	Aciu Lia		
6	Ploiesti	Enache S	Aciu Lia		
7	Ploiesti	Munteanu	Aciu Lia		
8	Ploiesti	Ofrim Dra	Aciu Lia		
9	Ploiesti	Neamtu Li	Aciu Lia		
10	Ploiesti	Munteanu	Dumitru Victoria		
11	Brasov	Radu Serg	Munteanu Ge		
12	Brasov	Samoilesc	Munteanu Ge		
13	Brasov	Stoian Dan	Munteanu Ge		
14	Brasov	Topa Vasile	Munteanu Ge		
15	Brasov	Voncila lo	Munteanu Ge		
16	Brasov	Voicu Viol	Munteanu Ge		
17	Brasov	Ursachi R	Munteanu Ge		
18	Brasov	Teodor E	Munteanu Ge		
19	Brasov	Timoftei R	Munteanu Ge		
20	Ploiesti	Dima Stefan	n Dumitru Victori		
21	Bucur	Darie Geo	Dima Stefan		
22	Bucur	Herdea Ad	Dima Stefan		
23	Bucur	Radu Codr	Dima Stefan		
24	Bucur	David Alex	Dima Stefan		
25	Bucur	Miclaus M	Dima Stefan		
26	Bucur	Petrea Vict	Dima Stefan		
27	Bucur	Popescu C	Dima Stefan		
28	Bucur	Purcaru E	Dima Stefan		
29	Bucur	Popovici A	Dima Stefan		
30	Ploiesti	Dima Cos	Dumitru Victoria		
31	Timis	Ursu Geor	Dima Cosmin		
32	Timis	Soare Oct	Dima Cosmin		
33	Timis	Radu Toa	Dima Cosmin		
34	Timis	David Ionut	Dima Cosmin		
35	Timis	Miclaus M	Dima Cosmin		
26	Timie	Petre Victo	Dima Coemin		

⊞ R	esults 🖹	■ Messages		
	Oras	Angajati	Sefi	
22	Bucur	Herdea Ad	Dima Stefan	
23	Bucur	Radu Codr	Dima Stefan	
24	Bucur	David Alex	Dima Stefan	
25	Bucur	Miclaus M	Dima Stefan	
26	Bucur	Petrea Vict	Dima Stefan	
27	Bucur	Popescu C	Dima Stefan	
28	Bucur	Purcaru E	Dima Stefan	
29	Bucur	Popovici A	Dima Stefan	
30	Ploiesti	Dima Cos	Dumitru Victoria	
31	Timis	Ursu Geor	Dima Cosmin	
32	Timis	Soare Oct	Dima Cosmin	
33	Timis	Radu Toa	Dima Cosmin	
34	Timis	David Ionut	Dima Cosmin	
35	Timis	Miclaus M	Dima Cosmin	
36	Timis	Petre Victo	Dima Cosmin	
37	Timis	Ionescu C	Dima Cosmin	
38	Timis	Vasilache	Dima Cosmin	
39	Timis	Popescu V	Dima Cosmin	
40	Ploiesti	Dumitrasc	Dumitru Victoria	
41	Const	Achim Lili	Dumitrascu V	
42	Const	Badea Tu	Dumitrascu V	
43	Const	Tudose Mi	Dumitrascu V	
44	Const	Raicu And	Dumitrascu V	
45	Const	Lascuzea	Dumitrascu V	
46	Const	Avram Sori	Dumitrascu V	
47	Const	Aldea Adri	Dumitrascu V	
48	Const	lordache	Dumitrascu V	
49	Const	Rusu Liviu	Dumitrascu V	
50	Ploiesti	Enache S	Aciu Lia	

8. Rezolvarea cerintelor legate de TRIGGERS

110. Sa se creeze un trigger pentru identificarea duplicatelor orașelor in tabelul Service.

```
if OBJECT ID('DuplicateService','TR') is not null
drop trigger DuplicateService
                                                      Messages
create trigger DuplicateService
on Service
                                                        Commands completed successfully.
after insert, update
as
                                                        Completion time: 2022-05-09T23:15:30.9140743+03:00
begin
       if @@ROWCOUNT=0 return;
       set nocount on;
       if exists(
                            select count(*)
                            from inserted as i
                            inner join Service s
                            on i.Oras=s.Oras
                            group by i.Oras
                            having count(*) >1
       begin
         print('Service-ul exista deja in baza de date');
              rollback
       end
end
INSERT INTO Service(idService,Adresa,NrTelefon,Oras,Program) VALUES
(7, 'str. Gh. Doja, nr. 189', '0789987667', 'Sibiu', 'Inchis')
        Messages
           Service-ul exista deja in baza de date
           Msg 3609, Level 16, State 1, Line 29
           The transaction ended in the trigger. The batch has been aborted.
           Completion time: 2022-05-09T23:28:14.6126813+03:00
```

111. Sa se creeze un trigger pentru tabelul Proprietari. Sa se afiseze un mesaj corespunzator dupa orice modificare a datelor.

```
if OBJECT_ID('UpdateProprietari','TR') is not null drop trigger UpdateProprietari
go
create trigger UpdateProprietari

Commands completed successfully.

Completion time: 2022-05-09T23:25:01.1424389+03:00
```

```
on Proprietar
after update
as
print 'Modificarile au fost efectuate cu
succes!'

update Proprietar
set Prenume='Georgiana'
where Nume='Barbu'

select * from Proprietar
```

112. Creati un declansator care sa afiseze un mesaj dupa un delete din tabelul Autovehicul.

```
if OBJECT ID('AfterDeleteAutovehicule','TR') is not null
drop trigger AfterDeleteAutovehicule
 create trigger AfterDeleteAutovehicule
on Autovehicul
 after delete
 print 'A fost efectuata stergerea din tabelul Autovehicule'
                 Messages
                    Commands completed successfully.
                    Completion time: 2022-05-09T23:42:06.3770182+03:00
INSERT INTO
Autovehicul(idAutovehicul, Categorie, Model, Culoare, Carburant, NrKm, PutereMotor, SerieSasiu)
VALUES
(12, 'Autoturism', 'Dacia Duster', 'Negru', 'Motorina', '152.123', 150, 'SKES030ER5CPI0189')
delete from Autovehicul
where idAutovehicul=12
                     Messages
                        A fost efectuata stergerea din tabelul Autovehicule
                        (1 row affected)
                        Completion time: 2022-05-09T23:40:52.2318758+03:00
```

113. Creati un trigger care sa selecteze service-ul in care o programare a fost actualizata.

```
if OBJECT ID('UpdateProgramare','TR') is not null
drop trigger UpdateProgramare

    Messages

create trigger UpdateProgramare
                                                     Commands completed successfully.
on Programari
                                                     Completion time: 2022-05-09T23:57:19.3856645+03:00
for update
as
begin
       declare @upd as int
       if @@ROWCOUNT=0 return;
       set nocount on;
       begin
               select @upd=inserted.idProgramare from inserted
               select s.Oras
               from Service s
               inner join Programari p on s.idService=p.idService
              where p.idProgramare=@upd
       end
end
```

114. Creati un trigger care sa afiseze pretul maxim al unei piese inserate sau modificate.

```
if OBJECT ID('PretMaxPiesa','TR') is not null
drop trigger PretMaxPiesa

    Messages

                                                      Commands completed successfully.
create trigger PretMaxPiesa
on Categorie
after insert, update
                                                      Completion time: 2022-05-10T00:03:01.3111693+03:00
begin
       if @@rowcount=0 return;
       set nocount on;
       begin
              select max(Pret) from Categorie
       end
                                                            end
                                                                 (No column name)
update Categorie
                                                                  800.00
                                                            1
set Pret+=100
where Tip='Parbriz'
```

115. Creati un trigger care sa completeze automat tara Furnizorilor ca fiind Romania.

```
if OBJECT_ID('SetTaraFurnizor','TR') is not null completed successfully.

Commands completed successfully.

Completion time: 2022-05-10T10:03:00.8922352+03:00
```

```
create trigger SetTaraFurnizor
on Furnizori
after insert, update
as
begin
       if @@ROWCOUNT=0 return;
       set nocount on;
       update Furnizori
       set Tara='Romania'
end
INSERT INTO Furnizori(idFurnizor, Nume, Adresa, Oras, CodPostal, Tara, NrTelefon) VALUES
(8, 'Ajax', '50 Gilbert St.', 'Munchen', 'EC1 4SE', 'Germania', '1715552992')

    Messages

                    Completion time: 2022-05-10T10:06:24.5481013+03:00
  idFurnizor
                  Nume
                         Adresa
                                      Oras
                                                CodPostal
                                                           Tara
                                                                     NrTelefon
        8
                          50 Gilbert St.
                                                EC1 4SE
                                                                     1715552992
                  Ajax
                                      Munchen
                                                           Romania
```

116. Creati un trigger care sa permita doar inserarea salariului brut mai mare de 2500 lei.

```
from Inserted i, Salariu s
  inner join FunctiiAngajati fa on fa.idFunctieAngajat=s.idFunctieAngajat
  inner join Angajati a on a.idAngajat=fa.idAngajat
  where s.SalariuBrut=i.SalariuBrut
  if(@salariu<2500)</pre>
  begin
     raiserror('Angajatul %s are salariul %d < 2500 lei',16,1,@nume,@salariu)</pre>
     rollback
        end
  else
   begin
     raiserror('Angajatul %s are salariul de %d lei',16,1,@nume,@salariu)
end
INSERT INTO
Salariu(idSalariu,idFunctieAngajat,SalariuBrut,DataIntrareVigoare,DataIesireVigoare)
VALUES
(15,7,1900, '2019-09-01', NULL)

    Messages

   Msg 50000, Level 16, State 1, Procedure TriggerSalariu, Line 20 [Batch Start Line 164]
   Angajatul Enache Sorin are salariul 1900 < 2500 lei
    (1 row affected)
   Completion time: 2022-05-10T10:39:47.2518920+03:00
```

