PROIECT SISTEME DE GESTIUNE A BAZELOR DE DATE

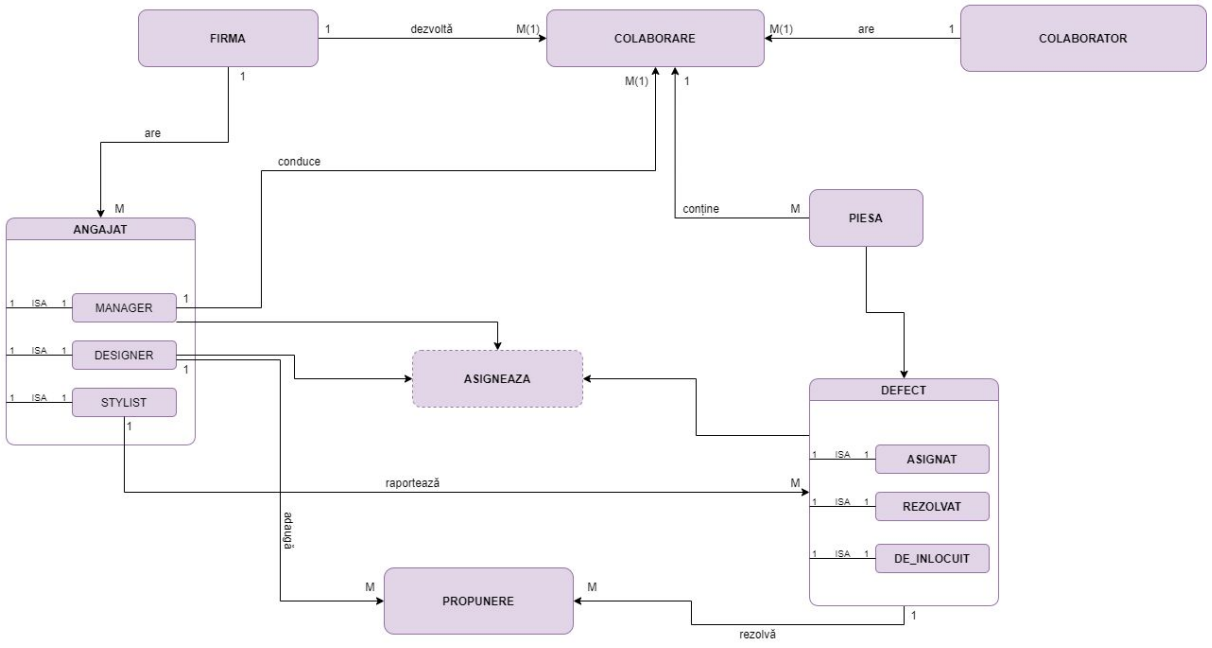
Silistru Delia-Ştefania, grupa 241

- **Prezentarea bazei de date şi utilizarea ei**

  O firma de vestimentatie haute-couture face mai multe colaborari, fiecare dintre acestea apartinand cate unui brand mass-market. Firma de vestimentatie are angajati ce pot fi de tip manager, designer si stylist. Fiecare colaborare este condusa de catre un singur angajat care trebuie sa aiba postul de manager. O colaborare poate sa fie reprezentata de mai multe piese vestimentare. La o proba pentru o piesa vestimentara se observa anumite defecte. Un defect este raportat de catre un stylist, un manager stabileste un termen limita pentru rezolvarea defectului si il asigneaza unui designer. Un defect are o stare curenta (asignat, rezolvat, de inlocuit). De-a lungul timpului defectul trece prin mai multe stari. Un defect poate avea propuneri asociate de catre designer.

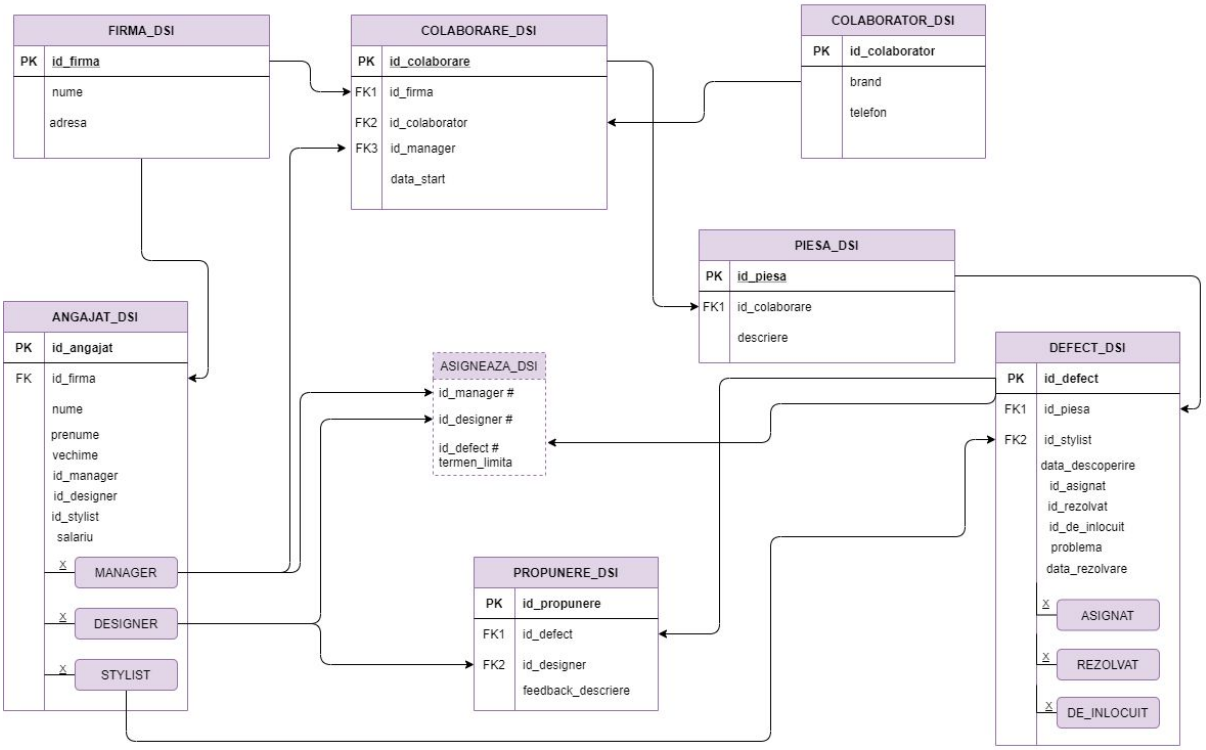
- **Diagrama entitate-relaţie (ERD)**

DIAGRAMA ENTITATE-RELAȚIE



- **Diagrama conceptuală cu toate atributele necesare**

DIAGRAMA CONCEPTUALĂ



- **Definirea tabelelor in Oracle: FIRMA_DSI, COLABORARE_DSI, COLABORATOR_DSI, ANGAJAT_DSI, PIESA_DSI, DEFECT_DSI, PROPUNERE_DSI, ASIGNEAZA_DSI**

```
---------CREAREA TABELELOR----------------

-----CREAREA TABELULUI FIRMA_DSI--------


CREATE TABLE FIRMA_DSI
   (id_firma NUMBER(4)
   CONSTRAINT id_firma_nn NOT NULL
   , nume VARCHAR2(25),
   adresa VARCHAR(25)
   );
```

```
CREATE UNIQUE INDEX id_firma_pk
ON FIRMA_DSI(id_firma);

ALTER TABLE FIRMA_DSI
ADD ( CONSTRAINT id_firma_pk
            PRIMARY KEY (id_firma)
   );


-------CREAREA TABELULUI COLABORATOR_DSI-------


CREATE TABLE COLABORATOR_DSI
   ( id_colaborator NUMBER(4)
   CONSTRAINT id_colaborator_nn NOT NULL
   , brand VARCHAR2(25),
   telefon NUMBER(4)
   );

CREATE UNIQUE INDEX id_colaborator_pk
ON COLABORATOR_DSI(id_colaborator);

ALTER TABLE COLABORATOR_DSI
ADD ( CONSTRAINT id_colaborator_pk
            PRIMARY KEY (id_colaborator)
   );

-----------CREAREA TABELULUI ANGAJAT_DSI---------

CREATE TABLE ANGAJAT_DSI
   (id_angajat NUMBER(4)
   , id_firma NUMBER(4)
   , nume VARCHAR2(25)
   , prenume VARCHAR2(25)
   , vechime NUMBER(4)
   , id_manager NUMBER(4)
   , id_design NUMBER(4)
   , id_stylist NUMBER(4)
   );

CREATE UNIQUE INDEX id_angajat_pk
ON ANGAJAT_DSI (id_angajat);

ALTER TABLE ANGAJAT_DSI
ADD ( CONSTRAINT id_angajat_pk
                  PRIMARY KEY (id_angajat)
   , CONSTRAINT id_firma_fk
                  FOREIGN KEY (id_firma)
```

```
            REFERENCES FIRMA_DSI(id_firma)
   ) ;


ALTER TABLE ANGAJAT_DSI
ADD salariu NUMBER(4);

SELECT *FROM ANGAJAT_DSI


----------CREAREA TABELULUI COLABORARE_DSI------

CREATE TABLE COLABORARE_DSI
   (id_colaborare NUMBER(4)
   , id_firma NUMBER(4)
   , id_colaborator NUMBER(4)
   , id_manager NUMBER(4)
   , data_start DATE
         CONSTRAINT     data_start_nn  NOT NULL
   );

CREATE UNIQUE INDEX id_colaborare_pk
ON COLABORARE_DSI (id_colaborare);

ALTER TABLE COLABORARE_DSI
ADD ( CONSTRAINT id_colaborare_pk
     PRIMARY KEY (id_colaborare)
   , CONSTRAINT     id_firma_firma_fk
                FOREIGN KEY (id_firma)
                REFERENCES FIRMA_DSI(id_firma)
   , CONSTRAINT     id_colaborator_fk
                FOREIGN KEY (id_colaborator)
                REFERENCES COLABORATOR_DSI(id_colaborator)
   , CONSTRAINT     id_manager_fk
                FOREIGN KEY (id_manager)
                REFERENCES ANGAJAT_DSI(id_angajat)
   ) ;

---------CREARE TABEL PIESA_DSI----

CREATE TABLE PIESA_DSI
   (
   id_piesa NUMBER(4)
   , id_colaborare NUMBER(4)
   , descriere VARCHAR2(25)
         CONSTRAINT     descriere_nn  NOT NULL
   );
```

```
CREATE UNIQUE INDEX id_piesa_pk
ON PIESA_DSI (id_piesa);

ALTER TABLE PIESA_DSI
ADD ( CONSTRAINT id_piesa_pk
                PRIMARY KEY (id_piesa)
   , CONSTRAINT id_colaborare_fk
                FOREIGN KEY (id_colaborare)
          REFERENCES COLABORARE_DSI(id_colaborare)
   ) ;


----------CREAREA TABELULUI DEFECT_DSI-----

CREATE TABLE DEFECT_DSI
   (
   id_defect NUMBER(4)
   , id_piesa NUMBER(4)
   , id_stylist NUMBER(4)
   , data_descoperire DATE
        CONSTRAINT     data_descoperire_nn  NOT NULL
   , data_rezolvare DATE
   , id_asignat NUMBER(4)
   , id_rezolvat NUMBER(4)
   , id_de_inlocuit NUMBER(4)
   , problema VARCHAR2(25)
        CONSTRAINT     problema_nn  NOT NULL
   );

CREATE UNIQUE INDEX id_defect_pk
ON DEFECT_DSI (id_defect);

ALTER TABLE DEFECT_DSI
ADD ( CONSTRAINT id_defect_pk
                PRIMARY KEY (id_defect)
   , CONSTRAINT id_piesa_fk
                FOREIGN KEY (id_piesa)
          REFERENCES PIESA_DSI(id_piesa)
   , CONSTRAINT  id_stylist_fk
        FOREIGN KEY (id_stylist)
        REFERENCES ANGAJAT_DSI(id_angajat)
   ) ;

------CREAREA TABELULUI PROPRUNERE-------

CREATE TABLE PROPUNERE_DSI
   (
   id_propunere NUMBER(4)
```

```
   , id_defect NUMBER(4)
   , id_designer NUMBER(4)
   , feedback_descriere VARCHAR2(25)
         CONSTRAINT     feedback_descriere_nn  NOT NULL
   );

CREATE UNIQUE INDEX id_propunere_pk
ON PROPUNERE_DSI (id_propunere);

ALTER TABLE PROPUNERE_DSI
ADD ( CONSTRAINT id_propunere_pk
                  PRIMARY KEY (id_propunere)
   , CONSTRAINT id_defect_fk
                  FOREIGN KEY (id_defect)
          REFERENCES DEFECT_DSI(id_defect)
   , CONSTRAINT  id_designer_fk
         FOREIGN KEY (id_designer)
         REFERENCES ANGAJAT_DSI(id_angajat)
   ) ;

-------CREAREA TABELULUI ASIGNEAZA-------
CREATE TABLE ASIGNEAZA_DSI
   ( id_manager NUMBER(4) REFERENCES ANGAJAT_DSI(id_angajat),
     id_designer NUMBER(4) REFERENCES ANGAJAT_DSI(id_angajat),
     id_defect NUMBER(4) REFERENCES DEFECT_DSI(id_defect),
     termen_limita DATE
     CONSTRAINT     termen_limita_nn  NOT NULL,
     primary key(id_manager, id_designer, id_defect));


--------AM TERMINAT DE CREAT TABELELE----------
```

