Universitatea “Alexandru Ioan Cuza”- Iași

Facultatea de economie și administrarea afacerilor

Specializare: Informatică economică

Anul: 2

Grupa: 1

**PROIECT**

* Magazin online de haine-

**Liță Cosmin-Constantin**

2022-2023

|  |
| --- |
| CLIENTI\_PF |
| *id\_client\_pf-*PK |
| nume\_pf |
| prenume\_pf |
| gen |

|  |
| --- |
| CLIENTI\_PJ |
| *id\_client\_pj-PK* |
| nume\_pj |
| tip\_pj |

|  |
| --- |
| TIP\_PRODUS |
| cod\_tip\_produs PK |
| descriere\_produs |

|  |
| --- |
| METODE\_DE\_PLATA |
| cod\_met\_plata PK |
| descriere\_met\_plata |

|  |
| --- |
| CLIENȚI |
| id\_client PK |
| email |
| nume\_logare |
| parola\_logare |
| adresa |
| oras |
| jud |
| tara |
| numar\_tel |

|  |
| --- |
| PRODUSE |
| id\_produs PK |
| cod\_tip\_produs FK |
| nume\_prod |
| culoare\_prod |
| marime\_prod |
| material\_prod |
| cod\_brand FK |

|  |
| --- |
| CLIENTI\_METODA\_DE\_PLATA |
| id\_client\_plata PK |
| id\_client FK |
| cod\_met\_plata FK |
| numar\_card |

|  |
| --- |
| DISCOUNT |
| *id\_produs\_disc PK* |
| discount |

|  |
| --- |
| ANGAJATI |
| id\_angajat PK |
| nume\_angajat |
| numar\_tel |

|  |
| --- |
| BRAND |
| cod\_brand PK |
| descriere\_brand |

|  |
| --- |
| COMENZI\_PRELUATE |
| id\_comanda PK |
| id\_client FK |
| status\_comanda |
| data\_plasare |
| id\_angajat FK |

|  |
| --- |
| FACTURI |
| numar\_fact PK |
| id\_comanda FK |
| cod\_status\_fact FK |
| data\_factura |

|  |
| --- |
| DETALII\_COMENZI |
| id\_comanda FK |
| id\_produs FK |
| status\_produs |
| cantitate |
| pret\_prod\_lei |
| data\_exp |
| numar\_urmarire\_exp(AWB) |
| numar\_retur |
| data\_retur |

|  |
| --- |
| STATUS FACTURI |
| cod\_status\_fact PK |
| descriere\_status\_fact |

|  |
| --- |
| PLATI |
| id\_plata PK |
| numar\_fact FK |
| data\_plata |
| suma\_plata |
| id\_client\_plata FK |

**MAGAZIN ONLINE DE HAINE-C&V&S**

Firma noastra comercializeaza exclusiv haine de femei prin intermediul unui site online. Si cuprinde urmatoarele tabele:

CLIENTI{**id\_client**, email, nume\_logare, parola\_logare, adresa, oras, judet, tara, numar\_tel}

CLIENTI\_PF{***id\_client\_pf*,** nume\_pf, prenume\_pf, gen}

CLIENTI\_PJ{***id\_client\_pj***, nume\_pj, tip\_pj}

CLIENTI\_METODA\_PLATA{**id\_client\_plata**, id\_client, cod\_met\_plata, numar\_card}

METODE\_DE\_PLATA{**cod\_met\_plata**, descriere\_met\_plata}

COMENZI\_PRELUATE{**id\_comanda**, id\_client, status\_comanda, data\_plasare, id\_angajat}

TIP\_PRODUS{**cod\_tip\_produs**, descriere-produs}

BRAND **{cod\_brand**, descriere\_brand}

PRODUSE{**id\_produs**,cod\_tip\_produs, nume\_prod, culoare\_prod, marime\_prod, material\_prod, cod\_brand}

DISCOUNT{***id\_produs\_disc***,discount}

DETALII\_COMENZI{**id\_comanda**, **id\_produs**, status\_produs, cantitate, pret\_prod\_lei, data\_exp, numar\_urmarire\_exp, numar\_retur,data\_retur}

ANGAJATI{**id\_angajat**, nume\_anagajat, numar\_tel}

FACTURI{**numar\_fact**, id\_comanda, cod\_status\_fact, data\_factura}

STATUS\_FACTURI{**cod\_status\_fact**, descriere\_status\_fact}

PLATI{**id\_plata**, numar\_fact, data\_plata, suma\_plata}

**Clientii** nostri pot fi reprezentati de persoane fizice si juridice. Fiecare persoana fizica se regaseste in tabela **clienti\_pf** si se caracterizeaza prin *id-ul client\_pf, nume, prenume si gen*. Persoanele juridice se regasesc in tabela **clienti\_pj**. Acestia se caracterizeaza prin *id\_client\_pj*, *tipul societatii*(S.A., S.R.L), *nume\_pj*. Campurile comune pentru PF si PJ sunt email-ul pe care putem trimite oferte,numele de logare,parola,adresa,orasul, judetul si tara unde se livreaza produsul. Id\_client din tabela clienti este cheie primara si se regaseste si in tabelele clienti\_pf si clienti\_pj astfel clientii din aceste tabele trebuie sa se regaseasca in tabela mama, clienti.

Clientii au la dispozitie cateva metode de plata cum ar fi PayPal, Card de credit etc. . Datele efective cu privire la variantele acceptate de plata de catre compania noastra se afla in tabela **metode\_de\_plata** ce cuprinde campurile *cod\_met\_plata si descirere\_met\_plata*iar optiunile acestora efective se afla in tabela **clienti\_metoda\_de\_plata** avand campurile *id\_client\_plata, id\_client, cod\_met\_plata, numar\_card***.** Acestia au posibilitatea sa inregistreze mai multe carduri si metode de plata cu care doresc sa efectueze plata sau pe care vor primi contravaloarea returului.Clientii au posibilitatea sa inregistreze mai multe carduri de credit/debit etc. *Numar\_card* nu poate fi cheie primara ci poate fi doar un atribut unic deoarece in tabela **clienti\_metoda\_de\_plata** acestia pot opta si pentru varianta de ramburs.

Comenzile efective vor fi stocate in tabela **comenzi\_preluate** In aceasta tabela se gasesc informatii cu privire la *id-ul comenzii, id-ul clientului* care a dat comanda*, data de plasare, statusul comenzii* (anulata sau efectuata), dar si *id-ul angajatului* care a preluat comanda.

Angajatii care au preluat comanda se vor regasi in tabela **angajati.** Aceasta tabela ne ajuta sa identificam prin *id\_angajat, nume\_angajat si numar\_tel*, angajatul care a preluat comanda pentru a eficientiza lucrul in cazul aparitiei unei probleme.

Informatii cu privire la facturile comenzilor se vor regasi in tabela **facturi**. Aici putem regasi *numarul facturii, id-ul comenzii, data facturii*, dar si *codul statusului acestora*. Statusurile posibile(emisa,incasata partial,incasata,depasita) ale facturilor fiind in tabela **status\_facturi**.

In tabela **plati** vom gasi informatii cu privire la suma de plata si factura ce s-a platit.*(id\_plata, numar\_fact, data\_plata, suma\_plata, id\_client\_plata.*

Pentru a vedea care sunt detaliile comenzii ne vom ajuta de tabela **detalii\_comenzi.** In aceasta tabela vom avea informatii cu privire la *id-ul comenzii,id-ul produslui, statusul produsului*(in stoc/in afara stocului*),cantitatea comandata,pretul produsului, data expedierii si AWB-ul* pentru produsele ce se afla in stoc, dar si *numarul returului* si *data returului* daca este cazul*.*

Produsele efective impreuna cu descrierea acestora se vor afla in tabela **produse.** Aici vom regasi *id-ul produsului, numele produsului* (EX:bluza Mara),*culoarea produslui,marimea produsului, materialul dar si codul brandului* ce va fi stocat intr-o tabela separata numita **brand *(****cod\_brand, descriere\_brand)***.** Pentru a identifica in mod unic o bluza careia ii corespunde o marime avem nevoie ca un id\_produs sa corespunda unui singur produs (Ex:Bluza Mara, marimea S). Campul *cod\_tip\_produs* ne va ajuta sa facem legatura cu tabela **tip\_produs** de unde vom lua informatii cu privire la tipul imbracamintei (Ex:blugi, maiou, geaca).

Pentru anumite produse se va aplica discount, acesta va fi stocat in tabel discount ce are campurile **id\_produs\_disc** si **discount. Id-ul produsului** va fi cheie primara ce va corespund cu **id\_produs** din tabela produse. Astfel putem avea anumite produse sau toate cu discount.

Baza de date este formata din urmatoarele tabele:

|  |  |  |
| --- | --- | --- |
| NUME TABELA | CAMPURI | DESCRIERE |
| **Clienti** | id\_client -PK | id-ul clientului dupa care se identifica |
|  | email | folosit si pentru a trimite oferte clientilor |
| nume\_logare | numele cu care se logheaza utilizatorii-unic pentru fiecare |
| parola\_logare | parola contului cu care se logheaza |
| adresa | adresa pe care vor fi trimise pachetele |
| oras | orasul in care vor fi trimise pachetele |
| jud | judetul in care vor fi trimise pachetele |
| tara | tara in care vor fi trimise pachetele |
| numar\_tel | numarul de telefon al clientului |
| **clienti\_pj** | *id\_cliet\_pj* PK | id-ul persoanei juridice corespunde cu Id\_client doar are alta denumire |
|  | nume\_pj | numele societatii (daca este persoana juridica) |
| tip\_pj | tipul persoanei juridice (S.A. ,S.R.L)-ne intereseaza deoarece poate suntem interesati sa facem parteneriate |
| **clienti\_pf** | *id\_client\_pf* PK | id-ul persoanei fizice corespunde cu Id\_client doar are alta denumire |
|  | nume | numele persoanei |
| prenume | prenumele persoanei(toate prenumele) |
| gen | genul persoanei |
| **Angajati** | id\_angajat-PK | id-ul angajatului dupa care se identifica |
| Aceasta tabela ne ajuta sa identificam angajatul care a preluat comanda in cazul in care intampinam o problema | nume\_angajat | numele angajatului |
| numar\_tel | numarul de serviciu de contact al angajatului |
| **Metode\_de\_plata** | cod\_met\_plata-PK | codul metodei de plata |
| Metodele de plata acceptate de firma noastra | descriere\_met\_plata | denumirea metodei de plata (card credit, ramburs, PayPal etc.) |
| **status\_facturi** | cod\_status\_fact-PK | codul statusului factura (EMS,PLT) |
| Tabela stocheaza statusurile posibile ale facturilor | descriere\_status\_fact | descriere status factura (emisa,platita) |
| **tip\_produs** | cod\_tip\_produs-PK | codul produsului codul (BLG. ,TRI.) |
| Tabela cuprinde categoria imbracamintei | descriere\_produs | descrierea produsului (blugi, tricou) |
| **clienti\_metoda\_de\_plata** | id\_client\_plata-PK | id-ul de plata al clientului(un client poate avea mai multe metode de plata si de aceea trebuie sa fie identificate prin id-uri diferite) |
| Metodele de plata trecute de clienti ca optiuni pe conturile lor, un client poate alege mai mule metode de plata | id\_client-FK | id-ul clientului care face plata |
| cod\_met\_plata-FK | codul metodei de plata |
| numar\_card | numarul cardului cu care se face plata-nu poate fi cheie primara deoarece pot fi clienti care aleg ca metoda de plata ramburs |
| **comenzi\_preluate** | id\_comanda-PK | id-ul comenzii |
| In aceasta tabela ajung toate comenzile clientilor indiferent daca comenzile sunt anulate sau nu | id\_client-FK | id-ul clientului dupa care se identifica |
| status\_comanda | statusul comenzii (anulata, efectuata ) |
| data\_plasare | data in care s-a trimis comanda |
| id\_angajat-FK | id-ul angajatului care a preluat comanda |
| **facturi** | numar\_fact PK | numarul facturii emise |
| Aceasta tabela inregistreaza facturile emise clientilor | id\_comanda FK | id-ul comenzii pe care se emite factura |
| cod\_status\_fact FK | codul statusului factura |
| data\_factura | data pe care s-a emis factura |
| **plati** | id\_plata PK | id-ul dupa care se identifica plata |
| In aceasta tabela se regasesc platile facute de clienti. O plata se identifica printr-un id dar pe aceeasi factura se pot efectua mai multe plati | numar\_fact FK | numarul facturii pe care se face plata |
| data\_plata | data in care se efectueaza plata |
| suma\_plata | suma platita |
| id\_client\_plata | ne ajuta sa identificam cum a facut plata clientul |
| **produse** | id\_produs PK | id-ul produsului (indiferent ca e geaca, tricou etc.)-ca un cod individual pentru fiecare produs EX: 1234-tricou marimea S, 5654-Tricou marimea M |
| Tabela cuprinde toate produsele pe marimi culori si preturi | cod\_tip\_produs FK | ne ajuta sa identificam daca produsul este o geaca, o pereche de pantaloni etc... |
| nume\_prod | numele produsului(EX:Bluza Mara) |
| culoare\_prod | culoarea produsului |
| marime\_prod | marimea produsului( de la XS la XXXL) |
| material\_prod | materialul din care este facut produsul |
| cod\_brand FK | ne ajuta sa identificam brandul produsului |
| **detalii\_comenzi** | id\_comanda FK | id-ul comenzii unde se afla produsele |
| Aceasta tabela stocheaza detalii cu privire la comenzi cum ar fi AWB-ul expedierii sau statusul produsului si are cheia primara compusa din (id\_comanda si id\_produs) adica o comanda poate avea mai multe produse identificate prin id\_produs | id\_produs FK | id-ul individual al produsului din comanda |
| status\_produs | diferit de status\_comanda deoarece pot fi produse ce nu mai sunt in stoc dar factura sa fie emisa pentru celelalte produse |
| cantitate | cantitatea din produs |
| pret\_prod\_lei | pretul produsului in lei |
| data\_exp | data in care s-a expediat comanda |
| numar\_urmarire\_exp | numarul ce poate fi urmarit de clienti |
| numar\_retur | numarul returului daca este cazul |
| data\_retur | data returului daca este cazul |
| **brand** | cod\_brand PK | codul brandului EX:PM |
| Aceasta tabela stocheaza brandurile produselor din magazin | descriere\_brand | descrierea brandului EX;Puma |
| **discount** | *id\_produs\_disc* PK | id-ul produsului ce are discount (acesta se regaseste in tabela produse) |
|  | discount | procentul de discount al produsului |

**Clienti**

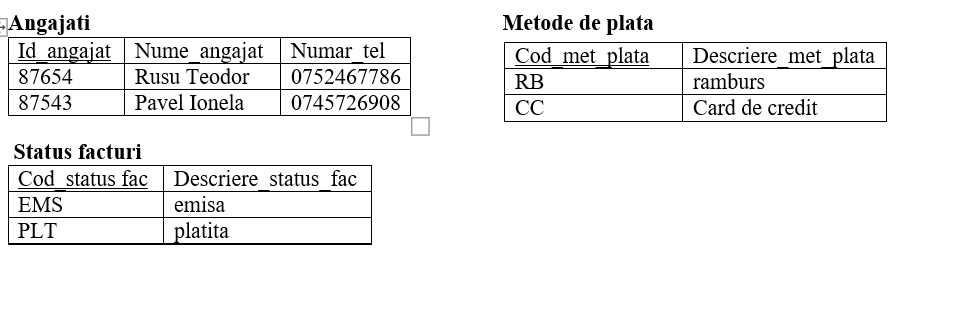
|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Id\_client | email | Nume\_logare | Parola\_logare | adresa | oras | judet | tara |
| 1230 | alex@yahoo.com | Ivascu R | informatician | Str.Razboiuli | Galati | Galati | Romania |
| 1231 | hmro@yahoo.com | H&M | economie | Str.Soarelui | Iasi | Iasi | Romania |

**Clienti\_pf**

|  |  |  |  |
| --- | --- | --- | --- |
| Id\_client\_pf | Nume\_pf | Prenume\_pf | Gen |
| 1230 | Radu | George | M |
| 1231 | Calin | Silvia | F |

**Clienti\_pj**

|  |  |  |
| --- | --- | --- |
| Id\_client\_pj | Nume\_pj | Tip\_pj |
| 1356 | H&M | SRL |
| 1357 | Sinsay | SA |



**Tip produs**

|  |  |
| --- | --- |
| Cod\_tip\_produs | Descriere\_tip\_produs |
| BLG | blugi |
| FST | fusta |

**Clienti\_metoda\_de\_plata**

|  |  |  |  |
| --- | --- | --- | --- |
| Id\_client\_plata | Id\_client | Cod\_met\_plata | Numar\_card |
| 10000 | 2500 | RB | 123567978 |
| 10001 | 2501 | CD | 232534676 |

**Comenzi preluate**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Id\_comanda | Id\_client | Status\_comanda | Data\_plasare | Id\_angajat |
| 70000 | 2500 | anulata | 15.03.2020 | 87654 |
| 80000 | 2501 | efectuata | 18.05.12019 | 87543 |

**Facturi**

|  |  |  |  |
| --- | --- | --- | --- |
| Numar\_fact | Id\_comanda | Cod\_status\_fact | Data\_factura |
| 654321 | 70000 | EM | 25.03.2019 |
| 876544 | 80000 | DEP | 17.05.2020 |

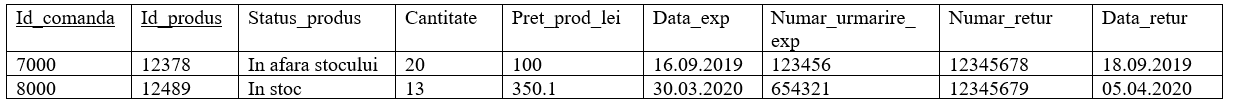
**Plati**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Id\_plata | Numar\_fact | Data\_plata | Suma\_plata\_lei | id\_client\_plata |
| 9000 | 654321 | 26.03.2019 | 1500 | 12 |
| 8014 | 876544 | 19.05.2020 | 130000 | 1 |

**Produse**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Id\_produs | Cod\_tip\_produs | Nume\_prod | Culoare\_prod | Marime\_prod | Material\_prod | Cod\_brand |
| 12378 | BLG | Blugi cu talie inalta | albastru | S | denim | 444 |
| 12489 | FST | Fusta de vara vaporoasa | verde | L | matase | 555 |

**Detalii comenzi**

****

**Brand**

|  |  |
| --- | --- |
| Cod\_brand | Descriere\_brand |
| NIK | nike |
| PUM | puma |

**Discount**

|  |  |
| --- | --- |
| id\_produs\_disc | discount |
| 501 | 25% |
| 502 | 17% |

descriere\_status

cod\_status fact

data\_fact

numar\_fact

discount

id\_produs\_disc

**GRAFUL DEPENDENTELOR**

descriere\_brand

cod\_brand

descriere\_prod

cod\_tip\_prod

id\_produs

marime\_prod

material\_prod

nume\_prod

culoare\_prod

id\_comanda

status\_produs

cantitare

pret\_prod\_lei

data\_exp

numar urmarire\_exp

numar\_retur

data\_retur

suma\_plata

data\_plata

id\_plata

nume\_angajat

numar\_tel

id\_angajat

status\_comanda

status\_comanda

descriere\_met\_plata

cod\_met\_plata

numar\_card

id\_client\_plata

oras

adresa

id\_client

tara

jud

id\_client\_pj

id\_client\_pf

numar\_tel

tip\_pj

nume\_pj

gen

prenume\_pf

nume\_pf

parola\_logare

nume\_logare

email

**CREARE BAZA DE DATE, INSERTURI SI SELECTURI**

DROP TABLE IF EXISTS plati;--copil pentru facturi

DROP TABLE IF EXISTS clienti\_metoda\_de\_plata; --copil pentru metode\_de plata si pentru clienti

DROP TABLE IF EXISTS facturi; --copil pentru comenzi si pentru status\_facturi

DROP TABLE IF EXISTS detalii\_comenzi; --copil pentru produse si pentru comenzi

DROP TABLE IF EXISTS comenzi\_preluate; --copil pentru clienti si status\_comenzi

DROP TABLE IF EXISTS angajati;--parinte

DROP TABLE IF EXISTS clienti\_pf;

DROP TABLE IF EXISTS clienti\_pj;

DROP TABLE IF EXISTS clienti;--parinte

DROP TABLE IF EXISTS metode\_de\_plata; --parinte

DROP TABLE IF EXISTS status\_facturi;--parinte

DROP TABLE IF EXISTS discount;--copil pentru produse

DROP TABLE IF EXISTS produse; --copil pentru tip\_produs

DROP TABLE IF EXISTS brand;--parinte

DROP TABLE IF EXISTS tip\_produs; --parinte

-- CREAREA TABELELOR

CREATE TABLE clienti (

id\_client varchar(10) primary key,

email varchar (50),

nume\_logare varchar(30) not null unique,

parola\_logare varchar (30) not null,

adresa varchar(50)not null,

oras varchar (50) not null,

jud varchar(30)not null,

tara varchar (40)not null,

numar\_tel numeric(10)unique not null

);