117. Sa se verifice daca la introducerea numarului de telefon acesta contine 10 cifre.

```
if OBJECT ID('VerificareNrTelef','TR') is not null
drop trigger VerificareNrTelef
create trigger VerificareNrTelef
on Angajati
for insert, update

    Messages

as
                                            Commands completed successfully.
begin
  if @@rowcount=0 return;
  set nocount on;
                                            Completion time: 2022-05-10T10:54:52.7143932+03:00
  declare @nrTelef nvarchar(11)
  select @nrTelef=i.NrTelefon
  from Angajati a,inserted i
  where i.NrTelefon=a.NrTelefon
  if(len(@nrTelef)>10)
```

```
begin
   raiserror('Nr de telefon %s este invalid',16,1,@nrTelef)
       rollback
   end
 else
  begin
   raiserror('Nr de telefon %s este valid',16,1,@nrTelef)
  end
end
INSERT INTO Angajati(idAngajat,idService,Nume,Prenume,Adresa,Oras,DataNastere,NrTelefon)
VALUES
(51,5,'Popescu','Vlad','str. Dunarea, nr. 6','Slatina','1995-11-11','0735333344555')

    Messages

   Msg 50000, Level 16, State 1, Procedure VerificareNrTelef, Line 17 [Batch Start Line 199]
   Nr de telefon 07353333445 este invalid
   Msg 3609, Level 16, State 1, Line 201
   The transaction ended in the trigger. The batch has been aborted.
   Completion time: 2022-05-10T10:56:35.7052304+03:00
  118. Sa se creeze un trigger care la inserarea unei piese acesteia sa i se scada pretul
cu 10 lei.
if OBJECT_ID('ScaderePretPiesa','TR') is not null
drop trigger ScaderePretPiesa
go
create trigger ScaderePretPiesa

    Messages

on Categorie
after insert
                                            Commands completed successfully.
as
begin
                                            Completion time: 2022-05-10T11:11:18.4718007+03:00
  if @@ROWCOUNT=0 return;
  set nocount on;
 update Categorie
  set Pret+=10
  from inserted
 where Categorie.Pret=inserted.Pret
                                                   end
                                                        idCategorie
                                                                              Pret
                                                                                      Cantitate
                                                                    Tip
INSERT INTO
                                                        12
                                                                    Anvelope
                                                                              260.00
                                                                                      100
Categorie(idCategorie,Tip,Pret,Cantitate)
VALUES
(12, 'Anvelope', 250, 100)
select * from Categorie
where Tip='Anvelope'
```

119. Sa se creeze un declansator care dupa stergerea unei valori din tabelul Reparatii sa afiseze un mesaj corespunzator.

```
if OBJECT_ID('StergereReparatii','TR') is not null
drop trigger StergereReparatii
create trigger StergereReparatii
on Reparatii
after delete
 print 'A fost efectuata stergerea din tabelul Reparatii'

    Messages

                 Commands completed successfully.
                 Completion time: 2022-05-10T11:26:17.3186618+03:00
INSERT INTO Reparatii(idReparatie,idProgramare,idPiesa,Defectiune,Taxa,Manopera) VALUES
(17,6,20, 'Schimbare filtre', 0.1,10)
delete from Reparatii
where idReparatie=17

    Messages

              A fost efectuata stergerea din tabelul Reparatii
               (1 row affected)
              Completion time: 2022-05-10T11:27:05.8363175+03:00
```

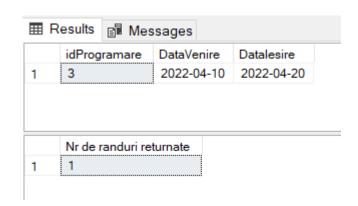
9. Rezolvarea cerintelor legate de STORED PROCEDURES

120. Creati o procedura care presupune aflarea unei programari intr-un anumit interval de zile.

```
if OBJECT ID('IntervalProgramari', 'P') is not null
drop procedure IntervalProgramari;
create procedure IntervalProgramari
       @inceput as datetime='19000101',
       @sfarsit as datetime = '99991231',
       @idProg as int,
       @numRows as int = 0 output
as
begin
       select idProgramare, DataVenire, DataIesire
       from Programari
       where @idProg=idProgramare and DataVenire>=@inceput and DataIesire<=@sfarsit;</pre>
       set @numRows=@@ROWCOUNT
       return;
end
                🗊 Messages
                   Commands completed successfully.
                   Completion time: 2022-05-10T20:15:55.8301390+03:00
```

```
declare @numRowsReturned as int;

exec IntervalProgramari
    @idProg='3',
    @inceput='2021-01-01',
    @sfarsit='2022-05-01',
    @numRows=@numRowsReturned output;
select @numRowsReturned as 'Nr de randuri
returnate'
```



121. Creati o procedura stocata care sa efectueze o reducere de x % pentru toate produsele din categoria y.

```
select * into Categorie2
from Categorie
                                      Messages
select * from Categorie2
if OBJECT_ID('ReducerePret','P') is
                                          Commands completed successfully.
not null
drop procedure ReducerePret
                                         Completion time: 2022-05-10T20:48:46.5457640+03:00
create procedure ReducerePret
      @procent float=0.3,
      @categorie nvarchar(32)='Vopsea',
      @rows int=0 output
as
begin
      update c
      set c.Pret=c.Pret-@procent*c.Pret
      from Categorie2 c
      inner join Categorie cat on c.idCategorie=cat.idCategorie
      where @categorie=cat.Tip
set @rows=@@ROWCOUNT;
end
                                                 Pret
                                                                                Cantitate
                                                      idCategorie
                                                                  Tip
exec ReducerePret
                                                                  Vopsea
                                                                          0.01
                                                                                400
select * from Categorie2
where Categorie2.Tip='Vopsea'
```

122. Creati o procedura stocata care sa afiseze toate campurile din tabela Angajati al caror nume incepe cu 'M' si au varsta peste 27 de ani.

```
if OBJECT_ID('VarstaAngajati','P') is not null
drop procedure VarstaAngajati
go
create procedure VarstaAngajati
as
select *
from Angajati
as Varsta
where Nume like'M%' and

DATEDIFF(year, DataNastere, current_timestamp)>27
exec VarstaAngajati
Commands completed successfully.
Completion time: 2022-05-10T23:14:43.9682882+03:00

DATEDIFF(year, DataNastere, current_timestamp)>27
exec VarstaAngajati
```

⊞ F	Results		Messages						
	idAnga	ajat	idService	Nume	Prenume	Adresa	Oras	DataNastere	NrTelefon
1	8		1	Munteanu	Adrian	str. Carpati, nr. 897	Ploiesti	1985-02-28	0721929239
2	11	•	2	Munteanu	George	str. Zeicani, nr. 2	Predeal	1987-03-28	0789900988

123. Sa se creeze o procedura cu parametru care permite vizualizarea angajatilor cu functia de 'Manager' de la un anumit service prin transmiterea parametrului denumire oras service.

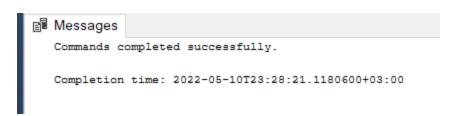
```
if OBJECT_ID('AngajatiManager','P') is not null
drop procedure AngajatiManager
create procedure AngajatiManager @service nvarchar(32)
      select a.Nume+' '+a.Prenume as Angajati, f.Denumire as Functie
      from Angajati a
      inner join Service s on a.idService=s.idService
      inner join FunctiiAngajati fa on fa.idAngajat=a.idAngajat
      inner join Functii f on f.idFunctie=fa.idFunctie
      where f.Denumire='manager' and s.Oras=@service

    Messages

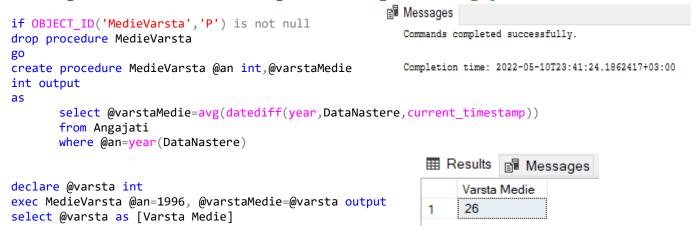
             Commands completed successfully.
             Completion time: 2022-05-10T23:21:32.5664845+03:00
exec AngajatiManager @service='Timisoara'
                      Functie
                           Dima Cosmin
                                        Manager
```

124. Sa se creeze o procedura prin care se vor afisa toti angajatii care au acelasi salariu. Salariul va fi transmis ca parametru.

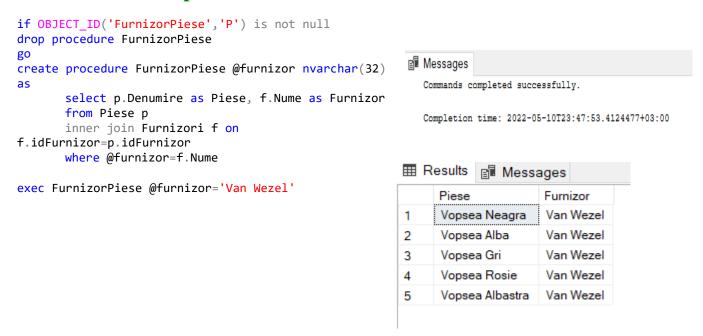




125.Sa se creeze o procedura care va permite vizualizarea varstei medii pentru un an trimis ca parametru pentru angajati.