Statement 1

```
CREATE TABLE FIRMA_DSI
    (id_firma NUMBER(4)
    CONSTRAINT id_firma_nn NOT NULL
    , nume VARCHAR2(25),
    adresa VARCHAR(25)
    )
```

Table created.

Statement 2

```
CREATE UNIQUE INDEX id_firma_pk
ON FIRMA_DSI(id_firma)
```

Index created.

Statement 3

```
ALTER TABLE FIRMA_DSI
ADD ( CONSTRAINT id_firma_pk
                PRIMARY KEY (id_firma)
    )
```

Table altered.

Statement 4

```
CREATE TABLE COLABORATOR_DSI
    ( id_colaborator NUMBER(4)
    CONSTRAINT id_colaborator_nn NOT NULL
    , brand VARCHAR2(25),
    telefon NUMBER(4)
    )
```

Table created.

Statement 5

```
CREATE UNIQUE INDEX id_colaborator_pk
ON COLABORATOR_DSI(id_colaborator)
```

Index created.

Statement 6

```
ALTER TABLE COLABORATOR_DSI
ADD ( CONSTRAINT id_colaborator_pk
                PRIMARY KEY (id_colaborator)
    )
```

Table altered.

Statement 7

```
CREATE TABLE ANGAJAT_DSI
    (id_angajat NUMBER(4)
    , id_firma NUMBER(4)
    , nume VARCHAR2(25)
    , prenume VARCHAR2(25)
    , vechime NUMBER(4)
    , id_manager NUMBER(4)
    , id_design NUMBER(4)
    , id_stylist NUMBER(4)
    )
```

Table created.

Statement 8

```
CREATE UNIQUE INDEX id_angajat_pk
ON ANGAJAT_DSI (id_angajat)
```

Index created.

Statement 9

```
ALTER TABLE ANGAJAT_DSI
ADD ( CONSTRAINT id_angajat_pk
                PRIMARY KEY (id_angajat)
    , CONSTRAINT id_firma_fk
                FOREIGN KEY (id_firma)
                 REFERENCES FIRMA_DSI(id_firma)
    )
```

Table altered.

Statement 10

```
ALTER TABLE ANGAJAT_DSI
ADD salariu NUMBER(4)
```

Table altered.

Statement 11

```
CREATE TABLE COLABORARE_DSI
    (id_colaborare NUMBER(4)
    , id_firma NUMBER(4)
    , id_colaborator NUMBER(4)
    , id_manager NUMBER(4)
    , data_start DATE
        CONSTRAINT     data_start_nn  NOT NULL
    )
```

Table created.

Statement 12

```
CREATE UNIQUE INDEX id_colaborare_pk
ON COLABORARE_DSI (id_colaborare)
```

Index created.

Statement 13

```
ALTER TABLE COLABORARE_DSI
ADD ( CONSTRAINT id_colaborare_pk
      PRIMARY KEY (id_colaborare)
    , CONSTRAINT     id_firma_firma_fk
                     FOREIGN KEY (id_firma)
                     REFERENCES FIRMA_DSI(id_firma)
    , CONSTRAINT     id_colaborator_fk
                     FOREIGN KEY (id_colaborator)
                     REFERENCES COLABORATOR_DSI(id_colaborator)
    , CONSTRAINT     id_manager_fk
                     FOREIGN KEY (id_manager)
                     REFERENCES ANGAJAT_DSI(id_angajat)
    )
```

Table altered.

Statement 14

```
CREATE TABLE PIESA_DSI
    (
    id_piesa NUMBER(4)
    , id_colaborare NUMBER(4)
    , descriere VARCHAR2(25)
        CONSTRAINT     descriere_nn  NOT NULL
    )
```

Table created.

Statement 15

```
CREATE UNIQUE INDEX id_piesa_pk
ON PIESA_DSI (id_piesa)
```

Index created.

Statement 16

```
ALTER TABLE PIESA_DSI
ADD ( CONSTRAINT id_piesa_pk
                PRIMARY KEY (id_piesa)
    , CONSTRAINT id_colaborare_fk
                FOREIGN KEY (id_colaborare)
                 REFERENCES COLABORARE_DSI(id_colaborare)
    )
```

Table altered.

Statement 17

```
CREATE TABLE DEFECT_DSI
    (
    id_defect NUMBER(4)
    , id_piesa NUMBER(4)
    , id_stylist NUMBER(4)
    , data_descoperire DATE
        CONSTRAINT     data_descoperire_nn  NOT NULL
    , data_rezolvare DATE
    , id_asignat NUMBER(4)
    , id_rezolvat NUMBER(4)
    , id_de_inlocuit NUMBER(4)
    , problema VARCHAR2(25)
        CONSTRAINT     problema_nn  NOT NULL
    )
```

Table created.

Statement 18

```
CREATE UNIQUE INDEX id_defect_pk
ON DEFECT_DSI (id_defect)
```

Index created.

Statement 19

```
ALTER TABLE DEFECT_DSI
ADD ( CONSTRAINT id_defect_pk
                PRIMARY KEY (id_defect)
    , CONSTRAINT id_piesa_fk
                FOREIGN KEY (id_piesa)
                 REFERENCES PIESA_DSI(id_piesa)
    , CONSTRAINT  id_stylist_fk
           FOREIGN KEY (id_stylist)
           REFERENCES ANGAJAT_DSI(id_angajat)
    )
```

Table altered.

Statement 20

```
CREATE TABLE PROPUNERE_DSI
    (
    id_propunere NUMBER(4)
    , id_defect NUMBER(4)
    , id_designer NUMBER(4)
    , feedback_descriere VARCHAR2(25)
        CONSTRAINT     feedback_descriere_nn  NOT NULL
    )
```

Table created.

Statement 21

```
CREATE UNIQUE INDEX id_propunere_pk
ON PROPUNERE_DSI (id_propunere)
```

Index created.

Statement 22

```
ALTER TABLE PROPUNERE_DSI
ADD ( CONSTRAINT id_propunere_pk
                PRIMARY KEY (id_propunere)
    , CONSTRAINT id_defect_fk
                FOREIGN KEY (id_defect)
                 REFERENCES DEFECT_DSI(id_defect)
    , CONSTRAINT  id_designer_fk
           FOREIGN KEY (id_designer)
           REFERENCES ANGAJAT_DSI(id_angajat)
    )
```

Table altered.

Statement 23

```
CREATE TABLE ASIGNEAZA_DSI
    ( id_manager NUMBER(4) REFERENCES ANGAJAT_DSI(id_angajat),
      id_designer NUMBER(4) REFERENCES ANGAJAT_DSI(id_angajat),
      id_defect NUMBER(4) REFERENCES DEFECT_DSI(id_defect),
      termen_limita DATE
      CONSTRAINT     termen_limita_nn  NOT NULL,
      primary key(id_manager, id_designer, id_defect))
```

Table created.