------INSERT-URI--------

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1230','ivram@yahoo.com', 'ivascuR', 'azi','Str.Unirii','Galati','Galati','Romania',0754215722);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1231', 'ivramona@yahoo.com', 'RamonaI', 'verde','Str.Florilor','Galati','Galati','Romania',0754215721);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1232','raduflorin12@yahoo.com', 'Florin.Radu', 'masadebasebal','Str.Fericirii','Roman','Neamt','Romania',0754210021);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1233','silvia123@yahoo.com', 'Silvia123', 'televizor','Str.Boiu','Tecuci','Galati','Romania',0754210099);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1234', 'eang@yahoo.com', 'EdiAng', 'fotbaal','Str.Cooperatorilor','Barlad','Vaslui','Romania',0754910021);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1235', 'muscaD@yahoo.com', 'DragosM', 'pompieri','Str.Focului','Suceava','Suceava','Romania',0764210021);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1236','pandru@yahoo.com', 'Patileaandreea', 'politie','Str.Urgentei','Cluj','Cluj','Romania',0744210021);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1237','rotaru145@yahoo.com', 'Rotatu Cris', 'cumparaturi12','Str.Bucuriei','Bucuresti','Bucuresti','Romania',0758710021);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1238', 'badins90@yahoo.com', 'Badin Sandel123', 'shoppingIsMyPleasure','Str.Frumusetii','Braila','Braila','Romania',0784210021);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1239','puscasu99@yahoo.com', 'Silviu Puscasu', 'mitraliera','Str.Armelor','Pascani','Iasi','Romania',0774210077);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1240','eusebiuradu25@yahoo.com', 'Radu Sebi', 'calatorieLaMare123','Str.Apelor','Bacau','Bacau','Romania',0728810021);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1241', 'lupudani50@yahoo.com', 'Dani Lupu', 'calculatorvechi','Str.Inimii','Galati','Galati','Romania',0774277021);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1242','ciocanm99@yahoo.com', 'Ciocan Mada', 'shopping123','Str.Viile','Oradea','Oradea','Romania',0775510021);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1243','alinanec12@yahoo.com', 'Alina N', 'vazacuflori','Str.Zorilor','Galati','Galati','Romania',0774410021);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1244','ionelanecula690@yahoo.com', 'Ionela Nec', 'iepurasdecioclata','Str.Ulmului','Ilfov','Ilfov','Romania',0775510744);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1245','cretuV89@yahoo.com', 'VasiCretu', 'drumdepiatra19','Str.Legii','Galati','Galati','Romania',0747510021);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1246','aleneagu@yahoo.com', 'Alexandra Neagu', 'politiadeFrontiera','Str.Viilor','Tulcea','Tulcea','Romania',0775510022);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1247','mirucris124@yahoo.com', 'Miruna Radu', 'academie178','Str.Ulmului','Iasi','Iasi','Romania',0774789631);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1248', 'sanduMo00@yahoo.com', 'Sandu 23', 'diaspora56','Str.Sararie','Iasi','Iasi','Romania',0775510077);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1249','andreigeorge@yahoo.com', 'Angrei G', 'urbanism90','Str.Lupilor','Galati','Galati','Romania',0775510489);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1250','nicooana@yahoo.com', 'Nico Oana', 'plimbare44','Str.Soarelui','Bucuresti','Bucuresti','Romania',0755510021);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1251','leroiv.services@yahoo.com', 'leroiv', 'asociatie','Str.Garii','Galati','Galati','Romania',0755517896);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1252','shopping.e@yahoo.com', 'e.shop', 'angajatorangajat','Str.Lalelelor','Cluj','cluj','Romania',0755510473);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1253', 'cabaret.shop@yahoo.com', 'Cabaret', 'influenceronline','Str.Fericirii','Bacau','Bacau','Romania',0755517777);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1254', 'elegance.stil@yahoo.com', 'elegance', 'negrusialb','Str.Pacii','Buzau','Buzau','Romania',0785510021);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1255','cupidd22@yahoo.com', 'cupiddicup', 'lumanare65','Str.Garoafelor','Galati','Galati','Romania',0725510021);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1256','kappashopping@yahoo.com', 'KappaisMe', 'pomfructifer','Str.Luminii','Botosani','Botosani','Romania',0745539021);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1257','linkefashion@yahoo.com', 'Linke fashion', 'treningDePrimavara','Str.Curajului','Vaslui','Vaslui','Romania',0755510444);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1258', 'sinsayromania1@yahoo.com', 'Sinsayro', 'afacereDeSucces','Str.Profitului','Suceava','Suceava','Romania',0755510001);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1259','bershkaro@yahoo.com', 'bershka', 'magazinonline','Str.Profitului','Galati','Galati','Romania',0755533331);

insert into clienti(id\_client, email, nume\_logare, parola\_logare, adresa, oras, jud, tara,numar\_tel)

values('1260','h&mromania@yahoo.com', 'H&M', 'culoarerosie','Str.Martie','Brasov','Brasov','Romania',0755517755);

CREATE TABLE clienti\_pf(

id\_client\_pf varchar(10) primary key constraint pk\_clPF\_cl references clienti(id\_client),

nume\_pf varchar(30) not null,

prenume\_pf varchar(30)not null,

gen varchar(7) constraint gen CHECK (gen In ('F','M'))

);

INSERT INTO clienti\_pf VALUES('1230','Ivascu','Ramona','F');

INSERT INTO clienti\_pf VALUES('1231','Ivascu','Ramona','F');

INSERT INTO clienti\_pf VALUES('1232','Radu','Florin','M');

INSERT INTO clienti\_pf VALUES('1233','Musat','Silvia','F');

INSERT INTO clienti\_pf VALUES('1234','Angheluta','Eduard','M');

INSERT INTO clienti\_pf VALUES('1235','Musca','Dragos','M');

INSERT INTO clienti\_pf VALUES('1236','Patilea','Andreea','F');

INSERT INTO clienti\_pf VALUES('1237','Rotaru','Cristina','F');

INSERT INTO clienti\_pf VALUES('1238','Badin','Sandel','M');

INSERT INTO clienti\_pf VALUES('1239','Puscasu','Silviu','M');

INSERT INTO clienti\_pf VALUES('1240','Radu','Eusebiu','M');

INSERT INTO clienti\_pf VALUES('1241','Lupu','Daniel','M');

INSERT INTO clienti\_pf VALUES('1242','Ciocan','Madalina','F');

INSERT INTO clienti\_pf VALUES('1243','Necula','Alina','F');

INSERT INTO clienti\_pf VALUES('1244','Necula','Ionela','F');

INSERT INTO clienti\_pf VALUES('1245','Cretu','Vasile','M');

INSERT INTO clienti\_pf VALUES('1246','Neagu','Alexandra','F');

INSERT INTO clienti\_pf VALUES('1247','Radu','Miruna','F');

INSERT INTO clienti\_pf VALUES('1248','Mpoineagu','Sandu','M');

INSERT INTO clienti\_pf VALUES('1249','Lefter','Andrei','M');

INSERT INTO clienti\_pf VALUES('1250','Oana','Nicoleta','F');

create table clienti\_pj(

id\_client\_pj varchar(10) primary key constraint pf\_clPJ\_cl references clienti(id\_client),

nume\_pj varchar(30) not null,

tip\_pj varchar(10) not null

);

INSERT INTO clienti\_pj VALUES('1251','leroiv','SRL');

INSERT INTO clienti\_pj VALUES('1252','shopp','SRL');

INSERT INTO clienti\_pj VALUES('1253','cabaret','SA');

INSERT INTO clienti\_pj VALUES('1254','elegance','SRL');

INSERT INTO clienti\_pj VALUES('1255','cupid','SA');

INSERT INTO clienti\_pj VALUES('1256','kappa','SA');

INSERT INTO clienti\_pj VALUES('1257','linke','SRL');

INSERT INTO clienti\_pj VALUES('1258','sinsayRo','SRL');

INSERT INTO clienti\_pj VALUES('1259','bershkaRo','SA');

INSERT INTO clienti\_pj VALUES('1260','H&MRo','SRL');

create table angajati (

id\_angajat numeric(7) primary key ,

nume\_angajat varchar (50)not null,

numar\_tel numeric (10) unique not null

);

------INSERT-URI------

insert into angajati(id\_angajat, nume\_angajat, numar\_tel) values(9101,'Popa Marius',0745602583);

insert into angajati(id\_angajat, nume\_angajat, numar\_tel) values(9102,'Crisan Mariana',0724627182);

insert into angajati(id\_angajat, nume\_angajat, numar\_tel) values(9103,'Popa Liviu',0752753642 );

insert into angajati(id\_angajat, nume\_angajat, numar\_tel) values(9104,'Sava Madalina',0762408574 );

insert into angajati(id\_angajat, nume\_angajat, numar\_tel) values(9105,'Toader Andreea',0725374279 );

insert into angajati(id\_angajat, nume\_angajat, numar\_tel) values(9106,'Lefter Monica',07726834023);

insert into angajati(id\_angajat, nume\_angajat, numar\_tel) values(910,'Dragu Cosmin',0742165932 );

create table metode\_de\_plata (

cod\_met\_plata varchar(5) primary key,

descriere\_met\_plata varchar(100) not null

);

--INSERT-URI----

--ramburs(rb),card de credit(cc),card de debit(cd), pay pall(pp)

insert into metode\_de\_plata(cod\_met\_plata, descriere\_met\_plata) values('RB','ramburs');

insert into metode\_de\_plata(cod\_met\_plata, descriere\_met\_plata) values('CC','card de credit');

insert into metode\_de\_plata(cod\_met\_plata, descriere\_met\_plata) values('CD','card de debit');

insert into metode\_de\_plata(cod\_met\_plata, descriere\_met\_plata) values('PP','pay pall');

create table status\_facturi (

cod\_status\_fact varchar(6) primary key,

descriere\_status\_fact varchar(100) not null

);

-----INSERT-URI--------

--emisa,incasata partial, incasata, depasita

insert into status\_facturi(cod\_status\_fact, descriere\_status\_fact) values('EM', 'emisa');

insert into status\_facturi(cod\_status\_fact, descriere\_status\_fact) values('INCP', 'incasata partial');

insert into status\_facturi(cod\_status\_fact, descriere\_status\_fact) values('IN', 'incasata');

insert into status\_facturi(cod\_status\_fact, descriere\_status\_fact) values('DEP', 'depasita');

create table tip\_produs (

cod\_tip\_produs varchar(6) primary key,

descriere\_produs varchar(100) not null constraint desc\_prod CHECK (descriere\_produs In ('fusta','rochie','salopeta','palton','sacou','pantaloni sport','geaca','blugi','cardigan','tricou','maiou','camasa','pulover','hanorac'))