126. Creati o procedura care sa afiseze toate piesele livrate de un furnizor trimis ca parametru.



127. Sa se afiseze nr. de inmatriculare al masinilor inregistrate intr-un service trimis ca parametru al procedurii, numele proprietarului, numele orasului service-ului in care se afla inregistrat si defectiunile vehicului.

```
if OBJECT_ID('DetaliiReparatii','P') is not null
drop procedure DetaliiReparatii
create procedure DetaliiReparatii @service nvarchar(32)
       select p.Nume+' '+p.Prenume as Proprietar, ap.NrInmatriculare, s.Oras, r.Defectiune
       from Proprietar p
       inner join AutovehiculeProprietar ap on p.idProprietar=ap.idProprietar
       inner join Programari prog on prog.idProprietate=ap.idProprietate
       inner join Service s on s.idService=prog.idService
       inner join Reparatii r on r.idProgramare=prog.idProgramare
       where @service=s.Oras
exec DetaliiReparatii @service='Ploiesti'

    Messages

               Commands completed successfully.
               Completion time: 2022-05-10T23:55:07.3660732+03:00
          Proprietar
                                  Nrlnmatriculare
                                                 Oras
                                                         Defectione
                                  PX03BRB
                Barbu Georgiana
                                                 Ploiesti
                                                         Schimb ulei
          2
                                  PX03BRB
                                                         Schimb ulei
                Barbu Georgiana
                                                 Ploiesti
                SOARE OCTAVIAN
                                  PH18SUN
                                                         Inlocuire baterie auto
          3
                                                 Ploiesti
                Ilie Roxana
                                  PH01RXV
                                                 Ploiesti
                                                         Schimbare filtre
                Ilie Roxana
                                                         Schimbare filtre
          5
                                  PH01RXV
                                                 Ploiesti
                Ilie Roxana
                                  PH01RXV
                                                         Schimbare filtre
          6
                                                 Ploiesti
```

128. Sa se creeze o procedura stocata care creste manopera cu x lei daca aceasta este mai mica decat y lei.

```
if OBJECT_ID('CrestereManopera','P') is not null
drop procedure CrestereManopera
go
create procedure CrestereManopera @x int,@y int
as
          update r
          set r.Manopera+=@x
          from Reparatii r
```

```
Messages

Commands completed successfully.

Completion time: 2022-05-11T00:08:52.2586937+03:00
```

129. Creati o procedura stocata care afiseaza toti angajatii din orasul Bucuresti si al caror nr. de telefon se termina cu cifra 2.

```
if OBJECT_ID('AngajatiBucuresti','P') is not null

    Messages

drop procedure AngajatiBucuresti
                                                             Commands completed successfully.
create procedure AngajatiBucuresti
                                                             Completion time: 2022-05-11T00:16:18.2075239+03:00
       select a.Nume+' '+a.Prenume as
Angajati,a.Oras
       from Angajati a
                                                                    where a.Oras='Bucuresti' and a.NrTelefon like '%2'
                                                                                    Oras
                                                                        Angajati
                                                                        Darie George
                                                                                    Bucuresti
exec AngajatiBucuresti
                                                                                    Bucuresti
                                                                         Radu Codrut
```

130. Creati o procedura stocata care sa afiseze angajatii nascuti in luna februarie, august, octombrie sau decembrie, ordonati crescator dupa anul nasterii.

```
if OBJECT_ID('LunaNastere','P') is not null
drop procedure LunaNastere
go
create procedure LunaNastere
as
          select *
          from Angajati a
          where DATEPART(m,a.DataNastere) IN
(2,8,10,12)
          order by DATEPART(year,a.DataNastere) asc

exec LunaNastere

Messages
Commands completed successfully.
Completion time: 2022-05-11T00:22:42.8194854+03:00
asc
exec LunaNastere
```

Ⅲ F	Results 📳	Messages	6					
	idAngajat	idService	Nume	Prenume	Adresa	Oras	DataNastere	NrTelefon
1	3	1	Badic	Mihai	str. Plopeni, nr. 9	Paulesti	1974-02-15	0767676767
2	20	2	Timoftei	Radu	str. Bucurei, nr. 9	Brasov	1974-02-15	0723472476
3	30	3	Popovici	Andrei	str. Ciubarului, nr. 79	Balotesti	1974-02-15	0723572476
4	40	4	Popescu	Vlad	str. Paunului, nr. 739	Timisoara	1974-02-15	0763586476
5	35	4	David	lonut	str. Raureni, nr. 85	Timisoara	1980-08-17	0789637153
6	25	3	David	Alexandru	str. Luica, nr. 8	Balotesti	1980-12-08	0789624153
7	28	3	Popescu	Cornel	str. Odei, nr. 1	Bucuresti	1981-02-02	0789187656
8	18	2	Ursachi	Robert	str. Mierei, nr. 12A	Busteni	1981-02-02	0789987656
9	38	4	lonescu	Corneliu	str. Semanatorului,	Timisoara	1981-02-22	078913256
10	37	4	Petre	Victoras	str. Radacinei, nr. 81	Timisoara	1983-12-30	0723315661
11	17	2	Voicu	Violeta	str. Garofitei, nr. 18	Brasov	1983-12-27	0723445665
12	27	3	Petrea	Victor	str. Scropoasa, nr. 8	Gherghita	1983-12-27	0723435665
13	8	1	Munte	Adrian	str. Carpati, nr. 897	Ploiesti	1985-02-28	0721929239
14	44	5	Tudose	Mihai	str. Doina, nr. 18	Constanta	1987-12-23	0734343334
15	49	5	lordache	Dragos	str. Barnova, nr. 277	Constanta	1988-12-30	0756678388
16	12	2	Radu	Serghei	str. Prasilei, nr. 178	Brasov	1990-02-14	0756776589
17	16	2	Voncila	lonel	str. Soarelui, nr. 456	Brasov	1996-12-13	0788888888
18	26	3	Miclaus	Marian	str. Zanoaga, nr. 46	Bucuresti	1996-12-13	0788778888
19	36	4	Miclaus	Marin	str. Docuri, nr. 63	Timisoara	1996-12-11	0788677833
20	33	4	Soare	Octavian	str. Morii, nr. 70	Timisoara	1997-08-05	0753599789
21	7	1	Enache	Sorin	str. Crisu Alb, nr. 2	Albesti	1998-02-17	0737834155
22	21	3	Dima	Stefan	str. Urziceni, nr. 18	Bragadiru	1998-02-17	0721314151

10. Rezolvarea cerintelor legate de TRANSACTIONS

131. Creati o tranzactie care presupune inserarea unui nou service si afisarea acestuia.

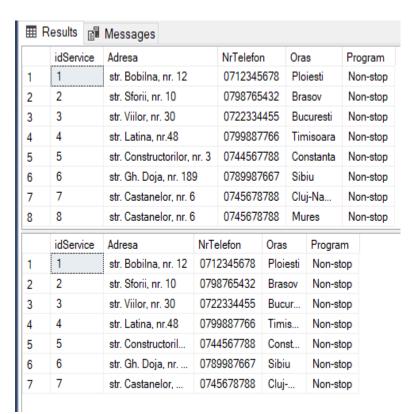
	idService	Adresa	NrTelefon	Oras	Program
1	1	str. Bobilna, nr. 12	0712345678	Ploiesti	Non-stop
2	2	str. Sforii, nr. 10	0798765432	Brasov	Non-stop
3	3	str. Viilor, nr. 30	0722334455	Bucur	Non-stop
4	4	str. Latina, nr.48	0799887766	Timis	Non-stop
5	5	str. Constructoril	0744567788	Const	Non-stop
6	6	str. Gh. Doja, nr	0789987667	Sibiu	Non-stop
7	7	str. Castanelor,	0745678788	Cluj	Non-stop

132. Creati o tranzactie care presupune inserarea unei inregistrari in tabelul service pe care apoi o va elimina.

```
from service
                delete from Service
                where idService=8
                select *
                from service
       commit tran
end try
begin catch
       if ERROR NUMBER()=2627
         begin
              print 'Primary key violation';
         end
       else if ERROR NUMBER()=547
              begin
                     print 'Constraint
violation';
    end
       else
              begin
                     print 'Unhandled error';
       end
if @@TRANCOUNT>0
```

rollback tran;

end catch



133. Creati o tranzactie care presupune inserarea unui noi autovehicul si modificarea culorii acestuia.

```
begin try
       begin tran
              insert into
Autovehicul(idAutovehicul, Categorie, Model, Culoare, Carburant, NrKm, PutereMotor, SerieSasiu)
VALUES
              (12, 'Autoturism', 'Opel
Astra', 'Auriu', 'Motorina', '180.000', 100, 'SKES111ER5CP00111')
              INSERT INTO
AutovehiculeProprietar(idProprietate,idProprietar,idAutovehicul,NrInmatriculare) VALUES
              (12,6,12, 'CT13CSR')
              select *
              from Autovehicul
              select *
              from AutovehiculeProprietar
              update Autovehicul
              set Culoare='Gri'
              where idAutovehicul=12
```

