

# PROIECT BAZE DE DATE - 2022

DUMITRU ANDREI-VICTOR

grupa 241

## 1.

Modelul ales prezinta achizitia unor diverse produse de catre alte firme mai mari ce au in componenta lor angajati specializati in diverse domenii, dar si experti in negociere (cei care se ocupa efectiv de achizitii)

In modelul creat am stabilit ca furnizorul are o locatie unica(a sediului, a fabricii) si de asemenea ca angajatii nu pot sa fie angajati ai mai multor firme(ci doar una singura).

De asemenea, am stabilit ca firmele trebuie sa apartina unei "aliante"(prin aceasta alianta m-am referit la o asociere de firme ce lucreaza in acelasi domeniu).

*IN RANDURILE URMATOARE AM DESCRIS IN DETALIU BAZA DE DATE(ENTITATILE, LEGATURILE ETC.)*

Entitatile create sunt:

- a)CONTINENT -> reprezinta continentele; are drept cheie primara "cod\_continent".
- b)REGIUNE -> reprezinta regiunile "strategice"(Orientul Mijlociu, Europa de Vest);are drept cheie primara "id\_regiune".
- c)TARA -> reprezinta tarile; are drept cheie primara "id\_tara"
- d)LOCATIE -> reprezinta partea mai specifica a adresei(cod postal, oras); are drept cheie primara "id\_locatie".
- e)FURNIZOR -> reprezinta producatorii mici si medii; cheia primara este "id\_furnizor".
- f)OFERTA -> reprezinta oferta pe care o face un agent din cadrul unei firme unui furnizor(ofertele nu sunt unice, sunt in general oferte-tip care au un pret destul de stabil); cheia primara este "id\_oferta".
- g)ANGAJAT -> reprezinta angajatii firmelor mari, acestia sunt de doua tipuri:agenti(cei ce negociaza si stabilesc contractele cu firmele) si specialistii in celelalte domenii(indiferent de domeniu); cheia primara este "cod\_ang".
- h)VINDE -> reprezinta un tabel asociativ stabilit intre ANGAJAT, OFERTA si FURNIZOR; cheia primara este compusa "id\_furnizor, suma, cod\_ang".
- i)FIRMA -> reprezinta firmele mari, cele ce se unesc in diverse aliante; cheia primara este "id\_firma".
- j)ACT\_CARITATE -> reprezinta diversele donatii facute de firme; cheia primara este "id\_act".
- k)ALIANTA -> reprezinta aliantele firmelor; cheia primara este "cod\_alianta".
- l)DOMENIU -> reprezinta domeniul de activitate al aliantelor(in modelul meu am presupus ca firmele din FIRMA nu pot exista in afara aliantelor); cheia primara este "cod\_domeniu".

Avem relatiiile:

- a)are(many-to-one):entitatile REGIUNE si CONTINENT
- b)este(many-to-one):entitatile TARA si REGIUNE
- c)exista(many-to-one):entitatile LOCATIE si TARA
- d)se stabileste(one-to-one):entitatile FURNIZOR si LOCATIE
- e)se propune(relatie de tip 3):entitatile ANGAJAT, OFERTA si FURNIZOR
- f)lucreaza(many-to-one):entitatile ANGAJAT si FIRMA
- g)face(many-to-one):entitatile FIRMA si ACT\_CARITATE
- h)face parte(many-to-one):entitatile FIRMA si ALIANTA
- i)este in(many-to-one):entitatile ALIANTA si DOMENIU

Avem urmatoarele atribute pentru entitatile:

a)CONTINENT

-denumire varchar2(20)

-> poate retine un sir de pana la 20 de caractere(bineinteles, dimensiunea se poate incrementa)

-> nu poate fi null si de asemenea trebuie sa fie unic

-> retine numele unui continent

-cod\_continent number(4)

->cheie primara

->poate retine un numar de pana la 4 cifre

b)REGIUNE:

-id\_regiune number(4)

->cheie primara

->poate retine un numar de pana la 4 cifre

-nume\_regiune varchar2(20)

->poate retine un sir de pana la 20 de caractere

->retine numele regiunii geografice

->nu poate fi null si de asemenea trebuie sa fie unic

-importanta\_regiune number(4)

->nu poate fi null

->retine o valoare de tip scor care sa sugereze importanta zonei din punct de

vedere comercial

-cod\_continent(4)

->foreign key ce refera cheia primara din tabelul

CONTINENT(cod\_continent)

c)TARA:

-id\_tara number(4)

->cheie primara

-nume\_tara varchar2(20)

->nu poate fi null

->este unic

->retine numele unei tari

-id\_regiune number(4)

->foreign key ce refera cheia primara din tabelul REGIUNE(id\_regiune)

->nu poate fi null

d)LOCATIE:

-id\_locatie number(4)

->cheie primara

-oras varchar2(20)

->diferit de null

->retine numele oraselor

-id\_tara number(4)

->diferit de null

->foreign key ce refera cheia primara din tabelul TARA(id\_tara)

-cod\_postal number(8)

->retine o valoare

e)FURNIZOR:

-id\_furnizor number(6)

->cheie primara

-id\_locatie number(4)

->foreign key ce refera cheia primara din tabelul LOCATIE(id\_locatie)

->diferit de null

-nume\_furnizor varchar(20)

->retine numele furnizorului, trebuie sa fie unic

f)DOMENIU:

-cod\_domeniu number(6)

->cheie primara

-popularitate number(4)

->retine un numar ce are rolul de a se comporta ca un rating(prin comparatie) al popularitatii domeniului respectiv

->nu poate fi null

g)ALIANȚA:

-cod\_alianta number(6)

->cheie primara

-cod\_domeniu number(6)

->foreign key ce refera cheia primara din tabelul

DOMENIU(cod\_domeniu)

->diferit de null

h)FIRMA:

-id\_firma number(6)

->cheie primara

-cod\_alianta number(6)

->foreign key ce refera cheia primara din tabelul ALIANȚA(cod\_alianta)

->diferit de null

-data\_infiintare date

->data infiintarii firmei(valoarea default este chiar sysdate)

-nume\_fondator varchar2(20)

->retine numele fondatorului firmei

->valoarea default este "UNKNOWN"

i)ACT\_CARITATE

-id\_act number(4)

->cheie primara

-bani\_donati number(10,2)

->retine suma donata in campania respectiva

->nu poate fi null

-id\_firma number(6)

->id-ul firmelor care au contribuit cu donatia respectiva  
->poate fi null(o firma nu doreste sa faca publica informatica)

j)ANGAJAT

-cod\_angajat number(6)  
->cheie primara  
-last\_name varchar2(15)  
->numele de familie al angajatului  
->nu poate fi null  
-first\_name varchar2(15)  
->prenumele angajatului  
->nu poate fi null  
-data\_angajare date  
->data la care a fost angajat salariatul  
->poate fi null(nu se mai cunoaste data angajarii)  
-comision number(4,2)  
->comisionul angajatului(daca este agent este diferit de null)  
-profesie varchar2(20)  
->profesia angajatului  
->nu poate fi null

k)OFERTA

-suma number(12,2)  
->cheie primara  
-tip\_livrare varchar2(20)  
->retine tipul de livrare("Express", "Periculoasa" etc)  
->valoarea default este "UNKNOWN"

l)VINDE

-suma number(12,2)  
->not null  
->foreign key ce refera cheia primara din tabelul OFERTA(suma)  
-cod\_angajat number(6)  
->not null  
->foreign key ce refera cheia primara din tabelul ANGAJAT(cod\_angajat)  
-id\_furnizor number(6)  
->not null  
->foreign key ce refera cheia primara din tabelul FURNIZOR(id\_furnizor)  
-data\_v date  
->data vanzarii

CONTINENT(cod\_continent#,denumire);  
REGIUNE(id\_regiune#,nume\_regiune,importanta\_regiune);  
TARA(id\_tara#,nume\_tara,id\_regiune);  
LOCATIE(id\_locatie#,id\_tara,nume\_tara,cod\_postal);  
FURNIZOR(id\_furnizor#,id\_locatie,nume\_furnizor);  
DOMENIU(cod\_domeniu#,popularitate);  
ALIANȚA(cod\_alianta#,cod\_domeniu);  
FIRMA(id\_firma#,cod\_alianta,data\_infiintare,nume\_fondator);  
ACT\_CARITATE(id\_act#,bani\_donati,id\_firma);  
ANGAJAT(cod\_angajat#,last\_name,first\_name,data\_angajare,comision,id\_firma);

```
OFERTA(suma#,tip_livrare);
VINDE(suma#,cod_angajat#,id_furnizor#, data_v);
```

## 2. & 3.

```
create table CONTINENT(
cod_continent number(4) constraint pkey_cont primary key,
denumire varchar2(20) constraint nume_cont not null,
constraint den_unic unique(denumire)
);
```

```
create table REGIUNE(
id_regiune number(4) constraint pkey_id_reg primary key,
nume_regiune varchar2(20) constraint nume_reg not null,
importanta_regiune number(4) constraint pkey_imp not null,
constraint n_reg unique(nume_regiune)
);
alter table REGIUNE
add (cod_continent number(4) not null);
desc regiune;
```

```
alter table REGIUNE
add constraint fk_reg foreign key(cod_continent) REFERENCES CONTINENT(cod_continent);
```

```
create table TARA(
id_tara number(4) constraint pkey_tara primary key,
nume_tara varchar2(20) constraint nume_tara not null,
id_regiune number(4) constraint id_reg_n not null,
constraint n_t unique(nume_tara),
constraint fk_tara foreign key(id_regiune)references REGIUNE(id_regiune)
);
```

```
create table LOCATIE(
id_locatie number(4) constraint pkey_loc primary key,
oras varchar2(20) not null,
id_tara number(4) not null,
cod_postal number(8),
constraint fk_locatie foreign key(id_tara)references TARA(id_tara)
);
```

```
create table FURNIZOR(
id_furnizor number(6) constraint pkey_furn primary key,
id_locatie number(4) constraint fkey_f not null,
nume_furnizor varchar(20) unique,--numele furnizorului poate fi necunoscut
constraint fk_furnizor foreign key(id_locatie) references LOCATIE(id_locatie)
);
```

```
create table DOMENIU(
cod_domeniu number(6) constraint pkey_dd primary key,
popularitate number(4) not null
);
```

```
create table ALIANTA(  
cod_alianta number(6) constraint pkey_al primary key,  
cod_domeniu(6) not null  
constraint fk_alian foreign key(cod_domeniu) references domeniu(cod_domeniu)  
);
```

```
create table FIRMA(  
id_firma number(6) constraint pk_firma primary key,  
cod_alianta number(6) constraint firma_al not null,  
data_infiintare date default sysdate,  
nume_fondator varchar2(20) default 'UNKNOWN',  
constraint fk_firma foreign key(cod_alianta) references alianta(cod_alianta)  
);
```

```
create table ACT_CARITATE(  
id_act number(4) constraint pk_act primary key,  
bani_donati number(10,2) not null,  
id_firma number(6),--poate avea null daca sunt donatii anononime din partea firmelor  
constraint fk_caritate foreign key(id_firma) references firma(id_firma)  
);
```

```
create table ANGAJAT(  
cod_angajat number(6) constraint pkk_angaj primary key,  
last_name varchar2(15) not null,  
first_name varchar2(15) not null,  
data_angajare date,  
comision number(4,2)  
);
```

```
create table oferta(  
suma number(12,2) constraint pk_oferta primary key,  
tip_livrare varchar2(20) default 'UNKNOWN'  
);
```

```
create table vinde(  
suma number(12,2) not null,  
cod_angajat number(6) not null,  
id_furnizor number(6) not null,  
constraint fk_vinde_s foreign key(suma) references oferta(suma),  
constraint fk_vinde_c foreign key(cod_angajat) references angajat(cod_angajat),  
constraint fk_vinde_i foreign key(id_furnizor) references furnizor(id_furnizor)  
);
```

```
alter table vinde  
add (data_v date);
```

```
alter table angajat  
add(id_firma number(6) not null);
```

```
ALTER TABLE ANGAJAT  
ADD CONSTRAINT fork_ang_firma FOREIGN KEY (id_firma) references FIRMA(id_firma);
```