- **Popularea tabelelor in Oracle: FIRMA_DSI, COLABORARE_DSI, COLABORATOR_DSI, ANGAJAT_DSI, PIESA_DSI, DEFECT_DSI, PROPUNERE_DSI, ASIGNEAZA_DSI**

```
-------POPULAREA TABELULUI FIRMA_DSI---------

INSERT INTO FIRMA_DSI VALUES (1, 'Dior', 'Paris25');

SELECT *FROM FIRMA_DSI;

--------POPULAREA TABELULUI COLABORATOR_DSI-----

INSERT INTO COLABORATOR_DSI VALUES (1, 'Zara', 2322);
INSERT INTO COLABORATOR_DSI VALUES (2, 'HM', 1222);
INSERT INTO COLABORATOR_DSI VALUES (3, 'Asos', 2533);
INSERT INTO COLABORATOR_DSI VALUES (4, 'Guess', 8333);
INSERT INTO COLABORATOR_DSI VALUES (5, 'Aldo', 1234);
INSERT INTO COLABORATOR_DSI VALUES (6, 'Polo', 6543);
INSERT INTO COLABORATOR_DSI VALUES (7, 'Adidas', 8865);

SELECT *FROM COLABORATOR_DSI

-------POPULAREA TABELULUI ANGAJAT_DSI------


INSERT INTO ANGAJAT_DSI VALUES (1, 1, 'Gavril', 'Bogdan', 5, 1, NULL, NULL,
8900);
INSERT INTO ANGAJAT_DSI VALUES (2, 1, 'Stirbu', 'Denisa', 2, NULL, 1, NULL,
6544);
INSERT INTO ANGAJAT_DSI VALUES (3, 1, 'Trifan', 'Magda', 3, NULL, NULL, 1,
7888);
INSERT INTO ANGAJAT_DSI VALUES (4, 1, 'Urse', 'Ilinca', 7, 1, NULL, NULL,
8300);
INSERT INTO ANGAJAT_DSI VALUES (5, 1, 'Neagu', 'Andi', 6, 1, NULL, NULL,
9212);
INSERT INTO ANGAJAT_DSI VALUES (6, 1, 'Costea', 'Ionut', 1, 1, NULL, NULL,
5643);
INSERT INTO ANGAJAT_DSI VALUES (7, 1, 'Silistru', 'Delia', 9, 1, NULL, NULL,
9999);
INSERT INTO ANGAJAT_DSI VALUES (8, 1, 'Ceausu', 'Corina', 8, NULL, 1, NULL,
9121);
INSERT INTO ANGAJAT_DSI VALUES (9, 1, 'Calin', 'Andrei', 10, NULL, NULL, 1,
8775);
INSERT INTO ANGAJAT_DSI VALUES (10, 1, 'Filip', 'Alexandra', 11, NULL, 1,
NULL, 8221);
INSERT INTO ANGAJAT_DSI VALUES (11, 1, 'Dorcioman', 'Razvan', 12, 1, NULL,
NULL, 7755);
```

```
INSERT INTO ANGAJAT_DSI VALUES (12, 1, 'Bulmaci', 'Raluca', 13, 1, NULL,
NULL, 9887);
INSERT INTO ANGAJAT_DSI VALUES (13, 1, 'Panainte', 'Iulia', 14, NULL, NULL, 1,
9812);
INSERT INTO ANGAJAT_DSI VALUES (14, 1, 'Atudore', 'Darius', 15, NULL, 1,
NULL, 6574);
INSERT INTO ANGAJAT_DSI VALUES (15, 1, 'Zota', 'Bianca', 20, NULL, 1, NULL,
8751);
INSERT INTO ANGAJAT_DSI VALUES (16, 1, 'Tilici', 'Ioana', 21, NULL, 1, NULL,
7888);

SELECT *FROM ANGAJAT_DSI;



-----POPULARE TABEL COLABORARE_DSI----------

INSERT INTO COLABORARE_DSI VALUES(1, 1, 1, 1, '01-JAN-19');
INSERT INTO COLABORARE_DSI VALUES(2, 1, 2, 4, '20-NOV-20');
INSERT INTO COLABORARE_DSI VALUES(3, 1, 3, 5, '19-FEB-18');
INSERT INTO COLABORARE_DSI VALUES(4, 1, 4, 6, '17-DEC-19');
INSERT INTO COLABORARE_DSI VALUES(5, 1, 5, 7, '18-MAY-20');
INSERT INTO COLABORARE_DSI VALUES(6, 1, 6, 11, '15-JAN-17');
INSERT INTO COLABORARE_DSI VALUES(7, 1, 7, 12, '15-DEC-15');

SELECT *FROM COLABORARE_DSI;


----POPULARE TABEL PIESA_DSI------

INSERT INTO PIESA_DSI VALUES(1, 1, 'top cu maneci bufante');
INSERT INTO PIESA_DSI VALUES(2, 2, 'pantaloni piele naturala');
INSERT INTO PIESA_DSI VALUES(3, 3, 'rochie din paiete');
INSERT INTO PIESA_DSI VALUES(4, 4, 'esarfa matase naturala');
INSERT INTO PIESA_DSI VALUES(5, 5, 'sandale cu toc subtire');
INSERT INTO PIESA_DSI VALUES(6, 6, 'rochie imprimeu floral');
INSERT INTO PIESA_DSI VALUES(7, 7, 'fusta scurta din catifea');

SELECT *FROM PIESA_DSI;

----POPULARE TABEL DEFECT_DSI--------


INSERT INTO DEFECT_DSI VALUES(1, 1, 3, '23-JUN-19',NULL, 1, NULL, NULL,
'problema simetrie');
INSERT INTO DEFECT_DSI VALUES(2, 3, 9, '12-JAN-20','17-FEB-20', NULL, 1,
NULL, 'paiete lipsa');
```

```
INSERT INTO DEFECT_DSI VALUES(3, 7, 13, '10-JAN-19','12-DEC-19',NULL, 1,
NULL, 'material deteriorat');

SELECT *FROM DEFECT_DSI;


------POPULARE TABEL ASIGNEAZA_DSI--------


INSERT INTO ASIGNEAZA_DSI VALUES(1, 2, 1, '27-JUL-19');
INSERT INTO ASIGNEAZA_DSI VALUES(4, 8, 2, '18-FEB-20');
INSERT INTO ASIGNEAZA_DSI VALUES(5, 10, 3, '03-DEC-19');
INSERT INTO ASIGNEAZA_DSI VALUES(11, 15, 1, '27-JUL-19');
INSERT INTO ASIGNEAZA_DSI VALUES(7, 14, 1, '27-JUL-19');
INSERT INTO ASIGNEAZA_DSI VALUES(6, 8, 3, '03-DEC-19');
INSERT INTO ASIGNEAZA_DSI VALUES(12, 16, 1, '27-JUL-19');
INSERT INTO ASIGNEAZA_DSI VALUES(6, 15, 3, '03-DEC-19');
INSERT INTO ASIGNEAZA_DSI VALUES(4, 2, 3, '03-DEC-19');
INSERT INTO ASIGNEAZA_DSI VALUES(5, 15, 1, '27-JUL-19');


select *from ASIGNEAZA_DSI;

-----POPULARE TABEL PROPUNERE_DSI------

INSERT INTO PROPUNERE_DSI VALUES(1, 1, 2, 'ajustare maneca');
INSERT INTO PROPUNERE_DSI VALUES(2, 2, 10, 'lipire paiete');
INSERT INTO PROPUNERE_DSI VALUES(3, 3, 15, 'inlocuire material');

SELECT *FROM PROPUNERE_DSI;

COMMIT;
----------AM TERMINAT DE POPULAT TABELELE----------
```

```
190
191 INSERT INTO FIRMA_DSI VALUES (1, 'Dior', 'Paris25');
192
193 SELECT *FROM FIRMA_DSI;
194
195 --------POPULAREA TABELULUI COLABORATOR_DSI-----
196
197 INSERT INTO COLABORATOR_DSI VALUES (1, 'Zara', 2322);
198 INSERT INTO COLABORATOR_DSI VALUES (2, 'HM', 1222);
199 INSERT INTO COLABORATOR_DSI VALUES (3, 'Asos', 2533);
200 INSERT INTO COLABORATOR_DSI VALUES (4, 'Guess', 8333);
201 INSERT INTO COLABORATOR_DSI VALUES (5, 'Aldo', 1234);
202 INSERT INTO COLABORATOR_DSI VALUES (6, 'Polo', 6543);
203 INSERT INTO COLABORATOR_DSI VALUES (7, 'Adidas', 8865);
204
205 SELECT *FROM COLABORATOR_DSI
206
207 -------POPULAREA TABELULUI ANGAJAT_DSI------
208
209
210 INSERT INTO ANGAJAT_DSI VALUES (1, 1, 'Gavril', 'Bogdan', 5, 1, NULL, NULL, 8900);
211 INSERT INTO ANGAJAT_DSI VALUES (2, 1, 'Stirbu', 'Denisa', 2, NULL, 1, NULL, 6544);
212 INSERT INTO ANGAJAT_DSI VALUES (3, 1, 'Trifan', 'Magda', 3, NULL, NULL, 1, 7888);
213 INSERT INTO ANGAJAT_DSI VALUES (4, 1, 'Urse', 'Ilinca', 7, 1, NULL, NULL, 8300);
214 INSERT INTO ANGAJAT_DSI VALUES (5, 1, 'Neagu', 'Andi', 6, 1, NULL, NULL, 9212);
215 INSERT INTO ANGAJAT_DSI VALUES (6, 1, 'Costea', 'Ionut', 1, 1, NULL, NULL, 5643);
216 INSERT INTO ANGAJAT_DSI VALUES (7, 1, 'Silistru', 'Delia', 9, 1, NULL, NULL, 9999);
217 INSERT INTO ANGAJAT_DSI VALUES (8, 1, 'Ceausu', 'Corina', 8, NULL, 1, NULL, 9121);
218 INSERT INTO ANGAJAT_DSI VALUES (9, 1, 'Calin', 'Andrei', 10, NULL, NULL, 1, 8775);
219 INSERT INTO ANGAJAT_DSI VALUES (10, 1, 'Filip', 'Alexandra', 11, NULL, 1, NULL, 8221);
220 INSERT INTO ANGAJAT_DSI VALUES (11, 1, 'Dorcioman', 'Razvan', 12, 1, NULL, NULL, 7755);
221 INSERT INTO ANGAJAT_DSI VALUES (12, 1, 'Bulmaci', 'Raluca', 13, 1, NULL, NULL, 9887);
222 INSERT INTO ANGAJAT_DSI VALUES (13, 1, 'Panainte', 'Iulia', 14, NULL, NULL, 1, 9812);
223 INSERT INTO ANGAJAT_DSI VALUES (14, 1, 'Atudore', 'Darius', 15, NULL, 1, NULL, 6574);
224 INSERT INTO ANGAJAT_DSI VALUES (15, 1, 'Zota', 'Bianca', 20, NULL, 1, NULL, 8751);
225 INSERT INTO ANGAJAT_DSI VALUES (16, 1, 'Tilici', 'Ioana', 21, NULL, 1, NULL, 7888);
226
227 SELECT *FROM ANGAJAT_DSI;
```

```
-----POPULARE TABEL COLABORARE_DSI----------

INSERT INTO COLABORARE_DSI VALUES(1, 1, 1, 1, '01-JAN-19');
INSERT INTO COLABORARE_DSI VALUES(2, 1, 2, 4, '20-NOV-20');
INSERT INTO COLABORARE_DSI VALUES(3, 1, 3, 5, '19-FEB-18');
INSERT INTO COLABORARE_DSI VALUES(4, 1, 4, 6, '17-DEC-19');
INSERT INTO COLABORARE_DSI VALUES(5, 1, 5, 7, '18-MAY-20');
INSERT INTO COLABORARE_DSI VALUES(6, 1, 6, 11, '15-JAN-17');
INSERT INTO COLABORARE_DSI VALUES(7, 1, 7, 12, '15-DEC-15');

SELECT *FROM COLABORARE_DSI;


----POPULARE TABEL PIESA_DSI------

INSERT INTO PIESA_DSI VALUES(1, 1, 'top cu maneci bufante');
INSERT INTO PIESA_DSI VALUES(2, 2, 'pantaloni piele naturala');
INSERT INTO PIESA_DSI VALUES(3, 3, 'rochie din paiete');
INSERT INTO PIESA_DSI VALUES(4, 4, 'esarfa matase naturala');
INSERT INTO PIESA_DSI VALUES(5, 5, 'sandale cu toc subtire');
INSERT INTO PIESA_DSI VALUES(6, 6, 'rochie imprimeu floral');
INSERT INTO PIESA_DSI VALUES(7, 7, 'fusta scurta din catifea');

SELECT *FROM PIESA_DSI;

----POPULARE TABEL DEFECT_DSI--------


INSERT INTO DEFECT_DSI VALUES(1, 1, 3, '23-JUN-19', 1, NULL, NULL, 'problema simetrie');
INSERT INTO DEFECT_DSI VALUES(2, 3, 9, '12-JAN-20', NULL, 1, NULL, 'paiete lipsa');
INSERT INTO DEFECT_DSI VALUES(3, 7, 13, '10-JAN-19',NULL, 1, NULL, 'material deteriorat');

SELECT *FROM DEFECT_DSI;
```

```
------POPULARE TABEL ASIGNEAZA_DSI--------


INSERT INTO ASIGNEAZA_DSI VALUES(1, 2, 1, '27-JUL-19');
INSERT INTO ASIGNEAZA_DSI VALUES(4, 8, 2, '18-FEB-20');
INSERT INTO ASIGNEAZA_DSI VALUES(5, 10, 3, '03-DEC-19');
INSERT INTO ASIGNEAZA_DSI VALUES(11, 15, 1, '27-JUL-19');
INSERT INTO ASIGNEAZA_DSI VALUES(7, 14, 1, '27-JUL-19');
INSERT INTO ASIGNEAZA_DSI VALUES(6, 8, 3, '03-DEC-19');
INSERT INTO ASIGNEAZA_DSI VALUES(12, 16, 1, '27-JUL-19');
INSERT INTO ASIGNEAZA_DSI VALUES(6, 15, 3, '03-DEC-19');
INSERT INTO ASIGNEAZA_DSI VALUES(4, 2, 3, '03-DEC-19');
INSERT INTO ASIGNEAZA_DSI VALUES(5, 15, 1, '27-JUL-19');

select *from ASIGNEAZA_DSI;

-----POPULARE TABEL PROPUNERE_DSI------

INSERT INTO PROPUNERE_DSI VALUES(1, 1, 2, 'ajustare maneca');
INSERT INTO PROPUNERE_DSI VALUES(2, 2, 10, 'lipire paiete');
INSERT INTO PROPUNERE_DSI VALUES(3, 3, 15, 'inlocuire material');

SELECT *FROM PROPUNERE_DSI;

COMMIT;
-----------AM TERMINAT DE POPULAT TABELELE-----------
```