if @@TRANCOUNT>0
 rollback tran;
end catch
select *
from Autovehicul

	idAutovehicul	Categorie	Model	Culoare	Carburant	NrKm	PutereMotor	SerieSasiu
1	1	Autoturism	Peugeot 508	Negru	Benzina	198.123	112	AB01CDE34F1234567
2	2	Autoturism	BMW Seria 3	Argintiu	Motorina	203.125	180	WCDYC7CF8DX20185
3	3	Autoturism	Audi A5	Maro	Motorina	245.560	195	WBAGG83461DN8119
4	4	Motocicleta	Honda VFR 800x	Alb	Motorina	150.255	102	JH2PC35051M200020
5	5	Autoturism	Volkswagen Passat CC	Maro	Benzina	199.000	170	1G1YY24UX5X7120EX
6	6	Autoturism	Skoda Octavia	Verde	Motorina	178.980	115	WAULC68E92A140677
7	7	Autoturism	Citroen C4	Rosu	Electric	150.000	120	1HGBH41JXMN10918
8	8	Autoturism	Audi Q7	Albastru	Motorina	50.000	286	LJCPCBLCX11000237
9	9	Autoturism	Mercedes GLC	Alb	Benzina	103.520	194	SGES000EX5CRC019
10	10	Autoturism	Peugeot 308	Negru	Benzina	256.000	108	WF04XXGBB4YS8543
11	11	Autoturism	Dacia Logan	Negru	Motorina	190.520	100	SKES030ER5CP0018
12	12	Autoturism	Opel Astra	Auriu	Motorina	180.000	100	SKES111ER5CP0011

	idAutovehicul	Categorie	Model	Culoare	Carburant	NrKm	PutereMotor	SerieSasiu
1	1	Autoturism	Peugeot 508	Negru	Benzina	198.123	112	AB01CDE34F1234567
2	2	Autoturism	BMW Seria 3	Argintiu	Motorina	203.125	180	WCDYC7CF8DX201851
3	3	Autoturism	Audi A5	Maro	Motorina	245.560	195	WBAGG83461DN81194
4	4	Motocicleta	Honda VFR 800x	Alb	Motorina	150.255	102	JH2PC35051M200020
5	5	Autoturism	Volkswagen Passat CC	Maro	Benzina	199.000	170	1G1YY24UX5X7120EX
6	6	Autoturism	Skoda Octavia	Verde	Motorina	178.980	115	WAULC68E92A140677
7	7	Autoturism	Citroen C4	Rosu	Electric	150.000	120	1HGBH41JXMN109186
8	8	Autoturism	Audi Q7	Albastru	Motorina	50.000	286	LJCPCBLCX11000237
9	9	Autoturism	Mercedes GLC	Alb	Benzina	103.520	194	SGES000EX5CRC0199
10	10	Autoturism	Peugeot 308	Negru	Benzina	256.000	108	WF04XXGBB4YS85432
11	11	Autoturism	Dacia Logan	Negru	Motorina	190.520	100	SKES030ER5CP00189
12	12	Autoturism	Opel Astra	Gri	Motorina	180.000	100	SKES111ER5CP00111

134. Creati o tranzactie prin intermediul careia sa modificati pretul pieselor care depasesc 100 lei cu 10 lei. Pentru fiecare piesa afisati categoria si furnizorul acesteia.

```
begin try
       begin tran
       --inainte de modif
           select p.Denumire as Piesa, c.Tip
as Categorie, f.Nume as Furnizor,c.Pret
              from Categorie c
              inner join Piese p on
c.idCategorie=p.idCategorie
              inner join Furnizori f on
f.idFurnizor=p.idFurnizor
              update c
              set c.Pret+=10
              from Categorie c
              where c.Pret>100
              select p.Denumire as Piesa,
c.Tip as Categorie, f.Nume as
Furnizor, c. Pret
              from Categorie c
              inner join Piese p on
c.idCategorie=p.idCategorie
              inner join Furnizori f on
f.idFurnizor=p.idFurnizor
    commit tran
end try
begin catch
       if @@TRANCOUNT > 0
              rollback tran;
```

	Piesa	Categorie	Furnizor	Pret
1	Ulei motor	Ulei	Total	60.00
2	Suruburi metrice	Suruburi	Ridex	5.00
3	Vopsea Neagra	Vopsea	Van W	35.00
4	Vopsea Alba	Vopsea	Van W	35.00
5	Vopsea Gri	Vopsea	Van W	35.00
6	Vopsea Rosie	Vopsea	Van W	35.00
7	Vopsea Albastra	Vopsea	Van W	35.00
8	Radiator de rac	Radiator	Ridex	100.00
9	Bujii	Bujii	Bosch	70.00
10	Antigel	Antigel	Mann	170.00
11	Parbriz	Parbriz	Stark	820.00
12	Geamuri laterale	Parbriz	Stark	820.00
13	Luneta	Parbriz	Stark	820.00
14	Acumulator auto	Baterii	Bosch	370.00
15	Becuri auto	Becuri	A.B.S.	10.00
16	Furtun	Furtun	Mann	45.00
17	Filtru polen	Filtre	Mann	100.00
18	Filtru aer	Filtre	Mann	100.00
19	Filtru ulei	Filtre	Mann	100.00
20	Filtru combustibil	Filtre	Mann	100.00

end catch

■ R	esults ⊵≣ M	Messa	nes				
	Piesa	Cate	_	Furni	zor	Pret	
1	Ulei motor	Ulei		Tota		60.00)
2	Suruburi	Suru	buri	Ride	x	5.00	
3	Vopsea	Vops	ea	Van	W	35.00	0
4	Vopsea	Vops	ea	Van '	W	35.00	0
5	Vopsea	Vops	ea	Van '	W	35.00	0
6	Vopsea	Vops	ea	Van '	W	35.00	0
7	Vopsea	Vops	ea	Van	W	35.00	0
8	Radiator	Radi	ator	Ride	×	100	
9	Bujii	Bujii		Boso	:h	70.00	0
10	Antigel	Antig	el	Man	n	160	-
11	Parbriz	Parb	riz	Stark	c	810	
12	Geamuri	Parb	riz	Stark		810	
13	Luneta	Parb	riz	Stark		810	
14	Acumula Bater		rii	Bosch 360.		360	
15	Becuri a Becu		ıri	A.B.S	3.	10.00	0
16	Furtun	Furtun Furtu		Man	n	45.00	0
17	Filtru pol	Filtre		Man	n	100	-
18	Filtru aer	Filtre		Man	n	100	
19	Filtru ulei	Filtre		Man	n	100	-
20	Filtru co	Filtre		Man	n	100	-
	(No column	name)					
1	820.00						
	Piesa		Cateo	orie	Fun	nizor	Pret
1	Ulei motor		Ulei		Tot	al	60.00
2	Suruburi me	etrice	Surul	buri	Rid	ex	5.00
3	Vopsea Nea	igra	Vops	ea	Var	W	35.00
4	Vopsea Alba	1	Vops	ea	Var	W	35.00
5	Vopsea Gri		Vops	ea	Var	W	35.00
6	Vopsea Ros	ie	Vops	ea	Var	W	35.00
7	Vopsea Alba	astra	Vops	ea	Var	W	35.00

Radiator

Bujii

Antigel

Parbriz

Parbriz

Ridex

Bosch

Stark

Stark

Mann ...

100.00

70.00

170.00

820.00

820.00

8

9

10

11

12

Radiator de rac...

Geamuri laterale

Bujii

Antigel

Parbriz

135. Sa se creeze o tranzactie care introduce o noua inregistrare in tabelul Furnizori, modifica tara ca fiind Franta si apoi sterge inregistrarea.

```
begin try
      begin tran
              INSERT INTO Furnizori(idFurnizor,Nume,Adresa,Oras,CodPostal,Tara,NrTelefon)
VALUES
              (9, 'AXI', 'str. Principala, nr.
759A', 'Ploiesti', '107160', 'Romania', '0737834152')
              select *
              from Furnizori
              update f
              set f.Tara='Franta'
              from Furnizori f
              where idFurnizor=9
              select *
              from Furnizori
              delete from Furnizori
              where Tara='Franta'
              select *
              from Furnizori
       commit tran
end try
begin catch
       if ERROR_NUMBER()=2627 --eroare pt dubluri chei
         begin
              print 'Primary key violation';
         end
       else if ERROR_NUMBER()=547 --eroare pt constrangere
                     print 'Constraint violation';
    end
       else
              begin
                     print 'Unhandled error';
       end
if @@TRANCOUNT>0
   rollback tran;
```

end catch

	idFurnizor	Nume		Adresa		Oras	CodPostal	Tara	NrTele	efon
2	2	Bosch		49 Gilbert St.		Munchen	EC1 4SD	Romania	17155	552222
3	3	A.B.S.		Josef-Orlopp-S	Strabe 55	Berlin	10365	Romania	03163	302230
4	4	Ridex		92 Setsuko Ch	uo-ku	Osaka	545	Romania	06431	7877
5	5	Stark		Kaloadagatan	13	Göteborg	S-345 67	Romania	03198	376543
6	6	Van We	zel	Tiergartenstra	ße 5	Berlin	10785	Romania	01099	984510
7	7	Mann F	ilter	Sales Represe	entative	Ravenna	48100	Romania	05446	0323
8	8	Ajax		50 Gilbert St.		Munchen	EC1 4SE	Romania	17155	552992
9	9	AXI		str. Principala,	nr. 759A	Ploiesti	107160	Romania	07378	34152
	idFurnizor Nume Adre		esa	Oras	CodPosta	al Tara	NrTelefor	1		
2	2	Bosch	49 (Gilbert St.	Munchen	EC1 4SD	Romania	1715552	222	
3	3	A.B.S.	Jos	ef-Orlopp-Str	Berlin	10365	Romania	0316302	230	
4	4	Ridex	92 \$	Setsuko Chu	Osaka	545	Romania	0643178	77	
5	5	Stark	Kal	oadagatan 13	Göteborg	S-345 67	Romania	0319876543		
6	6	Van	Tier	gartenstraße	Berlin	10785	Romania	0109984	510	
7	7	Man	Sale	es Represen	Ravenna	48100	Romania	0544603	23	
8	8	Ajax	50 (Gilbert St.	Munchen	EC1 4SE	Romania	1715552	992	
9	9	AXI	str.	Principala, n	Ploiesti	107160	Franta	0737834	152	
	idFurnizor	Nume	Adre	esa	Oras	CodPosta	al Tara	NrTelefor	1	
1	1	Total	str.	Stejarilor, nr. 2	Brasov	507055	Romania	0268401	711	
2	2	Bosch	49 (Gilbert St.	Munchen	EC1 4SD	Romania	1715552	222	
3	3	A.B.S.	Jos	ef-Orlopp-Str	Berlin	10365	Romania	0316302	230	
4	4	Ridex	92 \$	Setsuko Chu	Osaka	545	Romania	0643178	77	
5	5	Stark	Kale	oadagatan 13	Göteborg	S-345 67	7 Romania	0319876	543	
6	6	Van	Tier	gartenstraße	Berlin	10785	Romania	0109984	510	
7	7	Man	Sale	es Represen	Ravenna	48100	Romania	0544603	23	
8	8	Ajax	50 0	Gilbert St.	Munchen	EC1 4SE	Romania	1715552	992	

