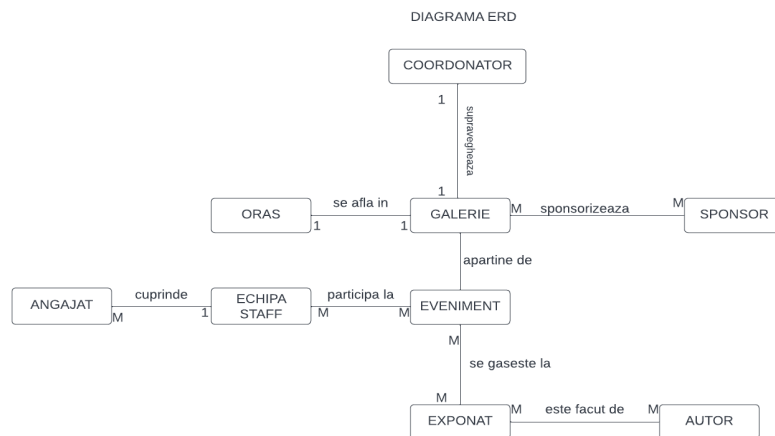


PROIECT SGD
HÂRNAGEA ANDREI-ALEXANDRU
GESTIONAREA UNOR GALERII DE ARTĂ
GRUPA 242

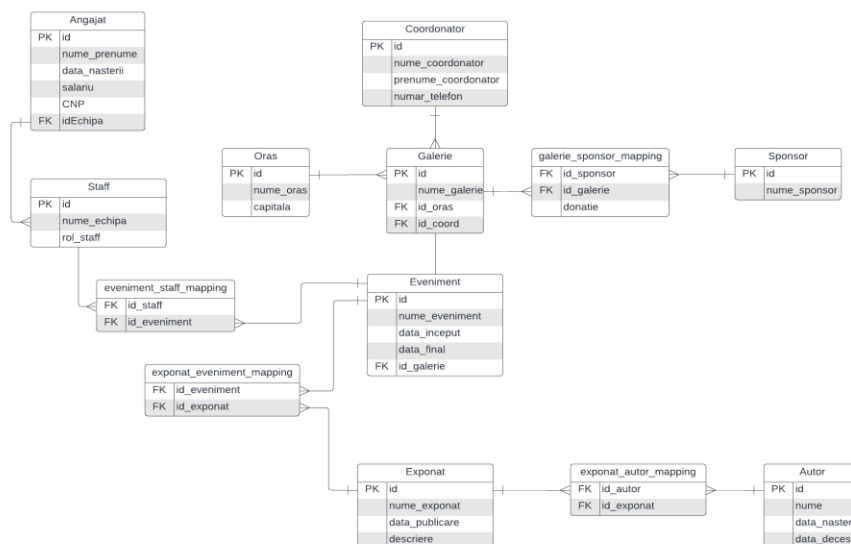
Cerinta 1

Am creat o bază de date pentru a facilita memorarea galeriilor de artă. O galerie are loc într-un singur oraș, este îndrumată de un singur coordonator și are mai mulți sponsori, care oferă donații. În cadrul unei galerii au loc mai multe evenimente. La un eveniment se prezintă exponate, care pot avea unul sau mai mulți autori. Pentru un eveniment se pot angaja mai multe echipe staff, care un mai mulți angajați.

Cerinta 2



Cerinta 3



Cerinta 4

Crearea tabelelor

```
CREATE TABLE AUTOR (  
    id_autor NUMBER PRIMARY KEY,  
    nume_autor varchar2(255) NOT NULL,  
    data_nastere DATE NOT NULL,  
    data_deces DATE  
);
```

```
CREATE TABLE EXPONAT (  
    id_exponat NUMBER PRIMARY KEY,  
    nume_exponat varchar2(255) NOT NULL,  
    data_publicare date,  
    descriere varchar2(255)  
);
```

```
CREATE TABLE COORDONATOR (  
    id_coord NUMBER PRIMARY KEY,  
    nume_sponsor varchar2(255) NOT NULL,  
    prenume_sponsor varchar2(255) NOT NULL,  
    numar_telefon varchar2(255) NOT NULL  
);
```

```
CREATE TABLE ORAS(  
    id_oras NUMBER PRIMARY KEY,  
    nume_oras varchar2(255) NOT NULL,  
    capitala NUMBER NOT NULL  
);
```

```
CREATE TABLE GALERIE(
```

```
id_galerie NUMBER PRIMARY KEY,  
id_oras NUMBER,  
id_coord NUMBER,  
nume_galerie varchar2(255) NOT NULL,  
FOREIGN KEY (id_oras) REFERENCES ORAS(id_oras) ON DELETE SET NULL,  
FOREIGN KEY (id_coord) REFERENCES COORDONATOR(id_coord) ON DELETE SET NULL  
);
```

```
CREATE TABLE EVENIMENT (  
    id_eveniment NUMBER PRIMARY KEY,  
    id_galerie NUMBER,  
    nume_eveniment VARCHAR2(255) NOT NULL,  
    data_inceput date NOT NULL,  
    data_final date NOT NULL,  
    FOREIGN KEY (id_galerie) REFERENCES GALERIE(id_galerie) ON DELETE SET NULL  
);
```

```
CREATE TABLE SPONSOR(  
    id_sponsor NUMBER PRIMARY KEY,  
    nume_sponsor VARCHAR2(255) NOT NULL  
);
```

```
CREATE TABLE STAFF(  
    id_staff NUMBER PRIMARY KEY,  
    nume echipa VARCHAR2(255),  
    rol_staff VARCHAR2(255)  
);
```

```
CREATE TABLE ANGAJAT(  
    id_angajat NUMBER PRIMARY KEY,  
    nume_angajat VARCHAR2(255) NOT NULL,  
    data_angajare date NOT NULL,  
    data_terminare date NOT NULL,  
    FOREIGN KEY (id_angajat) REFERENCES ANGAJAT(id_angajat) ON DELETE SET NULL,  
    FOREIGN KEY (data_angajare) REFERENCES ANGAJAT(data_angajare) ON DELETE SET NULL,  
    FOREIGN KEY (data_terminare) REFERENCES ANGAJAT(data_terminare) ON DELETE SET NULL  
);
```

```
id_angajat NUMBER PRIMARY KEY,  
nume_anagajat VARCHAR2(255) NOT NULL,  
prenume_anagajat VARCHAR2(255) NOT NULL,  
data_nastere DATE NOT NULL,  
salariu NUMBER NOT NULL,  
CNP VARCHAR2(255) NOT NULL,  
id_staff NUMBER,  
FOREIGN KEY (id_staff) REFERENCES STAFF(id_staff) ON DELETE SET NULL  
);
```

```
CREATE TABLE EVENIMENT_STAFF_MAPPING(  
    id_staff NUMBER,  
    id_eveniment NUMBER,  
    PRIMARY KEY(id_staff,id_eveniment),  
    FOREIGN KEY (id_staff) REFERENCES STAFF(id_staff) ON DELETE SET NULL,  
    FOREIGN KEY (id_eveniment) REFERENCES EVENIMENT(id_eveniment) ON DELETE SET NULL  
);
```

```
CREATE TABLE EXPONAT_AUTOR_MAPPING(  
    id_autor NUMBER,  
    id_exponat NUMBER,  
    PRIMARY KEY(id_autor,id_exponat),  
    FOREIGN KEY (id_autor) REFERENCES AUTOR(id_autor) ON DELETE SET NULL,  
    FOREIGN KEY (id_exponat) REFERENCES EXPONAT(id_exponat) ON DELETE SET NULL  
);
```

```
CREATE TABLE GALERIE_SPONSOR_MAPPING(  
    id_galerie NUMBER,  
    id_sponsor NUMBER,  
    donatie NUMBER not null,  
    PRIMARY KEY (id_galerie, id_sponsor),
```

```

FOREIGN KEY (id_galerie) REFERENCES GALERIE(id_galerie) ON DELETE SET NULL,

FOREIGN KEY (id_sponsor) REFERENCES SPONSOR(id_sponsor) ON DELETE SET NULL

);