Statement 25

```
SELECT *FROM FIRMA_DSI
```

ID_FIRMA	NUME	ADRESA
1	Dior	Paris25

Download CSV

Statement 40

```
SELECT *FROM COLABORATOR_DSI
```

ID_COLABORATOR	BRAND	TELEFON
1	Zara	2322
2	HM	1222
3	Asos	2533
4	Guess	8333
5	Aldo	1234
6	Polo	6543
7	Adidas	8865

Download CSV

7 rows selected.

Statement 65

```
SELECT *FROM COLABORARE_DSI
```

ID_COLABORARE	ID_FIRMA	ID_COLABORATOR	ID_MANAGER	DATA_START
1	1	1	1	01-JAN-19
2	1	2	4	20-NOV-20
3	1	3	5	19-FEB-18
4	1	4	6	17-DEC-19
5	1	5	7	18-MAY-20
6	1	6	11	15-JAN-17
7	1	7	12	15-DEC-15

Download CSV

7 rows selected.

Statement 51

```
SELECT *FROM ANGAJAT_DSI
```

ID_ANGAJAT	ID_FIRMA	NUME	PRENUME	VECHIME	ID_MANAGER	ID_DESIGN	ID_STYLIST	SALARIU
1	1	Gavril	Bogdan	5	1	-	-	8900
2	1	Stirbu	Denisa	2	-	1	-	6544
3	1	Trifan	Magda	3	-	-	1	7888
4	1	Urse	Ilinca	7	1	-	-	8300
5	1	Neagu	Andi	6	1	-	-	9212
6	1	Costea	Ionut	1	1	-	-	5643
7	1	Silistru	Delia	9	1	-	-	9999
8	1	Ceausu	Corina	8	-	1	-	9121
9	1	Calin	Andrei	10	-	-	1	8775
10	1	Filip	Alexandra	11	-	1	-	8221
11	1	Dorcioman	Razvan	12	1	-	-	7755
12	1	Bulmaci	Raluca	13	1	-	-	9887
13	1	Panainte	Iulia	14	-	-	1	9812
14	1	Atudore	Darius	15	-	1	-	6574
15	1	Zota	Bianca	20	-	1	-	8751
16	1	Tilici	Ioana	21	-	1	-	7888

Download CSV

16 rows selected.

Statement 73

```
SELECT *FROM PIESA_DSI
```

ID_PIESA	ID_COLABORARE	DESCRIERE
1	1	top cu maneci bufante
2	2	pantaloni piele naturala
3	3	rochie din paiete
4	4	esarfa matase naturala
5	5	sandale cu toc subtire
6	6	rochie imprimeu floral
7	7	fusta scurta din catifea

Download CSV

7 rows selected.

Statement 87

```
select *from ASIGNEAZA_DSI
```

ID_MANAGER	ID_DESIGNER	ID_DEFECT	TERMEN_LIMITA
1	2	1	27-JUL-19
4	8	2	18-FEB-20
5	10	3	12-JAN-19
11	15	1	29-SEP-19
7	14	1	29-OCT-19
6	8	3	25-APR-19
12	16	1	17-NOV-19
6	15	3	03-DEC-19
4	2	3	16-JAN-19
5	15	1	27-DEC-19

Download CSV

10 rows selected.

Statement 91

```
SELECT *FROM PROPUNERE_DSI
```

ID_PROPUNERE	ID_DEFECT	ID_DESIGNER	FEEDBACK_DESCRIERE
1	1	2	ajustare maneca
2	2	10	lipire paiete
3	3	15	inlocuire material

Download CSV

3 rows selected.

Statement 74

```
SELECT *FROM DEFECT_DSI
```

ID_DEFECT	ID_PIESA	ID_STYLIST	DATA_DESCOPERIRE	DATA_REZOLVARE	ID_ASIGNAT	ID_REZOLVAT	ID_DE_INLOCUIT	PROBLEMA
1	1	3	23-JUN-19	-	1	-	-	problema simetrie
2	3	9	12-JAN-20	17-FEB-20	-	1	-	paiete lipsa
3	7	13	10-JAN-19	12-DEC-19	-	1	-	material deteriorat

Download CSV

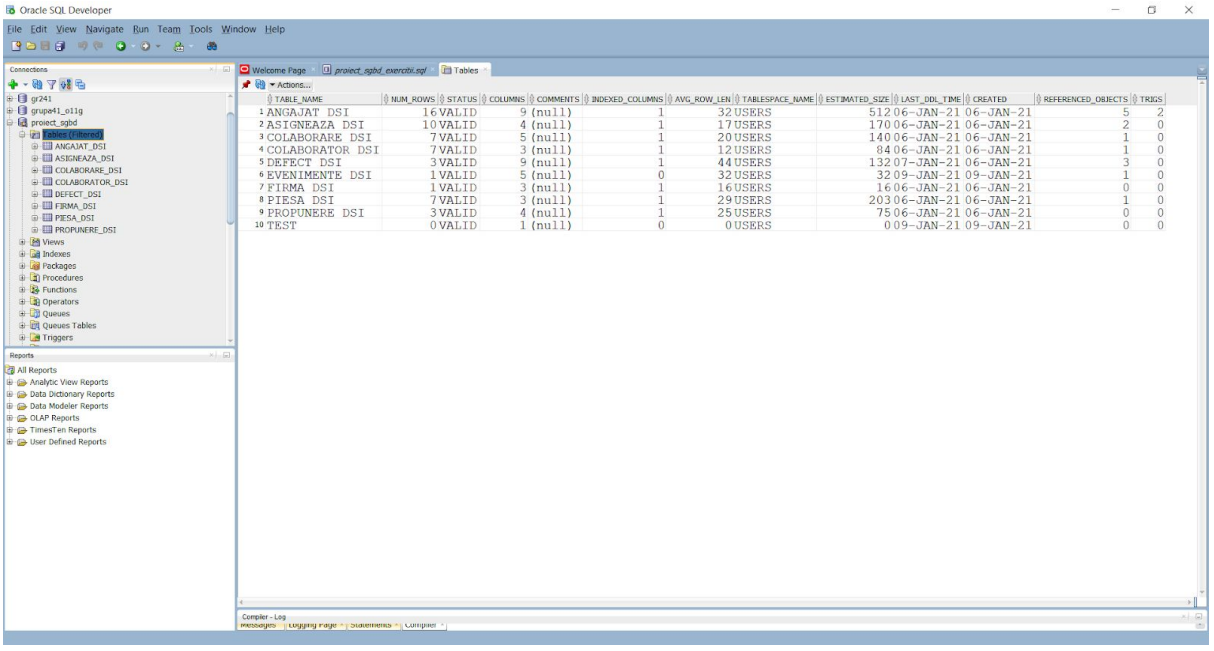
3 rows selected.

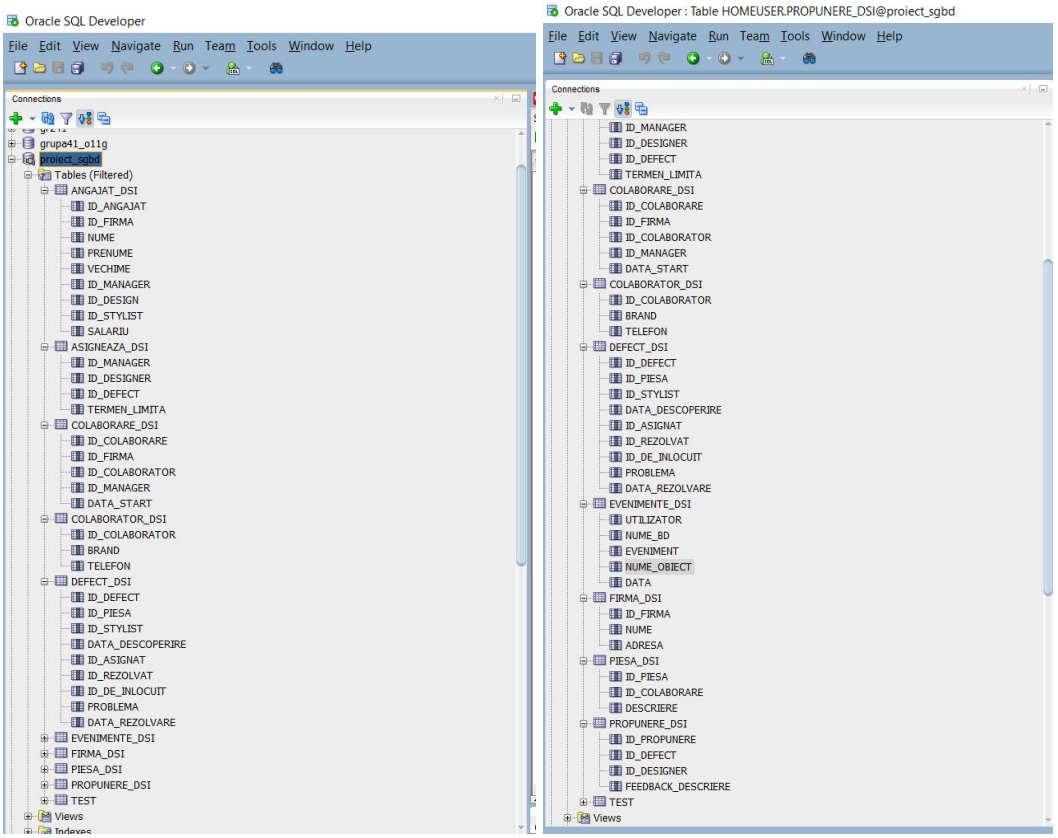
Statement 92

```
COMMIT
```

Statement processed.

Desi am inceput proiectul lucrand pe Oracle Live SQL, am continuat pe SQL Developer.