);

insert into tip\_produs(cod\_tip\_produs, descriere\_produs) values('F','fusta');

insert into tip\_produs(cod\_tip\_produs, descriere\_produs) values('R','rochie');

insert into tip\_produs(cod\_tip\_produs, descriere\_produs) values('SAL','salopeta');

insert into tip\_produs(cod\_tip\_produs, descriere\_produs) values('PANTS','pantaloni sport');

insert into tip\_produs(cod\_tip\_produs, descriere\_produs) values('GE','geaca');

insert into tip\_produs(cod\_tip\_produs, descriere\_produs) values('BLG','blugi');

insert into tip\_produs(cod\_tip\_produs, descriere\_produs) values('CARD','cardigan');

insert into tip\_produs(cod\_tip\_produs, descriere\_produs) values('TRI','tricou');

insert into tip\_produs(cod\_tip\_produs, descriere\_produs) values('M','maiou');

insert into tip\_produs(cod\_tip\_produs, descriere\_produs) values('C','camasa');

insert into tip\_produs(cod\_tip\_produs, descriere\_produs) values('PLVR','pulover');

insert into tip\_produs(cod\_tip\_produs, descriere\_produs) values('HAN','hanorac');

insert into tip\_produs(cod\_tip\_produs, descriere\_produs) values('PLT','palton');

insert into tip\_produs(cod\_tip\_produs, descriere\_produs) values('SAC','sacou');

create table clienti\_metoda\_de\_plata (

id\_client\_plata numeric (10)primary key,

id\_client varchar (10) constraint fk\_cmpClienti references clienti(id\_client)ON UPDATE CASCADE ON DELETE RESTRICT,

cod\_met\_plata varchar(5) constraint fk\_cmpMetPlat references metode\_de\_plata(cod\_met\_plata)ON UPDATE CASCADE ON DELETE RESTRICT,

numar\_card numeric(16)unique --nu este cheie primara deoarece pot fi clienti care doresc sa plateasca ramburs

);

insert into clienti\_metoda\_de\_plata

values (12,'1230','CC',1234567890123456);

insert into clienti\_metoda\_de\_plata

values (1,'1230','PP',1234567890123450);

insert into clienti\_metoda\_de\_plata

values (2,'1230','RB');

insert into clienti\_metoda\_de\_plata

values (3,'1230','CD',4478546877154789);

insert into clienti\_metoda\_de\_plata

values (887,'1235','CD',4478546877104789);

insert into clienti\_metoda\_de\_plata

values (807,'1235','PP',4478546777104789);

insert into clienti\_metoda\_de\_plata

values (447,'1235','RB');

insert into clienti\_metoda\_de\_plata

values (47,'1235','CC',4478544777104789);

insert into clienti\_metoda\_de\_plata

values (99,'1241','CC',4478544777304789);

insert into clienti\_metoda\_de\_plata

values (580,'1246','PP',447854405304989);

insert into clienti\_metoda\_de\_plata

values (587,'1250','CC',447854407304489);

insert into clienti\_metoda\_de\_plata

values (147,'1255','CC',447853407304489);

insert into clienti\_metoda\_de\_plata

values (107,'1256','RB');

insert into clienti\_metoda\_de\_plata

values (1464,'1257','RB');

insert into clienti\_metoda\_de\_plata

values (14464,'1258','CC',447803400304449);

insert into clienti\_metoda\_de\_plata

values (14334,'1259','CD',447803400304119);

insert into clienti\_metoda\_de\_plata

values (5808,'1246','PP',447854407304989);

create table comenzi\_preluate (

id\_comanda varchar (12)primary key, -- am schimbat in varchar pentru a putea face tabelele pivot

id\_client varchar(10) constraint fk\_cpClienti references clienti(id\_client)ON UPDATE CASCADE ON DELETE RESTRICT,

status\_comanda varchar(15)not null constraint sts\_com CHECK (status\_comanda In ('anulata','efectuata')),

data\_plasare date not null,

id\_angajat numeric(5)constraint fk\_cpAng references angajati(id\_angajat)ON UPDATE CASCADE ON DELETE RESTRICT

);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('12','1230','anulata',to\_date('22/01/2019','DD/MM/YYYY'),9101);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('13','1230','efectuata',to\_date('23/01/2019','DD/MM/YYYY'),9101);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('14','1230','efectuata',to\_date('23/01/2018','DD/MM/YYYY'),9102);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('15','1231','anulata',to\_date('23/01/2018','DD/MM/YYYY'),9102);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('16','1231','efectuata',to\_date('23/01/2017','DD/MM/YYYY'),9102);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('17','1233','efectuata',to\_date('23/01/2017','DD/MM/YYYY'),9103);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('22','1230','anulata',to\_date('22/03/2019','DD/MM/YYYY'),9101);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('23','1230','efectuata',to\_date('23/06/2021','DD/MM/YYYY'),9101);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('29','1230','efectuata',to\_date('23/09/2018','DD/MM/YYYY'),9102);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('477','1231','anulata',to\_date('15/07/2018','DD/MM/YYYY'),9102);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('479','1231','efectuata',to\_date('16/01/2020','DD/MM/YYYY'),9102);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('564','1250','efectuata',to\_date('23/1/2021','DD/MM/YYYY'),9106);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('75464','1251','anulata',to\_date('15/02/2021','DD/MM/YYYY'),9102);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('6363','1252','efectuata',to\_date('16/03/2017','DD/MM/YYYY'),9102);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('5424','1253','efectuata',to\_date('23/4/2019','DD/MM/YYYY'),910);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('54334','1253','efectuata',to\_date('23/12/2020','DD/MM/YYYY'),9106);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('54304','1240','efectuata',to\_date('23/11/2019','DD/MM/YYYY'),9105);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('541134','1240','anulata',to\_date('23/03/2020','DD/MM/YYYY'),9105);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('601','1241','anulata',to\_date('23/03/2020','DD/MM/YYYY'),9104);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('602','1241','anulata',to\_date('23/03/2021','DD/MM/YYYY'),9103);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('603','1242','efectuata',to\_date('23/03/2021','DD/MM/YYYY'),9103);

insert into comenzi\_preluate(id\_comanda,id\_client,status\_comanda,data\_plasare,id\_angajat)

values('60899','1242','efectuata',to\_date('23/04/2021','DD/MM/YYYY'),9103);

create table facturi (

numar\_fact numeric (8)primary key,

id\_comanda varchar (12)constraint fk\_fctCP references comenzi\_preluate(id\_comanda) ON UPDATE CASCADE ON DELETE RESTRICT,

cod\_status\_fact varchar(6) constraint fk\_fctSF references status\_facturi(cod\_status\_fact)ON UPDATE CASCADE ON DELETE RESTRICT,

data\_fact date

);

insert into facturi(numar\_fact,id\_comanda,cod\_status\_fact,data\_fact)

values(565242,'54304','EM',to\_date('24/11/2019','DD/MM/YYYY'));

insert into facturi(numar\_fact,id\_comanda,cod\_status\_fact,data\_fact)

values(5652533,'603','DEP',to\_date('24/11/2019','DD/MM/YYYY'));

insert into facturi(numar\_fact,id\_comanda,cod\_status\_fact,data\_fact)

values(5652223,'60899','DEP',to\_date('24/11/2019','DD/MM/YYYY'));

insert into facturi(numar\_fact,id\_comanda,cod\_status\_fact,data\_fact)

values(55353,'60899','DEP',to\_date('24/04/2019','DD/MM/YYYY'));

insert into facturi(numar\_fact,id\_comanda,cod\_status\_fact,data\_fact)

values(56565,'541134','IN',to\_date('24/11/2019','DD/MM/YYYY'));

insert into facturi(numar\_fact,id\_comanda,cod\_status\_fact,data\_fact)

values(565365,'601','IN',to\_date('24/04/2020','DD/MM/YYYY'));

insert into facturi(numar\_fact,id\_comanda,cod\_status\_fact,data\_fact)

values(965365,'602','EM',to\_date('24/04/2021','DD/MM/YYYY'));

INSERT INTO facturi(numar\_fact, id\_comanda, cod\_status\_fact, data\_fact)

VALUES(1,'12','EM',to\_date('21/01/2019','DD/MM/YYYY'));

INSERT INTO facturi(numar\_fact, id\_comanda, cod\_status\_fact, data\_fact)

VALUES(2,'13','INCP',to\_date('21/01/2019','DD/MM/YYYY'));

INSERT INTO facturi(numar\_fact, id\_comanda, cod\_status\_fact, data\_fact)

VALUES(3,'14','IN',to\_date('21/12/2019','DD/MM/YYYY'));

INSERT INTO facturi(numar\_fact, id\_comanda, cod\_status\_fact, data\_fact)

VALUES(4,'15','DEP',to\_date('21/03/2019','DD/MM/YYYY'));

INSERT INTO facturi(numar\_fact, id\_comanda, cod\_status\_fact, data\_fact)

VALUES(5,'16','EM',to\_date('11/01/2018','DD/MM/YYYY'));

INSERT INTO facturi(numar\_fact, id\_comanda, cod\_status\_fact, data\_fact)

VALUES(6,'17','INCP',to\_date('15/11/2018','DD/MM/YYYY'));

INSERT INTO facturi(numar\_fact, id\_comanda, cod\_status\_fact, data\_fact)

VALUES(7,'22','DEP',to\_date('13/04/2020','DD/MM/YYYY'));

INSERT INTO facturi(numar\_fact, id\_comanda, cod\_status\_fact, data\_fact)

VALUES(8,'23','INCP',to\_date('07/01/2019','DD/MM/YYYY'));

INSERT INTO facturi(numar\_fact, id\_comanda, cod\_status\_fact, data\_fact)

VALUES(9,'29','EM',to\_date('30/03/2017','DD/MM/YYYY'));

INSERT INTO facturi(numar\_fact, id\_comanda, cod\_status\_fact, data\_fact)

VALUES(10,'477','INCP',to\_date('17/05/2019','DD/MM/YYYY'));

INSERT INTO facturi(numar\_fact, id\_comanda, cod\_status\_fact, data\_fact)

VALUES(11,'479','DEP',to\_date('16/01/2019','DD/MM/YYYY'));

INSERT INTO facturi(numar\_fact, id\_comanda, cod\_status\_fact, data\_fact)

VALUES(12,'564','INCP',to\_date('01/01/2019','DD/MM/YYYY'));

INSERT INTO facturi(numar\_fact, id\_comanda, cod\_status\_fact, data\_fact)

VALUES(13,'75464','INCP',to\_date('13/06/2017','DD/MM/YYYY'));

INSERT INTO facturi(numar\_fact, id\_comanda, cod\_status\_fact, data\_fact)

VALUES(14,'6363','EM',to\_date('30/06/2017','DD/MM/YYYY'));