```

```

CREATE TABLE EXPONAT_EVENTIMENT_MAPPING(

    id_eventiment NUMBER,

    id_exponat NUMBER,

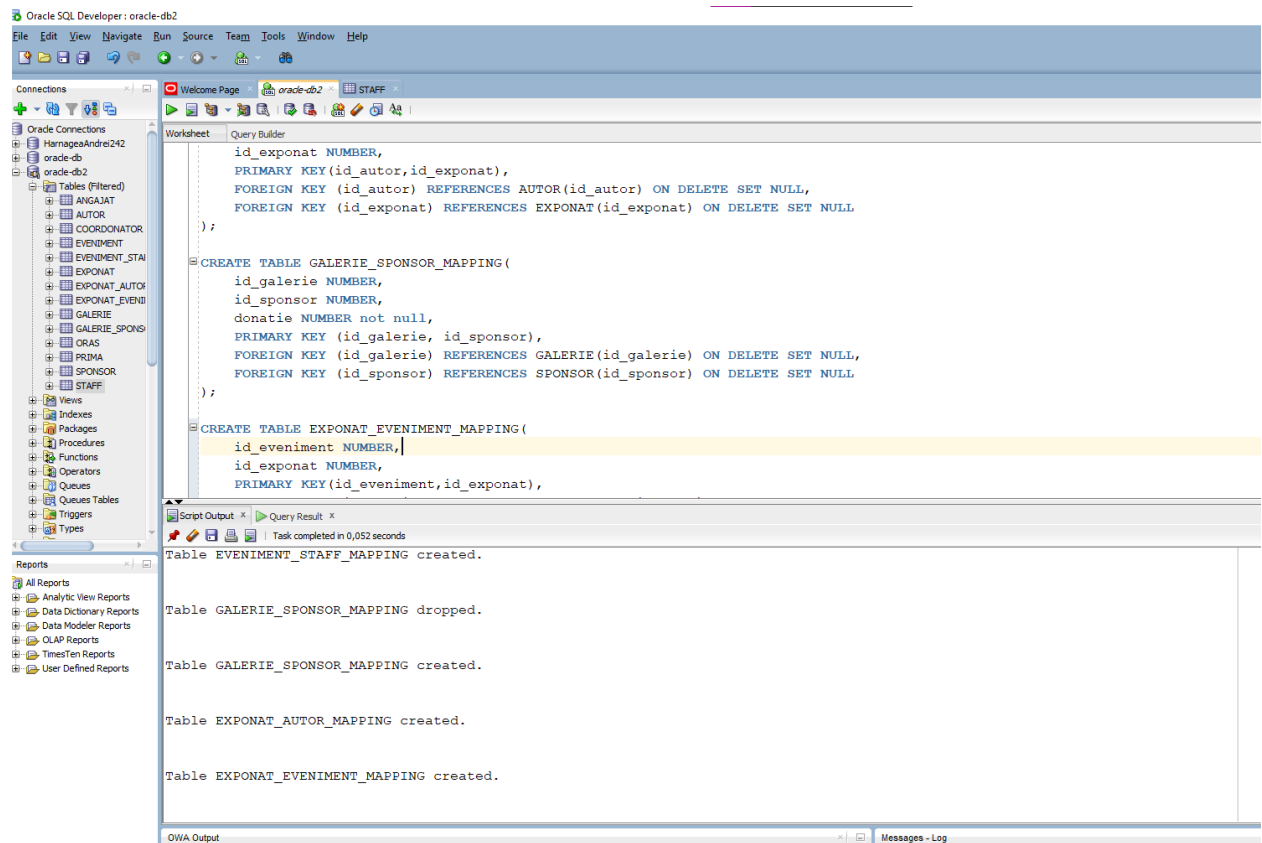
    PRIMARY KEY(id_eventiment,id_exponat),

    FOREIGN KEY (id_eventiment) REFERENCES EVENTIMENT(id_eventiment) ON DELETE SET NULL,

    FOREIGN KEY (id_exponat) REFERENCES EXPONAT(id_exponat) ON DELETE SET NULL

);

```



Cerinta 5

insert into SPONSOR (id_sponsor, nume_sponsor) values (1, 'Skimia');

```
insert into SPONSOR (id_sponsor, nume_sponsor) values (2, 'Plajo');
insert into SPONSOR (id_sponsor, nume_sponsor) values (3, 'Voolia');
insert into SPONSOR (id_sponsor, nume_sponsor) values (4, 'Topicblab');
insert into SPONSOR (id_sponsor, nume_sponsor) values (5, 'Riffwire');
```

```
select * from sponsor
```

```
insert into AUTOR (id_autor, nume_autor, data_nastere, data_deces) values (1, 'Van Gogh', '13-09-1951', '06-10-1984');
insert into AUTOR (id_autor, nume_autor, data_nastere, data_deces) values (2, 'Picasso', '28-11-1991', NULL);
insert into AUTOR (id_autor, nume_autor, data_nastere, data_deces) values (3, 'Castelli', '18-06-1985', '19-12-2009');
insert into AUTOR (id_autor, nume_autor, data_nastere, data_deces) values (4, 'Carolynn', '29-08-1989', NULL);
insert into AUTOR (id_autor, nume_autor, data_nastere, data_deces) values (5, 'Da Vinci', '05-03-1975', '13-10-2018');
insert into AUTOR (id_autor, nume_autor, data_nastere, data_deces) values (6, 'Chell', '17-07-1960', NULL);
```

```
SELECT * FROM AUTOR
```

```
insert into COORDONATOR (id_coord, nume_coordonator, prenume_coordonator, numar_telefon) values (1, 'des Remedios', 'Milty', '661 355 2788');
insert into COORDONATOR (id_coord, nume_coordonator, prenume_coordonator, numar_telefon) values (2, 'Howsden', 'Hannis', '851 662 1805');
insert into COORDONATOR (id_coord, nume_coordonator, prenume_coordonator, numar_telefon) values (3, 'Byforth', 'Hy', '302 853 4191');
insert into COORDONATOR (id_coord, nume_coordonator, prenume_coordonator, numar_telefon) values (4, 'Folley', 'Xerxes', '888 630 2960');
insert into COORDONATOR (id_coord, nume_coordonator, prenume_coordonator, numar_telefon) values (5, 'Broadis', 'Renado', '215 129 8433');
```

```
SELECT * FROM COORDONATOR
```

```
insert into STAFF (id_staff, nume echipa, rol_staff) values (1, 'Fotografii', 'fotografie');
insert into STAFF (id_staff, nume echipa, rol_staff) values (2, 'Bucatarii', 'catering');
insert into STAFF (id_staff, nume echipa, rol_staff) values (3, 'Luminatii', 'lumini');
insert into STAFF (id_staff, nume echipa, rol_staff) values (4, 'Masinele', 'transport');
insert into STAFF (id_staff, nume echipa, rol_staff) values (5, 'Gardienii', 'body-guards');
```

```
SELECT * FROM STAFF
```

```

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (1,
'Rudderham', 'Alli', '19-08-2001', 1567, '561017087225946895', 1);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (2, 'Jurges',
'Lynette', '21-12-1982', 2270, '3561813473931435', 1);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (3,
'McCulley', 'Hendrick', '21-11-1979', 2780, '4026616165983581', 1);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (4,
'Neumann', 'Aloysius', '05-09-1998', 4882, '3570830634142362', 2);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (5, 'Murfin',
'Constantin', '29-09-1980', 2748, '5303845895843085', 2);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (6, 'Colville',
'Solly', '07-01-1971', 2176, '63040369063298219', 2);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (7,
'McGettrick', 'Jeddy', '11-03-1976', 4400, '5602245404939466', 2);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (8,
'Christescu', 'Steven', '23-01-1967', 4565, '36532667146898', 2);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (9, 'Farrens',
'Vasili', '04-04-1967', 2156, '3539528611653019', 3);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (10,
'Christescu', 'Hobey', '09-06-1984', 3580, '560223844255436250', 3);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (11, 'Myall',
'Denni', '18-11-1970', 2161, '3564352220627936', 3);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (12,
'Greenlies', 'Eugen', '24-01-1999', 3629, '5610695640397392', 4);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (13,
'Neeson', 'Weider', '07-01-1988', 2207, '3576378139687378', 4);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (14,
'Comini', 'Deny', '16-03-1981', 4107, '5602233476673742', 4);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (15,
'Burrell', 'Felicie', '28-10-1985', 2193, '3549037879008427', 4);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (16,
'Badland', 'Lek', '11-01-1972', 3288, '3574996911389939', 5);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (17,
'Canete', 'Bebe', '04-11-1985', 2671, '633424762069417930', 5);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (18,
'Christoffe', 'Tremayne', '05-01-2001', 3694, '4508859506024551', 3);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (19,
'Heeron', 'Mechelle', '11-07-1997', 2452, '4844780974268905', null);

insert into ANGAJAT (id_angajat, nume_angajat, prenume_angajat, data_nastere, salariu, CNP, id_staff) values (20,
'Spaight', 'Lilah', '27-05-1997', 4107, '3578494216089996', null);

```

```

SELECT * FROM ANGAJAT

```


SELECT * FROM AUTOR

insert into EXPONAT (id_EXPONAT, nume_exponat, data_publicare, descriere) values (1, 'OXYCODONE', '30/9/2013', 'Digitized explicit parallelism');

insert into EXPONAT (id_EXPONAT, nume_exponat, data_publicare, descriere) values (2, 'Starry Night', '6/7/2007', 'Synergistic heuristic adapter');

insert into EXPONAT (id_EXPONAT, nume_exponat, data_publicare, descriere) values (3, 'MORUS', '2/7/1999', 'Right-sized mobile service-desk');

insert into EXPONAT (id_EXPONAT, nume_exponat, data_publicare, descriere) values (4, 'Plus', '7/5/2002', 'User-centric zero tolerance parallelism');

insert into EXPONAT (id_EXPONAT, nume_exponat, data_publicare, descriere) values (5, 'anti', '5/12/2022', 'Front-line content-based success');

insert into EXPONAT (id_EXPONAT, nume_exponat, data_publicare, descriere) values (6, 'Metronidazole', null, 'Total empowering strategy');

insert into EXPONAT (id_EXPONAT, nume_exponat, data_publicare, descriere) values (7, 'PROMETHAZINE', '7/12/2001', 'Enhanced tertiary process improvement');

insert into EXPONAT (id_EXPONAT, nume_exponat, data_publicare, descriere) values (8, 'Anti Itch', null, 'Total fresh-thinking project');