-----INSERTARE

```
create sequence secv  
INCREMENT by 1  
START WITH 0  
MAXVALUE 100  
NOCYCLE;
```

```
create sequence codd_d_contt  
increment by 100  
start with 100  
maxvalue 1000  
nocycle;
```

```
create sequence iddd_taraaa  
increment by 10  
start with 10  
maxvalue 1000  
nocycle;
```

-----

```
desc continent;
```

```
insert into CONTINENT  
values(codd_d_contt.NEXTVAL,'Europa');
```

```
insert into CONTINENT  
values(codd_d_contt.NEXTVAL,'Asia');
```

```
insert into CONTINENT  
values(codd_d_contt.NEXTVAL,'America de Nord');
```

```
insert into CONTINENT  
values(codd_d_contt.NEXTVAL,'Africa');
```

```
insert into CONTINENT  
values(codd_d_contt.NEXTVAL,'America de Sud');
```

```
select *from continent;
```

-----

```
desc regiune;
```

```
insert into regiune  
values(secv.nextval, 'Africa de Nord', 4, 500);
```

```
select *from regiune;
```

```
insert into regiune  
values(1, 'Europa de Vest', 9, 200);
```

```
insert into regiune  
values(secv.nextval, 'Caraibe', 2, 400);
```

```
insert into regiune  
values(secv.nextval, 'Asia de Sud', 6, 300);
```

```
insert into regiune  
values(secv.nextval, 'Asia de Est', 9, 300);
```

```
insert into regiune  
values(secv.nextval, 'Europa Centrala', 7, 200);
```

```
insert into regiune  
values(secv.nextval, 'America de Nord', 10, 400);
```

-----

```
desc tara;  
select *from tara;
```

```
insert into tara  
values(iddd_taraaa.nextval, 'Germania', 1);
```

```
insert into tara  
values(10, 'Cehia', 6);
```

```
insert into tara  
values(iddd_taraaa.nextval, 'Jamaica', 3);
```

```
insert into tara  
values(iddd_taraaa.nextval, 'China', 5);
```

```
insert into tara  
values(iddd_taraaa.nextval, 'India', 4);
```

```
insert into tara  
values(iddd_taraaa.nextval, 'Franta', 1);
```

```
insert into tara  
values(iddd_taraaa.nextval, 'Algeria', 2);
```

```
insert into tara  
values(iddd_taraaa.nextval, 'Libia', 2);
```

```
insert into tara  
values(iddd_taraaa.nextval, 'SUA', 7);
```

```
insert into tara  
values(iddd_taraaa.nextval, 'Romania', 6);
```



```
insert into tara
values(iddd_taraaa.nextval, 'Japonia', 5);
```

```
insert into tara
values(iddd_taraaa.nextval, 'Luxemburg', 1);
```

```
-----
desc locatie;
select *from locatie;
```

```
insert into locatie(id_locatie,oras,id_tara)
values(25, 'Beijing', 40);
```

```
insert into locatie
values(50, 'Berlin', 20, 123456);
```

```
insert into locatie
values(75, 'Kingston', 30, 420420);
```

```
insert into locatie
values(100, 'Chennai', 50, 200100);
```

```
insert into locatie
values(125, 'Los Angeles', 100, 432123);
```

```
insert into locatie(id_locatie, oras, id_tara)
values(150, 'Oran', 70);
```

```
insert into locatie(id_locatie, oras, id_tara)
values(175, 'Tokyo', 120);
```

```
insert into locatie(id_locatie, oras, id_tara)
values(200, 'Mlada Boleslav', 10);
```

```
insert into locatie
values(999, 'Brasov', 110, 500408);
```

```
insert into locatie
values(250, 'Stuttgart', 20, 123444);
```

```
insert into locatie(id_locatie,oras,id_tara)
values(275, 'Shenzen', 40);
```

```
insert into locatie
values(300, 'Ettelbruck', 130, 200200);
```

```
insert into locatie
values(325, 'Alger', 70, 122221);
```

```
insert into locatie
values(400, 'Bucuresti', 110, 021301);
```

-----  
insert into furnizor  
values(1, 999, 'RomTech');

create sequence idd\_furnizor  
increment by 2  
start with 3  
maxvalue 1000  
nocycle;

insert into furnizor  
values(idd\_furnizor.nextval, 150,'Lah-Ahmid SRL');

insert into furnizor  
values(idd\_furnizor.nextval, 50,'GufenHaus');

insert into furnizor(id\_furnizor,id\_locatie)  
values(idd\_furnizor.nextval, 25);

insert into furnizor(id\_furnizor,id\_locatie)  
values(idd\_furnizor.nextval, 325);

insert into furnizor  
values(idd\_furnizor.nextval, 400,'Werder-Kopfhorer');

insert into furnizor  
values(idd\_furnizor.nextval, 175,'Aka Enpitsu');

insert into furnizor  
values(idd\_furnizor.nextval, 300,'Le Nain Dansant');

insert into furnizor  
values(idd\_furnizor.nextval, 175,'Zui Hao');

insert into furnizor  
values(idd\_furnizor.nextval, 125,'Madman Trevor Pie');

insert into furnizor  
values(idd\_furnizor.nextval, 150,'Badr Electronics');

insert into furnizor  
values(idd\_furnizor.nextval, 400,'Fratii MG');

insert into furnizor  
values(idd\_furnizor.nextval, 75,'Rasta Joy');

select\*from furnizor;

-----  
desc domeniu;

```
select *from domeniu;  
insert into domeniu  
values(150, 8);
```

```
insert into domeniu  
values(300, 3);
```

```
insert into domeniu  
values(450, 6);
```

```
insert into domeniu  
values(600, 7);
```

```
insert into domeniu  
values(750,2);
```

```
insert into domeniu  
values(1000,10);
```

```
insert into domeniu  
values(1150,9);
```

---

```
insert into alianta  
values(1,600);
```

```
insert into alianta  
values(2,300);
```

```
insert into alianta  
values(3,600);
```

```
insert into alianta  
values(4,150);
```

```
insert into alianta  
values(7,300);
```

```
insert into alianta  
values(6,450);
```

```
select *from alianta;
```

---

```
desc angajat;  
select *from angajat;
```

```
create sequence codd_angajatt  
increment by 100  
start with 100  
maxvalue 10000  
nocycle;
```

```

insert into angajat
values(coddd_angajatt.nextval, 'Villa', 'Jessie', to_date('12-01-1995'), 0.3, 'Agent', 400);

insert into angajat(cod_angajat,last_name,first_name,profesie, id_firma)
values(coddd_angajatt.nextval, 'Church', 'Michael','Specialist', 510);

insert into angajat(cod_angajat,last_name,first_name,data_angajare,profesie, id_firma)
values(coddd_angajatt.nextval, 'Kepa', 'Ahmed', to_date('12-10-2002'), 'Specialist', 500);

insert into angajat(cod_angajat,last_name,first_name,data_angajare,profesie, id_firma)
values(coddd_angajatt.nextval, 'Ming', 'Eiko', to_date('23-11-2005'), 'Specialist', 100);

insert into angajat
values(coddd_angajatt.nextval, 'Kahn', 'Samir', to_date('17-03-2019'), 0.15, 'Agent', 510);

insert into angajat
values(coddd_angajatt.nextval, 'Mandini', 'Paola', to_date('22-05-2020'), 0.05, 'Agent', 350);

insert into angajat(cod_angajat,last_name,first_name,profesie, id_firma)
values(coddd_angajatt.nextval, 'Sacic', 'Ocktavian', 'Specialist', 150);

insert into angajat
values(coddd_angajatt.nextval, 'Karpinarian', 'Dan', to_date('02-10-1999'), 0.35, 'Agent', 400);

insert into angajat
values(coddd_angajatt.nextval, 'Gibberson', 'Lance', to_date('12-12-1991'), 0.3, 'Agent', 50);

insert into angajat(cod_angajat,last_name,first_name,data_angajare,profesie, id_firma)
values(coddd_angajatt.nextval, 'Li', 'Wok Han', to_date('19-06-1984'), 'Specialist', 50);

insert into angajat(cod_angajat,last_name,first_name,profesie, id_firma)
values(coddd_angajatt.nextval, 'Cristescu', 'Adrian', 'Specialist', 680);

insert into angajat(cod_angajat,last_name,first_name,profesie, id_firma)
values(coddd_angajatt.nextval, 'Smith', 'Buddy', 'Specialist', 150);

insert into angajat(cod_angajat,last_name,first_name,comision,profesie, id_firma)
values(coddd_angajatt.nextval, 'Hollande', 'Armand',0.33, 'Agent', 150);

insert into angajat(cod_angajat,last_name,first_name,profesie, id_firma)
values(coddd_angajatt.nextval, 'Dahoty', 'Rebeca', 'Specialist', 50);

insert into angajat
values(coddd_angajatt.nextval, 'Dos Santos', 'Eric', to_date('08-07-1979'), 0.31, 'Agent', 50);

insert into angajat(cod_angajat,last_name,first_name,profesie, id_firma)
values(coddd_angajatt.nextval, 'Akoshua', 'Abena', 'Specialist', 400);

insert into angajat
values(coddd_angajatt.nextval, 'Mendy', 'Ekon', to_date('01-02-1984'), 0.1, 'Agent', 250);