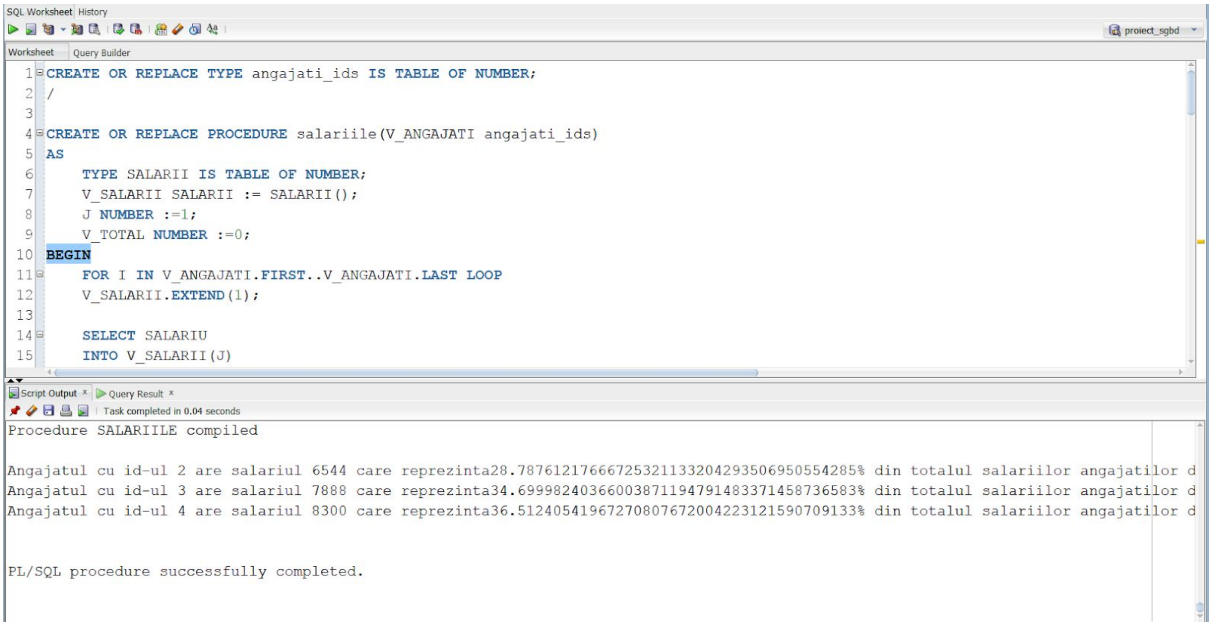




1. Definiti un subprogram stocat care sa utilizeze un tip de colectie studiat prin care sa obtineti salariile angajatilor a caror id-uri sunt date ca parametru printr-un vector, precum si procentajul salariului fiecarui angajat din totalul salariilor acestora.

```
 CREATE OR REPLACE TYPE angajati_ids IS TABLE OF NUMBER;
/

CREATE OR REPLACE PROCEDURE salariile(V_ANGAJATI angajati_ids)
AS
    TYPE SALARII IS TABLE OF NUMBER;
    V_SALARII SALARII := SALARII();
    J NUMBER :=1;
    V_TOTAL NUMBER :=0;
BEGIN
    FOR I IN V_ANGAJATI.FIRST..V_ANGAJATI.LAST LOOP
    V_SALARII.EXTEND(1);

    SELECT SALARIU
    INTO V_SALARII(J)
    FROM ANGAJAT_DSI
    WHERE ID_ANGAJAT = V_ANGAJATI(I);

    V_TOTAL := V_TOTAL + V_SALARII(J);
    J := J+1;
    END LOOP;
```

```
    FOR I IN V_SALARII.FIRST..V_SALARII.LAST LOOP
        DBMS_OUTPUT.PUT_LINE('Angajatul cu id-ul ' || V_ANGAJATI(I) || ' are
salariul ' || V_SALARII(I) || ' care reprezinta' || 100*V_SALARII(I)/V_TOTAL || '% din
totalul salariilor angajatilor dati' );
    END LOOP;

END;
/
SET SERVEROUTPUT ON;

DECLARE
    vt_angajati angajati_ids := angajati_ids();
BEGIN
    vt_angajati.extend(3);
    vt_angajati(1) := 2;
    vt_angajati(2) := 3;
    vt_angajati(3) := 4;
    salariile(vt_angajati);
END;
/
```



2. Definiti un subprogram stocat care sa utilizeze un tip de cursor studiat prin care sa obtineti informatii legate de timpul in care designerii au reusit sa rezolve defectul care le-a fost asignate. La final afisati media acestor intervale de timp.

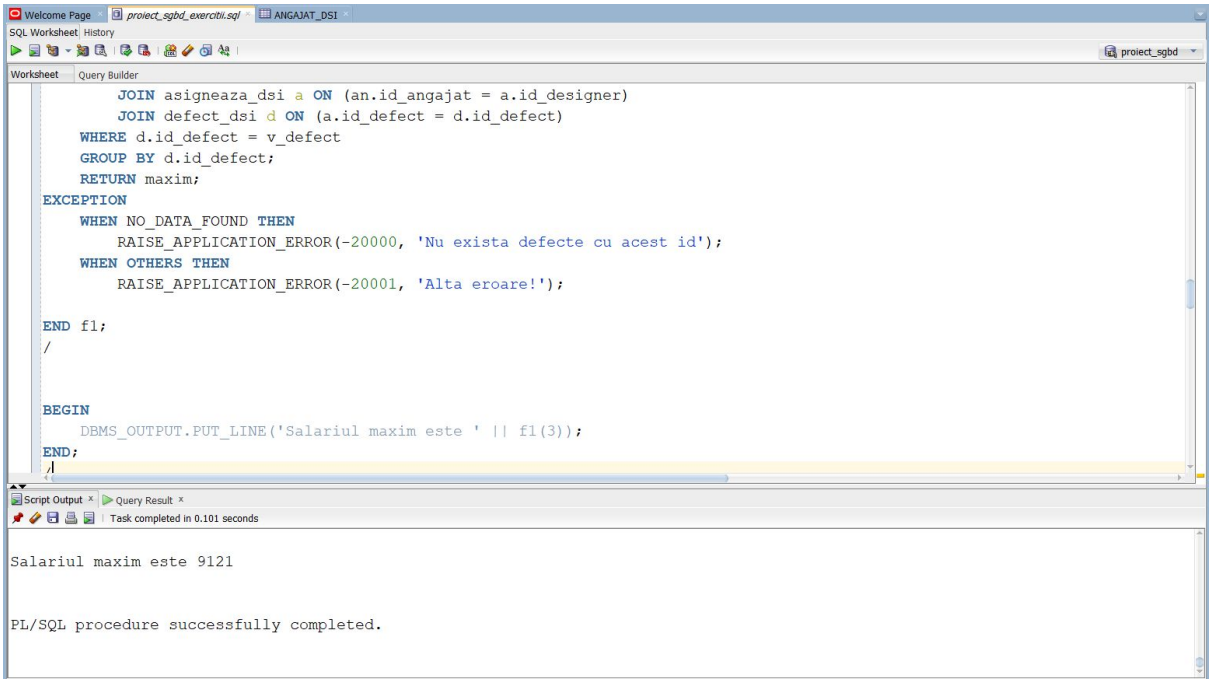
```
CREATE OR REPLACE PROCEDURE p2
AS
   CURSOR c IS
      (SELECT distinct problema, termen_limita, data_rezolvare
       from defect_dsi d, asigneaza_dsi a
       where d.id_defect = a.id_defect and id_rezolvat = 1
      );
       v_problema defect_dsi.problema%TYPE;
       v_termen_limita asigneaza_dsi.termen_limita%TYPE;
       v_data_rezolvare defect_dsi.data_rezolvare%TYPE;
       v_diferenta NUMBER;
       v_medie NUMBER := null;
       v_total NUMBER := 0;
       v_nr_elemente NUMBER :=0;
   BEGIN
       OPEN c;
       loop
          fetch c into v_problema, v_termen_limita, v_data_rezolvare;
          exit when c%notfound;
          v_diferenta := v_data_rezolvare - v_termen_limita;
          if v_data_rezolvare > v_termen_limita then
             DBMS_OUTPUT.PUT_LINE('Designerii nu s-au descurcat si au intarziat cu ' ||
v_diferenta || ' zile in rezolvarea problemei: ' || v_problema );
                v_total := v_total - v_diferenta;
          elsif v_diferenta > 0 then
             DBMS_OUTPUT.PUT_LINE('Designerii s-au descurcat si au terminat cu ' ||
v_diferenta || ' zile mai devreme de limita in rezolvarea problemei: ' || v_problema );
                v_total := v_total + v_diferenta;
          else
             DBMS_OUTPUT.PUT_LINE('Designerii s-au descurcat si au terminat exact la timp
in rezolvarea problemei: ' || v_problema );
          end if;
       end loop;
          select count(*) into v_nr_elemente
          from defect_dsi where id_rezolvat = 1;
          v_medie := v_total / v_nr_elemente;
          DBMS_OUTPUT.PUT_LINE('Media eficientei designerilor este ' || v_medie);
       close c;
END;
/

begin
   p2;
end;
/
```

```
CREATE OR REPLACE PROCEDURE p2
AS
    CURSOR c IS
        (SELECT distinct problema, termen_limita, data_rezolvare
         from defect_dsi d, asigneaza_dsi a
         where d.id_defect = a.id_defect and id_rezolvat = 1
        );
        v_problema defect_dsi.problema%TYPE;
        v_termen_limita asigneaza_dsi.termen_limita%TYPE;
        v_data_rezolvare defect_dsi.data_rezolvare%TYPE;
        v_diferenta NUMBER;
        v_medie NUMBER := null;
```

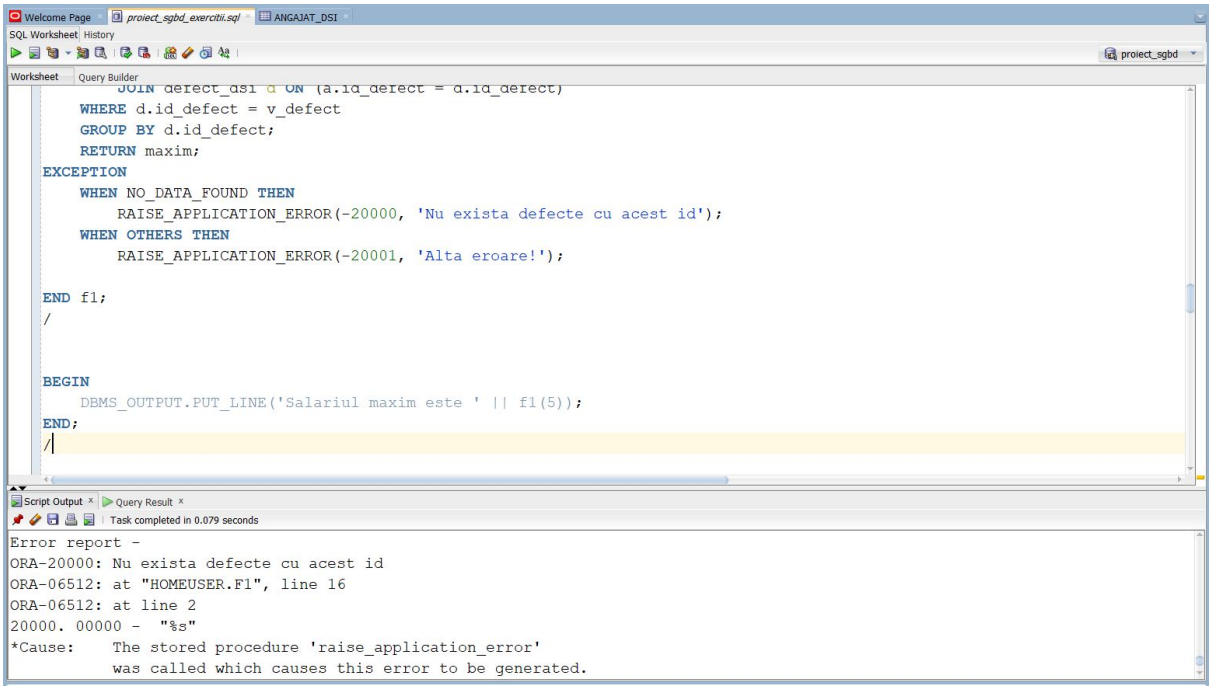
```
PL/SQL procedure successfully completed.


Procedure P2 compiled

Designerii nu s-au descurcat si au intarziat cu 9 zile in rezolvarea problemei: material deteriorat
Designerii s-au descurcat si au terminat exact la timp in rezolvarea problemei: paiete lipsa
Media eficientei designerilor este -4.5


PL/SQL procedure successfully completed.
```