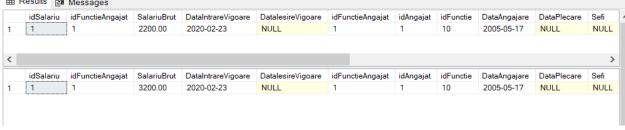
136. Creati o tranzactie care sa mareasca salariul patronului cu 1000 lei.

```
begin try
  begin tran

select *
    from Salariu s
    inner join FunctiiAngajati fa on fa.idFunctieAngajat=s.idFunctieAngajat
    inner join Angajati a on a.idAngajat=fa.idAngajat
    inner join Functii f on fa.idFunctie=f.idFunctie
    where f.Denumire='Patron'

update s
    set s.SalariuBrut+=1000
    from Salariu s
    inner join FunctiiAngajati fa on fa.idFunctieAngajat=s.idFunctieAngajat
```

```
inner join Angajati a on a.idAngajat=fa.idAngajat
             inner join Functii f on fa.idFunctie=f.idFunctie
             where f.Denumire='Patron'
             select *
             from Salariu s
             inner join FunctiiAngajati fa on fa.idFunctieAngajat=s.idFunctieAngajat
             inner join Angajati a on a.idAngajat=fa.idAngajat
             inner join Functii f on fa.idFunctie=f.idFunctie
             where f.Denumire='Patron'
      commit tran
end try
begin catch
if @@TRANCOUNT>0
  rollback tran;
end catch
```



137. Scrieti o tranzactie care sa adauge un nou angajat in baza de date. Daca id-ul este deja existent, gestionati eroarea.

```
begin try
       begin tran
              INSERT INTO
Angajati(idAngajat,idService,Nume,Prenume,Adresa,Oras,DataNastere,NrTelefon) VALUES
(46,5, 'Lascuzeanu', 'Daniel', 'str. Dunavat, nr. 66', 'Jupiter', '1995-11-11', '0735333344')
    commit tran
end try
begin catch
       if ERROR NUMBER()=2627 --eroare pt

    Messages

dubluri chei
         begin
              print 'Primary key violation';
                                                       (0 rows affected)
                                                      Primary key violation
       else if ERROR NUMBER()=547 --eroare pt
                                                      Completion time: 2022-05-11T11:31:54.2833012+03:00
constrangere
              begin
                     print 'Constraint
violation';
    end
```

138. Scrieți o tranzacție în care să inserați două rânduri și să modificați alte trei rânduri la alegere în oricare din tabelele din baza de date Shop. Tratați cazurile de eroare.

```
begin try
       begin tran
              insert into
Autovehicul(idAutovehicul, Categorie, Model, Culoare, Carburant, NrKm, PutereMotor, SerieSasiu)
VALUES
              (13, 'Autoturism', 'Skoda Octavia
II', 'Gri', 'Motorina', '180.000', 100, 'SKEI111ER5CP03311'),
              (14, 'Autoturism', 'BMW Seria
1','Auriu','Benzina','180.000',100,'SKES111ER5CP06969')
              select * from Autovehicul
              update a
              set a.NrKm='185.000'
              from Autovehicul a
              where a.NrKm='180.000'
              select * from Autovehicul
       commit tran
end try
begin catch
       if ERROR_NUMBER()=2627 --eroare pt dubluri chei
         begin
              print 'Primary key violation';
       else if ERROR NUMBER()=547 --eroare pt constrangere
              begin
                     print 'Constraint violation';
    end
       else
              begin
                     print 'Unhandled error';
       end
if @@TRANCOUNT>0
   rollback tran;
end catch
```

⊞R	Results Messages									
7	7	Autoturism	Citroen C4	Rosu	Electric	150.000	120	1HGBH41JXMN109186		
8	8	Autoturism	Audi Q7	Albastru	Motorina	50.000	286	LJCPCBLCX11000237		
9	9	Autoturism	Mercedes GLC	Alb	Benzina	103.520	194	SGES000EX5CRC0199		
10	10	Autoturism	Peugeot 308	Negru	Benzina	256.000	108	WF04XXGBB4YS85432		
11	11	Autoturism	Dacia Logan	Negru	Motorina	190.520	100	SKES030ER5CP00189		
12	12	Autoturism	Opel Astra	Gri	Motorina	180.000	100	SKES111ER5CP00111		
13	13	Autoturism	Skoda Octavia II	Gri	Motorina	180.000	100	SKEI111ER5CP03311		
14	14	Autoturism	BMW Seria 1	Auriu	Benzina	180.000	100	SKES111ER5CP06969		

	idAutovehicul	Categorie	Model	Culoare	Carburant	NrKm	PutereMotor	SerieSasiu
1	1	Autoturism	Peugeot 508	Negru	Benzina	198.123	112	AB01CDE34F1234567
2	2	Autoturism	BMW Seria 3	Argintiu	Motorina	203.125	180	WCDYC7CF8DX201851
3	3	Autoturism	Audi A5	Maro	Motorina	245.560	195	WBAGG83461DN81194
4	4	Motocicl	Honda VFR	Alb	Motorina	150.255	102	JH2PC35051M200020
5	5	Autoturism	Volkswage	Maro	Benzina	199.000	170	1G1YY24UX5X7120EX
6	6	Autoturism	Skoda Octa	Verde	Motorina	178.980	115	WAULC68E92A140677
7	7	Autoturism	Citroen C4	Rosu	Electric	150.000	120	1HGBH41JXMN109186
8	8	Autoturism	Audi Q7	Albastru	Motorina	50.000	286	LJCPCBLCX11000237
9	9	Autoturism	Mercedes	Alb	Benzina	103.520	194	SGES000EX5CRC0199
10	10	Autoturism	Peugeot 308	Negru	Benzina	256.000	108	WF04XXGBB4YS85432
11	11	Autoturism	Dacia Logan	Negru	Motorina	190.520	100	SKES030ER5CP00189
12	12	Autoturism	Opel Astra	Gri	Motorina	185.000	100	SKES111ER5CP00111
13	13	Autoturism	Skoda Octa	Gri	Motorina	185.000	100	SKEI111ER5CP03311
14	14	Autoturism	BMW Seria 1	Auriu	Benzina	185.000	100	SKES111ER5CP06969

139. Scieti o tranzactie care sa introudca o noua functie pentru angajati.

```
begin try
       begin tran
              INSERT INTO Functii(idFunctie,Denumire) VALUES (10,'Femeie serviciu')
    commit tran
end try
begin catch
       if ERROR_NUMBER()=2627 --eroare pt dubluri chei
         begin
              print 'Primary key violation';
       else if ERROR_NUMBER()=547 --eroare pt

    Messages

constrangere
              begin
                                                     (O rows affected)
                     print 'Constraint
                                                     Primary key violation
violation';
    end
                                                     Completion time: 2022-05-11T14:32:06.1216807+03:00
       else
              begin
                     print 'Unhandled error';
       end
if @@TRANCOUNT>0
```

```
rollback tran;
end catch
```

140. Scrieti o tranzactie care sa scrie cu majuscule orasul tuturor angajatilor care apartin de service-ul din Bucuresti.

```
begin try
       begin tran
       --inainte de modif
           select *
              from Angajati a
              inner join Service s on s.idService=a.idService
              where a.idService=3
              update a
              set a.Oras=UPPER(a.Oras)
              from Angajati a
              inner join Service s on s.idService=a.idService
              where a.idService=3
              select *
              from Angajati a
              inner join Service s on s.idService=a.idService
              where a.idService=3
    commit tran
end try
begin catch
       if @@TRANCOUNT > 0
              rollback tran;
end catch
```

	idAngajat	idService	Nume	Prenume	Adresa	Oras	DataNastere	NrTelefon
1	21	3	Dima	Stefan	str. Urziceni, nr. 18	BRAGADIRU	1998-02-17	0721314151
2	22	3	Darie	George	str. Resita, nr. 8	BUCURESTI	1994-06-19	0742526272
3	23	3	Herdea	Adrian	str. Stelelor, nr. 780	PIPERA	1997-03-06	0753599787
4	24	3	Radu	Codrut	str. Principala, nr. 5	BUCURESTI	1992-01-05	0789858412
5	25	3	David	Alexandru	str. Luica, nr. 8	BALOTESTI	1980-12-08	0789624153
6	26	3	Miclaus	Marian	str. Zanoaga, nr. 46	BUCURESTI	1996-12-13	0788778888
7	27	3	Petrea	Victor	str. Scropoasa, nr. 8	GHERGHITA	1983-12-27	0723435665
8	28	3	Popescu	Cornel	str. Odei, nr. 1	BUCURESTI	1981-02-02	0789187656
9	29	3	Purcaru	Emil	str. Pogoanele, nr. 83	PIPERA	1996-04-21	0731122231
10	30	3	Popovici	Andrei	str. Ciubarului, nr. 79	BALOTESTI	1974-02-15	0723572476