```

```
insert into angajat(cod_angajat,last_name,first_name,profesie, id_firma)
values(coddd_angajatt.nextval, 'Toure', 'Abdoulaye','Specialist', 150);
```

```
insert into angajat(cod_angajat,last_name,first_name,profesie, id_firma)
values(coddd_angajatt.nextval, 'Roberts', 'Alice', 'Specialist', 200);
```

```
insert into angajat
values(coddd_angajatt.nextval, 'Adam', 'Eliska', to_date('24-04-1993'), 0.1, 'Agent', 250);
```

```
insert into angajat(cod_angajat,last_name,first_name,profesie, id_firma)
values(coddd_angajatt.nextval, 'Campbell', 'Aaron', 'Specialist', 350);
```

```
insert into angajat(cod_angajat,last_name,first_name,profesie, id_firma)
values(coddd_angajatt.nextval, 'Draganescu', 'Daniel', 'Specialist', 500);
```

```
insert into angajat
values(coddd_angajatt.nextval, 'Dvorak', 'Jindrich', to_date('07-09-1988'), 0.13, 'Agent', 250);
```

```
insert into angajat
values(coddd_angajatt.nextval, 'Rodriguez', 'Feranda', to_date('12-01-2016'), 0.6, 'Agent', 50);
```

```
-----
desc firma;
select *from firma;
```

```
insert into firma
values(50, 4, to_date('02-10-1954','dd-mm-yy'),'Charles Berhshawn');
```

```
insert into firma
values(100, 2, to_date('26-03-1989','dd-mm-yy'), 'Yao Ming');
```

```
insert into firma(id_firma, cod_alianta, data_infiintare)
values(150, 2, to_date('13-01-1999','dd-mm-yy'));
```

```
insert into firma(id_firma, cod_alianta, data_infiintare)
values(200, 1, to_date('16-08-1993','dd-mm-yy'));
```

```
insert into firma
values(250, 4, to_date('17-12-1958','dd-mm-yy'),'Charles Berhshawn');
```

```
insert into firma
values(400, 4, to_date('30-10-1968','dd-mm-yy'),'Breonna Berhshawn');
```

```
insert into firma
values(350, 2, to_date('15-05-2018','dd-mm-yy'),'Jun Tao Liu');
```

```
insert into firma
values(320, 3, to_date('02-06-2003','dd-mm-yy'),'Siko Doncic');
```

```
insert into firma
values(500, 7, to_date('19-04-2009','dd-mm-yy'),'Robert Domnescu');
```

```
insert into firma
values(510, 6, to_date('14-03-2012','dd-mm-yy'),'Francois Lamerde');
```

```
insert into firma
values(680, 7, to_date('09-01-2006','dd-mm-yy'),'Andrei Stoica');
```

```
-----
create sequence coddd_act
increment by 1
start with 1
maxvalue 100
nocycle;
```

```
select *from act_caritate;
desc act_caritate;
```

```
insert into act_caritate
values(coddd_act.nextval, 10000, 680);
```

```
insert into act_caritate
values(coddd_act.nextval, 35600.50, 100);
```

```
insert into act_caritate
values(coddd_act.nextval, 1500000, 500);
```

```
insert into act_caritate
values(coddd_act.nextval, 1000.25, 510);
```

```
insert into act_caritate
values(coddd_act.nextval, 90000.22, 320);
```

```
insert into act_caritate
values(coddd_act.nextval, 351752, 50);
```

```
insert into act_caritate
values(coddd_act.nextval, 1251151, 320);
```

```
insert into act_caritate(id_act, bani_donati)
values(coddd_act.nextval, 21250.54);
```

```
insert into act_caritate
values(coddd_act.nextval, 4686795, 500);
```

```
insert into act_caritate
values(coddd_act.nextval, 918214, 400);
```

```
-----
desc oferta;
SELECT*FROM OFERTA;
```

```
insert into oferta
```

```
values(192419.25,'EXPRESS');
```

```
INSERT INTO OFERTA  
VALUES(9539101, 'EXPRESS');
```

```
INSERT INTO OFERTA  
VALUES(10000, 'CU INTARZIERE');
```

```
INSERT INTO OFERTA  
VALUES(10000000,'LIVRARE 3 ZILE');
```

```
INSERT INTO OFERTA  
VALUES(401000, 'CU INTARZIERE');
```

```
INSERT INTO OFERTA  
VALUES(5161000, 'EXPRESS');
```

```
INSERT INTO OFERTA  
VALUES(20000, 'NESPECIFICAT');
```

```
INSERT INTO OFERTA  
VALUES(3100, 'CU INTARZIERE');
```

```
INSERT INTO OFERTA  
VALUES(5160, 'NEGOCIERE');
```

```
INSERT INTO OFERTA  
VALUES(1022000, 'NEGOCIERE');
```

```
INSERT INTO OFERTA  
VALUES(3100.50, 'CU INTARZIERE');
```

```
-----  
DESC VINDE;  
select *from vinde;
```

```
alter table vinde  
add constraint pk_compus_vinde primary key(suma, cod_angajat, id_furnizor);
```

```
insert into vinde  
values(9539101, 200, 1, TO_DATE('12-03-2001'));
```

```
insert into vinde  
values(10000, 700, 3, TO_DATE('16-09-2020'));
```

```
insert into vinde  
values(401000, 1000, 7, TO_DATE('17-06-2008'));
```

```
insert into vinde  
values(10000000, 1600, 1, TO_DATE('12-03-2011'));
```

```
insert into vinde
```

```
values(5161000, 700, 23, TO_DATE('12-03-2021'));
```

```
insert into vinde  
values(20000, 200, 5, TO_DATE('05-04-1997'));
```

```
insert into vinde  
values(1022000, 2600, 23, TO_DATE('22-12-1991'));
```

```
insert into vinde  
values(10000000, 2300, 19, TO_DATE('17-07-2014'));
```

```
insert into vinde  
values(5161000, 2300, 23, TO_DATE('02-03-2010'));
```

```
insert into vinde  
values(20000, 1800, 11, TO_DATE('05-05-1999'));
```

```
insert into vinde  
values(1022000, 2000, 9, TO_DATE('21-12-2004'));
```

```
insert into vinde  
values(5161000, 800, 13, TO_DATE('19-03-2021'));
```

```
insert into vinde  
values(20000, 1800, 5, TO_DATE('08-06-1992'));
```

```
insert into vinde  
values(1022000, 2300, 19, TO_DATE('30-03-1997'));
```

```
insert into vinde  
values(1022000, 2300, 5, TO_DATE('22-06-1995'));
```

```
COMMIT;
```



Oracle SQL Developer: BD

File Edit View Navigate Run Source Tools Window Help

Connections

Oracle Connectors

Tables (Filtered)

- ACT\_CARITATE
- ALANTA
- ANGAJAT
- ANGAJATI
- CAMPANIE
- CONTINE
- CONTINENT
- COUNTRIES
- DEPARTMENTS
- DOMENIU
- EMPLOYES
- FIRMA
- PLANIZOR
- XPS\_GRADES
- XPS\_HISTORY
- XPS
- LOCATIE
- LOCATIONS
- OPERTA
- PROIECT
- REGIONS

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimeTen Reports
- User Defined Reports

Worksheet - Query Builder

```
create sequence seqv
INCREMENT by 1
START WITH 0
MAXVALUE 100
NOCYCLE;

create sequence codd5_contct
increment by 100
start with 100
maxvalue 1000
nocycle;

desc continent;

insert into CONTINENT
values(codd5_contct.NEXTVAL,'Europa');

insert into CONTINENT
values(codd5_contct.NEXTVAL,'Asia');

insert into CONTINENT
values(codd5_contct.NEXTVAL,'America de Nord');

insert into CONTINENT
values(codd5_contct.NEXTVAL,'Africa');

insert into CONTINENT
values(codd5_contct.NEXTVAL,'America de Sud');

select *from continent;
```

Script Output x Query Result x

SQL All Rows Fetched: 5 in 0.006 seconds

COD_CONTINENT	CONTINENT
200	Europa
300	Asia
400	America de Nord
500	Africa
600	America de Sud

Activate Windows  
Go to Settings to activate Windows.

Line 30 Column 24 | Insert | Modified | Windows: C

Oracle SQL Developer: BD

File Edit View Navigate Run Source Tools Window Help

Connections

Oracle Connectors

Tables (Filtered)

- ACT\_CARITATE
- ALANTA
- ANGAJAT
- ANGAJATI
- CAMPANIE
- CONTINE
- CONTINENT
- COUNTRIES
- DEPARTMENTS
- DOMENIU
- EMPLOYES
- FIRMA
- PLANIZOR
- XPS\_GRADES
- XPS\_HISTORY
- XPS
- LOCATIE
- LOCATIONS
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Reports

- All Reports
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Worksheet - Query Builder

```
insert into locatie(id_locatie, oras, id_tara)
values(150, 'Oran', 70);

insert into locatie(id_locatie, oras, id_tara)
values(175, 'Tokyo', 120);

insert into locatie(id_locatie, oras, id_tara)
values(200, 'Miada Boleslav', 10);

insert into locatie
values(999, 'Brasov', 110, 500409);

insert into locatie
values(250, 'Stuttgart', 20, 123444);

insert into locatie(id_locatie,oras,id_tara)
values(275, 'Shenzen', 40);

insert into locatie
values(300, 'Ettelbruck', 130, 200200);

insert into locatie
values(325, 'Alger', 70, 122221);

insert into locatie
values(400, 'Bucuresti', 110, 021301);
```

Script Output x Query Result x

SQL All Rows Fetched: 14 in 0.013 seconds

ID_LOCATIE	ORAS	ID_TARA	COD_POSTAL
25	Beijing	40	(null)
50	Beilin	20	121656
75	Kington	30	420420
100	Chennai	50	200100
125	Los Angeles	100	432123
150	Oran	70	(null)
175	Tokyo	120	(null)
200	Miada Boleslav	10	(null)
999	Brasov	110	500409
250	Stuttgart	20	123444
275	Shenzen	40	(null)
300	Ettelbruck	130	200200
325	Alger	70	122221
400	Bucuresti	110	21301

Activate Windows  
Go to Settings to activate Windows.

Line 108 Column 22 | Insert | Modified | Windows: C

Click on an identifier with the Control key down to perform 'Go to Declaration'

Oracle SQL Developer: BD

File Edit View Navigate Run Source Tools Window Help

Connections

Oracle Connectors

Tables (Filtered)

- ACT\_CANTATE
- ALANTA
- ANGAIAT
- ANGAIATI
- CAMPANIE
- CONTINE
- CONTINENT
- COUNTRIES
- DEPARTMENTS
- DOMENIU
- EMPLOYES
- FERMA
- PARNEZOR
- JOB\_GRADES
- JOB\_HISTORY
- XOS
- LOCATIE
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- All Reports
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Worksheet

Query Builder

```
values(codd_contct.NEXTVAL,'America de Sud');

select *from continent;

desc regiune;

insert into regiune
values(secr.nextval, 'Africa de Nord', 4, 500);

select *from regiune;

insert into regiune
values(1, 'Europa de Vest', 5, 200);

insert into regiune
values(secr.nextval, 'Caraiibe', 2, 400);

insert into regiune
values(secr.nextval, 'Asia de Sud', 6, 300);

insert into regiune
values(secr.nextval, 'Asia de Est', 9, 300);

insert into regiune
values(secr.nextval, 'Europa Centrala', 7, 200);

insert into regiune
values(secr.nextval, 'America de Nord', 10, 400);
```

Script Output

Query Result

All Rows Fetched: 7 in 0.001 seconds

ID_REGIUNE	NAME_REGIUNE	IMPORTANTA_REGIUNE	COD_CONTINENT
1	2Africa de Nord	4	500
2	1Europa de Vest	5	200
3	3Caraiibe	2	400
4	4Asia de Sud	6	300
5	5Asia de Est	9	300
6	6Europa Centrala	7	200
7	7America de Nord	10	400

Activate Windows  
Go to Settings to activate Windows.

