Proiect Baze de Date – 1

Florentina Bandasila, 4.2

```
b)
CREATE TABLE Clienti (
  NumarCont varchar(8) PRIMARY KEY NOT NULL,
  Nume varchar(30) NOT NULL,
  Prenume varchar(30) NOT NULL,
  DataNasterii date NOT NULL
);
CREATE TABLE Produse (
  IdProdus int PRIMARY KEY NOT NULL,
  Produs varchar(80) NOT NULL,
  Garantie int CHECK (Garantie <= 5),
  Stoc int CHECK (Stoc <= 200),
  ValoareUnitara decimal(7,2) NOT NULL
);
CREATE TABLE Vanzari (
  NumarCont varchar(8) REFERENCES Clienti(NumarCont),
  IdProdus int REFERENCES Produse(IdProdus),
  CantitateVanduta int NOT NULL,
  DataVanzarii date NOT NULL
);
c)
  insert into produse values(1, Fujitsu Siemens Amilo Pro', 1, 10, 2000);
  insert into produse values(2,'Indesit WLI1000',3,5,900);
 insert into produse values(3, 'Gorenje RC400', 3, 4, 1500);
insert into clienti values(11111111, 'Popescu', 'Ion', '01-jan-1985');
insert into clienti values(22222222, 'Georgescu', 'Andreea', '23-aug-1983');
insert into clienti values(33333333, 'lonescu', 'Robert', '08-mar-1982');
```

,			
NUMARCON	NUME	PRENUME	DATANASTE
11111111	Popescu	Ion	01-JAN-85
2222222	Georgescu	Andreea	23-AUG-83
33333333	Ionescu	Robert	08-MAR-82

```
AGD Sel INESIZE 250;
Splot From produse;

IDPRODUS PRODUS

GARANTE STOC VALOAREMITARA

1 Fujitsu Siemens Amilo Pro 1 10 2000
2 Indest M.I1000 3 5 900
3 Gorenje RC400 3 4 1500
```

d)

create trigger trigger_stoc

after insert on Vanzari

begin

 $\label{local-production} \mbox{update Produs = set Stoc = Stoc - noua.} \mbox{CantitateVanduta where IdProdus = noua.} \mbox{IdProdus = noua.} \mbox$

e)

f)

select Distinct Clienti.Nume, Clienti.Prenume, Produse.Produs, Vanzari.CantitateVanduta, Vanzari.CantitateVanduta * Produse.ValoareUnitara as ValoareTotala

from Clienti

inner join Vanzari on Clienti.NumarCont = Vanzari.NumarCont

inner join Produse on Vanzari.IdProdus = Produse.IdProdus

order by Clienti.Nume;

```
SQL> select Distinct Clienti.Nume, Clienti.Prenume, Produse.Produs, Vanzari.CantitateVanduta, Vanzari.CantitateVanduta * Produse.ValoareUnitara as ValoareTotala
2 from Clienti
3 inner join Vanzari on Clienti.NumarCont = Vanzari.NumarCont
4 inner join Produse on Vanzari.IdProdus = Produse.IdProdus
5 order by Clienti.Nume;

NAMME PREMAME PRODUS CANTITATEVANDUTA VALOARETOTALA

Georgescu Andreea Fujitsu Siemens Amilo Pro
Popescu Ion Fujitsu Siemens Amilo Pro 3 6000
```

h)

SELECT p.Produs, SUM(v.CantitateVanduta) AS TotalVandut

FROM Vanzari v

JOIN Produse p ON v.IdProdus = p.IdProdus

GROUP BY p.Produs

ORDER BY TotalVandut DESC;

```
SQLD SELECT p.Produs, SUM(v.CantitateVanduta) AS TotalVandut

2 FRON Vanzari v

3 JOIN Produs p ON v.IdProdus = p.IdProdus

4 GROUP BY p.Produs

5 ORDER BY TotalVandut DESC;

PRODUS

TOTALVANDUT

Fujitsu Siemens Amilo Pro

11
```

```
i)
SELECT DataVanzarii, COUNT(*) AS NumarVanzari
FROM Vanzari
GROUP BY DataVanzarii
HAVING COUNT(*) = ( SELECT MAX(NumarVanzari)
 FROM ( SELECT DataVanzarii, COUNT(*) AS NumarVanzari
  FROM Vanzari
 GROUP BY DataVanzarii
)
);
j)
SELECT c.Nume, c.Prenume, COUNT(*) AS NumarProduse, SUM(p.ValoareUnitara * v.CantitateVanduta) AS ValoareTotala
FROM Vanzari v
JOIN Clienti c ON v.NumarCont = c.NumarCont
JOIN Produse p ON v.IdProdus = p.IdProdus
GROUP BY c.Nume, c.Prenume
ORDER BY NumarProduse DESC, ValoareTotala DESC;
```

```
SQL> SELECT c.Nume, c.Prenume, COUNT(*) AS NumarProduse, SUM(p.ValoareUnitara * v.CantitateVanduta) AS ValoareTotala
2 FROM Vanzari v
3 JOIN Clienti c ON v.NumarCont * c.NumarCont
4 JOIN Produse p ON v.IdProdus = p.IdProdus
5 GROUP BY c.Numar, c.Prenume
6 ORDER BY NumarProduse DESC, ValoareTotala DESC;

NUME PRENUME NUMARPRODUSE VALOARETOTALA
Popescu Ion 2 12000
Georgescu Andreea 1 10000
```