Gestionarea bazei de date a brandului Oysho

Sisteme de gestiune a bazelor de date

Aldea Alexia Elena

Grupa 244

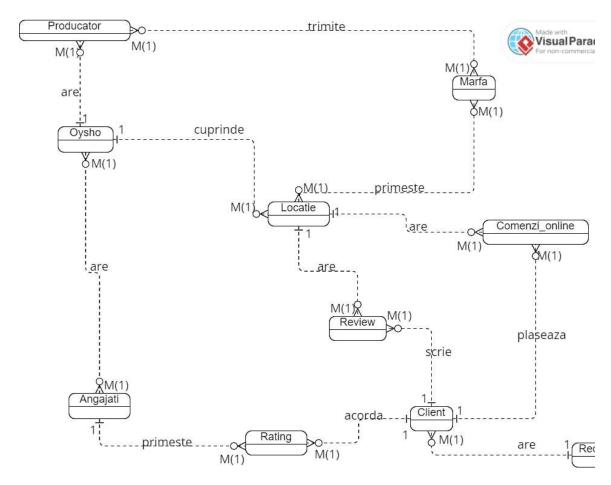
1. Prezentați pe scurt baza de date (utilitatea ei).

In acest proiect voi realiza baza de date a lantului de magazine Oysho. In primul rand, acesta are unul sau mai multi producatori, ce ii livreaza haine. Desigur, unele haine pot veni cu un defect din fabricatie la marfa, urmand ca acestea sa fie trimise inapoi la producator de catre magazine.

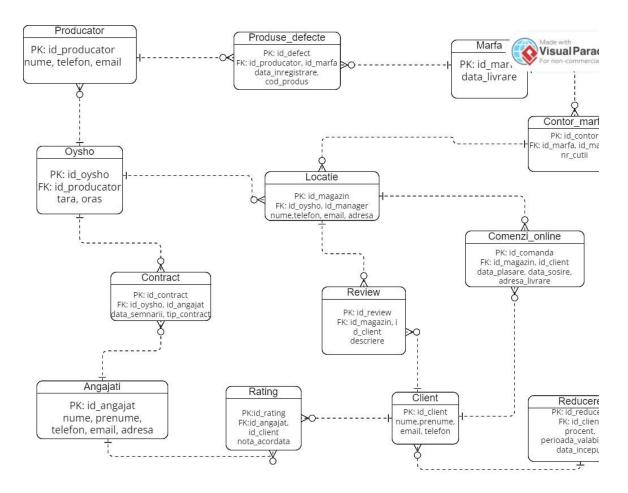
Brandul Oysho are unul sau mai multe contracte cu mai multi angajati. Pentru fiecare angajat vom retine cateva date de baza despre el, iar in contract, la fel. Un angajat lucreaza la un singur mall, dintr-o singura locatie. Brandul Oysho are magazine in diferite locuri ale lumii, in mai multe mall-uri din orase. Fiecare magazin primeste marfa, printr-un contor, care ii spune cate cutii se vor livra in ziua X. De asemenea, un magazin Oysho poate primi si comenzi online, de care trebuie sa se ocupe (sa le impacheteze).

Clientii care viziteaza un magazin Oysho, ii pot lasa un review, iar angajatilor, o nota, pentru a-i ajuta pe viitorii clienti sa isi creeze o parere despre experienta din fiecare magazin Oysho si pentru a-l vizita pec el potrivit pentru ei. De asemenea, un client poate avea si o reducere, incepand cu o anumita data si cu o perioada de X ani (decisa de Oysho, in functie de cat de multe cumparaturi face la acest brand).

2. Realizați diagrama entitate-relație(ERD).



3. Pornind de la diagrama entitate-relație realizați diagrama conceptuală a modelului propus, integrând toate atributele necesare.



4. Implementați în Oracle diagrama conceptuală realizată: definiți toate tabelele, implementând toate constrângerile de integritate necesare (chei primare, cheile externe etc).

CREATE TABLE PRODUCATOR (id_producator NUMBER(5) CONSTRAINT pk_producator PRIMARY KEY,

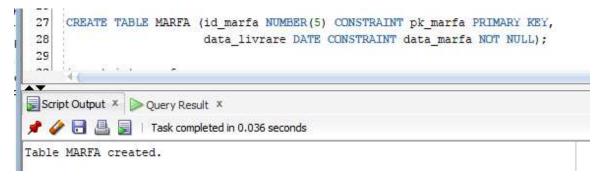
nume VARCHAR(20) CONSTRAINT nume_producator NOT NULL,

telefon VARCHAR(15) CONSTRAINT telefon_producator NOT NULL,

email VARCHAR(20) CONSTRAINT email producator NOT NULL);

CREATE TABLE MARFA (id_marfa NUMBER(5) CONSTRAINT pk_marfa PRIMARY KEY,

data_livrare DATE CONSTRAINT data_marfa NOT NULL);



CREATE TABLE PRODUSE_DEFECTE(id_defect NUMBER(5) CONSTRAINT pk_prod_defect PRIMARY KEY,

data_inregistrare DATE CONSTRAINT data_prod_defect NOT NULL, cod_produs NUMBER(15) CONSTRAINT cod_prod_defect NOT NULL, id_producator NUMBER(5),

 ${\tt CONSTRAINT~fk_prod_def~FOREIGN~KEY~(id_producator)~REFERENCES~PRODUCATOR~(id_producator),}$

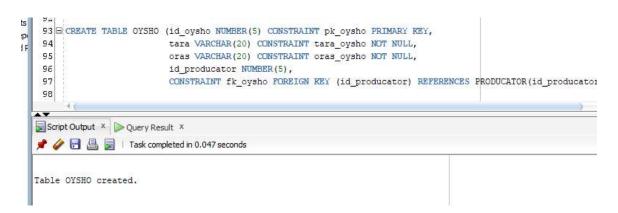
id_marfa NUMBER(5), CONSTRAINT fk_prod_deff FOREIGN KEY(id_marfa) REFERENCES
MARFA(id_marfa));

```
50 CREATE TABLE PRODUSE_DEFECTE (id_defect NUMBER (5) CONSTRAINT pk_prod_defect PRIMARY KEY,
rts
                                       data_inregistrare DATE CONSTRAINT data_prod_defect NOT NULL,
    51
ep
     52
                                       cod_produs NUMBER(15) CONSTRAINT cod_prod_defect NOT NULL,
d F
    53
                                       id producator NUMBER(5),
    54
                                       CONSTRAINT fk prod_def FOREIGN KEY (id_producator) REFERENCES PRODUCATOR (i
    55
                                       id marfa NUMBER(5),
    56
                                       CONSTRAINT fk_prod_deff FOREIGN KEY(id_marfa) REFERENCES MARFA(id_marfa));
    57
   Script Output X Query Result X
   📌 🥢 🔡 🖺 📗 | Task completed in 0.111 seconds
   Table PRODUSE DEFECTE created.
```

CREATE TABLE OYSHO (id_oysho NUMBER(5) CONSTRAINT pk_oysho PRIMARY KEY,

tara VARCHAR(20) CONSTRAINT tara_oysho NOT NULL, oras VARCHAR(20) CONSTRAINT oras_oysho NOT NULL,

id_producator NUMBER(5), CONSTRAINT fk_oysho FOREIGN KEY (id_producator) REFERENCES
PRODUCATOR(id_producator));



CREATE TABLE ANGAJATI(id_angajat NUMBER(5) CONSTRAINT pk_angajat PRIMARY KEY,

nume_angajat VARCHAR(50) CONSTRAINT nume_angajat NOT NULL, prenume_angajat VARCHAR(50) CONSTRAINT prenume_angajat NOT NULL, telefon_angajat VARCHAR(50) CONSTRAINT telefon_angajat NOT NULL, email_angajat VARCHAR(50) CONSTRAINT email_angajat NOT NULL, adresa_angajat VARCHAR(50) CONSTRAINT adresa_angajat NOT NULL);

```
120 CREATE TABLE ANGAJATI (id angajat NUMBER (5) CONSTRAINT pk angajat PRIMARY KEY,
                            nume_angajat VARCHAR(50) CONSTRAINT nume_angajat NOT NULL,
121
                            prenume_angajat VARCHAR(50) CONSTRAINT prenume_angajat NOT NULL,
122
                            telefon_angajat VARCHAR(50) CONSTRAINT telefon_angajat NOT NULL,
123
                            email_angajat VARCHAR(50) CONSTRAINT email_angajat NOT NULL,
124
125
                            adresa_angajat VARCHAR(50) CONSTRAINT adresa_angajat NOT NULL);
126
127
Script Output × DQuery Result ×
📌 🥜 🔡 🗸 📝 | Task completed in 0.241 seconds
Commit complete.
Table ANGAJATI created.
```