11. Rezolvarea cerintelor legate de UPDATE

141. Sa se actualizeze programul de lucru al service-ului cu program 'Inchis' ca fiind 'Non-stop'.

```
select *
from Service s
where s.Program='Inchis'

update Service
set Service.Program='Non-stop'
where Service.Program='Inchis'
(1 row affected)
```

142. Sa se mareasca toate salariilor angajatilor cu functia de 'Manager' cu 1000lei.

```
select s.SalariuBrut
from FunctiiAngajati fa
inner join Functii f on fa.idFunctie=f.idFunctie
inner join Salariu s on s.idFunctieAngajat=fa.idFunctieAngajat
where f.Denumire='Manager'

update s
set s.SalariuBrut+=1000
from FunctiiAngajati fa
inner join Functii f on fa.idFunctie=f.idFunctie
inner join Salariu s on s.idFunctieAngajat=fa.idFunctieAngajat
where f.Denumire='Manager'

Results Messages

(2 rows affected)
```

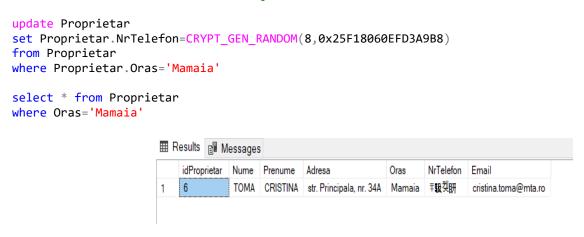
143. Actualizati tabelul 'Proprietar' astfel incat celor care le-a fost reparata masina sa aiba numele scris cu majuscule.

```
select prop.Nume,prop.Prenume
from AutovehiculeProprietar as ap
inner join Programari p on ap.idProprietate=p.idProprietate
inner join Proprietar prop on ap.idProprietar=prop.idProprietar
where p.DataIesire is not null

update prop
set prop.Nume=UPPER(prop.Nume),prop.Prenume=UPPER(prop.Prenume)
from AutovehiculeProprietar as ap
inner join Programari p on ap.idProprietate=p.idProprietate
inner join Proprietar prop on ap.idProprietar=prop.idProprietar
```



144. Sa se actualizeze tabelul "Proprietar" astfel incat numarul de telefon al proprietarilor din orasul "Mamaia" sa fie un numar random hexazecimal de 8 bytes.



145. Modificati pretul pieselor care depasesc 100 lei cu 10 lei. Pentru fiecare piesa afisati categoria si furnizorul acesteia.

```
select p.Denumire as Piesa, c.Tip as Categorie, f.Nume as Furnizor,c.Pret
from Categorie c
inner join Piese p on c.idCategorie=p.idCategorie
inner join Furnizori f on f.idFurnizor=p.idFurnizor

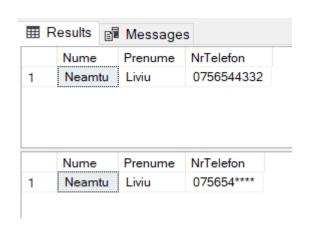
update c
set c.Pret+=10
from Categorie c
where c.Pret>100

select p.Denumire as Piesa, c.Tip as Categorie, f.Nume as Furnizor,c.Pret
from Categorie c
inner join Piese p on c.idCategorie=p.idCategorie
inner join Furnizori f on f.idFurnizor=p.idFurnizor
```

■ F	Results	₽ Messa	iges						
	Piesa			Catego	rie	Furnizor	F	Pret	
7	Vopse	a Albastra		Vopse	а	Van Wezel	;	35.00	
8	Radia	tor de racire	a	Radiat	or	Ridex		100.00	
9	Bujii			Bujii		Bosch	-	70.00	
10	Antige	I		Antige		Mann Fil		170.00	
11	Parbri	z		Parbriz	Z	Stark	1	820.00	
12	Geam	uri laterale		Parbriz	z	Stark	1	820.00	
13	Luneta	а		Parbriz	z	Stark	1	820.00	
14	Acum	ulator auto		Baterii		Bosch	1	370.00	
15	Becur	auto		Becuri		A.B.S.		10.00	
16	Furtur	1		Furtun		Mann Fil	4	45.00	
17	Filtru p	oolen		Filtre		Mann Fil		100.00	
18	Filtru a	aer		Filtre		Mann Fil		100.00	
19	Filtru ulei			Filtre		Mann Fil		100.00	
20	Filtru combustibil			Filtre		Mann Fil	Ŀ	100.00	
	Piesa Cate		egorie	Fun	nizor		Pret		
1	Ulei motor Ule		i	Tot	al		60.00		
2	Surub	uri metrice	Sur	uburi	Ric	lex		5.00	
3	Vopse	a Neagra	Vop	sea	Van Wezel			35.00	
4	Vopse	a Alba	Vop	sea	Van Wezel			35.00	
5	Vopse	a Gri	Vop	sea	Van Wezel			35.00	
6	Vopse	a Rosie	Vop	sea	Van Wezel			35.00	
7	Vopse	a Albastra	Vop	sea	Van Wezel			35.00	
8	Radia	tor de rac	Rad	diator	Ric	lex		100.00	
9	Bujii		Buj	ii	Bosch			70.00	
10	Antige	l .	Anti	igel	gel Mann Filter			180.00	
11	Parbri	z	Par	briz	Sta	rk		830.00	
12	Geam	uri laterale	Par	briz	Sta	rk		830.00	
13	Luneta	a	Par	briz	Sta	rk		830.00	
14	Acum	ulator auto	Bat	erii	Bos	sch		380.00	
15	Becur	i auto	Bed	curi	A.B	.S.		10.00	
16	Furtur	ı	Fur	tun	Ma	nn Filter		45.00	
17	Filtru p	oolen	Filtr	e	Ma	nn Filter		100.00	
18	Filtru a	aer	Filtr	e	Ma	nn Filter		100.00	

146. Pentru anagajatul cu functia de patron, sa i se codifice ultimele 4 cifre din numar cu caracterul '*'.

```
select a.Nume,a.Prenume,a.NrTelefon
from Angajati a
inner join FunctiiAngajati fa on fa.idAngajat=a.idAngajat
inner join Functii f on f.idFunctie=fa.idAngajat
where f.Denumire='Patron'
update a
set
a.NrTelefon=concat(SUBSTRING(a.NrTelefon,1,6),'****')
from Angajati a
inner join FunctiiAngajati fa on
fa.idAngajat=a.idAngajat
inner join Functii f on f.idFunctie=fa.idAngajat
where f.Denumire='Patron'
select a.Nume, a.Prenume, a.NrTelefon
from Angajati a
inner join FunctiiAngajati fa on
fa.idAngajat=a.idAngajat
inner join Functii f on f.idFunctie=fa.idAngajat
```



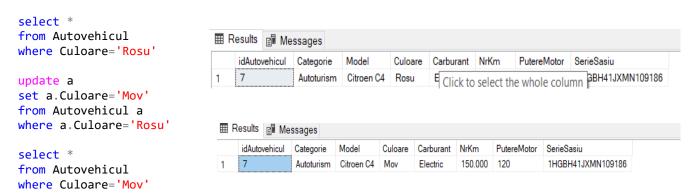
```
where f.Denumire='Patron'
```

147. Modificati tabela autovehicul astfel incat in fata acelora cu carburantul benzina sa apara caracaterul '#'.

```
update a
set a.Carburant=concat('#',a.Carburant)
from Autovehicul a
where a.Carburant='Benzina'
select *
from Autovehicul a
where a.Carburant='Benzina'
```

Ⅲ F	Results 🗐 Me	essages						
	idAutovehicul	Categorie	Model	Culoare	Carburant	NrKm	PutereMotor	SerieSasiu
1	1	Autoturism	Peugeot 508	Negru	#Benzina	198.123	112	AB01CDE34F1234567
2	2	Autoturism	BMW Seria 3	Argintiu	Motorina	203.125	180	WCDYC7CF8DX201851
3	3	Autoturism	Audi A5	Maro	Motorina	245.560	195	WBAGG83461DN81194
4	4	Motocicleta	Honda VFR 800x	Alb	Motorina	150.255	102	JH2PC35051M200020
5	5	Autoturism	Volkswagen Passat CC	Maro	#Benzina	199.000	170	1G1YY24UX5X7120EX
6	6	Autoturism	Skoda Octavia	Verde	Motorina	178.980	115	WAULC68E92A140677
7	7	Autoturism	Citroen C4	Rosu	Electric	150.000	120	1HGBH41JXMN109186
8	8	Autoturism	Audi Q7	Albastru	Motorina	50.000	286	LJCPCBLCX11000237
9	9	Autoturism	Mercedes GLC	Alb	#Benzina	103.520	194	SGES000EX5CRC0199
10	10	Autoturism	Peugeot 308	Negru	#Benzina	256.000	108	WF04XXGBB4YS85432
11	11	Autoturism	Dacia Logan	Negru	Motorina	190.520	100	SKES030ER5CP00189
12	12	Autoturism	Opel Astra	Gri	Motorina	185.000	100	SKES111ER5CP00111
13	13	Autoturism	Skoda Octavia II	Gri	Motorina	185.000	100	SKEI111ER5CP03311
14	14	Autoturism	BMW Seria 1	Auriu	#Benzina	185.000	100	SKES111ER5CPO6969