3. Sa se defineasca un subprogram stocat de tip functie care sa afiseze cel mai mare salariu al unui designer care a lucrat la rezolvarea unui defect dat.

```
CREATE OR REPLACE FUNCTION f1
   (v_defect defect_dsi.id_defect%TYPE)
RETURN NUMBER
IS
maxim NUMBER;
BEGIN
   SELECT MAX(salariu) INTO maxim
   FROM angajat_dsi an
      JOIN asigneaza_dsi a ON (an.id_angajat = a.id_designer)
      JOIN defect_dsi d ON (a.id_defect = d.id_defect)
   WHERE d.id_defect = v_defect
   GROUP BY d.id_defect;
   RETURN maxim;
EXCEPTION
   WHEN NO_DATA_FOUND THEN
      RAISE_APPLICATION_ERROR(-20000, 'Nu exista defecte cu acest id');
   WHEN OTHERS THEN
      RAISE_APPLICATION_ERROR(-20001, 'Alta eroare!');

END f1;
/

BEGIN
   DBMS_OUTPUT.PUT_LINE('Salariul maxim este ' || f1(3));
END;
/
```



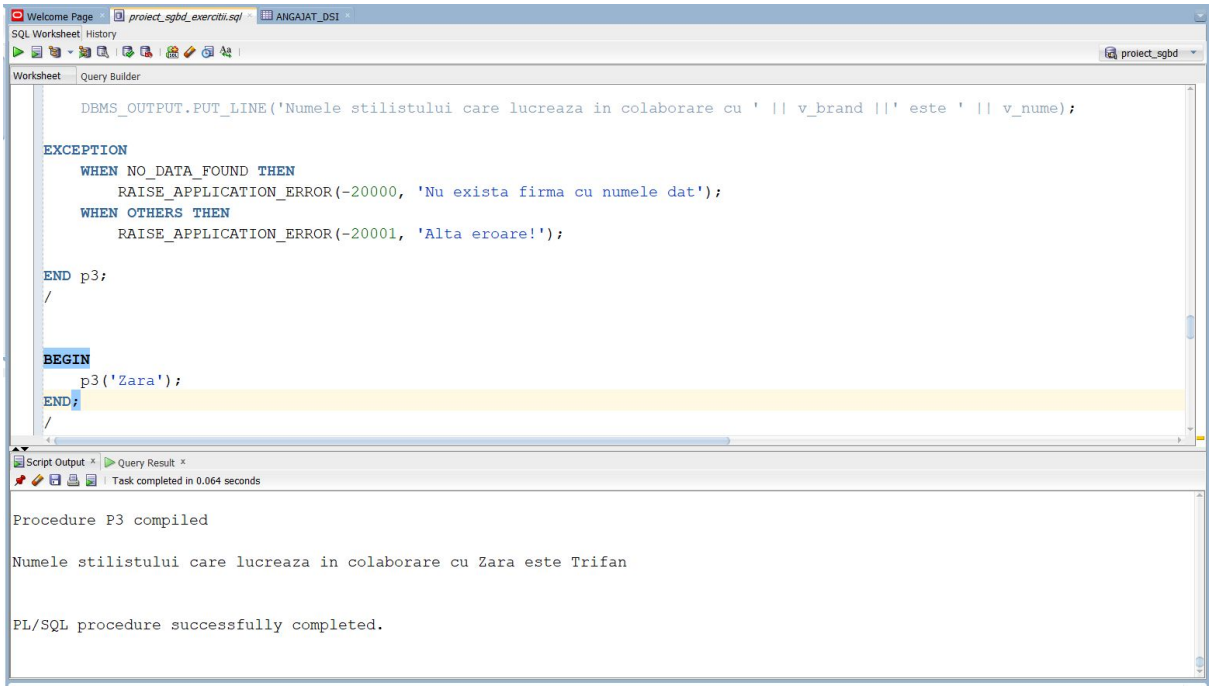
--cazul in care este dat un defect care nu exista in baza de date



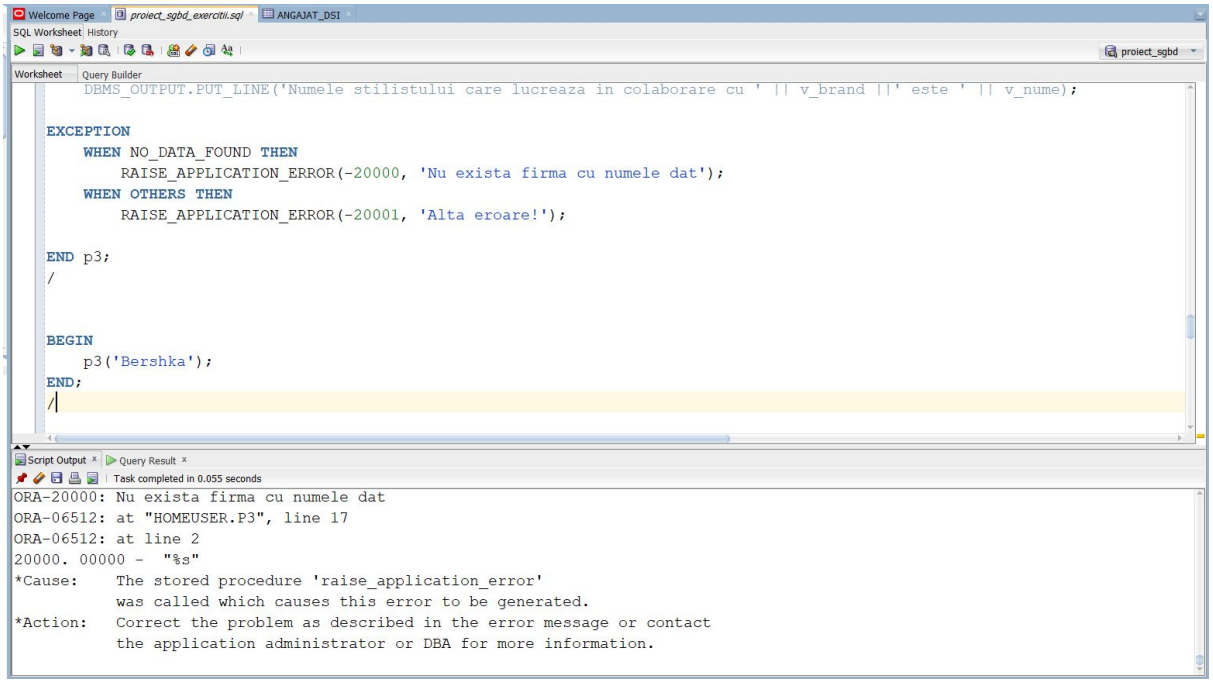
4. Sa se afiseze numele stilistului care a lucrat in colaborare cu o companie data.

```
CREATE OR REPLACE PROCEDURE p3
   (v_brand colaborator_dsi.brand%TYPE)
IS
   v_nume angajat_dsi.nume%TYPE;
BEGIN
```

```
   SELECT nume INTO v_nume
   FROM angajat_dsi a JOIN defect_dsi d ON (a.id_angajat = d.id_stylist)
                      JOIN piesa_dsi p ON (p.id_piesa = d.id_piesa)
                      JOIN colaborare_dsi c ON (p.id_colaborare = c.id_colaborare)
                      JOIN colaborator_dsi co ON (c.id_colaborator = co.id_colaborator)
   WHERE co.brand = v_brand;

   DBMS_OUTPUT.PUT_LINE('Numele stilistului care lucreaza in colaborare cu ' || v_brand
||' este ' || v_nume);

EXCEPTION
   WHEN NO_DATA_FOUND THEN
      RAISE_APPLICATION_ERROR(-20000, 'Nu exista firma cu numele dat');
   WHEN OTHERS THEN
      RAISE_APPLICATION_ERROR(-20001, 'Alta eroare!');

END p3;
/


BEGIN
   p3('Zara');
END;
/
```

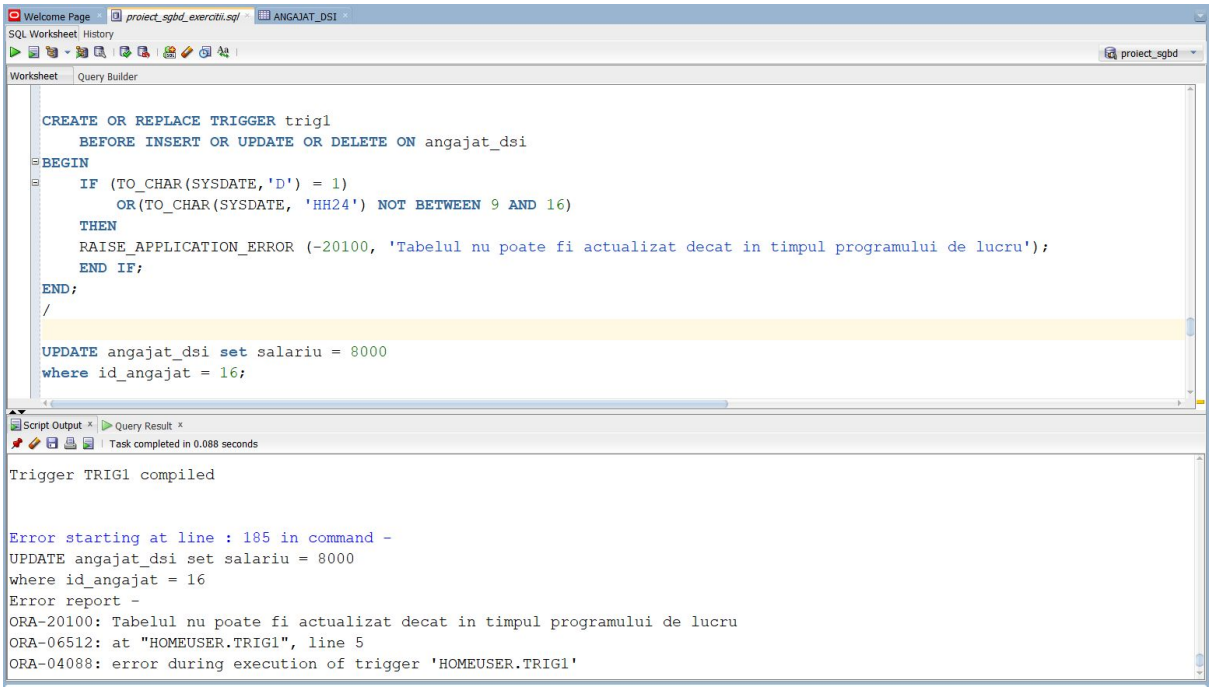


-- cazul in care este dat ca parametru numele unei firme care nu exista in baza de date