CREATE TABLE LOCATIE (id magazin NUMBER(5) CONSTRAINT pk locatie PRIMARY KEY,

nume_magazin VARCHAR(20) CONSTRAINT nume_locatie NOT NULL,
telefon VARCHAR(20) CONSTRAINT telefon_magazin NOT NULL,
email VARCHAR(50) CONSTRAINT email_magazin NOT NULL,
adresa VARCHAR(100) CONSTRAINT adresa_magazin NOT NULL,

id_oysho NUMBER(5), CONSTRAINT fk_magazin FOREIGN KEY (id_oysho) REFERENCES OYSHO (id_oysho),

id_manager NUMBER(5), CONSTRAINT fk_magg FOREIGN KEY (id_manager) REFERENCES
ANGAJATI(id_angajat));

```
150
129 CREATE TABLE LOCATIE (id_magazin NUMBER(5) CONSTRAINT pk_locatie PRIMARY KEY,
                            nume_magazin VARCHAR(20) CONSTRAINT nume_locatie NOT NULL,
130
                            telefon VARCHAR(20) CONSTRAINT telefon_magazin NOT NULL,
131
                            email VARCHAR(50) CONSTRAINT email_magazin NOT NULL,
132
133
                            adresa VARCHAR(100) CONSTRAINT adresa magazin NOT NULL,
134
                            id oysho NUMBER (5),
                            CONSTRAINT fk magazin FOREIGN KEY (id oysho) REFERENCES OYSHO (id oysho),
135
136
                            id manager NUMBER(5),
                            CONSTRAINT fk_magg FOREIGN KEY (id_manager) REFERENCES ANGAJATI(id_angajat
137
138
Script Output X De Query Result X
📌 🧽 🔡 🖺 🔋 | Task completed in 0.047 seconds
Table LOCATIE created.
```

CREATE TABLE CONTRACT (id_contract NUMBER(5) CONSTRAINT pk_contr PRIMARY KEY,

data semnarii DATE CONSTRAINT data contract NOT NULL,

tip_contract VARCHAR(20) CONSTRAINT tip_contract NOT NULL,

id_oysho NUMBER(5), CONSTRAINT fk_contr_oysho FOREIGN KEY (id_oysho) REFERENCES OYSHO(id_oysho),

id_angajat NUMBER(5), CONSTRAINT fk_contr_angajat FOREIGN KEY(id_angajat)
REFERENCES ANGAJATI(id_angajat));

```
178 CREATE TABLE CONTRACT (id_contract NUMBER(5) CONSTRAINT pk_contr PRIMARY KEY,
 179
                              data semnarii DATE CONSTRAINT data contract NOT NULL,
 180
                              tip_contract VARCHAR(20) CONSTRAINT tip_contract NOT NULL,
 181
                               id oysho NUMBER (5),
 182
                              CONSTRAINT fk_contr_oysho FOREIGN KEY (id_oysho) REFERENCES OYSHO(id_oysho),
 183
                               id_angajat NUMBER(5),
                              CONSTRAINT fk contr angajat FOREIGN KEY (id angajat) REFERENCES ANGAJATI (id angaj
 184
 185
 Script Output X
 🎤 🥜 📳 🚇 📓 | Task completed in 0.162 seconds
 *Action: Specify a unique constraint name for the constraint.
 Table CONTRACT created.
```

CREATE TABLE CONTOR_MARFA(id_contor NUMBER(5) CONSTRAINT pk_contor PRIMARY KEY,

nr_cutii NUMBER(5) CONSTRAINT cutii_contor NOT NULL,

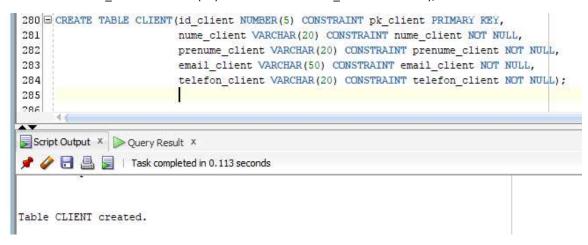
id_marfa NUMBER(5), CONSTRAINT fk_contor FOREIGN KEY (id_marfa) REFERENCES MARFA (id_marfa),

id_magazin NUMBER(5), CONSTRAINT fk_contorr FOREIGN KEY (id_magazin) REFERENCES
LOCATIE(id_magazin));

```
238 CREATE TABLE CONTOR_MARFA(id_contor NUMBER(5) CONSTRAINT pk_contor PRIMARY KEY,
                                nr cutii NUMBER (5) CONSTRAINT cutii contor NOT NULL,
239
240
                                id_marfa NUMBER(5),
                                CONSTRAINT fk_contor FOREIGN KEY (id_marfa) REFERENCES MARFA (id_marfa),
241
242
                                id magazin NUMBER(5),
                                CONSTRAINT fk contorr FOREIGN KEY (id magazin) REFERENCES LOCATIE (id magazin
243
244
245
Script Output X Duery Result X
📌 🥟 🔡 🖺 📘 | Task completed in 0.963 seconds
Commit complete.
Table CONTOR_MARFA created.
```

CREATE TABLE CLIENT(id client NUMBER(5) CONSTRAINT pk client PRIMARY KEY,

nume_client VARCHAR(20) CONSTRAINT nume_client NOT NULL,
prenume_client VARCHAR(20) CONSTRAINT prenume_client NOT NULL,
email_client VARCHAR(50) CONSTRAINT email_client NOT NULL,
telefon_client VARCHAR(20) CONSTRAINT telefon_client NOT NULL);



CREATE TABLE COMENZI_ONLINE(id_comanda NUMBER(5) CONSTRAINT pk_comanda PRIMARY KEY,

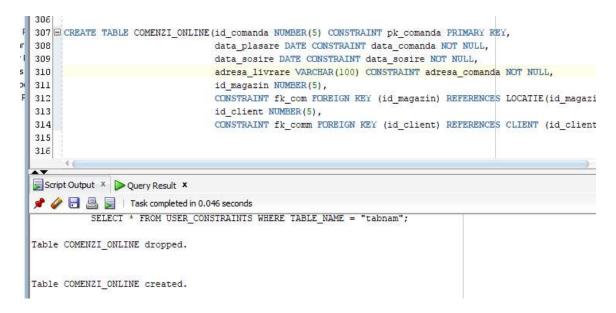
data_plasare DATE CONSTRAINT data_comanda NOT NULL,

data_sosire DATE CONSTRAINT data_sosire NOT NULL,

adresa_livrare VARCHAR(100) CONSTRAINT adresa_comanda NOT NULL,

id_magazin NUMBER(5), fk_com FOREIGN KEY (id_magazin) REFERENCES LOCATIE(id_magazin),

id_client NUMBER(5), CONSTRAINT fk_comm FOREIGN KEY (id_client) REFERENCES CLIENT
(id_client));

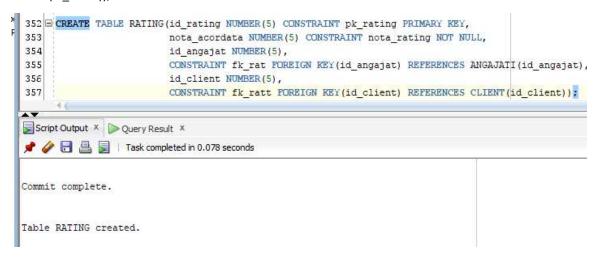


CREATE TABLE RATING(id rating NUMBER(5) CONSTRAINT pk rating PRIMARY KEY,

nota_acordata NUMBER(5) CONSTRAINT nota_rating NOT NULL,

id_angajat NUMBER(5), CONSTRAINT fk_rat FOREIGN KEY(id_angajat) REFERENCES ANGAJATI(id_angajat),

id_client NUMBER(5), CONSTRAINT fk_ratt FOREIGN KEY(id_client) REFERENCES
CLIENT(id_client));