INSERT INTO facturi(numar\_fact, id\_comanda, cod\_status\_fact, data\_fact)

VALUES(15,'5424','DEP',to\_date('23/01/2019','DD/MM/YYYY'));

INSERT INTO facturi(numar\_fact, id\_comanda, cod\_status\_fact, data\_fact)

VALUES(16,'54334','INCP',to\_date('21/01/2019','DD/MM/YYYY'));

create table plati (

id\_plata numeric (8)primary key,

numar\_fact numeric (8) constraint fk\_plFact references facturi(numar\_fact)ON UPDATE CASCADE ON DELETE RESTRICT,

data\_plata date,

suma\_plata decimal(6,2) constraint sum\_plt CHECK (suma\_plata>0),

id\_client\_plata numeric (10) constraint fk\_plcmp references clienti\_metoda\_de\_plata(id\_client\_plata)

);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(880,2,to\_date('24/04/2021','DD/MM/YYYY'), 1200,12);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(881,3,to\_date('23/01/2021','DD/MM/YYYY'), 330,1);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(882,4,to\_date('17/04/2019','DD/MM/YYYY'), 4500,2);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(883,5,to\_date('20/03/2021','DD/MM/YYYY'), 9000,3);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(884,5,to\_date('05/06/2021','DD/MM/YYYY'), 100,887);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(885,6,to\_date('01/01/2019','DD/MM/YYYY'), 1200,807);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(886,7,to\_date('06/06/2018','DD/MM/YYYY'), 1350,447);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(887,8,to\_date('30/06/2018','DD/MM/YYYY'), 3700,47);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(888,9,to\_date('17/04/2021','DD/MM/YYYY'), 200,99);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(889,10,to\_date('10/05/2020','DD/MM/YYYY'), 150,580);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(890,11,to\_date('13/12/2017','DD/MM/YYYY'), 380,587);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(891,12,to\_date('15/11/2018','DD/MM/YYYY'), 690,147);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(892,12,to\_date('16/04/2020','DD/MM/YYYY'), 670,107);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(893,16,to\_date('19/10/2021','DD/MM/YYYY'), 1100,5808);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(894,16,to\_date('16/02/2017','DD/MM/YYYY'), 1000,14334);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(895,16,to\_date('24/04/2017','DD/MM/YYYY'), 120,14464);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(896,965365,to\_date('30/03/2021','DD/MM/YYYY'), 730,12);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(897,965365,to\_date('02/07/2021','DD/MM/YYYY'), 613,1);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(898,13,to\_date('11/08/2020','DD/MM/YYYY'), 987,887);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(899,14,to\_date('22/07/2019','DD/MM/YYYY'), 320,99);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(900,15,to\_date('24/04/2018','DD/MM/YYYY'), 3200,587);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(901,55353,to\_date('18/06/2020','DD/MM/YYYY'), 1100,107);

INSERT INTO plati(id\_plata,numar\_fact, data\_plata, suma\_plata,id\_client\_plata) VALUES(902,56565,to\_date('09/09/2017','DD/MM/YYYY'), 1600,5808);

create table brand(

cod\_brand varchar(5) primary key,

descriere\_brand varchar(30)not null

);

insert into brand(cod\_brand,descriere\_brand)Values('PUM','Puma');

insert into brand(cod\_brand,descriere\_brand)Values('NIK','Nike');

insert into brand(cod\_brand,descriere\_brand)Values('SINS','Sinsay');

insert into brand(cod\_brand,descriere\_brand)Values('RBK','Sinsay');

insert into brand(cod\_brand,descriere\_brand)Values('GS','Guess');

insert into brand(cod\_brand,descriere\_brand)Values('ADD','Adidas');

insert into brand(cod\_brand,descriere\_brand)Values('UPA','U.S. Polo Assn');

create table produse (

id\_produs numeric(7)primary key,

cod\_tip\_produs varchar(6) constraint fk\_pdTP references tip\_produs(cod\_tip\_produs)ON UPDATE CASCADE ON DELETE RESTRICT,

nume\_prod varchar(50),

culoare\_prod varchar(30)not null,

marime\_prod varchar(4) constraint marime\_prod check (marime\_prod in ('XS','S','M','L','XL','XXL','XXXL')),

material\_prod varchar(25)not null,

cod\_brand varchar(5) constraint fk\_pdBrand references brand(cod\_brand)ON UPDATE CASCADE ON DELETE RESTRICT

);

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(1,'F','Fusta dreapta','rosu','XS','vascoza','UPA');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(2,'F','Fusta dreapta','rosu','S','vascoza','PUM');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(3,'F','Fusta dreapta','rosu','M','vascoza','UPA');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(4,'F','Fusta dreapta','rosu','L','vascoza','RBK');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(5,'F','Fusta dreapta','rosu','XL','vascoza','UPA');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(6,'F','Fusta dreapta','rosu','XXL','vascoza','UPA');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(7,'F','Fusta dreapta','rosu','XXXL','vascoza','RBK');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(8,'HAN','Hanorac cu imprimeu','gri','XS','bumbac','PUM');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(9,'HAN','Hanorac cu text brodat','gri','XXXL','bumbac','RBK');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(10,'HAN','Hanorac cu imprimeu','gri','S','bumbac','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(11,'HAN','Hanorac cu text brodat','gri','XXL','bumbac','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(12,'HAN','Hanorac cu text brodat','gri','XL','bumbac','UPA');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(158,'HAN','Hanorac Moomins','ROZ','XL','bumbac','UPA');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(150,'HAN','Hanorac Moomins','ROZ','XL','bumbac','UPA');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(159,'HAN','Hanorac Moomins','ROZ','S','bumbac','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(187,'M','Maiou Lola','ROZ','S','bumbac','PUM');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(1353,'M','Maiou Eca','alb','S','bumbac','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(1322,'M','Maiou Didi','alb','M','bumbac','UPA');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(1323,'TRI','Tricou cu franjuri','albastru','S','poliester','UPA');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(1773,'TRI','Tricou cu franjuri','albastru','M','poliester','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(173433,'TRI','Tricou cu franjuri','albastru','XS','poliester','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(173933,'PLVR','Pulover cu maneci bufante','crem','XS','lana','UPA');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)

values(33343,'PLVR','Pulover cu maneci bufante','crem','M','lana','PUM');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)VALUES(500,'F','fusta mulata din denim','albastru','S','denim','ADD');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(501,'F','fusta mulata din denim','albastru','M','denim','SINS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(502,'F','fusta mulata din denim','albastru','L','denim','PUM');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(503,'F','fusta mulata din denim','albastru','XL','denim','PUM');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(504,'F','fusta mulata din denim','albastru','XXL','denim','PUM');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)VALUES(505,'F','fusta mulata din denim','albastru','XXXL','denim','PUM');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)VALUES(506,'R','rochie vaporoasa de plaja','galben deschis','S','matase','ADD');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)VALUES(507,'R','rochie vaporoasa de plaja','galben deschis','XS','matase','SINS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(508,'R','rochie vaporoasa de plaja','galben deschis','M','matase','ADD');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(509,'R','rochie vaporoasa de plaja','galben deschis','L','matase','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)VALUES(510,'R','rochie vaporoasa de plaja','galben deschis','XL','matase','ADD');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(511,'R','rochie vaporoasa de plaja','galben deschis','XXL','matase','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)VALUES(512,'SAC','sacou elegant cu guler tunica','negru','S','stofa','SINS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(513,'SAC','sacou elegant cu guler tunica','negru','M','stofa','ADD');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(514,'SAC','sacou elegant cu guler tunica','negru','M','stofa','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)VALUES(515,'SAC','sacou elegant cu guler tunica','negru','L','stofa','SINS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)VALUES(516,'SAC','sacou elegant cu guler tunica','negru','XL','stofa','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(517,'SAC','sacou elegant cu guler tunica','negru','XXL','stofa','ADD');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(518,'SAC','sacou elegant cu guler tunica','albastru inchis','XXL','stofa','SINS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(519,'SAC','sacou elegant cu guler tunica','albastru inchis','XL','stofa','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(520,'SAC','sacou elegant cu guler tunica','albastru inchis','M','stofa','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)VALUES(521,'PLVR','pulover din catifea','alb','S','poliamida','ADD');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)VALUES(522,'PLVR','pulover din catifea','albastru','S','poliamida','ADD');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(523,'PLVR','pulover din catifea','verde','M','poliamida','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)VALUES(524,'PLVR','pulover din catifea','rosu','XS','poliamida','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(525,'PLVR','pulover din catifea','mov','L','poliamida','SINS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)VALUES(526,'BLG','blugi skiny','albastru','S','denim','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(527,'BLG','blugi skiny','negru','S','denim','SINS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand)VALUES(528,'BLG','blugi skiny','alb','S','denim','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(529,'BLG','blugi skiny','albastru','M','denim','ADD');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(530,'BLG','blugi skiny','albastru','L','denim','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(531,'BLG','blugi skiny','alb','XL','denim','GS');

insert into produse (id\_produs,cod\_tip\_produs,nume\_prod,culoare\_prod,marime\_prod,material\_prod,cod\_brand) VALUES(532,'BLG','blugi skiny','alb','XXL','denim','ADD');

create table discount(

id\_produs\_disc numeric(7) primary key constraint pk\_dscProd references produse(id\_produs),

discount varchar(3)

);

insert into discount(id\_produs\_disc,discount)values(532,'25%');

insert into discount(id\_produs\_disc,discount)values(501,'15%');

insert into discount(id\_produs\_disc,discount)values(512,'20%');

insert into discount(id\_produs\_disc,discount)values(522,'25%');

insert into discount(id\_produs\_disc,discount)values(510,'13%');

insert into discount(id\_produs\_disc,discount)values(529,'27%');

insert into discount(id\_produs\_disc,discount)values(505,'17%');

insert into discount(id\_produs\_disc,discount)values(519,'18%');

insert into discount(id\_produs\_disc,discount)values(520,'25%');

insert into discount(id\_produs\_disc,discount)values(515,'12%');

insert into discount(id\_produs\_disc,discount)values(531,'10%');

insert into discount(id\_produs\_disc,discount)values(511,'5%');

insert into discount(id\_produs\_disc,discount)values(507,'10%');

create table detalii\_comenzi(

id\_comanda varchar (12) constraint fk\_CpCPrel references comenzi\_preluate(id\_comanda)ON UPDATE CASCADE ON DELETE RESTRICT,

id\_produs numeric(7) constraint fk\_CpPd references produse(id\_produs)ON UPDATE CASCADE ON DELETE RESTRICT,

status\_produs varchar(25) constraint sts\_prod check(status\_produs in ('in afara stocului','in stoc')),

cantitate numeric(10) not null,

pret\_prod\_lei decimal(6,2) not null,

data\_exp date,--poate fi null deoarece daca e in afara stocului nu se mai livreaza

numar\_urmarire\_exp numeric(16) ,--poate fi null deoarece daca e in afara stocului nu se mai livreaza