Oracle SQL Developer: BD

File Edit View Navigate Run Source Tools Window Help

Connections

Oracle Connectors

Tables (Filtered)

- ACT\_CANTATE
- ALANTA
- ANGAIAT
- ANGAIATI
- CAMPANIE
- CONTINE
- CONTINENT
- COUNTRIES
- DEPARTMENTS
- DOMENIU
- EMPLOYES
- FERMA
- PARNEZOR
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Worksheet

Query Builder

```
desc targa;

select *from targa;

insert into targa
values(1056,targa.nextval, 'Germania', 1);

insert into targa
values(10, 'Cehia', 6);

insert into targa
values(1056,targa.nextval, 'Jamaica', 3);

insert into targa
values(1056,targa.nextval, 'China', 5);

insert into targa
values(1056,targa.nextval, 'India', 4);

insert into targa
values(1056,targa.nextval, 'Franta', 1);

insert into targa
values(1056,targa.nextval, 'Algeria', 2);

insert into targa
values(1056,targa.nextval, 'Libia', 2);

insert into targa
values(1056,targa.nextval, 'SUA', 7);
```

Script Output

Query Result

All Rows Fetched: 12 in 0.002 seconds

ID_TARGA	NAME_TARGA	ID_REGIUNE
1	20 Germania	1
2	10 Cehia	6
3	30 Jamaica	3
4	40 China	5
5	50 India	4
6	60 Franta	1
7	70 Algeria	2
8	80 Libia	2
9	100 SUA	7
10	110 Romania	6
11	120 Japonia	5
12	130 Luxemburg	1

Activate Windows  
Go to Settings to activate Windows.

Oracle SQL Developer: BD

File Edit View Navigate Run Source Tools Window Help

Connections

- CONTINENT
- COUNTRIES
- DEPARTMENTS
- DOMENIU
- EMPLOYEES
- FIRMA
- REGIUNE
- SPONSOR
- JOB\_GRADES
- JOB\_HISTORY
- XORS
- LOCATIE
- LOCATIONS
- OPERTA
- PROJECT
- REGIONS
- REGULINE
- SPONSOR
- TARA
- VRINE
- WORKS\_ON
- Vensi
- Indeksi
- Packages
- Procedures

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- User Defined Reports

Worksheet - Query Builder

```

create sequence codd_act
increment by 1
start with 1
maxvalue 100
nocycle;

select * from act_caritate;
desc act_caritate;

insert into act_caritate
values (codd_act.nextval, 10000, 680);

insert into act_caritate
values (codd_act.nextval, 35600, 50, 100);

insert into act_caritate
values (codd_act.nextval, 1500000, 500);

insert into act_caritate
values (codd_act.nextval, 1000.25, 510);

insert into act_caritate
values (codd_act.nextval, 90000.22, 320);

insert into act_caritate
values (codd_act.nextval, 351752, 50);

insert into act_caritate
values (codd_act.nextval, 1251151, 320);

insert into act_caritate
values (codd_act.nextval, 1251151, 320);

```

Script Output x Query Result x

SQL All Rows Fetched: 12 in 0.001 seconds

ID_ACT	BAN_DOMANI	ID_FIRMA
1	2	50000
2	3	50000
3	4	35600,5
4	5	1500000
5	6	10000
6	7	1000,25
7	8	90000,22
8	9	351752
9	10	1251151
10	11	21250,54
11	12	466795
12	13	918214

Activate Windows  
Go to Settings to activate Windows.

Click on an identifier with the Control key down to perform 'Go to Declaration'

Line 268 Column 27 | Insert | Modified | Windows

Oracle SQL Developer: BD

File Edit View Navigate Run Source Tools Window Help

Connections

- CONTINENT
- COUNTRIES
- DEPARTMENTS
- DOMENIU
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- FIRMA
- REGIUNE
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- JOB\_HISTORY
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- SPONSOR
- TARA
- VRINE
- WORKS\_ON
- Vensi
- Indeksi
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- Procedures

Reports

- All Reports
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- TimeTen Reports
- User Defined Reports

Worksheet - Query Builder

```

values (750, 3);

insert into domeniu
values (1000, 10);

insert into domeniu
values (1150, 9);

insert into alianta
values (1, 600);

insert into alianta
values (2, 300);

insert into alianta
values (3, 600);

insert into alianta
values (4, 150);

insert into alianta
values (7, 300);

insert into alianta
values (6, 450);

select * from alianta;

```

Script Output x Query Result x

SQL All Rows Fetched: 6 in 0.002 seconds

COD_ALIANTA	COD_DOMENIU
1	1
2	2
3	3
4	4
5	7
6	6

Activate Windows  
Go to Settings to activate Windows.

Click on an identifier with the Control key down to perform 'Go to Declaration'

Line 248 Column 22 | Insert | Modified | Windows

Oracle SQL Developer: BD

File Edit View Navigator Run Source Tools Window Help

Connections

Workspace Query Builder

```
insert into angajat(cod_angajat,last_name,first_name,profesie, id_firma)
values(coddd_angajat.nextval, 'Church', 'Michael', 'Specialist', 510);

insert into angajat(cod_angajat,last_name,first_name,data_angajare,profesie, id_firma)
values(coddd_angajat.nextval, 'Depe', 'Abmed', to_date('12-10-2002'), 'Specialist', 500);

insert into angajat(cod_angajat,last_name,first_name,data_angajare,profesie, id_firma)
values(coddd_angajat.nextval, 'Ming', 'Eiko', to_date('23-11-2005'), 'Specialist', 100);

insert into angajat
values(coddd_angajat.nextval, 'Kahn', 'Samir', to_date('17-03-2019'), 0.15, 'Agent', 510);

insert into angajat
values(coddd_angajat.nextval, 'Mandini', 'Paola', to_date('22-05-2020'), 0.05, 'Agent', 350);

insert into angajat(cod_angajat,last_name,first_name,profesie, id_firma)
values(coddd_angajat.nextval, 'Sacic', 'Oktavian', 'Specialist', 150);

insert into angajat
```

Script Output x Query Result x

All Rows Fetched: 24w 0.003 seconds

	COD_ANGAJAT	LAST_NAME	FIRST NAME	DATA_ANGAJARE	COMISION	PROFESIE	ID_FIRMA
5	700	Kahn	Samir	17-03-2019	0.15	Agent	510
6	900	Mandini	Paola	22-05-2020	0.05	Agent	350
7	900	Sacic	Oktavian	(null)	(null)	Specialist	150
8	1000	Karpinariian	Dan	02-10-1999	0.35	Agent	400
9	1100	Gibberzon	Lance	12-12-1991	0.3	Agent	80
10	1200	Li	Wol Ren	16-06-1994	(null)	Specialist	50
11	1300	Cristescu	Adrian	(null)	(null)	Specialist	600
12	1400	Smith	Buddy	(null)	(null)	Specialist	150
13	1600	Hollande	Armand	(null)	0.33	Agent	150
14	1700	Dahoty	Rebecca	(null)	(null)	Specialist	80
15	1800	Doe Santos	Eric	08-07-1979	0.11	Agent	50
16	1900	Aboshua	Abena	(null)	(null)	Specialist	400
17	2000	Hendy	Ekon	01-02-1994	0.1	Agent	250
18	2100	Touze	Abdoulaye	(null)	(null)	Specialist	150
19	2200	Roberts	Alice	(null)	(null)	Specialist	200
20	2300	Kean	Eliaka	24-04-1993	0.1	Agent	250
21	2400	Campbell	Aaron	(null)	(null)	Specialist	350
22	2500	Draganescu	Daniel	(null)	(null)	Specialist	500
23	2600	Dvorak	Jindrich	07-09-1988	0.13	Agent	250
24	2700	Rodriguez	Peranda	12-01-2016	0.6	Agent	50

Click on an identifier with the Control key down to perform 'Go to Declaration'

Activate Windows  
Go to Settings to activate Windows.

Oracle SQL Developer: BD

File Edit View Navigator Run Source Tools Window Help

Connections

Workspace Query Builder

```
desc domeniu;
select * from domeniu;
insert into domeniu
values (150, 9);

insert into domeniu
values (300, 3);

insert into domeniu
values (450, 6);

insert into domeniu
values (600, 7);

insert into domeniu
values (750, 2);

insert into domeniu
values (1000, 10);

insert into domeniu
values (1150, 9);

insert into alinta
values (1, 600);
```

Script Output x Query Result x

All Rows Fetched: 7w 0.003 seconds

	COD_DOMENIU	POPULARITATE
1	150	8
2	300	3
3	450	6
4	600	7
5	750	2
6	1000	10
7	1150	9

Click on an identifier with the Control key down to perform 'Go to Declaration'

Activate Windows  
Go to Settings to activate Windows.

Oracle SQL Developer: BD

File Edit View Navigate Run Source Tools Window Help

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- CONTINENT
- COUNTRIES
- DEPARTMENTS
- DEMEBU
- EMPLOYEES
- FIRMA
- FURNIZOR
- XIS\_GRADES
- XIS\_HISTORY
- XIS
- LOCATE
- LOCATIONS
- OPERTA
- PROIECT
- REGIONS
- REGULINE
- SPONSOR
- TARA
- VICE
- WORKS\_ON
- VIEWS
- INDEXES
- PACKAGES
- PROCEDURES

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Worksheet - Query Builder

```
insert into firma
values(50, 4, to_date('02-10-1994','dd-mm-yy'),'Charles Berhabaw');

insert into firma
values(100, 2, to_date('26-03-1989','dd-mm-yy'),'Yao Ming');

insert into firma(id_firma, cod_allanta, data_infintare)
values(150, 2, to_date('13-01-1999','dd-mm-yy'));

insert into firma(id_firma, cod_allanta, data_infintare)
values(200, 1, to_date('16-08-1993','dd-mm-yy'));

insert into firma
values(250, 4, to_date('17-12-1958','dd-mm-yy'),'Charles Berhabaw');

insert into firma
values(400, 4, to_date('30-10-1968','dd-mm-yy'),'Breonna Berhabaw');

insert into firma
values(350, 2, to_date('15-05-2018','dd-mm-yy'),'Jun Tao Liu');

insert into firma
values(320, 3, to_date('02-06-2003','dd-mm-yy'),'Siko Domic');

insert into firma
values(500, 7, to_date('19-04-2009','dd-mm-yy'),'Robert Domescou');

insert into firma
values(510, 6, to_date('14-03-2012','dd-mm-yy'),'Francois Lemerde');
```

Script Output - Query Result

All Rows Fetched: 11 in 0.002 seconds

ID_FIRMA	COD_ALLANTA	DATA_INFINTARE	NOME_FONDATEOR
1	50	02-10-1994	Charles Berhabaw
2	200	16-08-1993	OSOSOSON
3	150	213-01-1999	OSOSOSON
4	100	226-03-1989	Yao Ming
5	250	417-12-1958	Charles Berhabaw
6	400	930-10-1968	Breonna Berhabaw
7	350	215-05-2018	Jun Tao Liu
8	320	302-06-2003	Siko Domic
9	500	719-04-2009	Robert Domescou
10	510	614-03-2012	Francois Lemerde
11	490	709-01-2006	Andrei Stolica

Activate Windows  
Go to Settings to activate Windows.