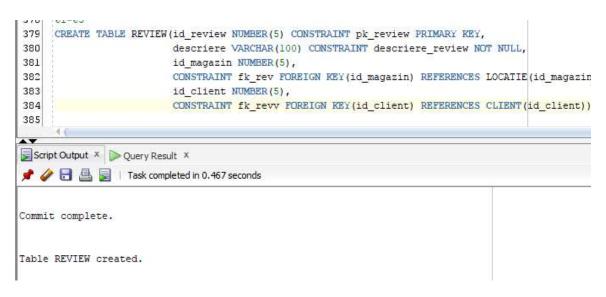


CREATE TABLE REVIEW(id review NUMBER(5) CONSTRAINT pk review PRIMARY KEY,

descriere VARCHAR(100) CONSTRAINT descriere review NOT NULL,

 $id_magazin \ NUMBER(5), CONSTRAINT \ fk_rev \ FOREIGN \ KEY(id_magazin) \ REFERENCES \ LOCATIE(id_magazin),$

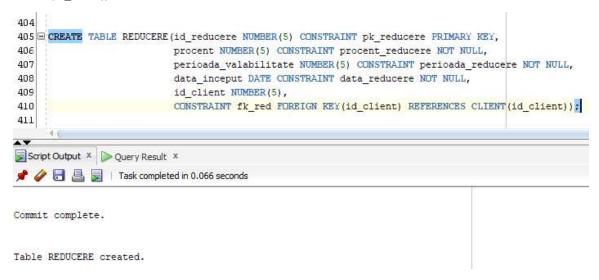
id_client NUMBER(5), CONSTRAINT fk_revv FOREIGN KEY(id_client) REFERENCES
CLIENT(id_client));



CREATE TABLE REDUCERE(id_reducere NUMBER(5) CONSTRAINT pk_reducere PRIMARY KEY,

procent NUMBER(5) CONSTRAINT procent_reducere NOT NULL,
perioada_valabilitate NUMBER(5) CONSTRAINT perioada_reducere NOT NULL,
data inceput DATE CONSTRAINT data reducere NOT NULL,

id_client NUMBER(5), CONSTRAINT fk_red FOREIGN KEY(id_client) REFERENCES
CLIENT(id_client));



5. Adăugați informații coerente în tabelele create (minim 5 înregistrări pentru fiecare entitate independentă; minim 10 înregistrări pentru tabela asociativă).

insert into producator values (1, 'BrandMarck', '0345678322', 'contact@gmail.com');

insert into producator values (2, 'ClothesForEveryone', '0789345655', 'clothes 1@gmail.com'); insert into producator values (3, 'MadeInMorocco', '0345687732', 'callus@yahoo.com'); insert into producator values (4, 'HommyTilfinger', '034544377', 'hommy_t@gmail.com'); insert into producator values (5, 'BugoHoss', '0456788124', 'bugo12@gmail.com'); insert into producator 6 7 values (1, 'BrandMarck', '0345678322', 'contact@gmail.com'); 8 9 insert into producator values (2, 'ClothesForEveryone', '0789345655', 'clothes_1@gmail.com'); 10 11 12 insert into producator values (3, 'MadeInMorocco', '0345687732', 'callus@yahoo.com'); 13 14 15 insert into producator values (4, 'HommyTilfinger', '034544377', 'hommy_t@gmail.com'); 16 17 18 insert into producator 19 values (5, 'BugoHoss', '0456788124', 'bugo12@gmail.com'); 20 21 commit; 22 select* from producator; 23 Script Output × Query Result × 📌 🚇 🙀 🗽 SQL | All Rows Fetched: 5 in 0.002 seconds ↑ TELEFON 1 1 BrandMarck 0345678322 contact@gmail.com 2 2 ClothesForEveryone 0789345655 clothes 1@gmail.com 3 3 MadeInMorocco 0345687732 callus@yahoo.com 4 034544377 hommy t@gmail.com 4 HommyTilfinger 5 5 BugoHoss 0456788124 bugo12@gmail.com

insert into marfa values (6, TO_DATE('15-03-2023','dd-mm-yyyy')); insert into marfa values (7, TO_DATE('1-03-2023', 'dd-mm-yyyy')); insert into marfa values (8, TO_DATE('15-04-2023', 'dd-mm-yyyy')); insert into marfa values (9, TO_DATE('1-04-2023', 'dd-mm-yyyy')); insert into marfa values (10, TO_DATE('1-05-2023','dd-mm-yyyy'));

```
30
     insert into marfa
 31
     values (6, TO DATE('15-03-2023','dd-mm-yyyy'));
 32
     insert into marfa
 33
 34
     values (7, TO DATE('1-03-2023', 'dd-mm-yyyy'));
 35
 36
     insert into marfa
 37
     values (8, TO DATE('15-04-2023', 'dd-mm-yyyy'));
 38
 39
     insert into marfa
     values (9, TO DATE('1-04-2023', 'dd-mm-yyyy'));
 40
 41
 42
     insert into marfa
 43
     values (10, TO DATE('1-05-2023','dd-mm-yyyy'));
 44
 45
     commit;
 46
     select* from marfa;
 47
 48
 ..
Script Output × Query Result ×
📌 📇 谢 🗽 SQL | All Rows Fetched: 5 in 0.007 seconds

⊕ ID_MARFA ⊕ DATA_LIVRARE

    1
               6 15-MAR-23
    2
               7 01-MAR-23
    3
               8 15-APR-23
    4
               9 01-APR-23
    5
              10 01-MAY-23
```

insert into produse_defecte values(11, TO_DATE('15-01-2023','dd-mm-yyyy'), 1234670800, 1,7); insert into produse_defecte values (12, TO_DATE('03-04-2022','dd-mm-yyyy'), 2345674456, 4, 10); insert into produse_defecte values (13, TO_DATE('16-02-2023','dd-mm-yyyy'), 1456239485, 5, 8); insert into produse_defecte values (14, TO_DATE('17-12-2022','dd-mm-yyyy'), 3456233466, 3, 9); insert into produse_defecte values (15, TO_DATE('18-01-2023','dd-mm-yyyy'), 4332456800, 2, 6); insert into produse_defecte values (16, TO_DATE('20-01-2023','dd-mm-yyyy'), 2331441500, 2, 7); insert into produse_defecte values (17, TO_DATE('14-12-2022','dd-mm-yyyy'), 2230450678, 3, 10); insert into produse_defecte values (18, TO_DATE('01-02-2023','dd-mm-yyyy'), 4523900800, 5, 9); insert into produse_defecte values (19, TO_DATE('22-11-2022','dd-mm-yyyy'), 4567890957, 1, 8); insert into produse_defecte values (20, TO_DATE('13-01-2023','dd-mm-yyyy'), 3453230567, 3,9);

```
58
    insert into produse defecte
     values(11, TO DATE('15-01-2023','dd-mm-yyyy'), 1234670800, 1,7);
 59
 60
 61
     insert into produse defecte
 62
     values (12, TO DATE('03-04-2022','dd-mm-yyyy'), 2345674456, 4, 10);
 63
 64
    insert into produse defecte
 65
     values (13, TO DATE('16-02-2023','dd-mm-yyyy'), 1456239485, 5, 8);
 66
 67
     insert into produse defecte
 68
    values (14, TO DATE ('17-12-2022', 'dd-mm-yyyy'), 3456233466, 3, 9);
 69
 70
    insert into produse defecte
    values (15, TO DATE ('18-01-2023', 'dd-mm-yyyy'), 4332456800, 2, 6);
 71
 72
 73
    insert into produse defecte
    values (16, TO DATE ('20-01-2023', 'dd-mm-yyyy'), 2331441500, 2, 7);
 74
 75
 76
    insert into produse_defecte
 77
    values (17, TO DATE('14-12-2022','dd-mm-yyyy'), 2230450678, 3, 10);
 78
 79
    insert into produse defecte
    values (18, TO DATE('01-02-2023','dd-mm-yyyy'), 4523900800, 5, 9);
 80
 81
    insert into produse defecte
 82
 83
    values (19, TO DATE ('22-11-2022', 'dd-mm-yyyy'), 4567890957, 1, 8);
 84
 85 insert into produse defecte
 86
    values (20, TO DATE('13-01-2023','dd-mm-yyyy'), 3453230567, 3,9);
 87
Script Output × Query Result ×
📌 📇 🙀 🗽 SQL | All Rows Fetched: 10 in 0.009 seconds
      1
             11 15-JAN-23
                                   1234670800
                                                                     7
                                                           1
    2
             12 03-APR-22
                                                           4
                                                                    10
                                   2345674456
    3
             13 16-FEB-23
                                   1456239485
                                                           5
                                                                     8
    4
             14 17-DEC-22
                                   3456233466
                                                           3
                                                                     9
    5
                                                           2
             15 18-JAN-23
                                   4332456800
                                                                     6
    6
                                                                     7
             16 20-JAN-23
                                   2331441500
                                                           2
    7
             17 14-DEC-22
                                   2230450678
                                                           3
                                                                    10
    8
                                                           5
             18 01-FEB-23
                                   4523900800
                                                                     9
    9
             19 22-NOV-22
                                   4567890957
                                                                     8
                                                           1
   10
             20 13-JAN-23
                                   3453230567
                                                           3
                                                                     9
```

```
insert into oysho values (21, 'Romania', 'Bucuresti', 1); insert into oysho values (22, 'Spania', 'Madrid', 4); insert into oysho values (23, 'Italia', 'Roma', 5); insert into oysho values (24, 'Franta', 'Paris', 2); insert into oysho values (25, 'Portugalia', 'Lisabona', 3);
```

```
99
      insert into oysho
     values (21, 'Romania', 'Bucuresti', 1);
100
101
102
     insert into oysho
     values (22, 'Spania', 'Madrid', 4);
103
104
105
     insert into oysho
106
     values (23, 'Italia', 'Roma', 5);
107
108
      insert into oysho
     values (24, 'Franta', 'Paris', 2);
109
110
     insert into oysho
111
     values (25, 'Portugalia', 'Lisabona', 3);
112
113
114
      commit;
115
      select* from oysho;
116
Script Output × Query Result ×
📝 📇 🚻 🏂 SQL | All Rows Fetched: 5 in 0.013 seconds

⊕ ID OYSHO |⊕ TARA

                                       ID PRODUCATOR
                             ORAS
    1
              21 Romania
                                                     1
                            Bucuresti
    2
              22 Spania
                            Madrid
                                                     4
    3
              23 Italia
                                                     5
                            Roma
                                                     2
              24 Franta
                            Paris
    5
              25 Portugalia Lisabona
                                                     3
```