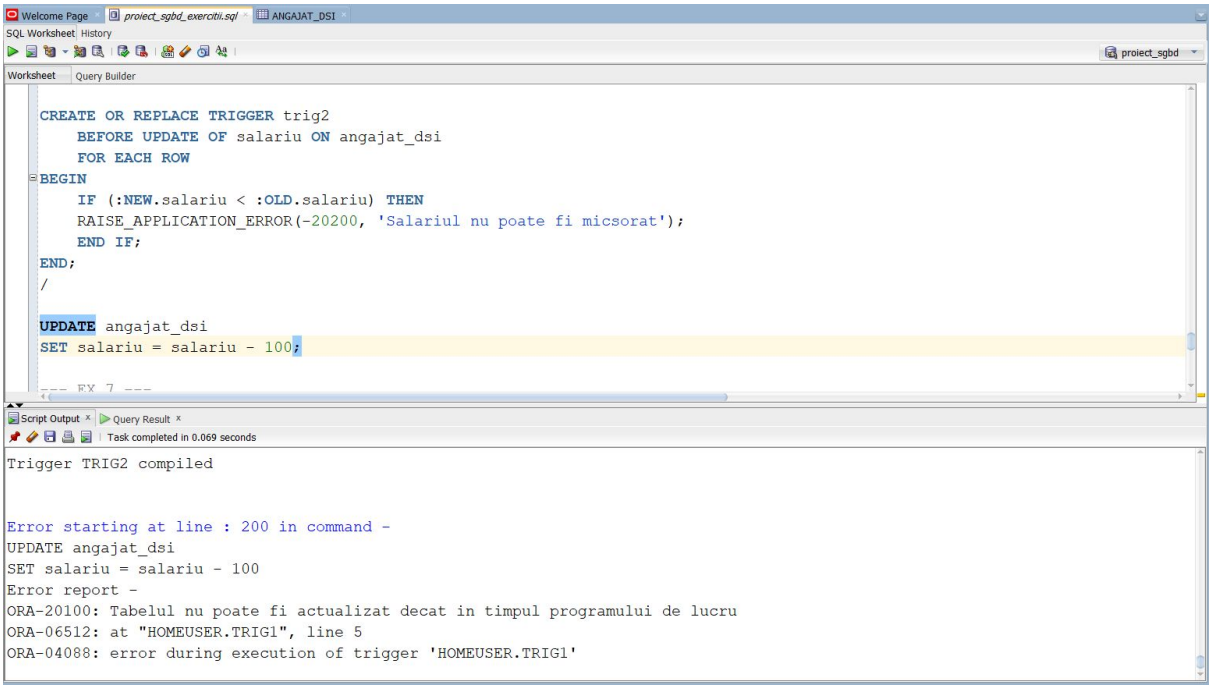
5. Definiti un trigger care sa permita lucrul asupra tabelului angajat_dsi (INSERT, UPDATE, DELETE) doar in intervalul de ora 9:00 - 16:00, de luni pana sambata.

```
CREATE OR REPLACE TRIGGER trig1
   BEFORE INSERT OR UPDATE OR DELETE ON angajat_dsi
BEGIN
   IF (TO_CHAR(SYSDATE,'D') = 1)
      OR(TO_CHAR(SYSDATE, 'HH24') NOT BETWEEN 9 AND 16)
   THEN
   RAISE_APPLICATION_ERROR (-20100, 'Tabelul nu poate fi actualizat decat in timpul
programului de lucru');
   END IF;
END;
/

UPDATE angajat_dsi set salariu = 8000
where id_angajat = 16;
```



6. Definiti un trigger prin care sa nu se permita micsorarea salariilor angajatilor.

```
CREATE OR REPLACE TRIGGER trig2
   BEFORE UPDATE OF salariu ON angajat_dsi
   FOR EACH ROW
BEGIN
   IF (:NEW.salariu < :OLD.salariu) THEN
   RAISE_APPLICATION_ERROR(-20200, 'Salariul nu poate fi micsorat');
   END IF;
END;
/

UPDATE angajat_dsi
SET salariu = salariu - 100;
```

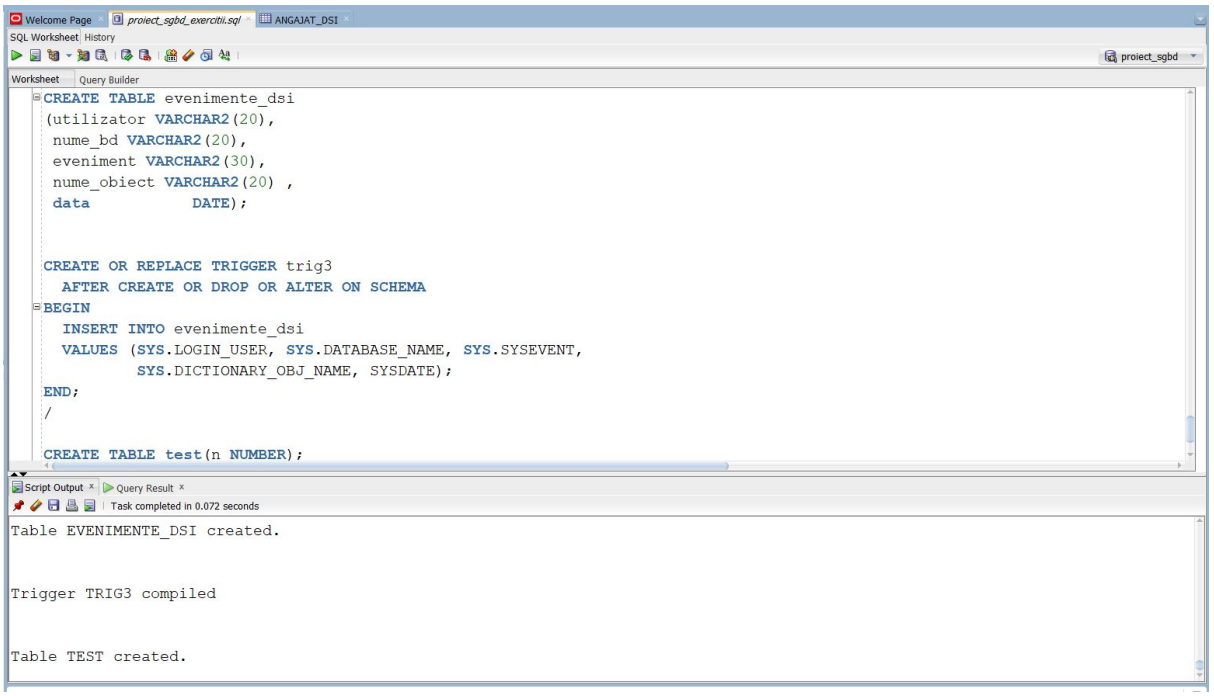


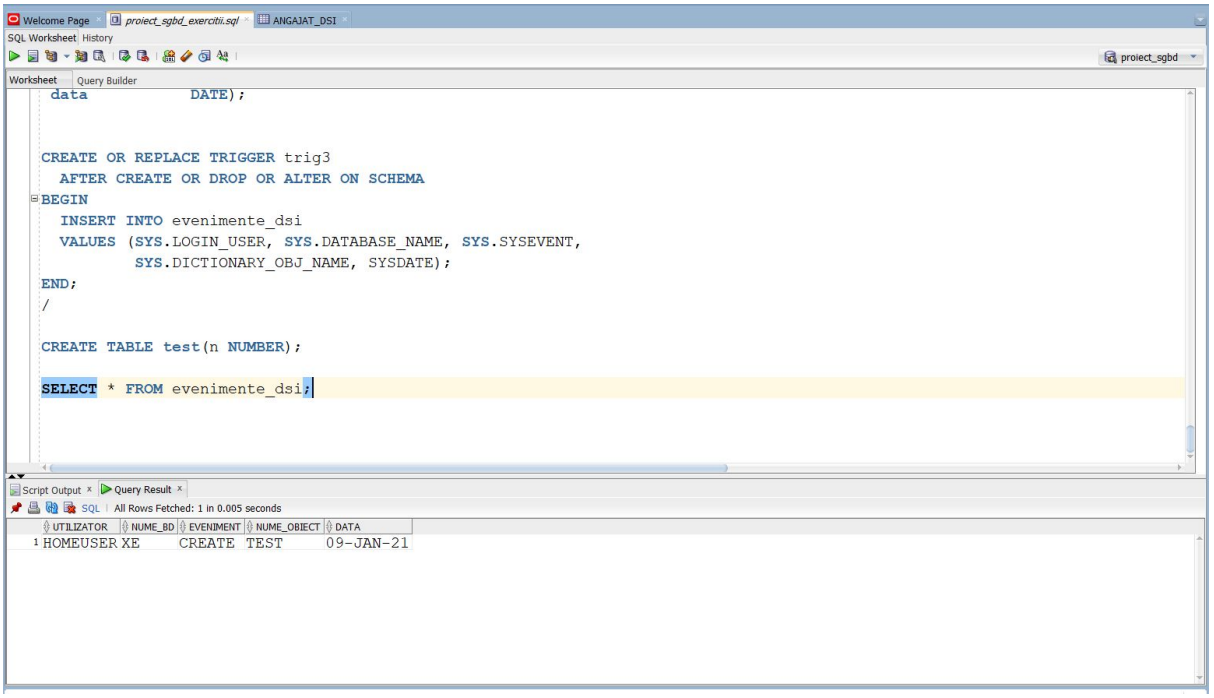
7. Creati un tabel care sa contina campurile
   - utilizator
   - nume_bd
   - eveniment
   - nume_obiect
   - data

Si definiti un trigger care sa introduca date in acest tabel dupa ce utilizatorul a folosit o comanda LDD.

```
CREATE TABLE evenimente_dsi
(utilizator VARCHAR2(20),
 nume_bd VARCHAR2(20),
 eveniment VARCHAR2(30),
 nume_obiect VARCHAR2(20) ,
 data          DATE);


CREATE OR REPLACE TRIGGER trig3
  AFTER CREATE OR DROP OR ALTER ON SCHEMA
BEGIN
  INSERT INTO evenimente_dsi
  VALUES (SYS.LOGIN_USER, SYS.DATABASE_NAME, SYS.SYSEVENT,
          SYS.DICTIONARY_OBJ_NAME, SYSDATE);
END;
/

CREATE TABLE test(n NUMBER);
```

```
SELECT * FROM evenimente_dsi;
```