Oracle SQL Developer: BD

File Edit View Navigate Run Source Tools Window Help

Connections

- Oracle Connections
- BD
- Tables (Filtered)
- ACT\_CARITATE
- ALLANTA
- ANGAJAT
- ANGAJATI
- CAMPANIE
- CONTINE
- CONTINENT
- COUNTRIES
- DEPARTMENTS
- DEMEBU
- EMPLOYEES
- FIRMA
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Worksheet - Query Builder

```
insert into furnizor
values(id_furnizor.nextval, 400, 'Merder-Ropphozee');

insert into furnizor
values(id_furnizor.nextval, 175, 'Aka Espitau');

insert into furnizor
values(id_furnizor.nextval, 300, 'Le Main Dansant');

insert into furnizor
values(id_furnizor.nextval, 175, 'Zui Hao');

insert into furnizor
values(id_furnizor.nextval, 125, 'Madman Trevor Pie');

insert into furnizor
values(id_furnizor.nextval, 150, 'Badr Electronics');

insert into furnizor
values(id_furnizor.nextval, 400, 'Fratt1 NG');

insert into furnizor
values(id_furnizor.nextval, 75, 'Rasta Joy');
```

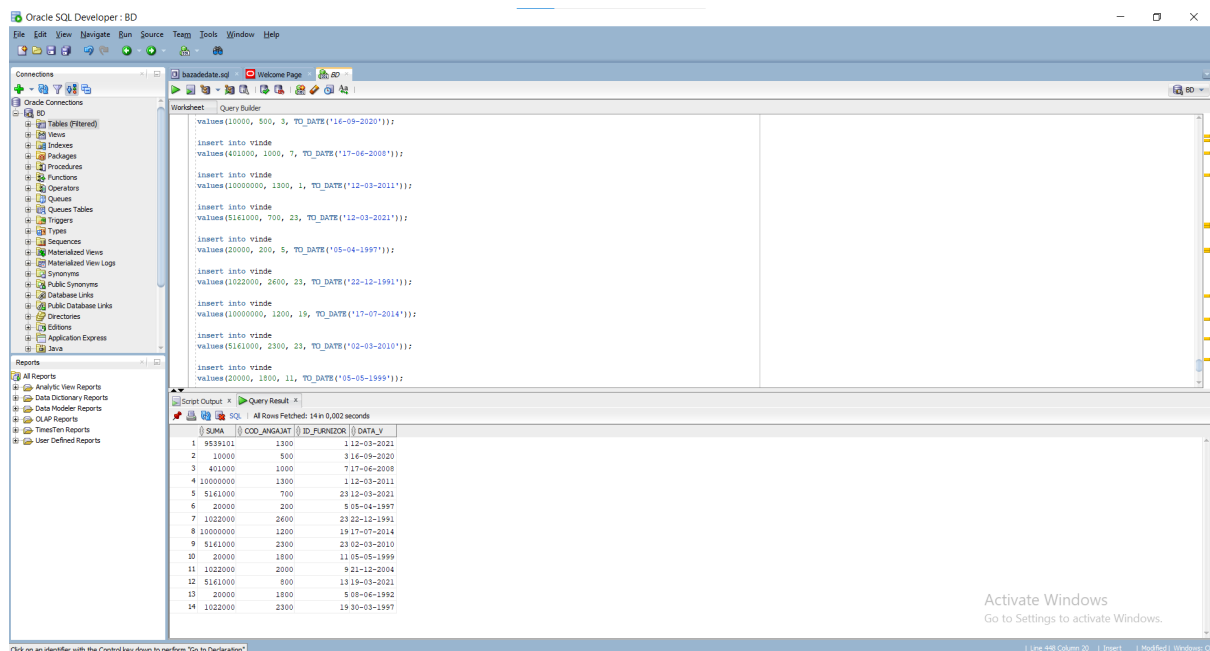
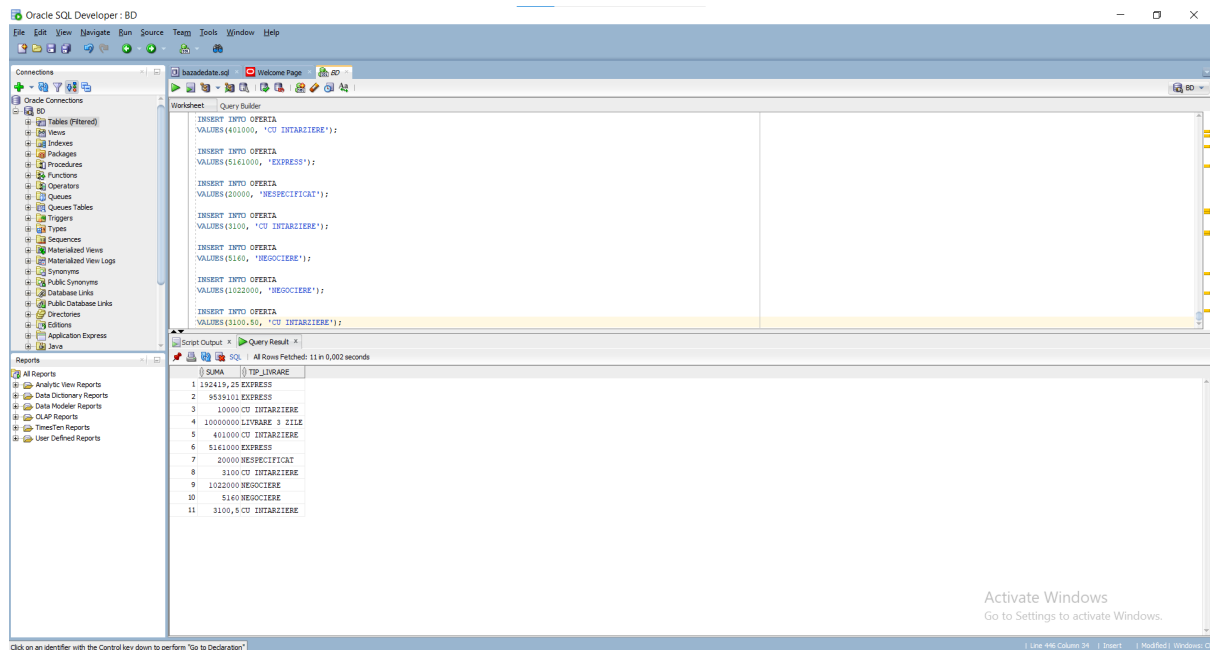
select\*from furnizor;

Script Output - Query Result

All Rows Fetched: 13 in 0.002 seconds

ID_FURNIZOR	ID_LOCATE	NOME_FURNIZOR
1	1	999KmTech
2	3	150Lab-Ahmid SRL
3	5	50OufenHass
4	7	25 (null)
5	9	325 (null)
6	11	400Merder-Ropphozee
7	13	175Aka Espitau
8	15	300Le Main Dansant
9	17	175Zui Hao
10	19	125Madman Trevor Pie
11	21	150Badr Electronics
12	23	400Fratt1 NG
13	25	75Rasta Joy

Activate Windows  
Go to Settings to activate Windows.



10.

--triggerul ne opreste din a face modificari(insert, update, delete) asupra tabelului angajat in zilele de sambata,  
--duminica sau in afara intervalului orar 06:00 - 23:59

create or replace trigger trigger10\_dav

before insert or update or delete on ang

begin

if(to\_char(sysdate, 'DAY') LIKE 'SAMBATA%')

then raise\_application\_error(-20001, 'NU SE POATE MODIFICA SAMBATA');

elsif (to\_char(sysdate, 'DAY') LIKE 'DUMINICA%')

then raise\_application\_error(-20002, 'NU SE POATE MODIFICA DUMINICA');

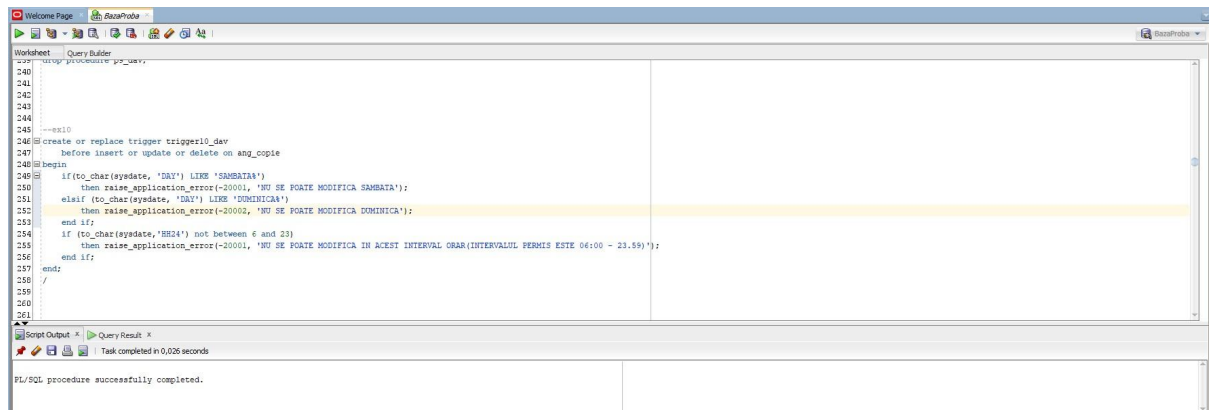
end if;

if (to\_char(sysdate, 'HH24') not between 6 and 23)

```

        then raise_application_error(-20001, 'NU SE POATE MODIFICA IN ACEST INTERVAL
        ORAR(INTERVALUL PERMIS ESTE 06:00 - 23.59));
    end if;
end;
/