insert into angajati values (26, 'Florea', 'Catalin', '0756345786', 'florea@gmail.com', 'Florilor 6'); insert into angajati values (27, 'Adam', 'Antonio', '0746330454', 'andy_ad@gmail.com', 'Tepes Voda 25'); insert into angajati values(28, 'Vulcanescu', 'Mircea', '0745555676', 'mirciulica123@gmail.com', 'Rezervelor 4');

insert into angajati values (29, 'Ceausu', 'Radu', '0789888543', 'radulish@yahoo.com', 'Anton Pann 32'); insert into angajati values (30, 'Craciun', 'Alexandru', '0734565723', 'christmas_alex@gmail.com', 'Mircea

Voievod 67');

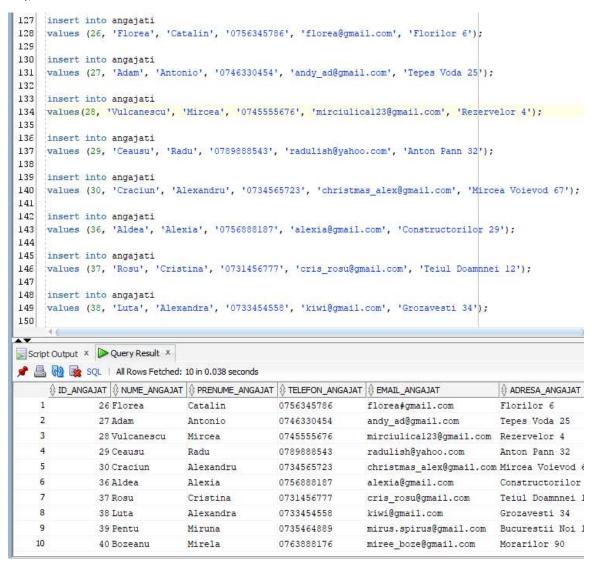
insert into angajati values (36, 'Aldea', 'Alexia', '0756888187', 'alexia@gmail.com', 'Constructorilor 29');

insert into angajati values (37, 'Rosu', 'Cristina', '0731456777', 'cris_rosu@gmail.com', 'Teiul Doamnnei 12');

insert into angajati values (38, 'Luta', 'Alexandra', '0733454558', 'kiwi@gmail.com', 'Grozavesti 34');

insert into angajati values (39, 'Pentu', 'Miruna', '0735464889', 'mirus.spirus@gmail.com', 'Bucurestii Noi 1');

insert into angajati values (40, 'Bozeanu', 'Mirela', '0763888176', 'miree_boze@gmail.com', 'Morarilor 90');



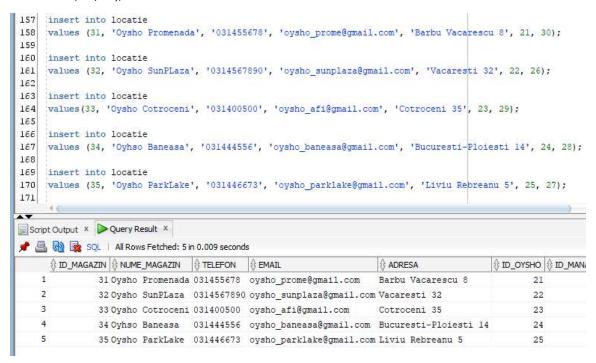
insert into locatie values (31, 'Oysho Promenada', '031455678', 'oysho_prome@gmail.com', 'Barbu Vacarescu 8', 21, 30);

insert into locatie values (32, 'Oysho SunPLaza', '0314567890', 'oysho_sunplaza@gmail.com', 'Vacaresti 32', 22, 26);

insert into locatie values(33, 'Oysho Cotroceni', '031400500', 'oysho_afi@gmail.com', 'Cotroceni 35', 23, 29);

insert into locatie values (34, 'Oyhso Baneasa', '031444556', 'oysho_baneasa@gmail.com', 'Bucuresti-Ploiesti 14', 24, 28);

insert into locatie values (35, 'Oysho ParkLake', '031446673', 'oysho_parklake@gmail.com', 'Liviu Rebreanu 5', 25, 27);



insert into contract values (41, TO_DATE('15-02-2010','dd-mm-yyyy'), 'manager', 21, 27); insert into contract values (42, TO_DATE('6-04-2013','dd-mm-yyyy'), 'manager', 22, 28); insert into contract values (43, TO_DATE('23-11-2015','dd-mm-yyyy'), 'manager', 23, 29); insert into contract values (44, TO_DATE('25-12-2012', 'dd-mm-yyyy'), 'manager', 24, 30); insert into contract values (45, TO_DATE('17-05-2017','dd-mm-yyyy'), 'manager', 25, 26); insert into contract values (46, TO_DATE('24-11-2021','dd-mm-yyyy'), 'angajat', 22, 39); insert into contract values (47, TO_DATE('31-01-2020','dd-mm-yyyy'), 'angajat', 25, 40); insert into contract values (48, TO_DATE('16-10-2021','dd-mm-yyyy'), 'angajat', 24, 36); insert into contract values (49, TO_DATE('25-09-2021','dd-mm-yyyy'), 'angajat', 21, 37); insert into contract values (50, TO_DATE('19-07-2022','dd-mm-yyyy'), 'angajat', 23, 38);

```
201
       insert into contract
   202
        values (41, TO DATE('15-02-2010','dd-mm-yyyy'), 'manager', 21, 27);
   203
   204
       insert into contract
   205
       values (42, TO DATE('6-04-2013','dd-mm-yyyy'), 'manager', 22, 28);
   206
   207
       insert into contract
   208
       values (43, TO DATE('23-11-2015','dd-mm-yyyy'), 'manager', 23, 29);
   209
   210
       insert into contract
       values (44, TO DATE('25-12-2012', 'dd-mm-yyyy'), 'manager', 24, 30);
   211
   212
   213
       insert into contract
   214
       values (45, TO DATE('17-05-2017','dd-mm-yyyy'), 'manager', 25, 26);
   215
   216
       insert into contract
   217
       values (46, TO DATE('24-11-2021','dd-mm-yyyy'), 'angajat', 22, 39);
   218
   219
       insert into contract
   220
       values (47, TO DATE ('31-01-2020', 'dd-mm-yyyy'), 'angajat', 25, 40);
   221
   222
       insert into contract
       values (48, TO DATE('16-10-2021','dd-mm-yyyy'), 'angajat', 24, 36);
   223
   224
   225
       insert into contract
v F
       values (49, TO DATE ('25-09-2021', 'dd-mm-yyyy'), 'angajat', 21, 37);
   226
ar
   227
21
   228
       insert into contract
ts
       values (50, TO DATE('19-07-2022','dd-mm-yyyy'), 'angajat', 23, 38);
   229
epi
F
   Script Output × Query Result ×
   🥟 📇 🙌 🎃 SQL | All Rows Fetched: 10 in 0.015 seconds
        41 15-FEB-10
       1
                                                       21
                                                                   27
                                  manager
       2
                  42 06-APR-13
                                                       22
                                                                   28
                                  manager
                                manager
       3
                  43 23-NOV-15
                                                       23
                                                                   29
                                manager
       4
                  44 25-DEC-12
                                                       24
                                                                   30
       5
                  45 17-MAY-17
                                                                   26
                                                       25
                                 manager
                                                                   39
       6
                  4624-NOV-21 angajat
                                                       22
       7
                  47 31-JAN-20
                                                       25
                                                                   40
                                  angajat
       8
                  48 16-OCT-21
                                                                   36
                                  angajat
                                                       24
       9
                  49 25-SEP-21
                                  angajat
                                                       21
                                                                   37
      10
                  50 19-JUL-22
                                                       23
                                                                   38
                                   angajat
```