insert into EXPONAT (id_EXPONAT, nume_exponat, data_publicare, descriere) values (9, 'Peisaj', '28/2/2002', 'Ergonomic global intranet');

insert into EXPONAT (id_EXPONAT, nume_exponat, data_publicare, descriere) values (10, 'PrePost', '10/10/2008', 'Switchable composite array');

insert into EXPONAT (id_EXPONAT, nume_exponat, data_publicare, descriere) values (11, 'Cedar Elm', '12/3/1998', 'Persevering fresh-thinking throughput');

insert into EXPONAT (id_EXPONAT, nume_exponat, data_publicare, descriere) values (12, 'Sleep Aid', '24/6/1995', null);

insert into EXPONAT (id_EXPONAT, nume_exponat, data_publicare, descriere) values (13, 'HONIBE', '11/11/2007', null);

insert into EXPONAT (id_EXPONAT, nume_exponat, data_publicare, descriere) values (14, 'METHYLIN', null, 'Expanded local neural-net');

insert into EXPONAT (id_EXPONAT, nume_exponat, data_publicare, descriere) values (15, 'Volcano', '26/8/2008', null);

insert into ORAS (id_oras, nume_oras, capitala) values (1, 'Paris', 1);

insert into ORAS (id_oras, nume_oras, capitala) values (2, 'Porto Ferreira', 0);

insert into ORAS (id_oras, nume_oras, capitala) values (3, 'New York', 0);

insert into ORAS (id_oras, nume_oras, capitala) values (4, 'Tr Vinh', 0);

insert into ORAS (id_oras, nume_oras, capitala) values (5, 'Bucuresti', 1);

insert into galerie (id_galerie, id_oras, id_coord, nume_galerie) values (1, 1, 1, 'Primavera');

insert into galerie (id_galerie, id_oras, id_coord, nume_galerie) values (2, 2, 2, 'The Best');

insert into galerie (id_galerie, id_oras, id_coord, nume_galerie) values (3, 3, 3, 'Aperture');

insert into galerie (id_galerie, id_oras, id_coord, nume_galerie) values (4, 4, 4, 'Salt Mines');

insert into galerie (id_galerie, id_oras, id_coord, nume_galerie) values (5, 5, 5, 'Mechanical');

insert into galerie (id_galerie, id_oras, id_coord, nume_galerie) values (6, 1, 5, 'Quirkcy');

insert into galerie (id_galerie, id_oras, id_coord, nume_galerie) values (7, 5, 4, 'Blck Mesa');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (1, 1, 'Latlux', '12/06/2014', '24/07/2014');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (2, 1, 'Quo Lux', '24/03/2012', '11/04/2012');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (3, 2, 'Prodder', '22/02/2012', '16/03/2012');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (4, 2, 'Flowdesk', '02/08/2014', '24/08/2014');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (5, 2, 'Greenlam', '02/02/2018', '12/02/2018');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (6, 3, 'Latlux', '31/07/2013', '12/08/2013');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (7, 3, 'Fix San', '07/07/2020', '29/10/2020');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (8, 4, 'Ventosanzap', '06/01/2019', '11/01/2019');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (9, 4, 'Job', '19/06/2021', '01/07/2021');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (10, 4, 'Stim', '20/01/2016', '15/02/2016');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (11, 4, 'Konklab', '29/06/2018', '09/07/2019');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (12, 5, 'Domainer', '03/01/2015', '06/04/2015');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (13, 5, 'Fix San', '4/08/2014', '13/08/2014');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (14, 6, 'Namfix', '12/06/2015', '27/09/2015');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (15, 7, 'Subin', '09/09/2015', '27/12/2015');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (16, 7, 'Y-Solowarm', '09/04/2019', '29/07/2019');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (17, 7, 'Pannier', '30/07/2021', '31/08/2021');

INSERT INTO GALERIE_SPONSOR_MAPPING (id_galerie, id_sponsor, donatie) values (1, 1, 10000);

INSERT INTO GALERIE_SPONSOR_MAPPING (id_galerie, id_sponsor, donatie) values (1, 2, 7000);

INSERT INTO GALERIE_SPONSOR_MAPPING (id_galerie, id_sponsor, donatie) values (2, 1, 14000);

```
INSERT INTO GALERIE_SPONSOR_MAPPING (id_galerie, id_sponsor, donatie) values (2, 3, 20000);
INSERT INTO GALERIE_SPONSOR_MAPPING (id_galerie, id_sponsor, donatie) values (2, 4, 5000);
INSERT INTO GALERIE_SPONSOR_MAPPING (id_galerie, id_sponsor, donatie) values (3, 5, 2000);
INSERT INTO GALERIE_SPONSOR_MAPPING (id_galerie, id_sponsor, donatie) values (3, 1, 5700);
INSERT INTO GALERIE_SPONSOR_MAPPING (id_galerie, id_sponsor, donatie) values (4, 1, 8000);
INSERT INTO GALERIE_SPONSOR_MAPPING (id_galerie, id_sponsor, donatie) values (5, 2, 9000);
INSERT INTO GALERIE_SPONSOR_MAPPING (id_galerie, id_sponsor, donatie) values (5, 1, 400);
INSERT INTO GALERIE_SPONSOR_MAPPING (id_galerie, id_sponsor, donatie) values (6, 3, 6000);
INSERT INTO GALERIE_SPONSOR_MAPPING (id_galerie, id_sponsor, donatie) values (6, 4, 900);
INSERT INTO GALERIE_SPONSOR_MAPPING (id_galerie, id_sponsor, donatie) values (6, 5, 6000);
INSERT INTO GALERIE_SPONSOR_MAPPING (id_galerie, id_sponsor, donatie) values (6, 3, 4000);
INSERT INTO GALERIE_SPONSOR_MAPPING (id_galerie, id_sponsor, donatie) values (1, 3, 1000);
```

```
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (7, 4);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (1, 11);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (5, 1);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (5, 6);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (6, 6);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (7, 4);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (13, 11);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (6, 5);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (2, 13);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (14, 4);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (13, 2);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (5, 2);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (17, 3);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (7, 5);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (13, 7);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (7, 4);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (3, 8);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (8, 7);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (12, 9);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (5, 13);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (4, 3);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (4, 10);
```

insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (2, 6);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (11, 6);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (4, 12);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (14, 1);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (1, 8);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (15, 13);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (2, 1);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (15, 6);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (14, 11);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (12, 14);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (2, 4);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (12, 3);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (8, 1);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (10, 4);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (14, 5);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (4, 6);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (6, 11);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (3, 2);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (2, 10);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (7, 1);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (13, 8);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (14, 9);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (13, 9);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (14, 5);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (9, 8);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (6, 11);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (17, 2);
insert into EXPONAT_EVENTIMENT_MAPPING (id_eventiment, id_EXPONAT) values (16, 13);

insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (1,1);
insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (2,5);
insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (3,6);
insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (4,6);
insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (5,2);
insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (6,3);

insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (7,1);
insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (8,4);
insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (9,4);
insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (10,2);

insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (2,11);
insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (2,12);
insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (3,12);
insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (4,12);
insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (4,13);
insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (6,13);
insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (5,14);
insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (2,14);
insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (5,15);
insert into EXPONAT_AUTOR_MAPPING(id_autor, id_exponat) values (3,15);

insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (1, 2);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (1, 4);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (10, 3);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (11, 1);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (11, 2);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (12, 1);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (12, 1);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (13, 2);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (13, 3);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (14, 1);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (14, 2);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (14, 3);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (14, 4);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (15, 2);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (15, 3);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (15, 4);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (17, 1);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (17, 4);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (17, 5);

```

insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (2, 3);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (3, 2);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (4, 1);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (4, 2);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (4, 4);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (4, 5);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (5, 1);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (5, 2);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (5, 4);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (6, 3);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (6, 5);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (7, 1);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (8, 1);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (8, 4);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (9, 1);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (9, 3);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (9, 4);
insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (9, 5);

```

Cerinta 6

--Pentru o galerie sa se afiseze echipele staff care paticipa la un eveniment

```
CREATE OR REPLACE PROCEDURE CERINTA6 (numegale GALERIE.ume_galerie%type)
```

```
AS
```

```
    TYPE tab_indx IS TABLE OF EVENIMENT%ROWTYPE INDEX BY PLS_INTEGER;
```

```
    evenimente tab_indx;
```

```
    TYPE lista_nested IS TABLE OF STAFF%rowtype;
```

```
    aux_staff lista_nested := lista_nested();
```

```
    nr NUMBER;
```

```
    nr_staffs NUMBER;
```

```
BEGIN
```

```

SELECT e.id_eveniment,e.id_galerie, e.ume_eveniment, e.data_inceput, e.data_final
BULK COLLECT INTO evenimente
FROM EVENIMENT e, GALERIE g
WHERE e.id_galerie = g.id_galerie AND UPPER(g.ume_galerie) LIKE UPPER(numegale) ;

```

```

SELECT COUNT(*)
INTO nr
FROM EVENIMENT e, GALERIE g
WHERE e.id_galerie = g.id_galerie AND UPPER(g.ume_galerie) LIKE UPPER(numegale)
GROUP BY g.id_galerie;