```

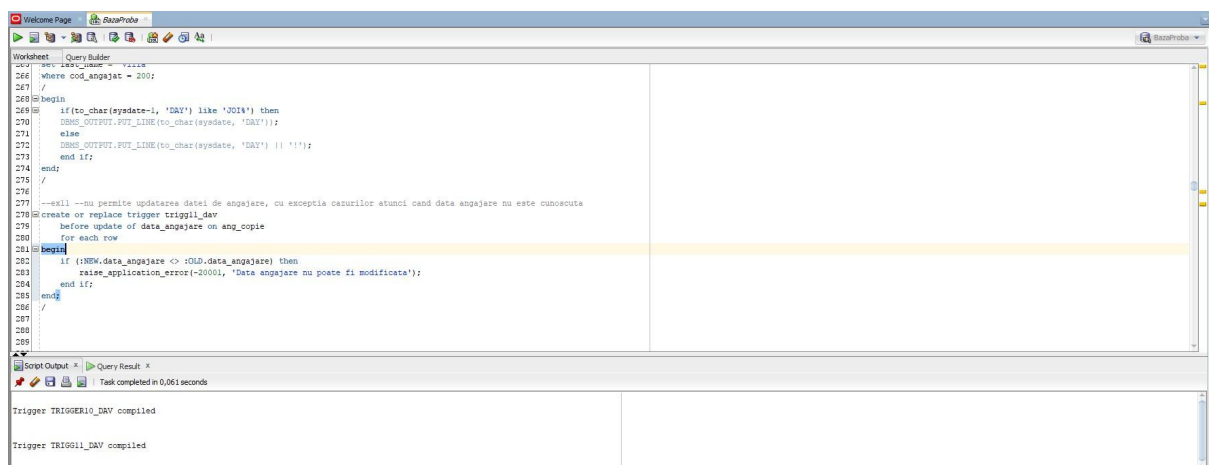


## 11.

```

--ex11
--nu permite updatarea datei de angajare, cu exceptia cazurilor in care data angajare nu este cunoscuta
create or replace trigger trigg11_dav
before update of data_angajare on ang
for each row
begin
    if (:NEW.data_angajare <> :OLD.data_angajare) then
        raise_application_error(-20001, 'Data angajare nu poate fi modificata');
    end if;
end;

```



## 12.

```

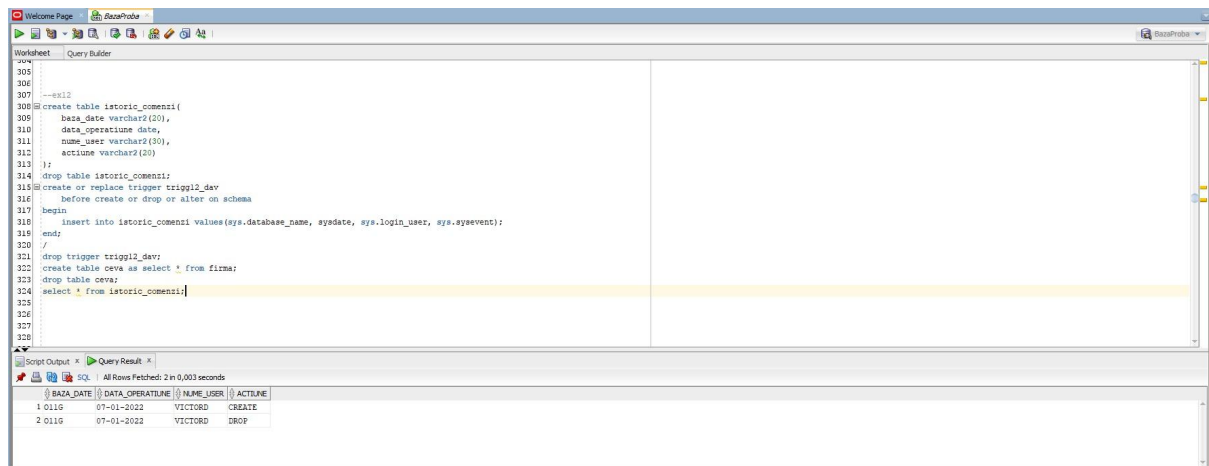
--se retin modificarile facute asupra bazei de date in tabelul istoric_comenzi
--ex12

```

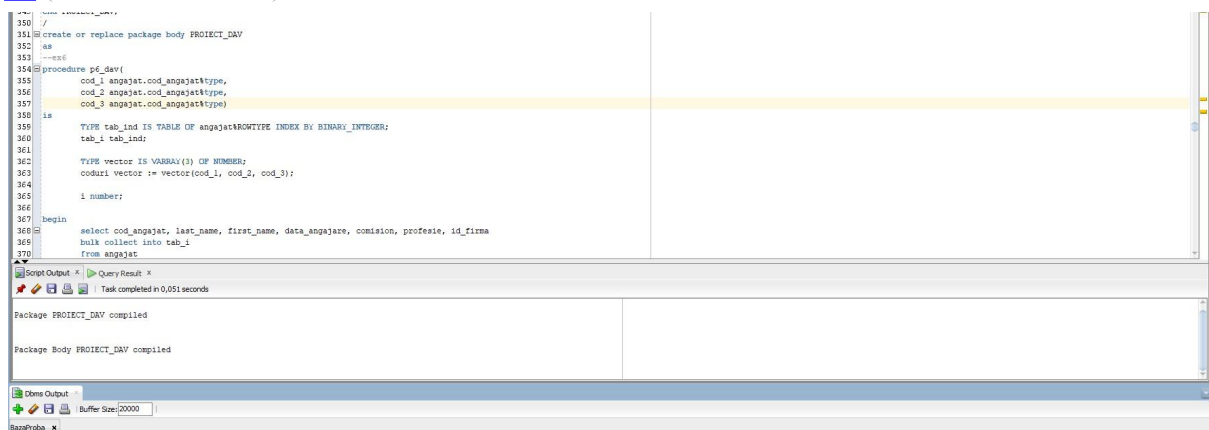
```

create table istoric_comenzi(
    baza_date varchar2(20),
    data_operatiune date,
    nume_user varchar2(30),
    actiune varchar2(20)
);
drop table istoric_comenzi;
create or replace trigger trigg12_dav
    before create or drop or alter on schema
begin
    insert into istoric_comenzi values(sys.database_name, sysdate, sys.login_user, sys.sysevent);
end;
/
drop trigger trigg12_dav;
create table ceva as select * from firma;
drop table ceva;
select * from istoric_comenzi;

```



### 13.(contine cerintele 6-9)



```

create or replace package PROIECT_DAV
as procedure p6_dav(
    cod_1 angajat.cod_angajat%type,
    cod_2 angajat.cod_angajat%type,
    cod_3 angajat.cod_angajat%type);

```



```

        function f7_dav return varchar2;
        function f8_dav(ida act_caritate.id_act%type) return number;
        procedure p9_dav(continentt continent.denumire%type);
end PROIECT_DAV;
/
create or replace package body PROIECT_DAV
as
--ex6
--transmite 3 coduri de angajati unei proceduri care:sa retina datele complete despre angajatii respectivi intr-o
--colectie suplimentara, sa mareasca cu 0.1 comisionul angajatilor ce au comisionul mai mic de 0.2, respectiv
--50% al celor avand comisionul <0.5(cei avand comision peste 0.5 nu vor avea comisionul modificat).
procedure p6_dav(
        cod_1 angajat.cod_angajat%type,
        cod_2 angajat.cod_angajat%type,
        cod_3 angajat.cod_angajat%type)
is
        TYPE tab_ind IS TABLE OF angajat%ROWTYPE INDEX BY BINARY_INTEGER;
        tab_i tab_ind;

        TYPE vector IS VARRAY(3) OF NUMBER;
        coduri vector := vector(cod_1, cod_2, cod_3);

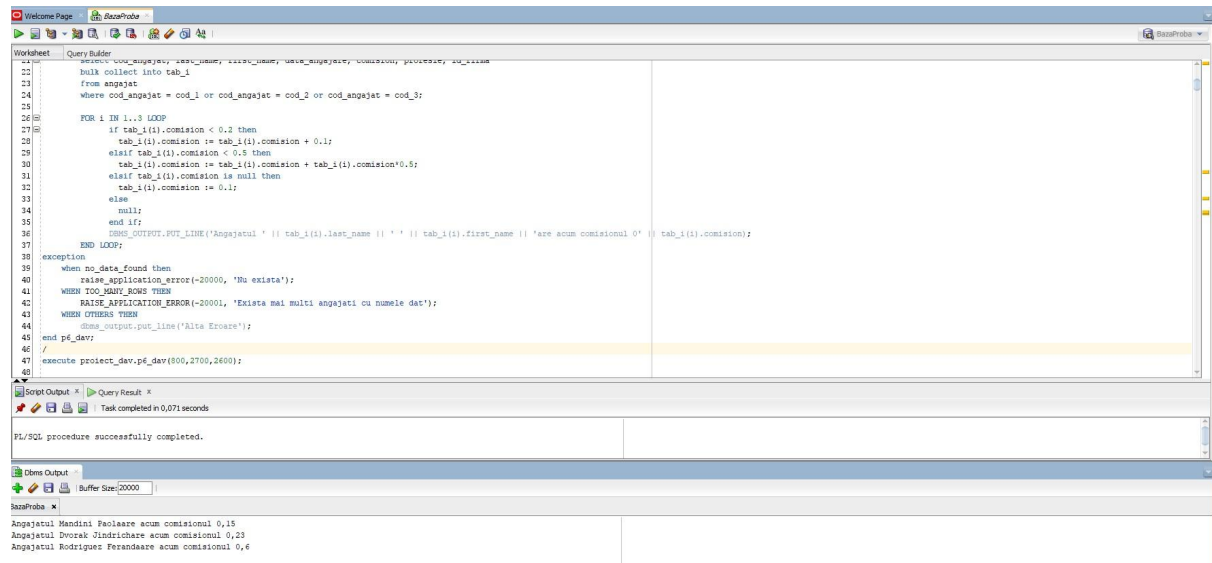
        i number;

begin
        select cod_angajat, last_name, first_name, data_angajare, comision, profesie, id_firma
        bulk collect into tab_i
        from angajat
        where cod_angajat = cod_1 or cod_angajat = cod_2 or cod_angajat = cod_3;

        FOR i IN 1..3 LOOP
        if tab_i(i).comision < 0.2 then
        tab_i(i).comision := tab_i(i).comision + 0.1;
        elsif tab_i(i).comision < 0.5 then
        tab_i(i).comision := tab_i(i).comision + tab_i(i).comision*0.5;
        elsif tab_i(i).comision is null then
        tab_i(i).comision := 0.1;
        else
        null;
        end if;
        DBMS_OUTPUT.PUT_LINE('Angajatul ' || tab_i(i).last_name || ' ' || tab_i(i).first_name || 'are acum
comisionul 0' || tab_i(i).comision);
        END LOOP;

exception
        when no_data_found then
        raise_application_error(-20000, 'Nu exista');
        WHEN TOO_MANY_ROWS THEN
        RAISE_APPLICATION_ERROR(-20001, 'Exista mai multi angajati cu numele dat');
        WHEN OTHERS THEN
        dbms_output.put_line('Alta Eroare');
end p6_dav;

```



--ex7 sa se returneze tara cu cele mai multe locatii(in caz de egalitate, se compara alfabetic). Sa se afiseze  
 --corespunzator pt fiecare tara cate locatii are(in ordinea numarului de locatii, iar in caz de egalitate -> alfabetic)

function f7\_dav

return VARCHAR2 is

tara\_finala tara.ume\_tara%type;

max\_locatii number;

v\_tara tara.ume\_tara%type;

v\_nr number;

cursor c is

select nume\_tara n\_tara, count(id\_locatie) nr\_loc

from tara t, locatie l

where t.id\_tara = l.id\_tara(+)

group by nume\_tara

order by 2, 1;

begin

max\_locatii := 0;

open c;

loop

fetch c into v\_tara, v\_nr;

exit when c%notfound;