insert into contor_marfa values (51, 156, 6, 34);

insert into contor_marfa values (52, 144, 8, 33);

```
insert into contor_marfa values (53, 200, 9, 35); insert into contor_marfa values (54, 45, 10, 31); insert into contor_marfa values (55, 57, 8, 32); insert into contor_marfa values (56, 230, 7, 35); insert into contor_marfa values (57, 400, 6, 33); insert into contor_marfa values (58, 245, 9, 32); insert into contor_marfa values (59, 120, 7, 35); insert into contor_marfa values (60, 89, 9, 34);
```

```
244
245
     insert into contor marfa
246
     values (51, 156, 6, 34);
247
248
     insert into contor marfa
249
     values (52, 144, 8, 33);
250
251
     insert into contor marfa
252
     values (53, 200, 9, 35);
253
254
     insert into contor marfa
255
     values (54, 45, 10, 31);
256
257
     insert into contor marfa
258
     values (55, 57, 8, 32);
259
260
     insert into contor marfa
261
     values (56, 230, 7, 35);
262
263
     insert into contor marfa
     values (57, 400, 6, 33);
264
265
     insert into contor marfa
266
267
     values (58, 245, 9, 32);
268
269
     insert into contor marfa
270
     values (59, 120, 7, 35);
271
Script Output × Query Result ×
📌 🚇 🙀 💁 SQL | All Rows Fetched: 10 in 0.011 seconds
      1
                       156
                                   6
    2
              52
                       144
                                   8
                                              33
              53
                       200
                                   9
                                              35
    4
              54
                        45
                                  10
                                              31
    5
              55
                        57
                                   8
                                              32
                                   7
    6
                                              35
              56
                       230
    7
              57
                       400
                                   6
                                              33
                                   9
                                              32
              58
                       245
    9
                                   7
              59
                       120
                                              35
   10
                                   9
                                              34
              60
                        89
```

insert into client values (61, 'Pirinei', 'Ionut', 'ionut@gmail.com', '0756789900');

insert into client values (62, 'Predeanu', 'Mariana', 'mary12@gmail.com', '0745677899'); insert into client values (63, 'Ciocos', 'Bianca', 'bye_eu@gmail.com', '0765444143'); insert into client values (64, 'Teodoroiu', 'Cristina', 'cris_teo@gmail.com', '0746767888'); insert into client values (65, 'Mircea', 'Carina', 'cary_cary@gmail.com', '0745883464');

```
00
86
    insert into client
    values (61, 'Pirinei', 'Ionut', 'ionut@gmail.com', '0756789900');
87
88
89
    insert into client
    values (62, 'Predeanu', 'Mariana', 'mary12@gmail.com', '0745677899');
90
91
92
    insert into client
93
    values (63, 'Ciocos', 'Bianca', 'bye_eu@gmail.com', '0765444143');
94
95
    insert into client
    values (64, 'Teodoroiu', 'Cristina', 'cris_teo@gmail.com', '0746767888');
96
97
98
    insert into client
    values (65, 'Mircea', 'Carina', 'cary cary@gmail.com', '0745883464');
99
00
01
    commit;
02
    select* from client;
0.3
Script Output × Query Result ×
🏲 📇 🙀 🗽 SQL | All Rows Fetched: 5 in 0.38 seconds

⊕ ID_CLIENT |⊕ NUME_CLIENT |⊕ PRENUME_CLIENT |⊕ EMAIL_CLIENT

    ↑ TELEFON_CLIENT

   1
                                            ionut@gmail.com
             61 Pirinei
                            Ionut
                                                                 0756789900
   2
             62 Predeanu
                                            mary12@gmail.com
                                                                 0745677899
                            Mariana
   3
             63 Ciocos
                                            bye eu@gmail.com
                                                                 0765444143
                            Bianca
   4
                                            cris teo@gmail.com 0746767888
             64 Teodoroiu
                            Cristina
   5
                                            cary cary@gmail.com 0745883464
             65 Mircea
                            Carina
```

insert into comenzi_online values (66, TO_DATE('16-01-2023','dd-mm-yyyy'), TO_DATE('24-02-2023','dd-mm-yyyy'), 'Barbu Vacarescu 70', 31, 64);

insert into comenzi_online values (67, TO_DATE('31-01-2023','dd-mm-yyyy'), TO_DATE('14-02-2023','dd-mm-yyyy'), 'Liviu Rebreanu 13',33,61);

insert into comenzi_online values (68, TO_DATE('14-02-2023','dd-mm-yyyy'), TO_DATE('15-03-2023','dd-mm-yyyy'), 'Magheru 13',32, 65);

insert into comenzi_online values (69, TO_DATE('22-02-2023','dd-mm-yyyy'), TO_DATE('18-03-2023','dd-mm-yyyy'), 'Nicolae Grigorescu 17', 34, 64);

insert into comenzi_online values (70, TO_DATE('29-03-2023','dd-mm-yyyy'), TO_DATE('14-04-2023','dd-

mm-yyyy'), 'Vlad Tepes 13', 35, 63);

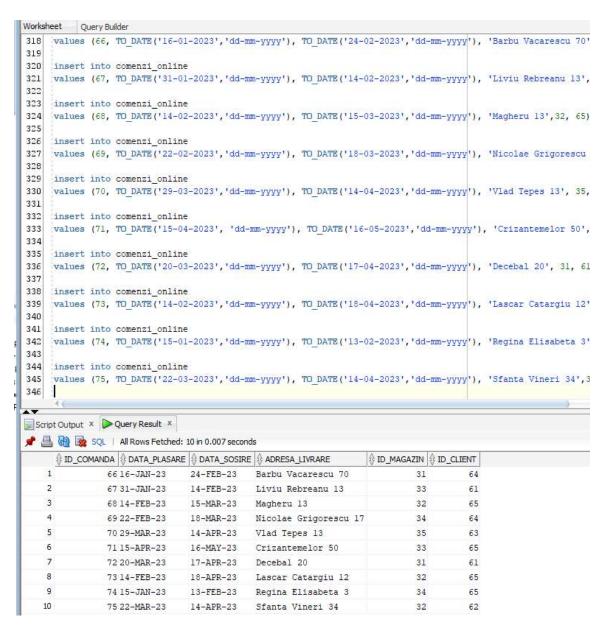
insert into comenzi_online values (71, TO_DATE('15-04-2023', 'dd-mm-yyyy'), TO_DATE('16-05-2023', 'dd-mm-yyyy'), 'Crizantemelor 50', 33, 65);

insert into comenzi_online values (72, TO_DATE('20-03-2023','dd-mm-yyyy'), TO_DATE('17-04-2023','dd-mm-yyyy'), 'Decebal 20', 31, 61);

insert into comenzi_online values (73, TO_DATE('14-02-2023','dd-mm-yyyy'), TO_DATE('18-04-2023','dd-mm-yyyy'), 'Lascar Catargiu 12',32, 65);

insert into comenzi_online values (74, TO_DATE('15-01-2023','dd-mm-yyyy'), TO_DATE('13-02-2023','dd-mm-yyyy'), 'Regina Elisabeta 3',34,65);

insert into comenzi_online values (75, TO_DATE('22-03-2023','dd-mm-yyyy'), TO_DATE('14-04-2023','dd-mm-yyyy'), 'Sfanta Vineri 34',32,62);