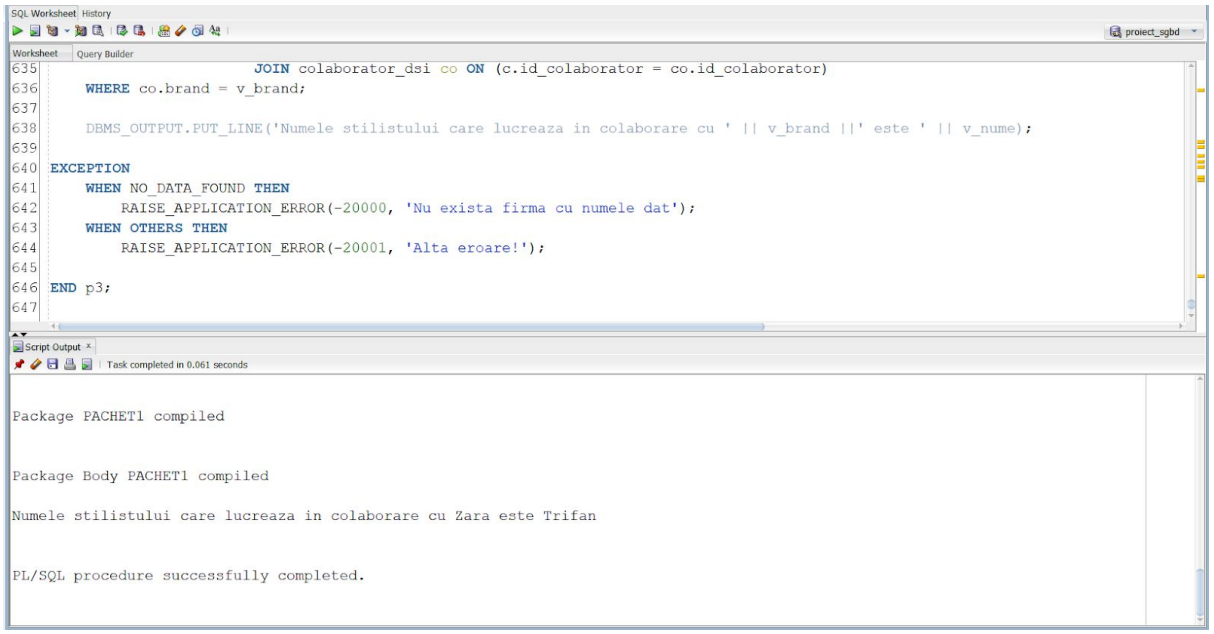


8. Definiti un pachet care sa contina toate obiectele definite in cadrul proiectului.

```
CREATE OR REPLACE PACKAGE pachet1 AS
   PROCEDURE salariile(V_ANGAJATI angajati_ids);
   PROCEDURE p2;
   FUNCTION f1 (v_defect defect_dsi.id_defect%TYPE)
      RETURN NUMBER;
   PROCEDURE p3 (v_brand colaborator_dsi.brand%TYPE);

END pachet1;
/



CREATE OR REPLACE PACKAGE BODY pachet1 AS
   FUNCTION f1
   (v_defect defect_dsi.id_defect%TYPE)
RETURN NUMBER
IS
maxim NUMBER;
BEGIN
   SELECT MAX(salariu) INTO maxim
   FROM angajat_dsi an
      JOIN asigneaza_dsi a ON (an.id_angajat = a.id_designer)
      JOIN defect_dsi d ON (a.id_defect = d.id_defect)
   WHERE d.id_defect = v_defect
   GROUP BY d.id_defect;
   RETURN maxim;
EXCEPTION
   WHEN NO_DATA_FOUND THEN
      RAISE_APPLICATION_ERROR(-20000, 'Nu exista defecte cu acest id');
   WHEN OTHERS THEN
      RAISE_APPLICATION_ERROR(-20001, 'Alta eroare!');

END f1;

    PROCEDURE salariile(V_ANGAJATI angajati_ids)
AS
   TYPE SALARII IS TABLE OF NUMBER;
   V_SALARII SALARII := SALARII();
   J NUMBER :=1;
   V_TOTAL NUMBER :=0;
BEGIN
   FOR I IN V_ANGAJATI.FIRST..V_ANGAJATI.LAST LOOP
   V_SALARII.EXTEND(1);
```

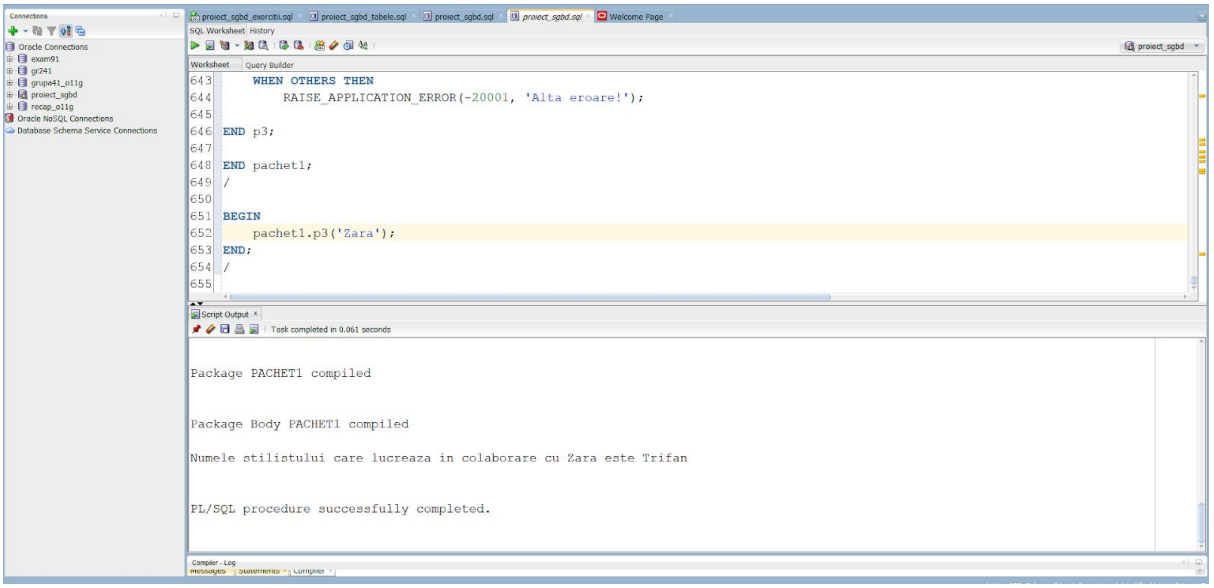
```
    SELECT SALARIU
    INTO V_SALARII(J)
    FROM ANGAJAT_DSI
    WHERE ID_ANGAJAT = V_ANGAJATI(I);

    V_TOTAL := V_TOTAL + V_SALARII(J);
    J := J+1;
    END LOOP;
    FOR I IN V_SALARII.FIRST..V_SALARII.LAST LOOP
        DBMS_OUTPUT.PUT_LINE('Angajatul cu id-ul ' || V_ANGAJATI(I) || ' are salariul ' ||
V_SALARII(I) || ' care reprezinta' || 100*V_SALARII(I)/V_TOTAL || '% din totalul salariilor
angajatilor dati' );
    END LOOP;

END salariile;

PROCEDURE p2
AS
    CURSOR c IS
        (SELECT distinct problema, termen_limita, data_rezolvare
         from defect_dsi d, asigneaza_dsi a
         where d.id_defect = a.id_defect and id_rezolvat = 1
        );
        v_problema defect_dsi.problema%TYPE;
        v_termen_limita asigneaza_dsi.termen_limita%TYPE;
        v_data_rezolvare defect_dsi.data_rezolvare%TYPE;
        v_diferenta NUMBER;
        v_medie NUMBER := null;
        v_total NUMBER := 0;
        v_nr_elemente NUMBER :=0;
    BEGIN
        OPEN c;
        loop
            fetch c into v_problema, v_termen_limita, v_data_rezolvare;
            exit when c%notfound;
            v_diferenta := v_data_rezolvare - v_termen_limita;
            if v_data_rezolvare > v_termen_limita then
                DBMS_OUTPUT.PUT_LINE('Designerii nu s-au descurcat si au intarziat cu ' ||
v_diferenta || ' zile in rezolvarea problemei: ' || v_problema );
                    v_total := v_total - v_diferenta;
            elsif v_diferenta > 0 then
                DBMS_OUTPUT.PUT_LINE('Designerii s-au descurcat si au terminat cu ' ||
v_diferenta || ' zile mai devreme de limita in rezolvarea problemei: ' || v_problema );
                    v_total := v_total + v_diferenta;
            else
                DBMS_OUTPUT.PUT_LINE('Designerii s-au descurcat si au terminat exact la timp
in rezolvarea problemei: ' || v_problema );
            end if;
```

```
      end loop;
         select count(*) into v_nr_elemente
         from defect_dsi where id_rezolvat = 1;
         v_medie := v_total / v_nr_elemente;
         DBMS_OUTPUT.PUT_LINE('Media eficientei designerilor este ' || v_medie);
      close c;
END p2;

PROCEDURE p3
   (v_brand colaborator_dsi.brand%TYPE)
IS
   v_nume angajat_dsi.nume%TYPE;
BEGIN
   SELECT nume INTO v_nume
   FROM angajat_dsi a JOIN defect_dsi d ON (a.id_angajat = d.id_stylist)
                  JOIN piesa_dsi p ON (p.id_piesa = d.id_piesa)
                  JOIN colaborare_dsi c ON (p.id_colaborare = c.id_colaborare)
                  JOIN colaborator_dsi co ON (c.id_colaborator = co.id_colaborator)
   WHERE co.brand = v_brand;

   DBMS_OUTPUT.PUT_LINE('Numele stilistului care lucreaza in colaborare cu ' || v_brand
||' este ' || v_nume);

EXCEPTION
   WHEN NO_DATA_FOUND THEN
      RAISE_APPLICATION_ERROR(-20000, 'Nu exista firma cu numele dat');
   WHEN OTHERS THEN
      RAISE_APPLICATION_ERROR(-20001, 'Alta eroare!');

END p3;

END pachet1;
/

BEGIN
   pachet1.p3('Zara');
END;
/
```



```
                        JOIN colaborator_dsi co ON (c.id_colaborator = co.id_colaborator)
    WHERE co.brand = v_brand;

    DBMS_OUTPUT.PUT_LINE('Numele stilistului care lucreaza in colaborare cu ' || v_brand ||' este ' || v_nume);

EXCEPTION
    WHEN NO_DATA_FOUND THEN
        RAISE_APPLICATION_ERROR(-20000, 'Nu exista firma cu numele dat');
    WHEN OTHERS THEN
        RAISE_APPLICATION_ERROR(-20001, 'Alta eroare!');

END p3;
```

```
Package PACHET1 compiled


Package Body PACHET1 compiled

Numele stilistului care lucreaza in colaborare cu Zara este Trifan


PL/SQL procedure successfully completed.
```



```
    WHEN OTHERS THEN
        RAISE_APPLICATION_ERROR(-20001, 'Alta eroare!');

END p3;

END pachet1;
/

BEGIN
    pachet1.p3('Zara');
END;
/
```

```
Package PACHET1 compiled


Package Body PACHET1 compiled

Numele stilistului care lucreaza in colaborare cu Zara este Trifan


PL/SQL procedure successfully completed.
```