DBMS\_OUTPUT.PUT\_LINE(v\_tara || ' si ' || v\_nr);

if v\_nr > max\_locatii then

tara\_finala := v\_tara;

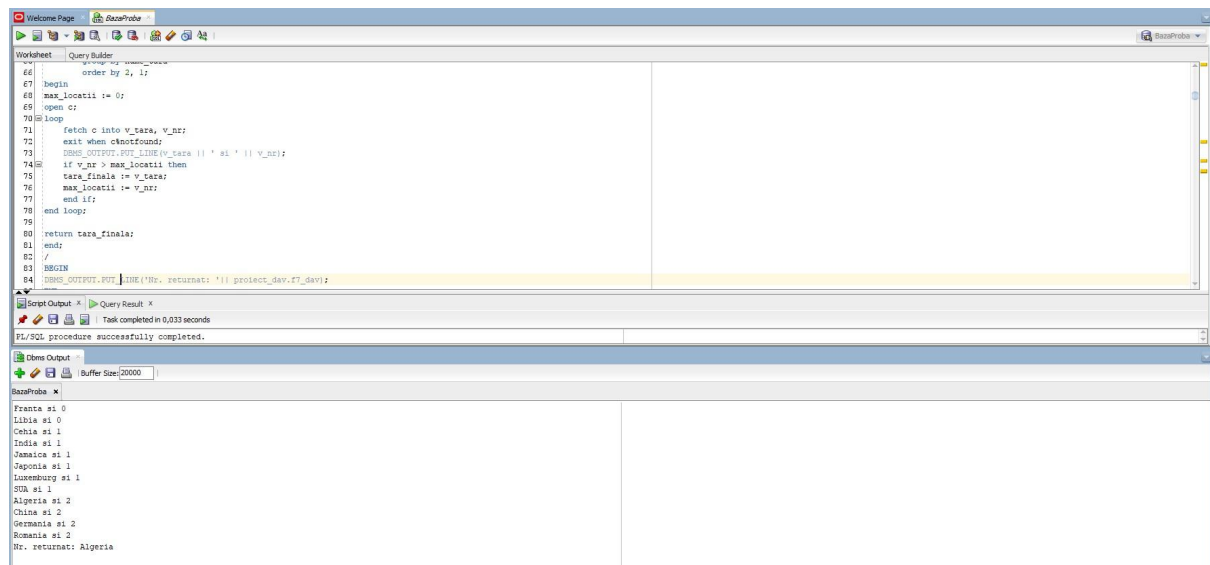
max\_locatii := v\_nr;

end if;

end loop;

return tara\_finala;

end;



--ex8 Returneaza nr de angajati al unei firme care a facut actul de caritate transmis ca parametru si afiseaza  
--angajatii respectivi

--exceptii:nu exista actul respectiv, donatia a fost anonima, donatia a fost a unei firme fara angajati, alte  
exceptii(intoarce -1)

function f8\_dav(ida act\_caritate.id\_act%type)

return number is

TYPE tbl IS TABLE OF angajat%ROWTYPE INDEX BY BINARY\_INTEGER;

tx tbl;

nr number;

gasit number := -1;

i number;

NO\_ANG exception;

NR\_NEGASIT exception;

ANONIM exception;

begin

select count(\*)

into gasit

from act\_caritate

where id\_act = ida;

if gasit < 1 then

RAISE NR\_NEGASIT;

end if;

select id\_firma

into nr

from act\_caritate

where id\_act = ida;

if nr is null then

raise ANONIM;

end if;

select cod\_angajat, last\_name, first\_name, data\_angajare, comision, profesie, a.id\_firma

```

bulk collect into tx
from angajat a, firma f, act_caritate c
where c.id_act = ida and f.id_firma = c.id_firma and a.id_firma = f.id_firma;

if tx.count < 1 then
RAISE NO_ANG;
end if;

nr := tx.count;
DBMS_OUTPUT.PUT_LINE('ANGAJATII SUNT:');
FOR i IN 1..nr LOOP
DBMS_OUTPUT.PUT_LINE(i || ' ' || tx(i).last_name || ' ' || tx(i).first_name);
END LOOP;

return nr;
exception
when NR_NEGASIT then
DBMS_OUTPUT.PUT_LINE('Eroare! Numarul actului de caritate e gresit!');
return -1;
when ANONIM then
DBMS_OUTPUT.PUT_LINE('Eroare! Donatia a fost anonima!');
return -1;
when NO_ANG then
DBMS_OUTPUT.PUT_LINE('Eroare! Firma nu are in prezent angajati!');
return -1;
when others then
DBMS_OUTPUT.PUT_LINE('EROARE!');
return -1;
end;
```

Worksheet Query Builder

```
139 exception
140 when NR_NEGASIT then
141     DBMS_OUTPUT.PUT_LINE('Eroare! Numarul actului de caritate e gresit!');
142     return -1;
143 when ANONIM then
144     DBMS_OUTPUT.PUT_LINE('Eroare! Donatia a fost anonima!');
145     return -1;
146 when NO_ANG then
147     DBMS_OUTPUT.PUT_LINE('Eroare! Firma nu are in prezent angajati!');
148     return -1;
149 when others then
150     DBMS_OUTPUT.PUT_LINE('EROARE!');
151     return -1;
152 end;
153 /
154 BEGIN
155     DBMS_OUTPUT.PUT_LINE('Nr angajati: '|| project_dev.fs_dav(12));
156 END;
```

Script Output x Query Result x

Task completed in 0,043 seconds

DBMS Output

Buffer Size: 20000

BazaProba x

Eroare! Numarul actului de caritate e gresit!  
Nr angajati: -1

Worksheet Query Builder

```
136 END LOOP;
137
138 return nr;
139 exception
140 when NR_NEGASIT then
141     DBMS_OUTPUT.PUT_LINE('Eroare! Numarul actului de caritate e gresit!');
142     return -1;
143 when ANONIM then
144     DBMS_OUTPUT.PUT_LINE('Eroare! Donatia a fost anonima!');
145     return -1;
146 when NO_ANG then
147     DBMS_OUTPUT.PUT_LINE('Eroare! Firma nu are in prezent angajati!');
148     return -1;
149 when others then
150     DBMS_OUTPUT.PUT_LINE('EROARE!');
151     return -1;
152 end;
153 /
154 BEGIN
155     DBMS_OUTPUT.PUT_LINE('Nr angajati: '|| project_dev.fs_dav(1));
156 END;
```

Script Output x Query Result x

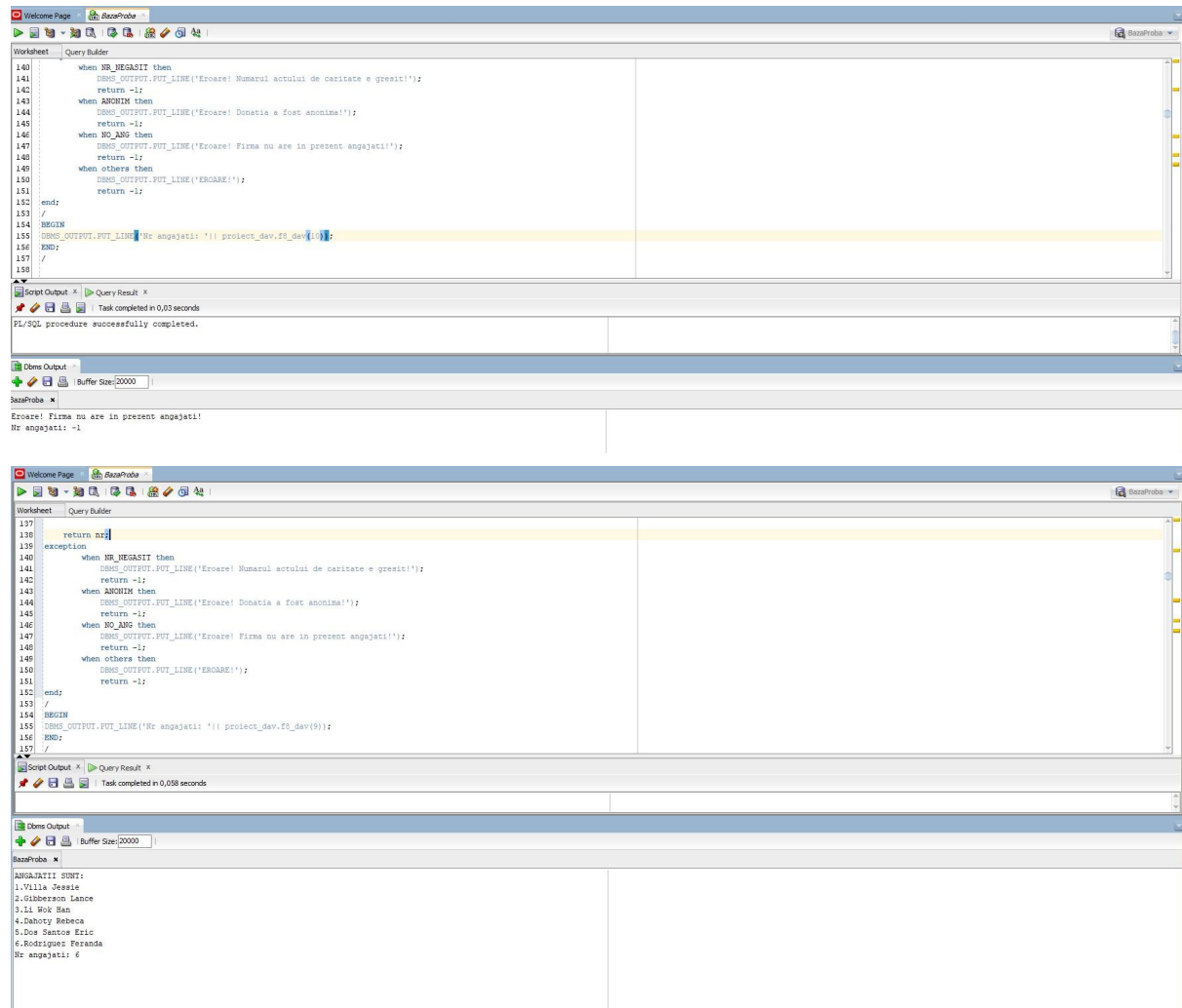
Task completed in 0,048 seconds

DBMS Output

Buffer Size: 20000

BazaProba x

Eroare! Donatia a fost anonima!  
Nr angajati: -1



--ex9

--afiseaza toti furnizorii(mai intai numarul lor) apartinand unui continent(afisarea este in ordine alfabetica)  
 --transmis ca parametru, ii retine intr-un nou tabel si modifica in noul tabel id\_locatie cu id-ul continentului  
 --exceptii:continentul nu exista, nu exista firme pe continentul respectiv, alte exceptii

procedure p9\_dav(  
     continentt continent.denumire%type)

is

TYPE tab\_ind IS TABLE OF furnizor%ROWTYPE INDEX BY BINARY\_INTEGER;  
 tabel tab\_ind;

i number;  
 validare number;  
 idd\_cont number;

