GESTIUNEA UNUI LANT DE MAGAZINE

MEREALBE BRIANA

GRUPA 243

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

Baza de date contine informatii cu privire la un lant de magazine, vanzarile fiecarui magazin la o data anume, angajatii, salariile incasate de angajati in 2022, produsele disponibile in magazine, stocurile care au fost livrate, comenzile plasate online de catre clienti si reducerile disponibile.

Scopul acestei baze de date este de a putea tine evidenta tuturor entitatilor intr-un mod eficient si usor de accesat.

Fiecare magazin va avea un numar de angajati printre care si curieri. Curierii vor avea masini atribuite pentru a realiza transportul comenzilor.

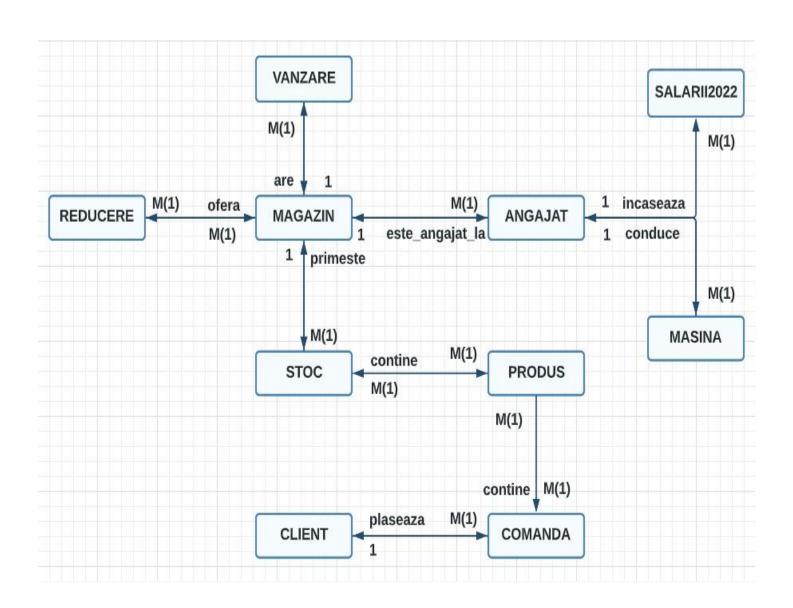
La finalul fiecarei zile lucratoare, profitul total se va trece in tabelul VANZARE pentru fiecare magazin.

Stocurile de produs sunt livrate de la firma mare catre magazinele mai mici distribuite in locatii diferite. (aceasta baza de date nu va tine evidenta si companiei mari)

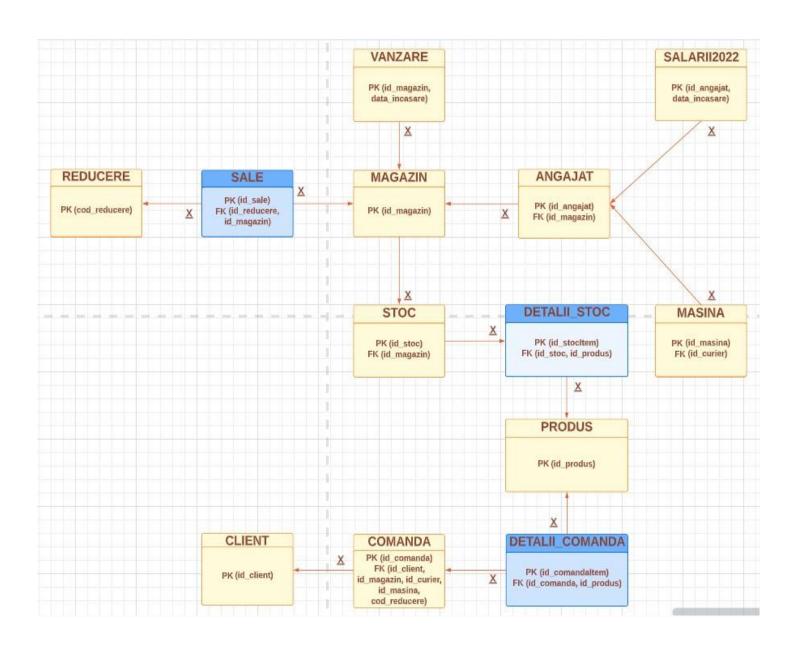
Comenzile pot fi plasate doar online de catre clientii logati la site-ul firmei.