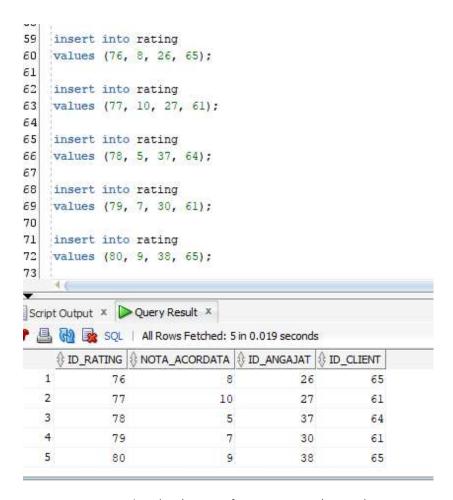
insert into rating values (76, 8, 26, 65);

insert into rating values (77, 10, 27, 61);

insert into rating values (78, 5, 37, 64);

insert into rating values (79, 7, 30, 61);

insert into rating values (80, 9, 38, 65);



insert into review values (81, 'angajati foarte prietenosi', 33, 64);

insert into review values (82, 'haine calitative', 31, 65);

insert into review values (83, 'personal priceput', 32, 63);

insert into review values (84, 'ador acest brand', 34, 61);

insert into review values(85, 'mai revin aici',35, 62);

```
386
     insert into review
387
     values (81, 'angajati foarte prietenosi', 33, 64);
388
389
     insert into review
390
     values (82, 'haine calitative', 31, 65);
391
392
     insert into review
393
     values (83, 'personal priceput', 32, 63);
394
395
     insert into review
396
     values (84, 'ador acest brand', 34, 61);
397
398
     insert into review
399
     values (85, 'mai revin aici', 35, 62);
400
401
     commit;
      4.0
Script Output X Query Result X
📌 📇 🚻 🗽 SQL | All Rows Fetched: 5 in 0.019 seconds

⊕ ID_MAGAZIN 
⊕ ID_CLIENT

    1
              81 angajati foarte prietenosi
                                                     33
                                                                64
    2
              82 haine calitative
                                                     31
                                                                65
    3
              83 personal priceput
                                                     32
                                                                63
    4
              84 ador acest brand
                                                     34
                                                                61
    5
              85 mai revin aici
                                                     35
                                                                62
```

insert into reducere values (86, 10, 3, TO_DATE('01-01-2023','dd-mm-yyyy'), 61); insert into reducere values (87, 25, 5, TO_DATE('23-07-2022','dd-mm-yyyy'), 63); insert into reducere values (88, 40, 7, TO_DATE('24-11-2021','dd-mm-yyyy'), 65); insert into reducere values (89, 35, 2, TO_DATE('01-02-2023','dd-mm-yyyy'), 62); insert into reducere values (90, 25, 1, TO_DATE('15-01-2023','dd-mm-yyyy'), 64);

```
insert into reducere
L3
14
   values (86, 10, 3, TO DATE('01-01-2023', 'dd-mm-yyyy'), 61);
15
16
   insert into reducere
   values (87, 25, 5, TO DATE ('23-07-2022', 'dd-mm-yyyy'), 63);
17
18
19
   insert into reducere
20
   values (88, 40, 7, TO DATE ('24-11-2021', 'dd-mm-yyyy'), 65);
21
22
   insert into reducere
   values (89, 35, 2, TO DATE('01-02-2023','dd-mm-yyyy'), 62);
23
24
25 insert into reducere
26
    values (90, 25, 1, TO DATE ('15-01-2023', 'dd-mm-yyyy'), 64);
27
28
   commit;
29
   select* from reducere;
Script Output X Query Result X
🕨 🚇 🙀 📚 SQL | All Rows Fetched: 5 in 0.009 seconds

♠ ID REDUCERE |♠ PROCENT |♠ PERIOADA VALABILITATE |♠ DATA INCEPUT

   1
               86
                         10
                                                 3 01-JAN-23
                                                                         61
   2
               87
                          25
                                                 5 23-JUL-22
                                                                         63
   3
               88
                          40
                                                 7 24-NOV-21
                                                                         65
   4
               89
                          35
                                                 201-FEB-23
                                                                         62
   5
                90
                          25
                                                 115-JAN-23
                                                                         64
```

6. Formulați în limbaj natural o problemă pe care să o rezolvați folosind un subprogram stocat independent care să utilizeze două tipuri diferite de colecții studiate. Apelați subprogramul.

--6. Pentru marfa, le luam pe cele care au data de livrare in ultima luna. Apoi, pentru fiecare locatie, calculam cate --cutii a primit la marfa.

CREATE OR REPLACE PROCEDURE proceduraex6 IS

```
TYPE cutii_comanda IS TABLE OF contor_marfa.nr_cutii%TYPE;

TYPE id_magazin IS TABLE OF contor_marfa.id_magazin%TYPE INDEX BY PLS_INTEGER;

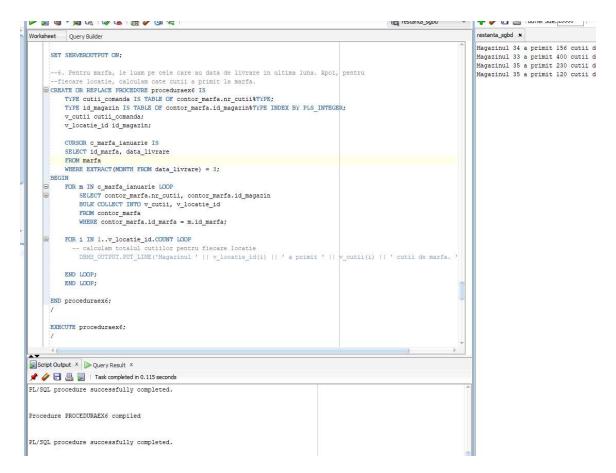
v_cutii cutii_comanda;

v_locatie_id id_magazin;

CURSOR c_marfa_ianuarie IS

SELECT id_marfa, data_livrare
```

```
FROM marfa
 WHERE EXTRACT(MONTH FROM data_livrare) = 3;
BEGIN
 FOR m IN c_marfa_ianuarie LOOP
    SELECT contor_marfa.nr_cutii, contor_marfa.id_magazin
    BULK COLLECT INTO v_cutii, v_locatie_id
    FROM contor_marfa
    WHERE contor_marfa.id_marfa = m.id_marfa;
 FOR i IN 1..v_locatie_id.COUNT LOOP
  -- calculam totalul cutiilor pentru fiecare locatie
    DBMS_OUTPUT.PUT_LINE('Magazinul'|| v_locatie_id(i) || ' a primit' || v_cutii(i) || ' cutii de marfa.
');
 END LOOP;
 END LOOP;
END proceduraex6;/
EXECUTE proceduraex6;/
```



7. Formulați în limbaj natural o problemă pe care să o rezolvați folosind un subprogram stocat independent care să utilizeze 2 tipuri diferite de cursoare studiate, unul dintre acestea fiind cursor parametrizat. Apelați subprogramul.

--7. Afisam pentru fiecare angajat, media ratingurilor primite. (2 cursoare)

SET SERVEROUTPUT ON;

CREATE OR REPLACE PROCEDURE proceduraex7 IS

-- Cursor parametrizat pentru a itera prin fiecare angajat

CURSOR c_angajati IS

SELECT id_angajat, nume_angajat, prenume_angajat

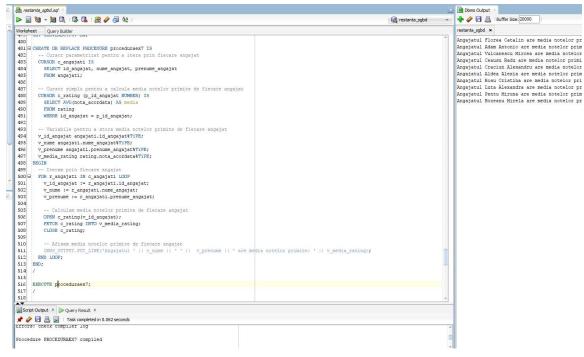
FROM angajati;