148. Sa se modifice toate autovehiculele care au culoarea rosu in culoarea mov.



149. A fost introdusa o noua politica a lantului de service-uri astfel incat manopera reparatiilor ce foloseste piese din categoria Filtre va creste cu 10 lei. Faceti actualizarile necesare.

```
select c.Tip,c.Pret
from Piese p
inner join Categorie c on c.idCategorie=p.idPiesa
inner join Reparatii r on r.idPiesa=p.idPiesa
                                                               Messages
where c.Tip='Filtre'
update r
                                                                  (1 row affected)
set r.Manopera+=10
                                                                  Completion time: 2022-05-11T18:46:53.4846334+03:00
from Reparatii r
inner join Piese p on r.idPiesa=p.idPiesa
inner join Categorie c on c.idCategorie=p.idPiesa
where c.Tip='Filtre'
                      Messages
                         (1 row affected)
                         Completion time: 2022-05-11T19:08:54.5719491+03:00
```

150. Sa se modifice numele proprietarului: sa fie scris cu majuscule si judetul nr de inmatriculare sa inceapa cu PH pentru cele reparate in service-ul din Ploiesti.

```
select a.Model,p.Nume+' '+p.Prenume
from Proprietar p
inner join AutovehiculeProprietar ap on ap.idProprietar=p.idProprietar
inner join Autovehicul a on a.idAutovehicul=ap.idAutovehicul
inner join programari prog on prog.idProprietate=ap.idProprietate
inner join Service s on s.idService=prog.idService
where s.Oras='Ploiesti' and substring(ap.NrInmatriculare,1,2)='PH'

update p
set p.Nume=upper(p.Nume)
from Proprietar p
inner join AutovehiculeProprietar ap on ap.idProprietar=p.idProprietar
inner join Autovehicul a on a.idAutovehicul=ap.idAutovehicul
inner join programari prog on prog.idProprietate=ap.idProprietate
inner join Service s on s.idService=prog.idService
where s.Oras='Ploiesti' and substring(ap.NrInmatriculare,1,2)='PH'
```

```
Results Messages

(2 rows affected)

Modificarile au fost efectuate cu succes!

(1 row affected)

(10 rows affected)

(2 rows affected)

Completion time: 2022-05-12T22:53:46.8915674+03:00
```

151. Se doreste micsorarea salariului patronului cu 10%. Realizati modificarile asupra tabelei Salariu.

152. Din motive pandemice, ora de inchidere a service-ului din Bucuresti va fi 8:00-22:00. Actualizati tabelul.

```
update s
                                                 Messages
set s.Program='08:00-22:00'
from Service s
where s.Oras='Bucuresti'
                                                    (1 row affected)
                                                    Completion time: 2022-05-11T22:54:55.3925724+03:00
select *

    ⊞ Results

from Service
                                                         Messages
where Oras='Bucuresti'
                                                    idService
                                                                           NrTelefon
                                                             Adresa
                                                                                       Oras
                                                                                                 Program
                                                             str. Viilor, nr. 30 0722334455 Bucuresti
                                                                                                 08:00-22:00
```

153. Sa se modifice toate prenumele 'George' in 'Andrei' din tabelul Angajati.

```
update a
set a.Prenume='Andrei'
from Angajati a
where a.Prenume='George'

(3 rows affected)

Completion time: 2022-05-11T22:59:34.1122754+03:00
```

154. Sa se modifice tara ca fiind Germania pentru furnizorii cu sediul in orașul Munchen.

```
update f
set f.Tara='Germania'
from Furnizori f
where f.Oras='Munchen'

Completion time: 2022-05-11T23:44:59.0228162+03:00
```

155. Sa se scrie cu litere mici numele proprietarilor care au avut masina intr-un service.

```
update p
set p.Nume=lower(p.Nume),p.Prenume=lower(p.Prenume)
from Proprietar p
inner join AutovehiculeProprietar ap on
ap.idProprietar=p.idProprietar
inner join Programari prog on
prog.idProprietate=ap.idProprietate
where prog.idProprietate ap on ap.idProprietate

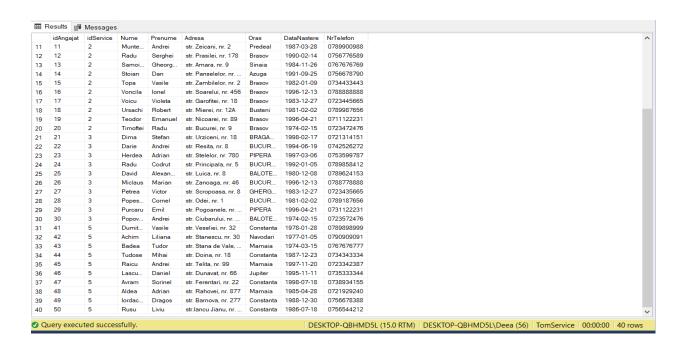
select *
from Proprietar p
inner join AutovehiculeProprietar ap on ap.idProprietar=p.idProprietar
inner join Programari prog on prog.idProprietate=ap.idProprietate
where prog.idProprietate=ap.idProprietate=ap.idProprietate
where prog.idProprietate=ap.idProprietate
```

	idProprietar	Nume	Prenume	Adresa	Oras	NrTelefon	Email
1	1	barbu	georgiana	str. Mihai Viteazu, nr. 3	Paulesti	0737658967	madalina.barbu@mta.ro
2	2	craciun	cristian	str. Patriei, nr. 10	Navodari	0788456723	cristian.craciun@mta.ro
3	4	ionita	daniel	str. Merilor, nr. 19	Craiova	0733355578	daniel.ionita@mta.ro
4	3	soare	octavian	str. Fagului, nr.2	Brazii de Jos	0723325665	soare.octavina@mta.ro
5	8	petrea	tudor	str. Muresului, nr. 7A	lasi	0799999988	tudor.petrea@mta.ro
6	9	ilie	roxana	str. Fericirii, nr. 759	Ciorani	0766655534	roxana.ilie@mta.ro
7	7	chiva	elena	str. Primaverii, nr. 90-91	Galati	0712332145	elena.chiva@mta.ro
8	10	onea	george	str. Democratiei, nr. 11	Sighisoara	077777788	george.onea@mta.ro
9	5	moise	sarah	str. Fat-Frumos, nr. 12-13	Alba-Iulia	0766688899	sarah.moise@mta.ro
10	6	toma	cristina	str. Principala, nr. 34A	Mamaia	0722335566	cristina.toma@mta.ro
11	6	toma	cristina	str. Principala, nr. 34A	Mamaia	0722335566	cristina.toma@mta.ro

12. Rezolvarea cerintelor legate de DELETE

156.Stergeti toti angajatii care sunt angajati la service-ul din Timisoara.

```
alter table FunctiiAngajati
drop constraint FK__FunctiiAn__idAng__2B3F6F97
alter table FunctiiAngajati
add constraint FK FctAng
foreign key (idAngajat) references Angajati(idAngajat) on delete cascade;
alter table ReparatiiAutovehicule
drop constraint FK__Reparatii__idAng__71D1E811
alter table ReparatiiAutovehicule
add constraint FK_RepAng
foreign key (idAngajat) references Angajati(idAngajat) on delete cascade;
      delete a
                                                          from Angajati a
      inner join Service s on s.idService=a.idService
                                                             (10 rows affected)
      where s.Oras='Timisoara'
                                                             (40 rows affected)
      select * from Angajati
                                                            Completion time: 2022-05-12T11:38:03.2650284+03:00
```



157. Sa se stearga service-ul cu localizarea in Oradea.

delete from Service where Oras='Oradea'

select * from Service



158. Sa se stearga autovehiculul de top motocicleta care este de model 'Harley Davidson'.

delete from Autovehicul
where Model='Harley Davidson' and Categorie='Motocicleta'

	idAutovehicul	Categorie	Model	Culoare	Carburant	NrKm	PutereMotor	SerieSasiu
1	1	Autoturism	Peugeot 508	Negru	#Benzina	198.123	112	AB01CDE34F1234567
2	2	Autoturism	BMW Seria 3	Argintiu	Motorina	203.125	180	WCDYC7CF8DX201851
3	3	Autoturism	Audi A5	Maro	Motorina	245.560	195	WBAGG83461DN81194
4	4	Motocicleta	Honda VFR 800x	Alb	Motorina	150.255	102	JH2PC35051M200020
5	5	Autoturism	Volkswagen Passat CC	Maro	#Benzina	199.000	170	1G1YY24UX5X7120EX
6	6	Autoturism	Skoda Octavia	Verde	Motorina	178.980	115	WAULC68E92A140677
7	7	Autoturism	Citroen C4	Mov	Electric	150.000	120	1HGBH41JXMN109186
8	8	Autoturism	Audi Q7	Albastru	Motorina	50.000	286	LJCPCBLCX11000237
9	9	Autoturism	Mercedes GLC	Alb	#Benzina	103.520	194	SGES000EX5CRC0199
10	10	Autoturism	Peugeot 308	Negru	#Benzina	256.000	108	WF04XXGBB4YS85432
11	11	Autoturism	Dacia Logan	Negru	Motorina	190.520	100	SKES030ER5CP00189
12	12	Autoturism	Opel Astra	Gri	Motorina	185.000	100	SKES111ER5CP00111
13	13	Autoturism	Skoda Octavia II	Gri	Motorina	185.000	100	SKEI111ER5CP03311
14	14	Autoturism	BMW Seria 1	Auriu	#Benzina	185.000	100	SKES111ER5CPO6969