```

```

DBMS_OUTPUT.PUT_LINE('Nr evenimente la galeria ' || numegale || ' ' || nr);

```

```

FOR i in evenimente.first..evenimente.last LOOP
    SELECT s.id_staff, s.ume_echipa, s.rol_staff
    BULK COLLECT INTO aux_staff
    FROM EVENIMENT_STAFF_MAPPING esm, EVENIMENT e, STAFF s
    WHERE s.id_staff = esm.id_staff AND esm.id_eveniment = e.id_eveniment AND e.id_eveniment =
evenimente(i).id_eveniment;

    --DBMS_OUTPUT.PUT_LINE(aux_staff.count);

    nr_staffs := aux_staff.count;

    IF nr_staffs = 0 THEN
        DBMS_OUTPUT.PUT_LINE('Evenimentul nu are staffs!');
    END IF;

    IF nr_staffs >0 THEN
        DBMS_OUTPUT.PUT_LINE('Evenimentul ' || evenimente(i).ume_eveniment || ' a angajat ' || nr_staffs || ' echipe');
        FOR j in aux_staff.first..aux_staff.last LOOP
            DBMS_OUTPUT.PUT_LINE(aux_staff(j).ume_echipa);
        END LOOP;

        END IF;

    END LOOP;

```

END;

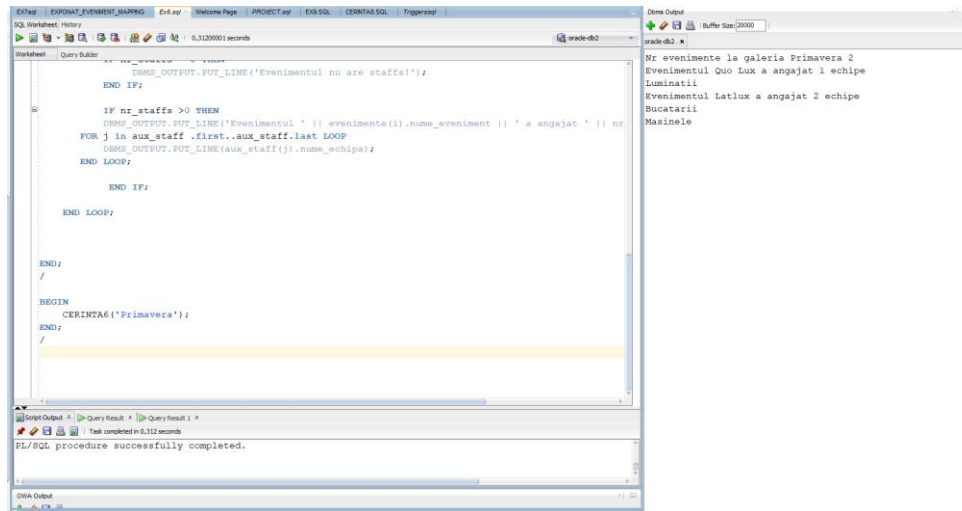
/

BEGIN

CERINTA6('Primavera');

END;

/



Cerinta 7

--Sa se afiseze galeriile, evenimentele acelei galerii si exponatele ce apar la

--galerie a unui oras

CREATE OR REPLACE PROCEDURE CERINTA7(numeor ORAS.nume_oras%type)

AS

CURSOR GALERII IS

SELECT *

FROM galerie

WHERE id_oras = (

SELECT id_oras

FROM ORAS

WHERE upper(nume_oras) LIKE upper(numeor)

);


```
CURSOR events(galerieid GALERIE.id_galerie%type) IS

    SELECT nume_eveniment, id_eveniment

    FROM EVENIMENT

    WHERE id_galerie = galerieid ;
```

```
CURSOR arts(idev EVENIMENT.id_eveniment%type) IS

    SELECT nume_exponat || ' About: ' || descriere

    FROM EXPONAT_EVENT_MAPPING eem

    INNER JOIN EXPONAT E

    ON E.id_exponat = eem.id_exponat

    WHERE eem.id_eveniment = idev;
```

```
den evenement.nume_eveniment%TYPE;

evid evenement.nume_eveniment%TYPE;

text VARCHAR2(250);
```

```
BEGIN
```

```
for i in galerii

LOOP

    DBMS_OUTPUT.PUT_LINE('Galeria ' || i.nume_galerie);

    for j in events(i.id_galerie) LOOP

        DBMS_OUTPUT.PUT_LINE('Eveniment ' || j.nume_eveniment);

        OPEN arts(j.id_eveniment);

        LOOP

            FETCH arts INTO text;

            EXIT WHEN arts%NOTFOUND;

            DBMS_OUTPUT.PUT_LINE('      ' || text);

        END LOOP;

        CLOSE arts;

    END LOOP;

    DBMS_OUTPUT.PUT_LINE('_____');

END LOOP;
```

```
END;
```

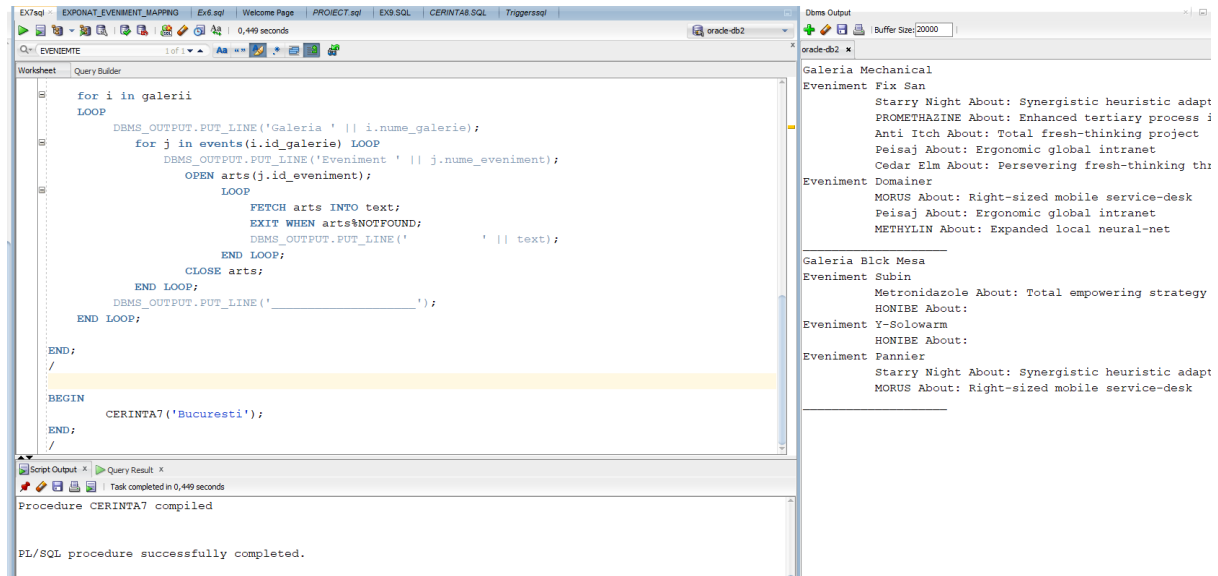
/

BEGIN

CERINTA7('Bucuresti');

END;

/



CERINTA 8

--pentru fiecare galerie sa sa calculeze profitul acesta fiind diferenta dintre donatiile primite si suma salariilor staffului

CREATE OR REPLACE FUNCTION CERINTA8(numegal galerie.nume_galerie%type) RETURN NUMBER

IS

donatii NUMBER;

datorii NUMBER;

profit NUMBER;

TYPE tabl_idx IS TABLE OF GALERIE%ROWTYPE INDEX BY PLS_INTEGER;

aux tabl_idx;

```

TYPE tabl_indx_sps IS TABLE OF GALERIE_SPONSOR_MAPPING%ROWTYPE INDEX BY PLS_INTEGER;
aux_sps tabl_indx_sps;

TYPE tabl_indx_ang IS TABLE OF ANGAJAT%ROWTYPE INDEX BY PLS_INTEGER;
aux_ang tabl_indx_ang;

NO_DATA_FOUND_GAL EXCEPTION;
NO_DATA_FOUND_DATORIE EXCEPTION;
TOO_MANY_ROWS EXCEPTION;
BEGIN

    donatii:=0;
    datorii:=0;

    SELECT *
    BULK COLLECT INTO aux
    from GALERIE
    WHERE numegal = galerie.nume_galerie;

    IF SQL%NOTFOUND THEN
        RAISE NO_DATA_FOUND_GAL;
    END IF;

    IF aux.count>1 THEN
        RAISE TOO_MANY_ROWS;
    END IF;

    --DONATIILE

    SELECT gsm.id_galerie, gsm.id_sponsor, gsm.donatie
    BULK COLLECT INTO aux_sps
    FROM GALERIE g
    INNER JOIN GALERIE_SPONSOR_MAPPING gsm ON g.id_galerie = gsm.id_galerie