NO\_CONTINENT exception;  
 NO\_FIRME       exception;

begin

if continentt = 'America' then  
 raise TOO\_MANY\_ROWS; --nu stie daca avem america de sud sau america de nord  
end if;

```

select count(*)
into validate
from continent
where denumire = continentt;

if validate < 1 then
raise NO_CONTINENT;
end if;

select count(*)
into validate
from furnizor f, continent c, regiune r, tara t, locatie l
where f.id_locatie = l.id_locatie and l.id_tara = t.id_tara and t.id_regiune = r.id_regiune and
r.cod_continent = c.cod_continent and denumire = continentt;

if validate < 1 then
raise NO_FIRME;
end if;

DBMS_OUTPUT.PUT_LINE('Pe continentul ' || continentt || ' sunt ' || validate || ' firme :');

select f.id_furnizor, f.id_locatie, f.num_furnizor
bulk collect into tabel
from furnizor f, continent c, regiune r, tara t, locatie l
where f.id_locatie = l.id_locatie and l.id_tara = t.id_tara and t.id_regiune = r.id_regiune and
r.cod_continent = c.cod_continent and denumire = continentt;

select cod_continent
into idd_cont
from continent
where denumire = continentt;

FOR i IN 1..tabel.count LOOP
tabel(i).id_locatie := idd_cont;
DBMS_OUTPUT.PUT_LINE(tabel(i).id_furnizor || ' ' || tabel(i).id_locatie || ' ' ||
nvl(tabel(i).num_furnizor, 'NECUNOSCU'));
END LOOP;

exception
WHEN TOO_MANY_ROWS THEN
DBMS_OUTPUT.PUT_LINE('Eroare! Continentul este specificat ambiguu!');
WHEN NO_CONTINENT THEN
DBMS_OUTPUT.PUT_LINE('Eroare! Acest continent nu este recunoscut!(ex. forma scriere
continente: Europa, America de Sud etc)');
WHEN NO_FIRME THEN
DBMS_OUTPUT.PUT_LINE('Eroare! Nu exista firme pe continentul dat!');
WHEN OTHERS THEN
dbms_output.put_line('Alta Eroare');
end p9_dav;

```

```

Worksheet  Query Builder
212  from continent
213  where denumire = continent;
214
215  FOR i IN 1..tabel.count LOOP
216    tabel(i).id_locatie := idd_cont;
217    DBMS_OUTPUT.PUT_LINE(tabel(i).id_furnizor || ' ' || tabel(i).id_locatie || ' ' || nvl(tabel(i).nume_furnizor, 'NECUNOSCUT'));
218  END LOOP;
219
220  exception
221  WHEN TOO_MANY_ROWS THEN
222    DBMS_OUTPUT.PUT_LINE('Eroare! Continutul este specificat ambiguu!');
223  WHEN NO_CONTINENT THEN
224    DBMS_OUTPUT.PUT_LINE('Eroare! Acest continent nu este recunoscut!(ex. forma scriere continente: Europa, America de Sud etc!');
225  WHEN NO_FIRME THEN
226    DBMS_OUTPUT.PUT_LINE('Eroare! Nu exista firme pe continentul dat!');
227  WHEN OTHERS THEN
228    dbms_output.put_line('Alta Eroare');
229  end p9_dav;
230  /
231
232  execute proiect_dav.p9_dav('aasq');
233
Script Output  x  Query Result  x
Task completed in 0,036 seconds

PL/SQL procedure successfully completed.

DBMS Output
Buffer Size:20000

BazaProba x
Eroare! Acest continent nu este recunoscut!(ex. forma scriere continente: Europa, America de Sud etc)

```

```

Worksheet  Query Builder
212  from continent
213  where denumire = continent;
214
215  FOR i IN 1..tabel.count LOOP
216    tabel(i).id_locatie := idd_cont;
217    DBMS_OUTPUT.PUT_LINE(tabel(i).id_furnizor || ' ' || tabel(i).id_locatie || ' ' || nvl(tabel(i).nume_furnizor, 'NECUNOSCUT'));
218  END LOOP;
219
220  exception
221  WHEN TOO_MANY_ROWS THEN
222    DBMS_OUTPUT.PUT_LINE('Eroare! Continutul este specificat ambiguu!');
223  WHEN NO_CONTINENT THEN
224    DBMS_OUTPUT.PUT_LINE('Eroare! Acest continent nu este recunoscut!(ex. forma scriere continente: Europa, America de Sud etc!');
225  WHEN NO_FIRME THEN
226    DBMS_OUTPUT.PUT_LINE('Eroare! Nu exista firme pe continentul dat!');
227  WHEN OTHERS THEN
228    dbms_output.put_line('Alta Eroare');
229  end p9_dav;
230  /
231
232  execute proiect_dav.p9_dav('America de Sud');
233
Script Output  x  Query Result  x
Task completed in 0,06 seconds

PL/SQL procedure successfully completed.

DBMS Output
Buffer Size:20000

BazaProba x
Eroare! Nu exista firme pe continentul dat!

```

```

Worksheet  Query Builder
212  from continent
213  where denumire = continent;
214
215  FOR i IN 1..tabel.count LOOP
216    tabel(i).id_locatie := idd_cont;
217    DBMS_OUTPUT.PUT_LINE(tabel(i).id_furnizor || ' ' || tabel(i).id_locatie || ' ' || nvl(tabel(i).nume_furnizor, 'NECUNOSCUT'));
218  END LOOP;
219
220  exception
221  WHEN TOO_MANY_ROWS THEN
222    DBMS_OUTPUT.PUT_LINE('Eroare! Continutul este specificat ambiguu!');
223  WHEN NO_CONTINENT THEN
224    DBMS_OUTPUT.PUT_LINE('Eroare! Acest continent nu este recunoscut!(ex. forma scriere continente: Europa, America de Sud etc!');
225  WHEN NO_FIRME THEN
226    DBMS_OUTPUT.PUT_LINE('Eroare! Nu exista firme pe continentul dat!');
227  WHEN OTHERS THEN
228    dbms_output.put_line('Alta Eroare');
229  end p9_dav;
230  /
231
232  execute proiect_dav.p9_dav('America de Nord');
233
Script Output  x  Query Result  x
Task completed in 0,048 seconds

PL/SQL procedure successfully completed.

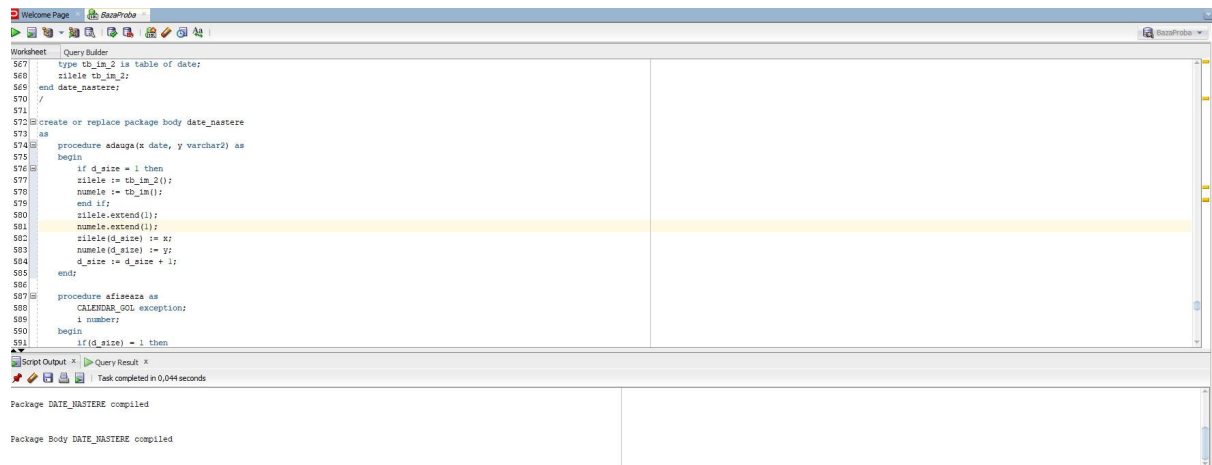
DBMS Output
Buffer Size:20000

BazaProba x
Pe continentul America de Nord sunt 2 firme :
15 400 Madman Trevor Pie
25 400 Rasta Joy

```

end PROIECT\_DAV;





--se creeaza un pachet ce retine numele si data nasterii unor persoane prin intermediul a doua tablouri  
 --imbricate(unul de tip date si celalalt varchar). Prin intermediul pachetului putem afisa inregistrarile existente,  
 --numarul lor, putem adauga intrari noi si de asemenea putem sa vedem cate zile sunt ramase pana la ziua de  
 --nastere a unei persoane adaugate prin intermediul unei functii avand ca parametru numele acesteia.

create or replace package date\_nastere

as

```

    procedure adauga(x date, y varchar2);
    procedure afiseaza;
    function until_next(x varchar2) return number;
    function intrari_adagate return number;
  
```

```

    d_size number := 1;
  
```

```

    type tb_im is table of varchar2(30);
    numele tb_im;
  
```

```

    type tb_im_2 is table of date;
    zilele tb_im_2;
  
```

end date\_nastere;

/

create or replace package body date\_nastere

as

```

    procedure adauga(x date, y varchar2) as
    begin
        if d_size = 1 then
            zilele := tb_im_2();
            numele := tb_im();
        end if;
        zilele.extend(1);
        numele.extend(1);
        zilele(d_size) := x;
        numele(d_size) := y;
        d_size := d_size + 1;
    end;
  
```

```

    procedure afiseaza as
    CALENDAR_GOL exception;
    i number;
  
```

```

begin
if(d_size) = 1 then
raise CALENDAR_GOL;
end if;
FOR i IN 1..d_size-1 LOOP
dbms_output.put_line(numele(i) || ' ' || zilele(i));
END LOOP;
exception
when CALENDAR_GOL then
dbms_output.put_line('NU AVEM DATE INTRODUSE PENTRU A PUTEA AFISA CEVA!');
end;

function until_next(x varchar2) return number as
pozitie number;
nr_zile_ramase number;
i number;
var1 varchar2(30);
var2 varchar2(30);
begin
FOR i IN 1..d_size-1 LOOP
if numele(i) like x then
pozitie := i;
end if;
END LOOP;
var1 := substr(to_char(sysdate),0, 5);
var2 := substr(to_char(zilele(pozitie)),0, 5);
if var1 = var2 then
nr_zile_ramase := 0;
end if;
if(sysdate > zilele(pozitie)) then
nr_zile_ramase := floor(abs(sysdate - zilele(pozitie)));
else
nr_zile_ramase := floor(abs(sysdate - zilele(pozitie))) + 1;
end if;
return nr_zile_ramase;
end;

function intrari_adaugate return number as
begin
return (d_size-1);
end;

end date_nastere;
/

```