-- Cursor simplu pentru a calcula media notelor primite de fiecare angajat

CURSOR c_rating (p_id_angajat NUMBER) IS

SELECT AVG(nota_acordata) AS media

```
FROM rating
 WHERE id_angajat = p_id_angajat;
 -- Variabile pentru a stoca media notelor primite de fiecare angajat
v_id_angajat angajati.id_angajat%TYPE;
v_nume angajati.nume_angajat%TYPE;
v_prenume angajati.prenume_angajat%TYPE;
v_media_rating rating.nota_acordata%TYPE;
BEGIN
-- Iteram prin fiecare angajat
 FOR r_angajati IN c_angajati LOOP
 v_id_angajat := r_angajati.id_angajat;
 v_nume := r_angajati.nume_angajat;
 v_prenume := r_angajati.prenume_angajat;
 -- Calculam media notelor primite de fiecare angajat
 OPEN c_rating(v_id_angajat);
 FETCH c_rating INTO v_media_rating;
 CLOSE c_rating;
 -- Afisam media notelor primite de fiecare angajat
  DBMS_OUTPUT.PUT_LINE('Angajatul' || v_nume || '' || v_prenume || ' are media notelor primite: '
|| v_media_rating);
END LOOP;
END;/
EXECUTE proceduraex7;/
```



- 8. Formulați în limbaj natural o problemă pe care să o rezolvați folosind un subprogram stocat independent de tip funcție care să utilizeze într-o singură comandă SQL 3 dintre tabelele definite. Definiți minim 2 excepții. Apelați subprogramul astfel încât să evidențiați toate cazurile tratate.
- --8. Toate comenzile online care se incadreaza in perioada de valabilitate a reducerii (data_plasare > data_inceput reducere).
- --Exceptii: pt un client nu gaseste nicio comanda plasata sau nicio reducere valabila.

```
CREATE OR REPLACE FUNCTION functieex8(

p_id_client IN client.id_client%TYPE
) RETURN comenzi_online.id_comanda%TYPE
IS

v_data_sfarsit DATE;

v_rezultat NUMBER;

exceptie1 EXCEPTION;

PRAGMA EXCEPTION_INIT(exceptie1,-20001);

exceptie2 EXCEPTION;

PRAGMA EXCEPTION_INIT(exceptie2,-20002);

exceptie3 EXCEPTION;
```

```
PRAGMA EXCEPTION_INIT(exceptie3,-20003);
BEGIN
  -- Check if the client ID exists in the CLIENT table
  SELECT COUNT(*)
  INTO v_rezultat
  FROM CLIENT
  WHERE id_client = p_id_client;
  IF v_rezultat = 0 THEN
    -- raise exception when no record is found for given client ID
    RAISE exceptie3;
  ELSIF v_rezultat >1 THEN
    -- raise exception when more than one record is found for given client ID
    RAISE exceptie2;
  END IF;
  -- calculate the end date of the discount period
  {\tt SELECT\ ADD\_MONTHS} (data\_inceput,\ perioada\_valabilitate\ *\ 12)\ INTO\ v\_data\_sfarsit
  FROM reducere
  WHERE id_client = p_id_client;
  -- if no discount record is found for the given client ID, raise an exception
  IF v_data_sfarsit IS NULL THEN
    RAISE exceptie1;
  END IF;
  -- Extract the online orders of the client that fall within the discount period
  SELECT COUNT(co.id_comanda)
  INTO v_rezultat
  FROM client c
  LEFT JOIN reducere r ON c.id_client = r.id_client
  LEFT JOIN comenzi_online co ON c.id_client = co.id_client
  WHERE c.id_client = p_id_client AND co.data_plasare BETWEEN r.data_inceput AND v_data_sfarsit;
```

```
IF v_rezultat = 0 THEN
    -- If no online orders are found for the given client, raise an exception
    RAISE exceptie1;
 END IF;
 RETURN v_rezultat;
EXCEPTION
 WHEN exceptie1 THEN
    DBMS_OUTPUT.PUT_LINE('Nu exista nicio comanda plasata pentru clientul dat');
    RETURN 0;
 WHEN exceptie2 THEN
    DBMS_OUTPUT.PUT_LINE('Exista mai multi clienti cu acelasi id in baza de date');
    RETURN 0;
 WHEN exceptie3 THEN
    DBMS_OUTPUT.PUT_LINE('Clientul dat nu exista in baza de date');
    RETURN 0;
 -- Other exceptions
 WHEN OTHERS THEN
    DBMS_OUTPUT.PUT_LINE('A aparut o eroare: ' || SQLERRM);
    RETURN 0;
END functieex8;/
select* from client;
select functieex8(61) from dual;
select functieex8(1) from dual;
select functieex8("40") from dual;
```

```
INTO v_rezultat
        FROM client c
        LEFT JOIN reducere r ON c.id_client = r.id_client
        LEFT JOIN comenzi_online co ON c.id_client = co.id_client
        WHERE c.id_client = p_id_client AND co.data_plasare BETWEEN r.data_inceput AND v_data_sfarsit;
        IF v rezultat = 0 THEN
            -- If no online orders are found for the given client, raise an exception
        END IF;
        RETURN v_rezultat;
    EXCEPTION
        WHEN exceptiel THEN
            DBMS_OUTPUT.PUT_LINE('Nu exista nicio comanda plasata pentru clientul dat');
        WHEN exceptie2 THEN
            DBMS OUTPUT.PUT LINE ('Exista mai multi clienti cu acelasi id in baza de date');
        WHEN exceptie3 THEN
            DBMS_OUTPUT.PUT_LINE('Clientul dat nu exista in baza de date');
        -- Other exceptions
        WHEN OTHERS THEN
            DBMS OUTPUT.PUT LINE ('A aparut o eroare: ' || SQLERRM);
    END functieex8;
Script Output X Query Result X
📌 🧳 뒴 🖺 📘 | Task completed in 0.076 seconds
unceron rewerreene comprise
unction FUNCTIEEX8 compiled
        select functieex8 (61) from dual;
        select functieex8(1) from dual;
        select functieex8(63) from dual;
        select functieex8('40') from dual;
 Script Output × Query Result ×
 📌 📇 🙀 🗽 SQL | All Rows Fetched: 1 in 0.003 second

⊕ FUNCTIEEX8(61)

      1
```

9. Formulați în limbaj natural o problemă pe care să o rezolvați folosind

un subprogram stocat independent de tip procedură care să utilizeze într-o singură comandă SQL 5 dintre tabelele definite. Tratați toate excepțiile care pot apărea, incluzând excepțiile NO_DATA_FOUND și TOO_MANY_ROWS. Apelați subprogramul astfel încât să evidențiați toate cazurile tratate.

--9. Fie dat numele unui angajat. Sa se afiseze toate contractele pe care le are, avg rating si oysho ul la care lucreaza (tara oras + nume magazin). Vom folosi tabelele locatie, oysho, contract, angajati. Exceptii: sa nu existe numele angajatului dat, sa nu aiba rating, mai multi angajati cu acelasi nume

CREATE OR REPLACE PROCEDURE proceduraex9(p_nume_angajat angajati.nume_angajat%TYPE)

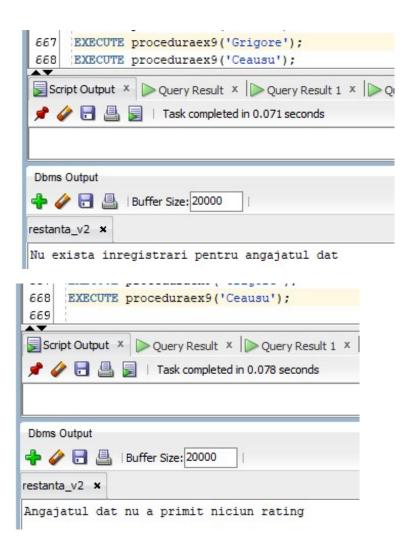
```
IS
 v_id_contract CONTRACT.id_contract%TYPE;
 v_tara OYSHO.tara%TYPE;
 v_oras OYSHO.oras%TYPE;
 v_nota RATING.nota_acordata%TYPE;
 v_nume_magazin LOCATIE.nume_magazin%TYPE;
 v_rezultat NUMBER;
 v_id NUMBER;
 v_rez NUMBER;
 exceptie1 EXCEPTION;
 PRAGMA EXCEPTION_INIT(exceptie1,-20001);
BFGIN
 SELECT id_angajat
 INTO v_id
 FROM ANGAJATI
 WHERE p_nume_angajat = nume_angajat;
 SELECT COUNT(*)
 INTO v_rezultat
 FROM ANGAJATI
 WHERE id_angajat = v_id;
 SELECT COUNT(*)
```

```
INTO v_rez
 FROM RATING
 WHERE id_angajat = v_id;
 IF v_rezultat = 0 THEN
    RAISE NO_DATA_FOUND;
 ELSIF v_rezultat >1 THEN
    RAISE TOO_MANY_ROWS;
 ELSIF v rez = 0 THEN
    RAISE exceptie1;
 END IF;
 SELECT a.id_angajat , c.id_contract , r.nota_acordata , o.tara , o.oras , l.nume_magazin
 INTO v_id, v_id_contract, v_nota, v_tara, v_oras, v_nume_magazin
 FROM ANGAJATI a
 LEFT JOIN RATING r ON a.id_angajat = r.id_angajat
 LEFT JOIN CONTRACT c ON c.id_angajat = a.id_angajat
 RIGHT JOIN OYSHO o ON o.id_oysho = c.id_oysho
 LEFT JOIN LOCATIE | ON o.id_oysho = l.id_oysho
 WHERE a.nume_angajat = p_nume_angajat;
  DBMS_OUTPUT.PUT_LINE('Angajatul cu numele ' || p_nume_angajat || ' are contractul ' ||
v_id_contract || ', rating-ul ' || v_nota || ' si lucreaza in magazinul ' || v_nume_magazin || ', din tara ' ||
v_tara || ', orasul ' || v_oras);
EXCEPTION
 WHEN NO DATA FOUND THEN
  DBMS OUTPUT.PUT LINE( 'Nu exista inregistrari pentru angajatul dat');
 WHEN TOO MANY ROWS THEN
 DBMS_OUTPUT.PUT_LINE('Exista mai multi angajati cu acelasi nume');
 WHEN exceptie1 THEN
  DBMS OUTPUT.PUT LINE('Angajatul dat nu a primit niciun rating');
END proceduraex9;/
EXECUTE proceduraex9('Florea');
```