```

```
WHERE UPPER(g.nume_galerie) LIKE UPPER(numegal);
```

```
IF SQL%NOTFOUND THEN
```

```
    RAISE NO_DATA_FOUND_DATORIE;
```

```
END IF;
```

```
SELECT sum(donatie)
```

```
INTO DONATII
```

```
FROM GALERIE g
```

```
INNER JOIN GALERIE_SPONSOR_MAPPING gsm ON g.id_galerie = gsm.id_galerie
```

```
WHERE UPPER(g.nume_galerie) LIKE UPPER(numegal)
```

```
group by nume_galerie;
```

```
--Salariaile
```

```
SELECT an.id_angajat,an.nume_angajat, an.prenume_angajat, an.data_nastere, an.salariu, an.cnp,  
an.id_staff
```

```
BULK COLLECT INTO aux_ang
```

```
FROM GALERIE g
```

```
INNER JOIN EVENIMENT ev ON g.id_galerie = ev.id_galerie
```

```
INNER JOIN EVENIMENT_STAFF_MAPPING ESM ON esm.id_eveniment = ev.id_eveniment
```

```
INNER join STAFF s on s.id_staff = esm.id_staff
```

```
INNER join angajat an on an.id_STAFF = s.id_staff
```

```
WHERE UPPER(g.nume_galerie) LIKE UPPER(numegal);
```

```
IF SQL%NOTFOUND THEN
```

```
    datorii:=0;
```

```
ELSE
```

```
SELECT sum(salariu)
```

```
INTO DATORII
```

```
FROM GALERIE g
```

```
INNER JOIN EVENIMENT ev ON g.id_galerie = ev.id_galerie
```

```

INNER JOIN EVENIMENT_STAFF_MAPPING ESM ON esm.id_eveniment = ev.id_eveniment

inner join STAFF s on s.id_staff = esm.id_staff

inner join angajat an on an.id_angajat = s.id_staff

WHERE UPPER(g.ume_galerie) LIKE UPPER(ume_gal)

GROUP BY ume_galerie;

END IF;

profit:= donatii-datorii;

IF PROFIT < 0 THEN

    RAISE NO_DATA_FOUND_DATORIE;

END IF;

DBMS_OUTPUT.PUT_LINE(profit);

return profit;

EXCEPTION

    WHEN NO_DATA_FOUND_GAL THEN

        DBMS_OUTPUT.PUT_LINE('Nu exista aceasta galerie!');

        RETURN -1000;

    WHEN NO_DATA_FOUND_DATORIE THEN

        DBMS_OUTPUT.PUT_LINE('Nu a realizat niciun profit!');

        RETURN -1000;

    WHEN TOO_MANY_ROWS THEN

        DBMS_OUTPUT.PUT_LINE('Exista mai multe galerii cu acest nume!');

        RETURN -1000;

    WHEN OTHERS THEN

        DBMS_OUTPUT.PUT_LINE('Alta eroare!');

        RETURN -1000;

END;

/

DECLARE

aux NUMBER;

```

BEGIN

aux := CERINTA8('Primavera');

DBMS_OUTPUT.PUT_LINE(aux);

aux := CERINTA8('Bjork');

aux := CERINTA8('Datorie');

aux := CERINTA8('Quirkcy');

END;

/

insert into galerie (id_galerie, id_oras, id_coord, nume_galerie) values (9, 1, 1, 'Quirkcy');

insert into galerie (id_galerie, id_oras, id_coord, nume_galerie) values (8, 1, 1, 'Datorie');

insert into EVENIMENT (id_eveniment, id_galerie, nume_eveniment, data_inceput, data_final) values (18, 8, 'Nomooney', '12/06/2014', '24/07/2014');

insert into EVENIMENT_STAFF_MAPPING (id_eveniment, id_staff) values (18, 2);

SELECT * FROM GALERIE

SELECT nume_galerie, sum(salariu) as Datorie FROM GALERIE g

INNER JOIN EVENIMENT ev ON g.id_galerie = ev.id_galerie

INNER JOIN EVENIMENT_STAFF_MAPPING ESM ON esm.id_eveniment = ev.id_eveniment

inner join STAFF s on s.id_staff = esm.id_staff

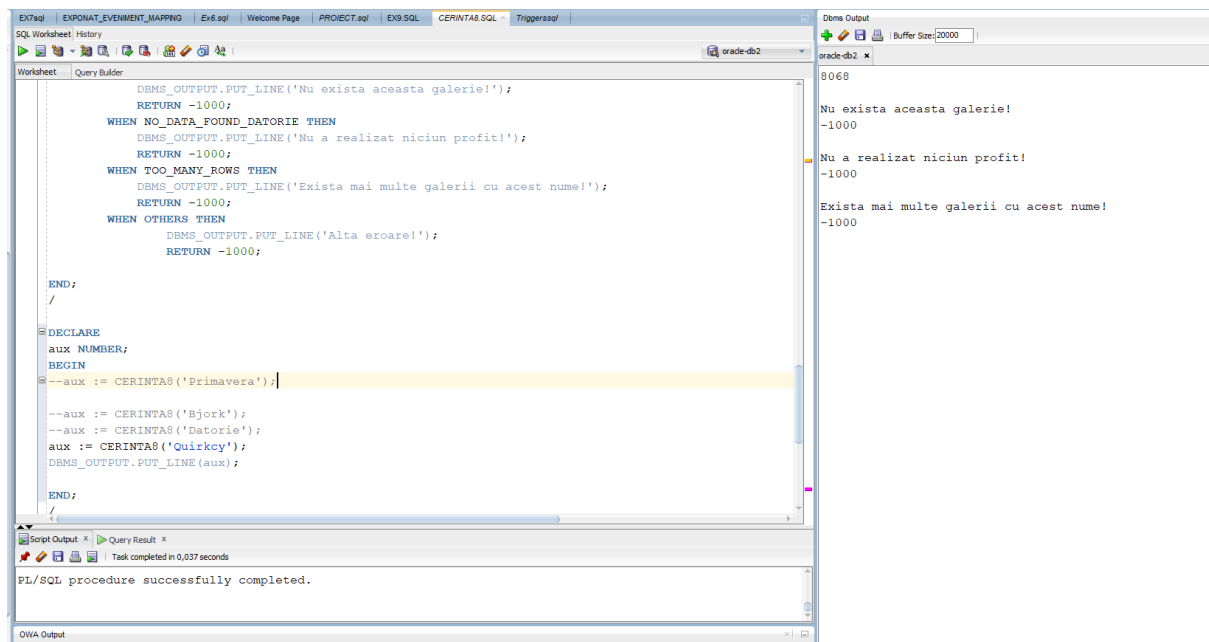
inner join angajat an on an.id_angajat = s.id_staff