--nu este unic deoarece pe o singura expediere pot fi mai multe produse

numar\_retur numeric(15),--nu este unic deoarece pe acelasi retur pot fi returnate mai multe produse cu id\_produs diferit

data\_retur date,

primary key (id\_comanda,id\_produs)

);

insert into detalii\_comenzi

values ('12',1,'in stoc',1,31,to\_date('24/04/2021','DD/MM/YYYY'),1536464647474);

insert into detalii\_comenzi

values ('13',2,'in stoc',10,100,to\_date('24/04/2021','DD/MM/YYYY'),1536464647474);

insert into detalii\_comenzi

values ('14',2,'in stoc',15,200,to\_date('20/04/2019','DD/MM/YYYY'),353673737447);

insert into detalii\_comenzi

values ('14',3,'in stoc',2,3000,to\_date('20/03/2019','DD/MM/YYYY'),3636784922,363647478,to\_date('10/04/2019','DD/MM/YYYY'));

insert into detalii\_comenzi

values ('15',4,'in afara stocului',9,400);

insert into detalii\_comenzi

values ('16',5,'in afara stocului',9,410);

insert into detalii\_comenzi

values ('17',6,'in stoc',12,760,to\_date('10/01/2019','DD/MM/YYYY'),34557563);

insert into detalii\_comenzi

values ('22',7,'in stoc',15,670,to\_date('11/03/2018','DD/MM/YYYY'),2346867);

insert into detalii\_comenzi

values ('23',8,'in stoc',60,890,to\_date('21/01/2020','DD/MM/YYYY'),8765437);

insert into detalii\_comenzi

values ('29',9,'in stoc',12,790,to\_date('06/05/2018','DD/MM/YYYY'),8765675);

insert into detalii\_comenzi

values ('477',10,'in stoc',13,321,to\_date('30/06/2018','DD/MM/YYYY'),3467874);

insert into detalii\_comenzi

values ('479',11,'in stoc',67,900,to\_date('10/01/2020','DD/MM/YYYY'),6566534,32436635,to\_date('15/01/2020','DD/MM/YYYY'));

insert into detalii\_comenzi

values ('564',12,'in stoc',15,876,to\_date('29/01/2019','DD/MM/YYYY'),864378);

insert into detalii\_comenzi

VALUES('12',33343,'in stoc',15,600,to\_date('13/07/2019','DD/MM/YYYY'),541470890);

insert into detalii\_comenzi

VALUES('13',173933,'in stoc',18,190,to\_date('13/06/2020','DD/MM/YYYY'),754790);

insert into detalii\_comenzi

VALUES('14',173433,'in afara stocului',13,900);

insert into detalii\_comenzi

VALUES('15',1773,'in stoc',23,700,to\_date('12/12/2017','DD/MM/YYYY'),8754368);

insert into detalii\_comenzi

VALUES('16',1322,'in stoc',12,450,to\_date('22/03/2019','DD/MM/YYYY'),587435);

insert into detalii\_comenzi

VALUES('17',1323,'in stoc',123,865,to\_date('16/04/2019','DD/MM/YYYY'),9865421);

insert into detalii\_comenzi

VALUES('22',1353,'in afara stocului',12,780);

insert into detalii\_comenzi

VALUES('23',187,'in stoc',15,896,to\_date('30/03/2019','DD/MM/YYYY'),6335680);

insert into detalii\_comenzi

VALUES('29',159,'in stoc',12,976,to\_date('23/02/2017','DD/MM/YYYY'),134679876);

insert into detalii\_comenzi

VALUES('477',530,'in stoc',86,8764,to\_date('25/05/2020','DD/MM/YYYY'),3486543,58743422,to\_date('03/06/2020','DD/MM/YYYY'));

insert into detalii\_comenzi

VALUES('479',532,'in stoc',43,8756,to\_date('10/01/2019','DD/MM/YYYY'),234762578);

insert into detalii\_comenzi

VALUES('564',503,'in stoc',56,7865,to\_date('12/08/2019','DD/MM/YYYY'),345609654);

insert into detalii\_comenzi

VALUES('75464',501,'in stoc',57,6894,to\_date('12/08/2020','DD/MM/YYYY'),97656643221);

insert into detalii\_comenzi

VALUES('6363',500,'in stoc',23,860,to\_date('18/08/2019','DD/MM/YYYY'),98765436);

insert into detalii\_comenzi

VALUES('6363', 520,'in afara stocului',16,809);

insert into detalii\_comenzi

VALUES('12',521,'in stoc',5,120,to\_date('28/09/2018','DD/MM/YYYY'),987654300);

insert into detalii\_comenzi

VALUES('13',522,'in stoc',6,90,to\_date('28/01/2019','DD/MM/YYYY'),987654301);

insert into detalii\_comenzi

VALUES('14',523,'in stoc',13,500,to\_date('16/01/2018','DD/MM/YYYY'),644680567);

insert into detalii\_comenzi

VALUES('15',524,'in afara stocului',3,60);

insert into detalii\_comenzi

VALUES('477',526,'in stoc',12,650,to\_date('29/12/2020','DD/MM/YYYY'),87654322,7643345689,to\_date('10/01/2021','DD/MM/YYYY'));

insert into detalii\_comenzi

VALUES('564',528,'in stoc',45,850,to\_date('15/11/2020','DD/MM/YYYY'),76521468086);

insert into detalii\_comenzi

VALUES('54334',527,'in stoc',56,980,to\_date('01/02/2020','DD/MM/YYYY'),087644678);

----------------------------------------------------------------

-- INTEROGARI

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**--Liță Cosmin-Constantin**

**-- 1) grupare si filtrare**

**--Care sunt clientii care au cumparat fuste si cate bucati li s-a livrat efectiv?**

**-- adica (doar comenzile EFECTUATE) cu status\_produs='in stoc'**

SELECT cl.id\_client,COUNT(pd.cod\_tip\_produs) AS numar\_fuste

FROM clienti cl INNER JOIN comenzi\_preluate cp ON cl.id\_client=cp.id\_client

INNER JOIN detalii\_comenzi dc ON cp.id\_comanda=dc.id\_comanda

INNER JOIN produse pd ON dc.id\_produs=pd.id\_produs

INNER JOIN tip\_produs tp ON pd.cod\_tip\_produs=tp.cod\_tip\_produs

WHERE tp.descriere\_produs='fusta' AND cp.status\_comanda='efectuata' AND status\_produs='in stoc'

GROUP BY cl.id\_client

**-- 2) subconsultari in clauza HAVING**

**--interogari ajutatoare**

**-- numarul de blugi in stoc -7 bucati**

SELECT tp.descriere\_produs,COUNT(pd.cod\_tip\_produs)

FROM tip\_produs tp INNER JOIN produse pd on tp.cod\_tip\_produs=pd.cod\_tip\_produs

WHERE tp.descriere\_produs='blugi'

GROUP BY tp.descriere\_produs

--numarul de blugi vanduti efectiv

--status comanda trebuie sa fie EFECTUAT pentru ca nu poti vinde un produs daca comanda este anulata

SELECT tp.descriere\_produs,COUNT(pd.cod\_tip\_produs)

FROM tip\_produs tp INNER JOIN produse pd ON tp.cod\_tip\_produs=pd.cod\_tip\_produs

INNER JOIN detalii\_comenzi dc ON pd.id\_produs=dc.id\_produs

INNER JOIN comenzi\_preluate cp ON dc.id\_comanda=cp.id\_comanda

WHERE tp.descriere\_produs='blugi' AND status\_comanda='efectuata'

GROUP BY tp.descriere\_produs

**--REZOLVARE**

**--CERINTA:Care este tipul produselor vandute intr-un numar mai mare decat blugii?**

**--status comanda trebuie sa fie efectuat pentru ca nu poti vinde un produs daca comanda este anulata**

SELECT tp.descriere\_produs,count(descriere\_produs) AS numar\_prod

FROM tip\_produs tp INNER JOIN produse pd ON tp.cod\_tip\_produs=pd.cod\_tip\_produs

INNER JOIN detalii\_comenzi dc ON pd.id\_produs=dc.id\_produs

INNER JOIN comenzi\_preluate cp ON dc.id\_comanda=cp.id\_comanda

WHERE status\_comanda='efectuata'

GROUP BY tp.descriere\_produs

HAVING COUNT(descriere\_produs)>(SELECT COUNT(pd.cod\_tip\_produs)

FROM tip\_produs tp INNER JOIN produse pd ON tp.cod\_tip\_produs=pd.cod\_tip\_produs

INNER JOIN detalii\_comenzi dc ON pd.id\_produs=dc.id\_produs

INNER JOIN comenzi\_preluate cp ON dc.id\_comanda=cp.id\_comanda

WHERE tp.descriere\_produs='blugi' AND status\_comanda='efectuata'

)

**-- 3) tabele pivot**

**--id client+nume**

SELECT id\_client\_pf,clienti\_pf.nume\_pf ||'-'||clienti\_pf.prenume\_pf

FROM clienti INNER JOIN clienti\_pf ON clienti.id\_client=clienti\_pf.id\_client\_pf

**-- REZOLVARE primele 3 tipuri de produse livrate catre fiecare client(indiferent daca este persoana fizica sau juridica) si numarul total de produse comandate pana atunci**

with primele\_3\_produse AS ( SELECT cp.id\_client,descriere\_produs, pd.nume\_prod,ROW\_NUMBER() OVER(PARTITION BY cp.id\_client ORDER BY cp.id\_client) AS nprod

FROM comenzi\_preluate cp INNER JOIN detalii\_comenzi dc ON cp.id\_comanda=dc.id\_comanda

INNER JOIN produse pd ON dc.id\_produs=pd.id\_produs

INNER JOIN tip\_produs tp ON pd.cod\_tip\_produs=tp.cod\_tip\_produs ),

total AS (SELECT 'VT=valoare\_totala', ' ', ' ', ' ',

SUM(COUNT(\*)) OVER() AS total FROM detalii\_comenzi)

SELECT \*

FROM (

SELECT cp.id\_client ,

Coalesce (nprod1.descriere\_produs,'') AS produs1,

Coalesce (nprod2.descriere\_produs,'') AS produs2,

Coalesce (nprod3.descriere\_produs,'') AS produs3,

COUNT (\*) AS Total\_nr\_produse

FROM comenzi\_preluate cp inner join detalii\_comenzi dc on cp.id\_comanda=dc.id\_comanda