EXECUTE proceduraex9('Grigore');

EXECUTE proceduraex9('Ceausu');

```
Worksheet Query Builder
         WHERE id_angajat = v_id;
629
630
631 ⊟
         SELECT COUNT (*)
         INTO v_rez
633
         FROM RATING
634
         WHERE id_angajat = v_id;
635
        IF v_rezultat = 0 THEN
636 □
            RAISE NO_DATA_FOUND;
637
638
        ELSIF v_rezultat >1 THEN
639
            RAISE TOO MANY ROWS;
640
        ELSIF v_rez = 0 THEN
            RAISE exceptiel;
641
         END IF;
642
643
         SELECT a.id_angajat , c.id_contract , r.nota_acordata , o.tara , o.oras , 1.nume_magazin
645
         INTO v_id, v_id_contract, v_nota, v_tara, v_oras, v_nume_magazin
646
         FROM ANGAJATI a
647
         LEFT JOIN RATING r ON a.id_angajat = r.id_angajat
         LEFT JOIN CONTRACT c ON c.id_angajat = a.id_angajat
648
         RIGHT JOIN OYSHO O ON o.id oysho = c.id oysho
649
         LEFT JOIN LOCATIE 1 ON o.id_oysho = 1.id_oysho
650
651
         WHERE a.nume_angajat = p_nume_angajat;
652
         DBMS_OUTPUT_PUT_LINE('Angajatul cu numele ' || p_nume_angajat || ' are contractul ' || v_id_contract || ', rating-ul ' || v_nota
653
654 EXCEPTION
655
      WHEN NO_DATA_FOUND THEN
656
         DBMS_OUTPUT.PUT_LINE( 'Nu exista inregistrari pentru angajatul dat');
658
     WHEN TOO MANY ROWS THEN
659
        DBMS_OUTPUT.PUT_LINE('Exista mai multi angajati cu acelasi nume');
660
       WHEN exceptiel THEN
       DBMS_OUTPUT.PUT_LINE('Angajatul dat nu a primit niciun rating');
661
662
663 END proceduraex9;
Script Output X Query Result X Query Result 1 X Query Result 2 X
📌 🥢 🔡 遏 | Task completed in 0.054 seconds
Procedure PROCEDURAEX9 compiled
666 EXECUTE proceduraex9('Florea');
 667 EXECUTE proceduraex9('Grigore');
 668 EXECUTE proceduraex9('Ceausu'):
 Script Output × Query Result × Duery Result 1 × Query Result 2 ×
 📌 🥢 🖥 🚇 📕 | Task completed in 0.067 seconds
 Dbms Output
 🕂 🥢 🔚 🚇 | Buffer Size: 20000
 Angajatul cu numele Florea are contractul 45, rating-ul 8 si lucreaza in magazinul Oysho ParkLake, din tara Portugalia, orasul Lisab
```



10. Definiți un trigger de tip LMD la nivel de comandă. Declanșați triggerul.

- --10. Un trigger care sa permita lucrul asupra tabelului CONTRACT doar in intervalul 8-18,
- --de luni pana sambata.

CREATE OR REPLACE TRIGGER triggerex10

BEFORE INSERT OR UPDATE OR DELETE ON CONTRACT

```
BEGIN
 IF (TO_CHAR(SYSDATE, 'D') = 1) OR (TO_CHAR(SYSDATE, 'HH24') NOT BETWEEN 8 AND 18)
 THEN
 RAISE_APPLICATION_ERROR(-20001, 'Tabelul nu poate fi actualizat in afara orelor de lucru!');
END;/
UPDATE CONTRACT
SET tip contract = 'angajat';
       --10. Un trigger care sa permita lucrul asupra tabelului CONTRACT doar in intervalul 8-18,
       --de luni pana sambata.
     GCREATE OR REPLACE TRIGGER triggerex10
          BEFORE INSERT OR UPDATE OR DELETE ON CONTRACT
     BEGIN
          IF (TO CHAR(SYSDATE, 'D') = 1) OR (TO CHAR(SYSDATE, 'HH24') NOT BETWEEN 8 AND 18)
          RAISE_APPLICATION_ERROR(-20001, 'Tabelul nu poate fi actualizat in afara orelor de lucru!');
       END;
       UPDATE CONTRACT
       SET tip_contract = 'angajat';
 Query Result X Script Output X
 📌 🥢 🖥 🚇 📝 | Task completed in 0.318 seconds
 Trigger TRIGGEREX10 compiled
 Error starting at line : 445 in command -
```

11. Definiți un trigger de tip LMD la nivel de linie. Declanșați trigger-ul.

--11. Un trigger care sa nu permita ca reducerea unui client sa depaseasca 50%

ORA-20001: Tabelul nu poate fi actualizat in afara orelor de lucru!

ORA-04088: error during execution of trigger 'SYSTEM.TRIGGEREX10'

CREATE OR REPLACE TRIGGER triggerex11

BEFORE UPDATE OF procent ON REDUCERE

ORA-06512: at "SYSTEM.TRIGGEREX10", line 4

FOR EACH ROW

UPDATE CONTRACT

Error report -

SET tip_contract = 'angajat'

```
WHEN ( NEW.procent >50 )
BEGIN
 RAISE_APPLICATION_ERROR(-20002, 'Procentul de reducere nu poate depasi 50%!');
END;
UPDATE REDUCERE
SET procent = procent + 50;
      --11. Un trigger care sa nu permita ca reducerea unui client sa depaseasca 50%
    CREATE OR REPLACE TRIGGER triggerex11
          BEFORE UPDATE OF procent ON REDUCERE
          FOR EACH ROW
          WHEN ( NEW.procent >50 )
          RAISE APPLICATION ERROR (-20002, 'Procentul de reducere nu poate depasi 50%!');
      END;
      UPDATE REDUCERE
      SET procent = procent + 50;
Query Result X Script Output X
 📌 🥢 🔡 🖺 🔋 | Task completed in 0.133 seconds
Trigger TRIGGEREX11 compiled
Error starting at line : 440 in command -
UPDATE REDUCERE
SET procent = procent + 50
Error report -
ORA-20002: Procentul de reducere nu poate depasi 50%!
ORA-06512: at "SYSTEM.TRIGGEREX11", line 2
ORA-04088: error during execution of trigger 'SYSTEM.TRIGGEREX11'
12. Definiți un trigger de tip LDD. Declanșați trigger-ul.
CREATE TABLE erori (nume_bd VARCHAR2(50),
```

```
CREATE TABLE erori (nume_bd VARCHAR2(50)

user_logat VARCHAR2(30),

data TIMESTAMP(3),

eroare VARCHAR2(2000));
```

CREATE OR REPLACE TRIGGER triggerex12 AFTER SERVERERROR ON SCHEMA BEGIN INSERT INTO ERORI VALUES (SYS.DATABASE_NAME, SYS.LOGIN_USER, SYSTIMESTAMP, DBMS_UTILITY.FORMAT_ERROR_STACK); END; / CREATE TABLE a (ID NUMBER (2)); INSERT INTO a VALUES (123); ALTER TABLE a DROP (b);