GROUP BY nume_galerie

SELECT nume_galerie, sum(donatie) FROM GALERIE g

INNER JOIN GALERIE_SPONSOR_MAPPING gsm ON g.id_galerie = gsm.id_galerie

group by nume_galerie



Cerinta 9

--Sa se afiseze exponatele care se gasesc intr-un oras. Erorile care pot aparea sunt: nu exista orase cu acest nume, nu sunt exponate in oras si sunt mai multe orase cu acelasi nume

```
CREATE OR REPLACE PROCEDURE CERINT9(numeor oras.nume_oras%type)
```

```
AS
```

```
TYPE tab_indx_exp IS TABLE OF EXPONAT%ROWTYPE INDEX BY PLS_INTEGER;
```

```
exponate tab_indx_exp;
```

```
TYPE tab_indx_orase IS TABLE OF ORAS%ROWTYPE INDEX BY PLS_INTEGER;
```

```
orase tab_indx_orase;
```

```
NO_DATA_FOUND_ORAS EXCEPTION;
```

```
NO_DATA_FOUND_EXPONATE EXCEPTION;
```

```
TOO_MANY_ROWS EXCEPTION;
```

```
BEGIN
```

```
SELECT *  
  
BULK COLLECT INTO orase  
  
FROM oras  
  
WHERE UPPER(ume_oras) LIKE UPPER(umeor);
```

```
IF SQL%NOTFOUND THEN  
  
    RAISE NO_DATA_FOUND_ORAS;  
  
END IF;
```

```
IF orase.count >=2 THEN  
  
    RAISE TOO_MANY_ROWS;  
  
END IF;
```

```
SELECT DISTINCT ex.id_exponat,ex.NUME_EXPONAT, ex.data_publicare, ex.descriere  
  
BULK COLLECT INTO exponate  
  
FROM ORAS o  
  
INNER JOIN GALERIE g on g.id_oras = o.id_oras  
  
inner join EVENIMENT ev on g.id_galerie = ev.id_galerie  
  
inner join EXPONAT_EVENT_MAPPING eem on ev.id_event = eem.id_event  
  
inner join exponat ex on ex.id_exponat = eem.id_exponat  
  
inner join EXPONAT_AUTHOR_MAPPING eam on eam.id_exponat=ex.id_exponat  
  
INNER join autor a on eam.id_autor = a.id_autor  
  
WHERE a.data_decis IS NULL AND ume_oras like umeor;
```

```
--DBMS_OUTPUT.PUT_LINE(exponate.count);
```

```
IF exponate.count = 0 THEN  
  
    RAISE NO_DATA_FOUND_EXPONATE;  
  
END IF;
```

```
DBMS_OUTPUT.PUT_LINE('In orasul ' || umeor || ' sunt exponatele:');
```



```

FOR i in exponate.first..exponate.last LOOP

    DBMS_OUTPUT.PUT_LINE(exponate(i).nume_exponat);

END LOOP;

EXCEPTION

    WHEN NO_DATA_FOUND_ORAS THEN

        DBMS_OUTPUT.PUT_LINE('Nu exista acest oras!');

    WHEN NO_DATA_FOUND_EXPONATE THEN

        DBMS_OUTPUT.PUT_LINE('Nu sunt astfel de exponate in oras!');

    WHEN TOO_MANY_ROWS THEN

        DBMS_OUTPUT.PUT_LINE('Exista mai multe orase cu acest nume!');

    WHEN OTHERS THEN

        DBMS_OUTPUT.PUT_LINE('Alta eroare!');

END;

/

BEGIN

    --CERINT9('Paris');

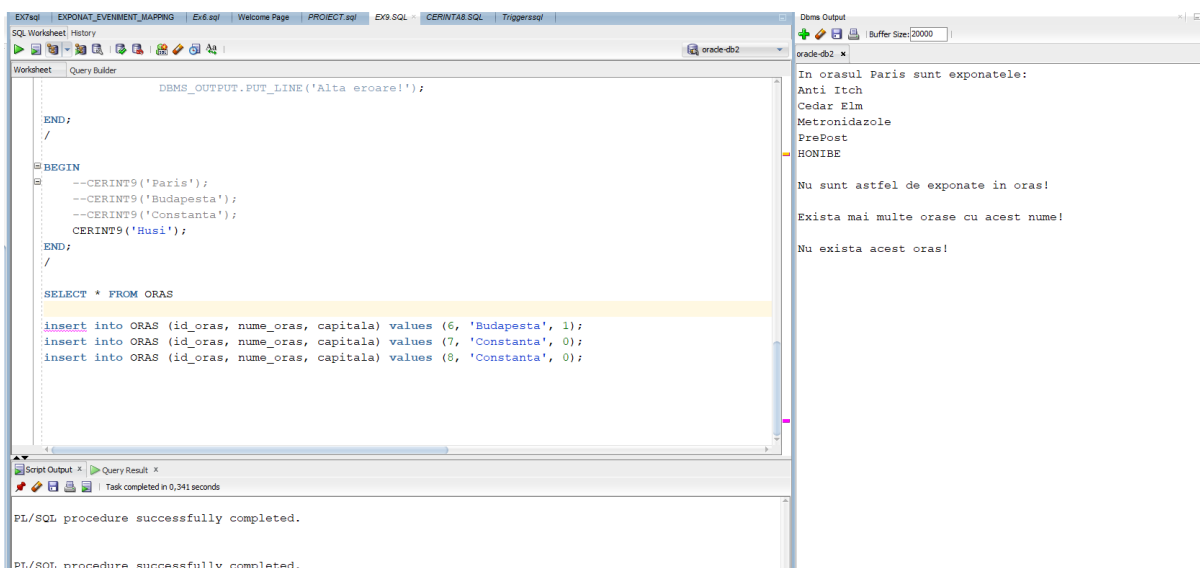
    --CERINT9('Budapesta');

    --CERINT9('Constanta');

    CERINT9('Husi');

END;

```



The screenshot shows the Oracle SQL Developer interface. The main window displays the following SQL code:

```

DBMS_OUTPUT.PUT_LINE('Alta eroare!');

END;

/

BEGIN

    --CERINT9('Paris');

    --CERINT9('Budapesta');

    --CERINT9('Constanta');

    CERINT9('Husi');

END;

SELECT * FROM ORAS

insert into ORAS (id_oras, nume_oras, capitala) values (6, 'Budapesta', 1);
insert into ORAS (id_oras, nume_oras, capitala) values (7, 'Constanta', 0);
insert into ORAS (id_oras, nume_oras, capitala) values (8, 'Constanta', 0);

```

The 'Demos Output' window on the right shows the results of the procedure execution:

```

In orasul Paris sunt exponatele:
Anti Itch
Cedar Elm
Metronidazole
PrePost
HONIBE

Nu sunt astfel de exponate in oras!

Exista mai multe orase cu acest nume!

Nu exista acest oras!

```

The status bar at the bottom indicates: 'PL/SQL procedure successfully completed.'

Cerinta 10

--Am facut un trigger care nu permite inserarea in tabela oras in zilele de vara sau zilele de 13

```
CREATE OR REPLACE TRIGGER CERINTA10
```

```
    BEFORE INSERT OR UPDATE OR DELETE ON ORAS
```

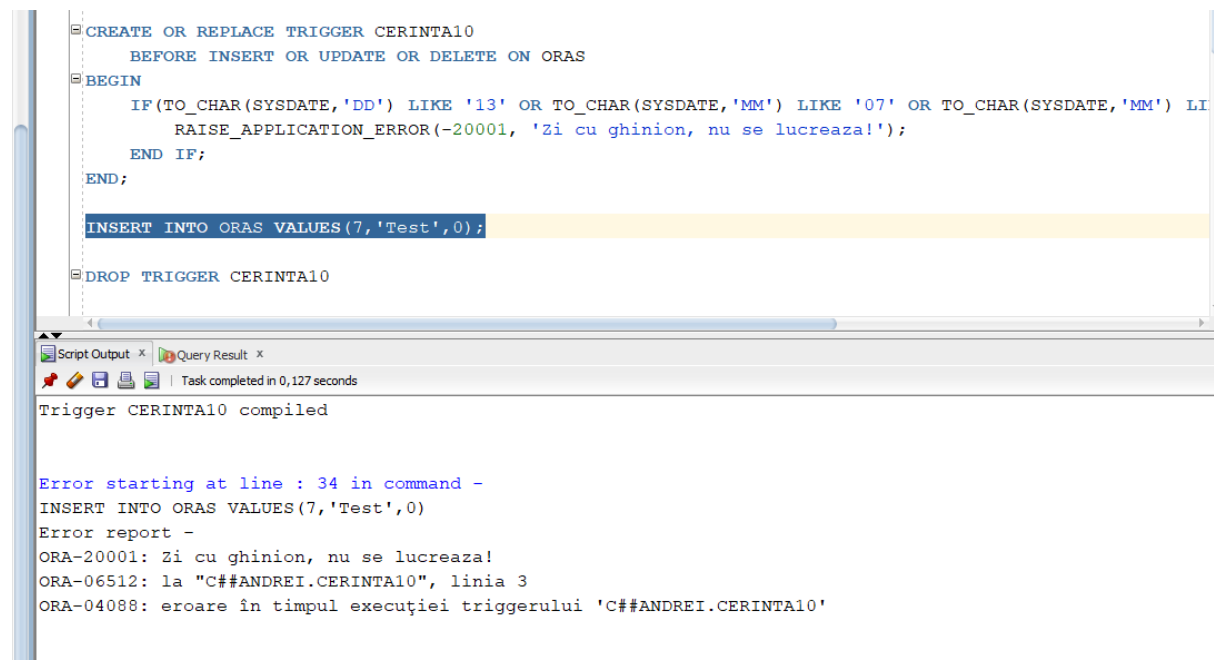
```
BEGIN
```

```
    IF(TO_CHAR(SYSDATE,'DD') LIKE '13' OR TO_CHAR(SYSDATE,'MM') LIKE '07' OR TO_CHAR(SYSDATE,'MM') LI  
    LIKE '08' OR TO_CHAR(SYSDATE,'MM') LIKE '06') THEN
```

```
        RAISE_APPLICATION_ERROR(-20001, 'Zi cu ghinion, nu se lucreaza!');
```

```
    END IF;
```

```
END;
```



```
CREATE OR REPLACE TRIGGER CERINTA10
    BEFORE INSERT OR UPDATE OR DELETE ON ORAS
BEGIN
    IF(TO_CHAR(SYSDATE,'DD') LIKE '13' OR TO_CHAR(SYSDATE,'MM') LIKE '07' OR TO_CHAR(SYSDATE,'MM') LI
        RAISE_APPLICATION_ERROR(-20001, 'Zi cu ghinion, nu se lucreaza!');
    END IF;
END;

INSERT INTO ORAS VALUES(7,'Test',0);

DROP TRIGGER CERINTA10
```

Script Output x Query Result x

Task completed in 0,127 seconds

Trigger CERINTA10 compiled

Error starting at line : 34 in command -
INSERT INTO ORAS VALUES(7,'Test',0)
Error report -
ORA-20001: Zi cu ghinion, nu se lucreaza!
ORA-06512: la "C##ANDREI.CERINTA10", linia 3
ORA-04088: eroare în timpul execuției triggerului 'C##ANDREI.CERINTA10'

Cerinta 11

--Am creat un trigger care nu permite scaderea salariului

```
CREATE OR REPLACE TRIGGER CERINTA11
```

```
    AFTER UPDATE OF SALARIU ON ANGAJAT
```

```
    FOR EACH ROW
```

```
BEGIN
```

```
    IF(:NEW.salariu < :OLD.salariu) THEN
```

```
RAISE_APPLICATION_ERROR (-20001, 'Salariul nu poate fi mai mic decat cel vechi!');  
  
END IF;  
  
END;  
  
/
```

```
UPDATE ANGAJAT  
SET SALARIU = 1  
WHERE id_angajat=1;
```

DROP TRIGGER CERINTA11

```
CREATE OR REPLACE TRIGGER CERINTA11  
AFTER UPDATE OF SALARIU ON ANGAJAT  
FOR EACH ROW  
BEGIN  
    IF (:NEW.salariu < :OLD.salariu) THEN  
        RAISE_APPLICATION_ERROR (-20001, 'Salariul nu poate fi mai mic decat cel vechi!');  
    END IF;  
END;  
  
/  
  
UPDATE ANGAJAT  
SET SALARIU = 1  
WHERE id_angajat=1;  
  
DROP TRIGGER CERINTA11
```