INNER JOIN produse pd on dc.id\_produs=pd.id\_produs

INNER JOIN tip\_produs tp on pd.cod\_tip\_produs=tp.cod\_tip\_produs

LEFT OUTER JOIN primele\_3\_produse nprod1 on cp.id\_client=nprod1.id\_client and nprod1.nprod=1

LEFT OUTER JOIN primele\_3\_produse nprod2 on cp.id\_client=nprod2.id\_client and nprod2.nprod=2

LEFT OUTER JOIN primele\_3\_produse nprod3 on cp.id\_client=nprod3.id\_client and nprod3.nprod=3

group by nprod1.descriere\_produs,nprod2.descriere\_produs,nprod3.descriere\_produs,cp.id\_client

)y

UNION

SELECT \*

FROM total

ORDER BY 1

**-- REZOLVARE ALT EXERCITIU: primele 3 produse din fiecare comanda comandate de fiecare CLIENT PERSOANA FIZICA,-cu numele ei concatenat**

**-- numarul total de produse comandate pana atunci de la noi, TOTALUL trebuie sa ne dea numarul total de produse comandate de toti clientii persoane fizice**

with primele\_3\_produse as ( SELECT dc.id\_comanda,cf.id\_client\_pf,descriere\_produs, pd.nume\_prod,row\_number() over(partition by cf.id\_client\_pf order by cf.id\_client\_pf) as nprod,cf.nume\_pf||'-'||cf.prenume\_pf as nume\_pf

from clienti\_pf cf INNER JOIN clienti cl on cf.id\_client\_pf=cl.id\_client INNER JOIN comenzi\_preluate cp on cl.id\_client=cp.id\_client INNER JOIN detalii\_comenzi dc on cp.id\_comanda=dc.id\_comanda

INNER JOIN produse pd on dc.id\_produs=pd.id\_produs

INNER JOIN tip\_produs tp on pd.cod\_tip\_produs=tp.cod\_tip\_produs ),

total AS (SELECT 'VT=valoare\_totala', ' ', ' ', ' ',' ',

SUM(COUNT(\*)) OVER() AS total from clienti\_pf cf INNER JOIN clienti cl on cf.id\_client\_pf=cl.id\_client INNER JOIN comenzi\_preluate cp on cl.id\_client=cp.id\_client

INNER JOIN detalii\_comenzi dc on cp.id\_comanda=dc.id\_comanda

INNER JOIN produse pd on dc.id\_produs=pd.id\_produs

INNER JOIN tip\_produs tp on pd.cod\_tip\_produs=tp.cod\_tip\_produs )

SELECT \*

from (

SELECT dc.id\_comanda,cf.nume\_pf||'-'||cf.prenume\_pf as nume\_pf,

Coalesce (nprod1.descriere\_produs,'') as produs1,

Coalesce (nprod2.descriere\_produs,'') as produs2,

Coalesce (nprod3.descriere\_produs,'') as produs3,

COUNT (\*) AS Total\_nr\_produse

FROM clienti\_pf cf INNER JOIN clienti cl on cf.id\_client\_pf=cl.id\_client INNER JOIN comenzi\_preluate cp on cl.id\_client=cp.id\_client inner join detalii\_comenzi dc on cp.id\_comanda=dc.id\_comanda

INNER JOIN produse pd on dc.id\_produs=pd.id\_produs

INNER JOIN tip\_produs tp on pd.cod\_tip\_produs=tp.cod\_tip\_produs

LEFT OUTER JOIN primele\_3\_produse nprod1 on cp.id\_client=nprod1.id\_client\_pf and nprod1.nprod=1

LEFT OUTER JOIN primele\_3\_produse nprod2 on cp.id\_client=nprod2.id\_client\_pf and nprod2.nprod=2

LEFT OUTER JOIN primele\_3\_produse nprod3 on cp.id\_client=nprod3.id\_client\_pf and nprod3.nprod=3

GROUP BY nprod1.descriere\_produs,nprod2.descriere\_produs,nprod3.descriere\_produs,cf.nume\_pf||'-'||cf.prenume\_pf,dc.id\_comanda

)y

union

SELECT \*

from total

order by 1

**--4) interogare pseudo-recursiva**

**--CERINTA:Sa se numeroteze toate produsele de pe fiecare comanda a clientilor**

WITH produse AS

(SELECT comenzi\_preluate.id\_comanda,comenzi\_preluate.id\_client,

ROW\_NUMBER() OVER (PARTITION BY comenzi\_preluate.id\_comanda ORDER BY comenzi\_preluate.id\_comanda) AS numar\_prod,

produse.nume\_prod AS nume\_prod

FROM comenzi\_preluate

INNER JOIN detalii\_comenzi on comenzi\_preluate.id\_comanda=detalii\_comenzi.id\_comanda

INNER JOIN produse on detalii\_comenzi.id\_produs=produse.id\_produs

)

SELECT id\_comanda,id\_client,

string\_agg(DISTINCT CAST(RIGHT(' ' || numar\_prod,2) || ':' || nume\_prod AS VARCHAR), '; '

ORDER BY CAST(RIGHT(' ' || numar\_prod,2) || ':' || nume\_prod AS VARCHAR))

AS toate\_produsele

FROM produse

GROUP BY id\_comanda,id\_client

**--1)grupare si filtrare**

**--Cate metode de plata au ales clientii din judetul Galati?**

select cmp.id\_client, count(distinct(cmp.cod\_met\_plata)) as numar\_met\_plata

from clienti cl inner join clienti\_metoda\_de\_plata cmp on cl.id\_client=cmp.id\_client

inner join metode\_de\_plata mp on cmp.cod\_met\_plata=mp.cod\_met\_plata

where cl.jud='Galati'

group by cmp.id\_client

**--Cate comenzi are fiecare angajat?**

select ang.nume\_angajat,count(id\_comanda) as numar\_comenzi

from angajati ang inner join comenzi\_preluate cp on ang.id\_angajat=cp.id\_angajat

group by ang.nume\_angajat

order by numar\_comenzi desc

**--2)subconsultari in clauza HAVING**

**----Care sunt angajatii care au preluat mai multe comenzi decat Toader Andreea?**

select ang.nume\_angajat --,count(id\_comanda) as numar\_comenzi-cu aceasta completare avem si numarul de comenzi

from angajati ang inner join comenzi\_preluate cp on ang.id\_angajat=cp.id\_angajat

group by ang.nume\_angajat

having count(id\_comanda)>( select count(id\_comanda)

from angajati ang inner join comenzi\_preluate cp on ang.id\_angajat=cp.id\_angajat

where ang.nume\_angajat='Toader Andreea'

)

**--3)tabele pivot**

**--aflati numarul platii si sumele pentru anii 2018,2019,2020 si totalul general pe ani**

WITH

vanzari2018 AS (SELECT cp.id\_client, SUM(suma\_plata) AS vanzari

FROM plati pl inner join facturi fct on pl.numar\_fact=fct.numar\_fact

inner join comenzi\_preluate cp on fct.id\_comanda=cp.id\_comanda

WHERE EXTRACT (YEAR FROM data\_plata) = 2018

GROUP BY cp.id\_client),

vanzari2019 AS (SELECT cp.id\_client, SUM(suma\_plata) AS vanzari

FROM plati pl inner join facturi fct on pl.numar\_fact=fct.numar\_fact

inner join comenzi\_preluate cp on fct.id\_comanda=cp.id\_comanda

WHERE EXTRACT (YEAR FROM data\_plata) = 2019

GROUP BY cp.id\_client),

vanzari2020 AS (SELECT cp.id\_client, SUM(suma\_plata) AS vanzari

FROM plati pl inner join facturi fct on pl.numar\_fact=fct.numar\_fact

inner join comenzi\_preluate cp on fct.id\_comanda=cp.id\_comanda

WHERE EXTRACT (YEAR FROM data\_plata) = 2020

GROUP BY cp.id\_client),

vanzari2018\_2020 AS

(

SELECT 'TOTAL',

(SELECT SUM(suma\_plata)

FROM plati

WHERE EXTRACT (YEAR FROM data\_plata) = 2018 ) as vanzari2018,

(SELECT SUM(suma\_plata)

FROM plati

WHERE EXTRACT (YEAR FROM data\_plata) = 2019 ) as vanzari2019,

(SELECT SUM(suma\_plata)

FROM plati

WHERE EXTRACT (YEAR FROM data\_plata) = 2020 ) as vanzari2020

)

SELECT 1 AS ordine, x.\*

FROM

(SELECT comenzi\_preluate.id\_client AS clienti,

COALESCE(vanzari2018.vanzari, 0) AS vanzari2018,

COALESCE(vanzari2019.vanzari, 0) AS vanzari2019,

COALESCE(vanzari2020.vanzari, 0) AS vanzari2020

FROM comenzi\_preluate

LEFT JOIN vanzari2018 ON comenzi\_preluate.id\_client = vanzari2018.id\_client

LEFT JOIN vanzari2019 ON comenzi\_preluate.id\_client = vanzari2019.id\_client

LEFT JOIN vanzari2020 ON comenzi\_preluate.id\_client = vanzari2020.id\_client ) x

UNION

SELECT 2, vanzari2018\_2020.\*

FROM vanzari2018\_2020

ORDER BY ordine

**--4)sa se afle sumele de plata pentru fiecare client**

select id\_client, string\_agg(plati.numar\_fact||'('||plati.suma\_plata||')',',')as facturi\_sume

from comenzi\_preluate

inner join facturi on comenzi\_preluate.id\_comanda=facturi.id\_comanda

inner join plati on facturi.numar\_fact=plati.numar\_fact

group by id\_client

order by id\_client

**--1) Afisati numarul clientilor de gen feminin din Romania grupati pe orase.**

SELECT clienti.oras, COUNT(clienti.id\_client) as Nr\_Client

FROM clienti

INNER JOIN clienti\_pf ON clienti.id\_client = clienti\_pf.id\_client\_pf

WHERE clienti.tara = 'Romania' and clienti\_pf.gen='F'

GROUP BY clienti.oras

ORDER BY clienti.oras

**--2)Ce facturi s-au emis in prima luna calendaristica a vanzarilor ?**

SELECT \*

FROM facturi

WHERE EXTRACT (YEAR FROM data\_fact) || '-' || EXTRACT (MONTH FROM data\_fact) + 100 IN

(SELECT MIN(EXTRACT (YEAR FROM data\_fact) || '-' || 100 + EXTRACT (MONTH FROM data\_fact)) --selecteaza prima luna cu vanzari

FROM facturi)

**--3)Care sunt clientii care au mai putine comenzi date decat clientul 1230?**

WITH numar\_comenzi AS (

SELECT COUNT(\*) AS nr\_comenzi

FROM comenzi\_preluate

WHERE comenzi\_preluate.id\_client ='1230')