159. Sa se stearga impozitul 'Impozit pe Venit'.

```
alter table ImpoziteSalariu
drop constraint FK__ImpoziteS__idImp__4F7CD00D
alter table ImpoziteSalariu
add constraint FK_ImpSal
foreign key (idImpozit) references Impozite(idImpozit) on delete cascade;
delete from Impozite
where Nume='Impozit pe Venit'
select * from Impozite

    ⊞ Results

    Messages

                        idlmpozit
                                                    Procent
                                 Nume
                                                    25.00
                  1
                                  Asigurare Sanatate
```

Asigurare Sociala

CAM

10.00

2.25

160. Stergeti furnizorul 'Ajax'.

2

3

2

4

```
delete from Furnizori
where Nume='Ajax'
select * from Furnizori
```

	145	M	A	0	OIDI-I	т	NI-T-I-C
	idFurnizor	Nume	Adresa	Oras	CodPostal	Tara	NrTelefon
1	1	Total	str. Stejarilor, nr. 2	Brasov	507055	Romania	0268401711
2	2	Bosch	49 Gilbert St.	Munchen	EC1 4SD	Germania	1715552222
3	3	A.B.S.	Josef-Orlopp-Strabe 55	Berlin	10365	Romania	0316302230
4	4	Ridex	92 Setsuko Chuo-ku	Osaka	545	Romania	064317877
5	5	Stark	Kaloadagatan 13	Göteborg	S-345 67	Romania	0319876543
6	6	Van Wezel	Tiergartenstraße 5	Berlin	10785	Romania	0109984510
7	7	Mann Filter	Sales Representative	Ravenna	48100	Romania	054460323

161. Stergeti toti angajatii care sunt angajati la service-ul din Bucuresti care au peste 30 de ani.

```
alter table FunctiiAngajati
drop constraint FK__FunctiiAn__idAng__2B3F6F97
alter table FunctiiAngajati
add constraint FK FctAng
foreign key (idAngajat) references Angajati(idAngajat) on delete cascade;
alter table ReparatiiAutovehicule
drop constraint FK Reparatii idAng 71D1E811
alter table ReparatiiAutovehicule
add constraint FK_RepAng
foreign key (idAngajat) references Angajati(idAngajat) on delete cascade;
      delete a
      from Angajati a
      inner join Service s on s.idService=a.idService
      where s.Oras='Bucuresti' and datediff(year,a.DataNastere,current_timestamp)>30
      select * from Angajati

    ■ Results    ■ Messages
                          (4 rows affected)
                          (46 rows affected)
                          Completion time: 2022-05-12T15:18:04.8931560+03:00
```

162. Sa se stearga categoria anvelope.

```
delete from Categorie
where Categorie.Tip='Anvelope'
select * from Categorie
```

```
Results Messages

(1 row affected)

(11 rows affected)

Completion time: 2022-05-12T15:21:05.7628422+03:00
```

163. Stergeti toti angajatii cu prenumele de 'Andrei' din service-ul din Ploiesti.

```
    Messages

    ⊞ Results

 alter table FunctiiAngajati
                                                            (O rows affected)
 drop constraint FK__FunctiiAn__idAng__2B3F6F97
 alter table FunctiiAngajati
                                                            (50 rows affected)
 add constraint FK_FctAng
 foreign key (idAngajat) references
                                                            Completion time: 2022-05-12T15:30:31.6966341+03:00
Angajati(idAngajat) on delete cascade;
 alter table ReparatiiAutovehicule
 drop constraint FK__Reparatii__idAng__71D1E811
 alter table ReparatiiAutovehicule
 add constraint FK_RepAng
 foreign key (idAngajat) references Angajati(idAngajat) on delete cascade;
       delete a
       from Angajati a
       inner join Service s on s.idService=a.idService
       where a.Prenume='Andrei' and s.Oras='Ploiesti'
       select * from Angajati
```

164. Sa se stearga toti angajatii cu functia de 'Manager' din Ploiesti.

```
delete a

from Angajati a

inner join Service s on s.idService=a.idService

inner join FunctiiAngajati fa on fa.idAngajat=a.idAngajat

inner join Functii f on f.idFunctie=fa.idFunctie

inner join FunctiiAngajati fa1 on fa1.Sefi=fa1.Sefi

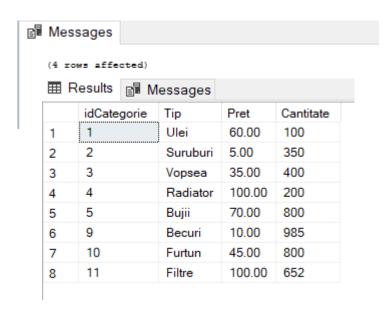
where f.Denumire='Manager' and s.Oras='Ploiesti'

Messages

(5 rows affected)
```

165. Sa se stearga categoriile de produse care au pretul mai mare de 100 lei.

```
alter table Piese
drop constraint FK__Piese__idCategor__3E52440B
alter table Piese
add constraint FK_Categ
foreign key (idCategorie) references Categorie(idCategorie) on delete cascade;
alter table Reparatii
drop constraint FK__Reparatii__idPie__440B1D61
alter table Reparatii
add constraint FK RepPie
foreign key (idPiesa) references Piese(idPiesa) on delete cascade;
alter table ReparatiiAutovehicule
drop constraint FK__Reparatii__idRep__70DDC3D8
alter table ReparatiiAutovehicule
add constraint FK Reparatie
foreign key (idReparatie) references Reparatii(idReparatie) on delete cascade;
delete c
from Categorie c
where c.Pret >100
```



166. Sa se stearga proprietarii ce detin autovehicule din categoria motocicleta.

delete p (1 row affected)

```
from Proprietar p
inner join AutovehiculeProprietar as ap on ap.idProprietar=p.idProprietar
inner join Autovehicul a on ap.idAutovehicul=a.idAutovehicul
where a.Categorie='Motocicleta'
```

167. Sa se stearga categoriile de produse de tipul 'Vopsea'.

```
alter table Piese
drop constraint FK__Piese__idCategor__3E52440B
alter table Piese
add constraint FK_Categ
foreign key (idCategorie) references
Categorie(idCategorie) on delete cascade;
alter table Reparatii
drop constraint FK__Reparatii__idPie__440B1D61
alter table Reparatii
add constraint FK RepPie
foreign key (idPiesa) references Piese(idPiesa) on
delete cascade;
alter table ReparatiiAutovehicule
drop constraint FK__Reparatii__idRep__70DDC3D8
alter table ReparatiiAutovehicule
add constraint FK Reparatie
foreign key (idReparatie) references
Reparatii(idReparatie) on delete cascade;
```

Ⅲ F	Results	e M	lessages		
	idCate	gorie	Tip	Pret	Cantitate
1	1		Ulei	60.00	100
2	2		Suruburi	5.00	350
3	4		Radiator	100.00	200
4	5		Bujii	70.00	800
5	6		Antigel	180.00	417
6	7		Parbriz	830.00	500
7	8		Baterii	380.00	80
8	9		Becuri	10.00	985
9	10		Furtun	45.00	800
10	11		Filtre	100.00	652
11	12		Anvelope	290.00	100

```
delete c
from Categorie c
where c.Tip = 'Vopsea'
select * from Categorie
```

168. Stergeti toate masinile inregistrate in service-ul cu id=1.

```
delete ap
from AutovehiculeProprietar ap
inner join Programari p on ap.idProprietate=p.idProprietate
inner join Proprietar prop on ap.idProprietar=prop.idProprietar
inner join Autovehicul auto on ap.idAutovehicul=auto.idAutovehicul
where p.idService=1
```

(3 rows affected)

169. Sa se stearga service-urile ce contin in numarul de telefon '56' si orașul in care se afla.

delete from s
from Service s
where s.NrTelefon like '%56%'

(3 rows affected)

13. Centralizarea

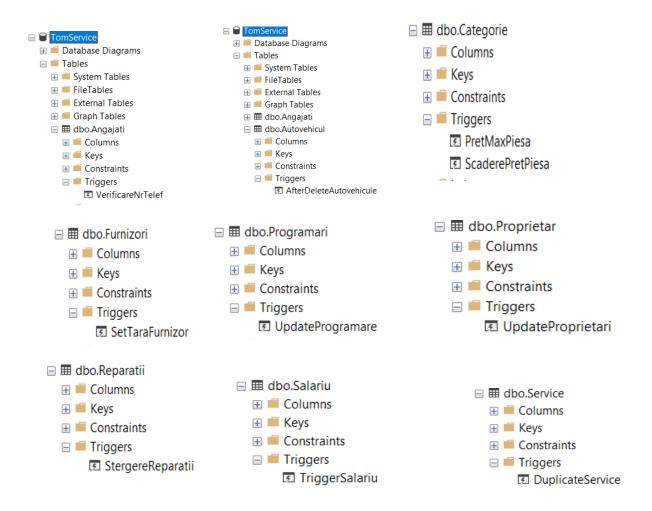
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VIEWS:

STORED PROCEDURES:

☐ ■ TomService ☐ Image: Programmability 🗄 🖪 dbo.AngajatiManager 🗄 🖪 dbo.DetaliiReparatii 🗄 🖪 dbo.IntervalProgramari 🖽 🖪 dbo.SalariuAng

TRIGGERS:



Centralizarea cerintelor:

- CREARE BAZA DE DATE + TABELE: 17
- INSERT: 48
- SELECT: 30 + 10 SUBINTEROGARI SELECT
- VIEWs sau VEDERI: 5
- CTEs sau EXPRESII DE TABEL COMUNE: 7
- TRIGGERS sau DECLANSATORI: 10
- STORED PROCEDURES sau PROCEDURI STOCATE: 11
- TRANSACTIONS sau TRANZACTII: 10
- UPDATE: 15DELETE: 15

TOTAL: 178