Cerinta 12

```
CREATE TABLE utiliz(  
    nume_utilizator VARCHAR2(255),  
    nume_bd VARCHAR(255),  
    eveniment VARCHAR2(255),  
    nume_target VARCHAR(255),  
    data DATE  
);
```

```
CREATE OR REPLACE TRIGGER CERINTA12  
AFTER CREATE OR DROP OR ALTER ON SCHEMA
```

BEGIN

INSERT INTO utiliz

values(SYS.LOGIN_USER, SYS.DATABASE_NAME, SYS.SYSEVENT, SYS.DICTIONARY_OBJ_NAME, SYSDATE);

END;

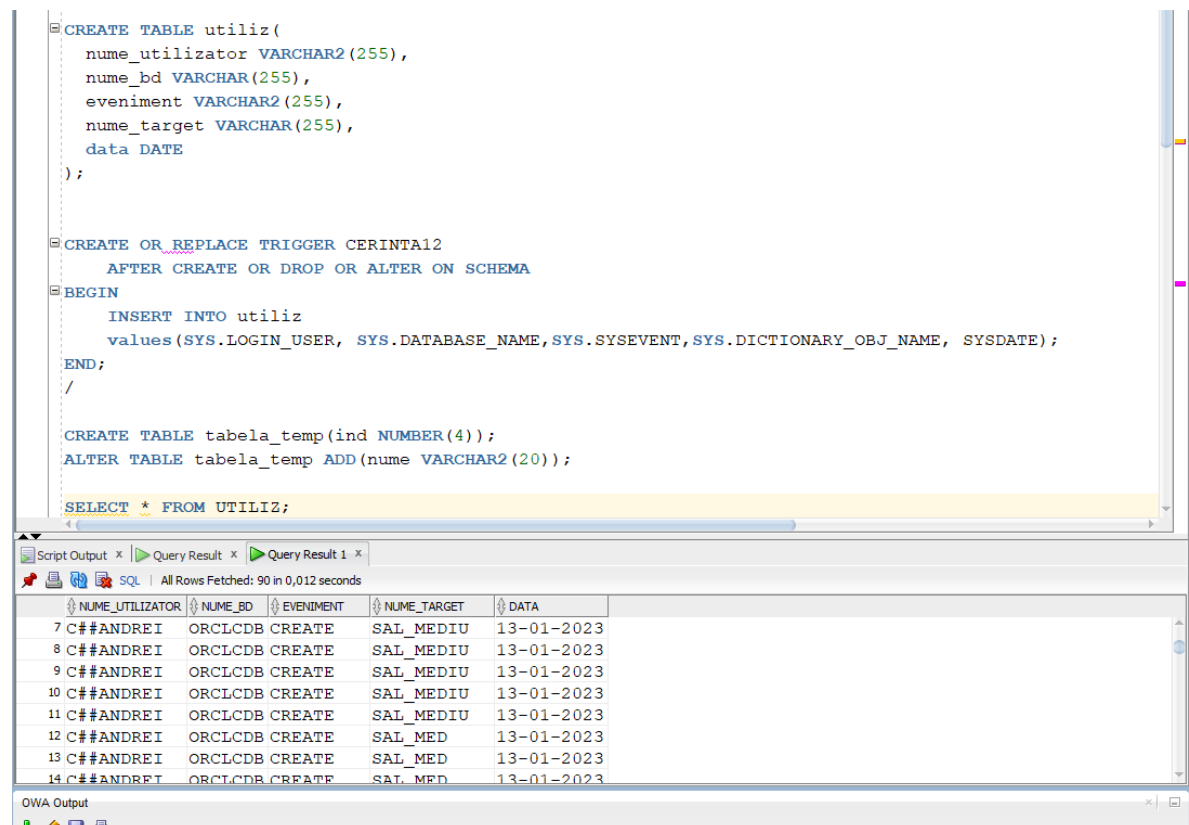
/

CREATE TABLE tabela_temp(ind NUMBER(4));

ALTER TABLE tabela_temp ADD(ume VARCHAR2(20));

SELECT * FROM UTILIZ;

DROP TRIGGER CERINTA12;



The screenshot displays the Oracle SQL Developer environment. The script editor at the top contains the following SQL code:

```
CREATE TABLE utiliz(  
    nume_utilizator VARCHAR2(255),  
    nume_bd VARCHAR(255),  
    eveniment VARCHAR2(255),  
    nume_target VARCHAR(255),  
    data DATE  
);  
  
CREATE OR REPLACE TRIGGER CERINTA12  
    AFTER CREATE OR DROP OR ALTER ON SCHEMA  
BEGIN  
    INSERT INTO utiliz  
    values(SYS.LOGIN_USER, SYS.DATABASE_NAME, SYS.SYSEVENT, SYS.DICTIONARY_OBJ_NAME, SYSDATE);  
END;  
/  
  
CREATE TABLE tabela_temp(ind NUMBER(4));  
ALTER TABLE tabela_temp ADD(ume VARCHAR2(20));  
  
SELECT * FROM UTILIZ;
```

Below the script editor, the 'Query Result' tab is active, showing a table with 5 columns: NUME_UTILIZATOR, NUME_BD, EVENIMENT, NUME_TARGET, and DATA. The table contains 7 rows of data, all with a date of 13-01-2023.

NUME_UTILIZATOR	NUME_BD	EVENIMENT	NUME_TARGET	DATA
7 C##ANDREI	ORCLCDB	CREATE	SAL_MEDIU	13-01-2023
8 C##ANDREI	ORCLCDB	CREATE	SAL_MEDIU	13-01-2023
9 C##ANDREI	ORCLCDB	CREATE	SAL_MEDIU	13-01-2023
10 C##ANDREI	ORCLCDB	CREATE	SAL_MEDIU	13-01-2023
11 C##ANDREI	ORCLCDB	CREATE	SAL_MEDIU	13-01-2023
12 C##ANDREI	ORCLCDB	CREATE	SAL_MED	13-01-2023
13 C##ANDREI	ORCLCDB	CREATE	SAL_MED	13-01-2023

Cerinta 13

CREATE OR REPLACE PACKAGE proiect_complet AS

PROCEDURE CERINTA6 (numegale GALERIE.nume_galerie%type);

```

PROCEDURE CERINTA7(umeor ORAS.ume_oras%type);

FUNCTION CERINTA8(umeegal galerie.ume_galerie%type) RETURN
NUMBER;

PROCEDURE CERINT9(umeor oras.ume_oras%type);

END proiect_complet;

/

CREATE OR REPLACE PACKAGE BODY proiect_complet
AS
PROCEDURE CERINTA6 (umeegale GALERIE.ume_galerie%type)
AS
    TYPE tab_indx IS TABLE OF EVENIMENT%ROWTYPE INDEX BY PLS_INTEGER;
    evenimente tab_indx;

    TYPE lista_nested IS TABLE OF STAFF%rowtype;
    aux_staff lista_nested := lista_nested();

    nr NUMBER;
    nr_staffs NUMBER;

BEGIN

    SELECT e.id_eveniment,e.id_galerie, e.ume_eveniment, e.data_inceput,
e.data_final
    BULK COLLECT INTO evenimente
    FROM EVENIMENT e, GALERIE g

```

```
WHERE e.id_galerie = g.id_galerie AND UPPER(g.nume_galerie) LIKE  
UPPER(numegale) ;
```

```
SELECT COUNT(*)  
INTO nr  
FROM EVENIMENT e, GALERIE g  
WHERE e.id_galerie = g.id_galerie AND UPPER(g.nume_galerie) LIKE  
UPPER(numegale)  
GROUP BY g.id_galerie;
```

```
DBMS_OUTPUT.PUT_LINE('Nr evenimente la galeria ' || numegale || ' ' ||  
nr);
```

```
FOR i in evenimente.first..evenimente.last LOOP  
    SELECT s.id_staff, s.nume_echipa, s.rol_staff  
    BULK COLLECT INTO aux_staff  
    FROM EVENIMENT_STAFF_MAPPING esm, EVENIMENT e, STAFF s  
    WHERE s.id_staff = esm.id_staff AND esm.id_eveniment =  
e.id_eveniment AND e.id_eveniment = evenimente(i).id_eveniment;  
    --DBMS_OUTPUT.PUT_LINE(aux_staff.count);  
    nr_staffs := aux_staff.count;  
  
    IF nr_staffs = 0 THEN  
        DBMS_OUTPUT.PUT_LINE('Evenimentul nu are staffs!');  
    END IF;  
  
    IF nr_staffs > 0 THEN
```

```
        DBMS_OUTPUT.PUT_LINE('Evenimentul ' ||  
evenimente(i).nume_eveniment || ' a angajat ' || nr_staffs || ' echipe');
```

```
    FOR j in aux_staff.first..aux_staff.last LOOP
```

```
        DBMS_OUTPUT.PUT_LINE(aux_staff(j).nume echipa);
```

```
    END LOOP;
```

```
END IF;
```

```
END LOOP;
```

```
END CERINTA6;
```

```
PROCEDURE CERINTA7(numeor ORAS.nume_oras%type)
```

```
AS
```

```
CURSOR GALERII IS
```

```
    SELECT *
```

```
    FROM galerie
```

```
    WHERE id_oras = (
```

```
        SELECT id_oras
```

```
        FROM ORAS
```

```
        WHERE upper(nume_oras) LIKE upper(numeor)
```

```
    );
```

```
CURSOR events(galerieid GALERIE.id_galerie%type) IS
```

```
    SELECT nume_eveniment, id_eveniment
```

```
    FROM EVENIMENT
```

```
    WHERE id_galerie = galerieid ;
```

```

CURSOR arts(idev EVENIMENT.id_eveniment%type) IS
    SELECT nume_exponat || ' About: ' || descriere
    FROM EXPONAT_EVENTIMENT_MAPPING eem
    INNER JOIN EXPONAT E
    ON E.id_exponat = eem.id_exponat
    WHERE eem.id_eveniment = idev;