SELECT id\_comanda, COUNT(\*) AS n\_de\_comenzi

FROM comenzi\_preluate

WHERE comenzi\_preluate.id\_client ='1230'

GROUP BY id\_comanda

HAVING COUNT(\*) < (SELECT nr\_comenzi FROM numar\_comenzi)

**--4)Sa se afle produsele cu discount din fiecare comanda**

select id\_comanda, string\_agg(nume\_prod||'('||discount||')',',')as facturi\_sume

from detalii\_comenzi

inner join produse on detalii\_comenzi.id\_produs=produse.id\_produs

inner join discount on produse.id\_produs=discount.id\_produs\_disc

group by id\_comanda

order by id\_comanda

IMPORT TABELE IN R

#install.packages('tidyverse')

library(tidyverse)

## curatare sesiune curenta

rm(list = ls())

# install.packages('RPostgreSQL')

library(RPostgreSQL)

## incarcare driver PostgreSQL

drv <- dbDriver("PostgreSQL")

### A. Stabilirea conexiunii cu BD PostgreSQL

## Windows

con <- dbConnect(drv, dbname="proiect", user="postgres",

host = 'localhost', password="postgres",port='5433')

### B. Extragerea numelui fiecarei tabele

tables <- dbGetQuery(con,

"select table\_name from information\_schema.tables where table\_schema = 'public'")

tables

### C. Importul tuturor tabelelor

for (i in 1:nrow(tables)) {

# extragrea tabelei din BD PostgreSQL

temp <- dbGetQuery(con, paste("select \* from ", tables[i,1], sep=""))

# crearea dataframe-ului

assign(tables[i,1], temp)

}

### D. inchidere conexiuni PostgreSQL

for (connection in dbListConnections(drv) ) {

dbDisconnect(connection)

}

### E. Descarcare (din memorie) a driverului

dbUnloadDriver(drv)

### F. Salvarea tuturor dataframe-urilor din

### sesiunea curenta ca fisier .writeData

# # stergere obiecte inutile

rm(con, drv, temp, i, tables, connection)

#setwd()

setwd('E:/Facultate FEAA/FACULTATE anul 2/SEM 2/Baze de date 1/seminar/PROIECT/PROIECT')

getwd()

# salvare

save.image(file = 'proiect.RData')

# stergerea tuturor obiectelor din sesiunea curenta R

rm(list = ls())

load(file = 'proiect.RData')

REZOLVARE CERINTE IN R

**##Liță Cosmin-Constantin**

**##1)grupare si filtrare**

**## Care sunt clientii care au cumparat fuste si cate bucati au cumparat efectiv(doar comenzile EFECTUATE)?**

temp<-clienti%>%

inner\_join(comenzi\_preluate,by=c('id\_client'='id\_client'))%>%

inner\_join(detalii\_comenzi,by=c('id\_comanda'='id\_comanda'))%>%

inner\_join(produse,by=c('id\_produs'='id\_produs'))%>%

inner\_join(tip\_produs,by=c('cod\_tip\_produs'='cod\_tip\_produs'))%>%

filter(descriere\_produs=='fusta'& status\_comanda=='efectuata' & status\_produs=='in stoc')%>%

group\_by(id\_client)%>%

summarise (numar\_prod=n())

**##2)subconsultari**

**##Care este tipul produselor vandute intr-un numar mai mare decat blugii?**

temp<-tip\_produs%>%

inner\_join(produse,by=c('cod\_tip\_produs'='cod\_tip\_produs'))%>%

inner\_join(detalii\_comenzi,by=c('id\_produs'='id\_produs'))%>%

inner\_join(comenzi\_preluate,by=c('id\_comanda'='id\_comanda'))%>%

filter(status\_comanda=='efectuata')%>%

group\_by(descriere\_produs)%>%

summarise (numar\_prod=n())%>%

filter(numar\_prod>

(tip\_produs%>%

inner\_join(produse,by=c('cod\_tip\_produs'='cod\_tip\_produs'))%>%

inner\_join(detalii\_comenzi,by=c('id\_produs'='id\_produs'))%>%

inner\_join(comenzi\_preluate,by=c('id\_comanda'='id\_comanda'))%>%

filter(status\_comanda=='efectuata'& descriere\_produs=='blugi')%>%

tally() %>%

pull()

)

)

**##3) tabele pivot**

**## Primele 3 tipuri de produse livrate catre fiecare client(indiferent daca este persoana fizica sau juridica)**

## si numarul total de produse comandate pana atunci

temp<-separate((distinct(tip\_produs%>%

inner\_join(produse,by=c('cod\_tip\_produs'='cod\_tip\_produs'))%>%

inner\_join(detalii\_comenzi,by=c('id\_produs'='id\_produs'))%>%

inner\_join(comenzi\_preluate,by=c('id\_comanda'='id\_comanda'))%>%

group\_by(id\_client)%>%

select(descriere\_produs,id\_client))%>%

summarise(prod1\_prod2\_prod3=paste(descriere\_produs,collapse = '- '))),col=prod1\_prod2\_prod3,into=c("Prod1","Prod2","Prod3"),sep="-",fill='right')%>%

mutate(Prod2=if\_else(is.na(Prod2),'-',Prod2))%>%

mutate(Prod3=if\_else(is.na(Prod3),'-',Prod3))%>%

inner\_join(tip\_produs%>%

left\_join(produse,by=c('cod\_tip\_produs'='cod\_tip\_produs'))%>%

left\_join(detalii\_comenzi,by=c('id\_produs'='id\_produs'))%>%

left\_join(comenzi\_preluate,by=c('id\_comanda'='id\_comanda'))%>%

group\_by(id\_client)%>%

select(id\_client)%>%

summarise(id\_produs=n()),by=c('id\_client'='id\_client'))%>%

transmute('id\_client'=id\_client,'Produs1'=Prod1,'Produs2'=Prod2,'Produs3'=Prod3,'Total\_numar\_produse'=id\_produs)

new\_row<-data.frame('Total','-','-','-',(detalii\_comenzi%>%

count()))

names(new\_row)<-names(temp)

temp<-rbind(temp,new\_row)

**##---Sa se afle produsele si marimile de pe fiecare comanda a clientilor**

temp<-comenzi\_preluate%>%

inner\_join(detalii\_comenzi,by=c('id\_comanda'="id\_comanda"))%>%

inner\_join(produse,by=c('id\_produs'='id\_produs'))%>%

group\_by(id\_client,id\_comanda)%>%

summarise(lista\_produse=paste(nume\_prod,'(',marime\_prod,')', collapse=';'))

**## 4) interogare pseudo-recursiva**

**##CERINTA:Sa se numeroteze toate produsele de pe fiecare comanda a clientilor**

temp <- comenzi\_preluate %>%

inner\_join(detalii\_comenzi,by=c('id\_comanda'='id\_comanda')) %>%

inner\_join(produse,by=c('id\_produs'='id\_produs')) %>%

arrange(id\_comanda) %>%

group\_by(id\_comanda,id\_client) %>%

mutate (numar\_prod = row\_number()) %>%

summarise(produse\_comanda = paste(paste0(numar\_prod, ':', nume\_prod), collapse = '; ')) %>%

ungroup()

**#1.Cate metode de plata au ales clientii din judetul Galati?**

temp<-clienti %>%

inner\_join(clienti\_metoda\_de\_plata, by=c('id\_client'='id\_client'))%>%

inner\_join(metode\_de\_plata,by=c('cod\_met\_plata'='cod\_met\_plata'))%>%

filter(jud =='Galati')%>%

group\_by(id\_client)%>%

summarise(numar\_met\_plata=n())

**##2. Care sunt angajatii care au preluat mai multe comenzi decat Toader Andreea?**

temp<- angajati%>%

inner\_join(comenzi\_preluate, by=c('id\_angajat'='id\_angajat'))%>%

select(nume\_angajat)%>%

group\_by(nume\_angajat)%>%

summarise(numar\_de\_comenzi=n())%>%

filter(numar\_de\_comenzi >

(angajati%>%

inner\_join(comenzi\_preluate, by=c('id\_angajat'='id\_angajat'))%>%

filter(nume\_angajat=='Toader Andreea')%>%

tally()%>%

pull()

))

**##3. -aflati numarul platii si sumele pentru anii 2018,2019,2020 si totalul general pe ani.**

temp<- plati%>%

inner\_join(clienti\_metoda\_de\_plata, by=c('id\_client\_plata'='id\_client\_plata'))%>%

inner\_join(clienti,by=c('id\_client'='id\_client'))%>%

transmute(id\_client, suma\_plata, year = lubridate::year(data\_plata))%>%

filter(year %in% c(2018,2019,2020))%>%

group\_by(id\_client, year)%>%

summarise(vanzari=sum(suma\_plata))%>%

ungroup()%>%

spread(year, vanzari, fill=0)%>%

spread(year, vanzari, fill=0)%>%

arrange(id\_client)

**##4. sa se afle sumele de plata pt fiecare client**

temp<-comenzi\_preluate%>%

inner\_join(facturi,by=c('id\_comanda'="id\_comanda"))%>%

inner\_join(plati,by=c('numar\_fact'='numar\_fact'))%>%

group\_by(id\_client)%>%

summarise(lista\_produse=paste(numar\_fact,'(',suma\_plata,')', collapse=';'))

**##1) Afisati numarul clientilor de gen feminin din Romania grupati pe orase.**

temp<-clienti %>%

inner\_join(clienti\_pf,by=c('id\_client'='id\_client\_pf'))%>%

filter(tara=='Romania' & gen=='F')%>%

group\_by(oras)%>%

summarise(numar\_clienti=n())

**##2)Ce facturi s-au emis in prima luna calendaristica a vanzarilor ?**

temp <- facturi %>%

inner\_join(

facturi %>%

top\_n(-1, data\_fact) %>%

select (data\_fact)

)

**##3)Care sunt clientii care au mai putine comenzi date decat clientul 1230?**

temp <- comenzi\_preluate %>%

group\_by(id\_comanda) %>%

summarise (nr\_de\_comenzi= n()) %>%

ungroup() %>%

mutate (numar\_comenzi = if\_else(id\_client == '1230', nr\_de\_comenzi, 0L)) %>%

mutate (numar\_comenzi = max(numar\_comenzi)) %>%

filter (nr\_de\_comenzi < numar\_comenzi)

**##4)Sa se afle produsele cu discount din fiecare comanda**

temp<-comenzi\_preluate%>%

inner\_join(detalii\_comenzi,by=c('id\_comanda'="id\_comanda"))%>%

inner\_join(produse,by=c('id\_produs'='id\_produs'))%>%

inner\_join(discount,by=c('id\_produs'='id\_produs\_disc'))%>%

group\_by(id\_comanda)%>%

summarise(lista\_produse=paste(nume\_prod,'(',discount,')', collapse=';'))