```

```

den evenement.nume_eveniment%TYPE;
evid evenement.nume_eveniment%TYPE;
text VARCHAR2(250);

```

```

BEGIN

```

```

    for i in galerii
    LOOP
        DBMS_OUTPUT.PUT_LINE('Galeria ' || i.nume_galerie);
        for j in events(i.id_galerie) LOOP
            DBMS_OUTPUT.PUT_LINE('Eveniment ' || j.nume_eveniment);
            OPEN arts(j.id_eveniment);
            LOOP
                FETCH arts INTO text;
                EXIT WHEN arts%NOTFOUND;
                DBMS_OUTPUT.PUT_LINE('      ' || text);
            END LOOP;
            CLOSE arts;

```



```

        END LOOP;
        DBMS_OUTPUT.PUT_LINE('_____');
    END LOOP;

END CERINTA7;

FUNCTION CERINTA8(numegal galerie.nume_galerie%type) RETURN NUMBER
IS
    donatii NUMBER;
    datorii NUMBER;
    profit NUMBER;

    TYPE tabl_indx IS TABLE OF GALERIE%ROWTYPE INDEX BY PLS_INTEGER;
    aux tabl_indx;

    TYPE tabl_indx_sps IS TABLE OF GALERIE_SPONSOR_MAPPING%ROWTYPE
    INDEX BY PLS_INTEGER;
    aux_sps tabl_indx_sps;

    TYPE tabl_indx_ang IS TABLE OF ANGAJAT%ROWTYPE INDEX BY
    PLS_INTEGER;
    aux_ang tabl_indx_ang;

    NO_DATA_FOUND_GAL EXCEPTION;
    NO_DATA_FOUND_DATORIE EXCEPTION;
    TOO_MANY_ROWS EXCEPTION;

BEGIN

```

donatii:=0;

datorii:=0;

SELECT *

BULK COLLECT INTO aux

from GALERIE

WHERE numegal = galerie.nume_galerie;

IF SQL%NOTFOUND THEN

RAISE NO_DATA_FOUND_GAL;

END IF;

IF aux.count>1 THEN

RAISE TOO_MANY_ROWS;

END IF;

--DONATIILE

SELECT gsm.id_galerie, gsm.id_sponsor, gsm.donatie

BULK COLLECT INTO aux_sps

FROM GALERIE g

INNER JOIN GALERIE_SPONSOR_MAPPING gsm ON g.id_galerie =
gsm.id_galerie

WHERE UPPER(g.nume_galerie) LIKE UPPER(numegal);

IF SQL%NOTFOUND THEN

RAISE NO_DATA_FOUND_DATORIE;

END IF;

```
SELECT sum(donatie)
INTO DONATII
FROM GALERIE g
INNER JOIN GALERIE_SPONSOR_MAPPING gsm ON g.id_galerie =
gsm.id_galerie
WHERE UPPER(g.num_galerie) LIKE UPPER(numegal)
group by num_galerie;
```

--Salariiile

```
SELECT an.id_angajat,an.num_galerie, an.prenume_angajat,
an.data_nastere, an.salariu, an.cnp, an.id_staff
BULK COLLECT INTO aux_ang
FROM GALERIE g
INNER JOIN EVENIMENT ev ON g.id_galerie = ev.id_galerie
INNER JOIN EVENIMENT_STAFF_MAPPING ESM ON esm.id_eveniment =
ev.id_eveniment
INNER join STAFF s on s.id_staff = esm.id_staff
INNER join angajat an on an.id_STAFF = s.id_staff
WHERE UPPER(g.num_galerie) LIKE UPPER(numegal);

IF SQL%NOTFOUND THEN
    datorii:=0;

ELSE
```

```

SELECT sum(salariu)
INTO DATORII
FROM GALERIE g
INNER JOIN EVENIMENT ev ON g.id_galerie = ev.id_galerie
INNER JOIN EVENIMENT_STAFF_MAPPING ESM ON esm.id_eveniment =
ev.id_eveniment
inner join STAFF s on s.id_staff = esm.id_staff
inner join angajat an on an.id_angajat = s.id_staff
WHERE UPPER(g.num_galerie) LIKE UPPER(numegal)
GROUP BY num_galerie;
END IF;

```

profit:= donatii-datorii;

```

IF PROFIT < 0 THEN
    RAISE NO_DATA_FOUND_DATORIE;
END IF;
DBMS_OUTPUT.PUT_LINE(profit);
return profit;
EXCEPTION
    WHEN NO_DATA_FOUND_GAL THEN
        DBMS_OUTPUT.PUT_LINE('Nu exista aceasta galerie!');
        RETURN -1000;
    WHEN NO_DATA_FOUND_DATORIE THEN
        DBMS_OUTPUT.PUT_LINE('Nu a realizat niciun profit!');
        RETURN -1000;

```

```

    WHEN TOO_MANY_ROWS THEN

        DBMS_OUTPUT.PUT_LINE('Exista mai multe galerii cu acest nume!');

        RETURN -1000;

    WHEN OTHERS THEN

        DBMS_OUTPUT.PUT_LINE('Alta eroare!');

        RETURN -1000;

END CERINTA8;

PROCEDURE CERINT9(numeor oras.nume_oras%type)
AS
    TYPE tab_indx_exp IS TABLE OF EXPONAT%ROWTYPE INDEX BY
    PLS_INTEGER;

    exponate tab_indx_exp;

    TYPE tab_indx_orase IS TABLE OF ORAS%ROWTYPE INDEX BY PLS_INTEGER;

    orase tab_indx_orase;

    NO_DATA_FOUND_ORAS EXCEPTION;
    NO_DATA_FOUND_EXPONATE EXCEPTION;
    TOO_MANY_ROWS EXCEPTION;

BEGIN

    SELECT *

    BULK COLLECT INTO orase

```

FROM oras

WHERE UPPER(ume_oras) LIKE UPPER(umeor);

IF SQL%NOTFOUND THEN

RAISE NO_DATA_FOUND_ORAS;

END IF;

IF orase.count >=2 THEN

RAISE TOO_MANY_ROWS;

END IF;

SELECT DISTINCT ex.id_exponat,ex.NUME_EXPONAT, ex.data_publicare,
ex.descriere

BULK COLLECT INTO exponate

FROM ORAS o

INNER JOIN GALERIE g on g.id_oras = o.id_oras

inner join EVENIMENT ev on g.id_galerie = ev.id_galerie

inner join EXPONAT_EVENT_MAPPING eem on ev.id_event =
eem.id_event

inner join exponat ex on ex.id_exponat = eem.id_exponat

inner join EXPONAT_AUTHOR_MAPPING eam on
eam.id_exponat=ex.id_exponat

INNER join autor a on eam.id_autor = a.id_autor

WHERE a.data_decis IS NULL AND ume_oras like umeor;

```
--DBMS_OUTPUT.PUT_LINE(exponate.count);
```

```
IF exponate.count = 0 THEN
```

```
    RAISE NO_DATA_FOUND_EXPONATE;
```

```
END IF;
```

```
DBMS_OUTPUT.PUT_LINE('In orasul ' || numeor || ' sunt exponatele:');
```

```
FOR i in exponate.first..exponate.last LOOP
```

```
    DBMS_OUTPUT.PUT_LINE(exponate(i).nume_exponat);
```

```
END LOOP;
```

```
EXCEPTION
```

```
    WHEN NO_DATA_FOUND_ORAS THEN
```

```
        DBMS_OUTPUT.PUT_LINE('Nu exista acest oras!');
```

```
    WHEN NO_DATA_FOUND_EXPONATE THEN
```

```
        DBMS_OUTPUT.PUT_LINE('Nu sunt astfel de exponate in oras!');
```

```
    WHEN TOO_MANY_ROWS THEN
```

```
        DBMS_OUTPUT.PUT_LINE('Exista mai multe orase cu acest nume!');
```

```
    WHEN OTHERS THEN
```

```
        DBMS_OUTPUT.PUT_LINE('Alta eroare!');
```

```
END CERINT9;
```

```
END proiect_complet;
```

```
/
```

--testam pachetul

EXECUTE proiect_complet.CERINTA6('Primavera');

EXECUTE proiect_complet.CERINTA7('Bucuresti');

BEGIN

DBMS_OUTPUT.PUT_LINE('Cerinta 8: ' || CERINTA8('Primavera'));

END;

EXECUTE proiect_complet.CERINT9('Paris');