Reducerile se aplica automat pentru comenzile online, iar pentru achizitiile facute de clientii din magazine, reducerile se aplica prin introducerea codului corespunzator in momentul in care se face plata la casa de marcat, de catre un angajat. Pentru a vedea ce reduceri sunt valabile ne uitam in tabelul SALE.

2. Realizați diagrama entitate-relație (ERD).



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



4. Implementați în Oracle diagrama conceptuală realizată.

5. Adăugați informații coerente în tabelele create.

----TABEL MAGAZIN-----

CREATE TABLE MAGAZIN (id_magazin NUMBER(5) CONSTRAINT PKEY_MAGAZIN PRIMARY KEY,

```
tara_magazin VARCHAR(500) CONSTRAINT tara_magazin NOT NULL,
adresa_magazin VARCHAR(300) CONSTRAINT adresa_magazin NOT NULL,
telefon_magazin VARCHAR(50) CONSTRAINT telefon_magazin NOT NULL,
mail_magazin VARCHAR(50) CONSTRAINT mail_magazin UNIQUE NOT NULL,
cod_postal VARCHAR(50)
);
```

INSERT INTO MAGAZIN VALUES

(1,'Japonia',' 219-1130, Ikanikeisaiganaibaai, Musashino-shi,Tokyo','+8141-984-8883','TmangaSTORE-JAPAN@gmail.com','105-0013');

INSERT INTO MAGAZIN VALUES

(2,'Romania','Std Profesor Minculescu nr 34, Iasi','+40754-876-123','TmangaSTORE-ROMANIA@gmail.com','36649');

INSERT INTO MAGAZIN VALUES

(3,'Italia','Strada Provinciale 65 49, Carvico, Bergamo','+390373 5756478','TmangaSTORE-ITALY@gmail.com','54024');

INSERT INTO MAGAZIN VALUES

 $(4, Germania', Oeder\ Weg\ 50,\ Hesse,\ Frankfurt', '+4906728\ 14\ 75\ 86', TmangaSTORE-GERMANY@gmail.com', '55437');$

INSERT INTO MAGAZIN VALUES

(5,'UK','74 Exning Road, London',' +44070 5508 2035','TmangaSTORE-UK@gmail.com','LL46 9RT');

SELECT * FROM magazin;

⊕ ID_N	MAGAZIN TARA_MAGA	ZIN (ADRESA_MAGAZIN	TELEFON_N
1	1 Japonia	219-1130, Ikanikeisaiganaibaai, Musashino-shi, Tokyo	+8141-984-
2	2 Romania	Std Profesor Minculescu nr 34, Iasi	+40754-876
3	3 Italia	Strada Provinciale 65 49, Carvico, Bergamo	+390373 57
4	4 Germania	Oeder Weg 50, Hesse, Frankfurt	+4906728 1
5	5 UK	74 Exning Road, London	+44070 55

-----TABEL ANGAJAT-----

```
CREATE TABLE ANGAJAT (id_angajat NUMBER(5) CONSTRAINT PKEY_ANGAJAT PRIMARY KEY,
            id_magazin NUMBER(5),
            CONSTRAINT fk_angajat FOREIGN KEY(id_magazin) REFERENCES MAGAZIN (id_magazin),
            nume angajat VARCHAR(50) CONSTRAINT nume angajat NOT NULL,
            prenume_angajat VARCHAR(50) CONSTRAINT prenume_angajat NOT NULL,
            varsta_angajat INT CONSTRAINT varsta_angajat NOT NULL,
            sex_angajat VARCHAR(50) CONSTRAINT sex_angajat NOT NULL,
            telefon_angajat VARCHAR(50) CONSTRAINT telefon_angajat NOT NULL,
            functie VARCHAR(50) CONSTRAINT functie NOT NULL,
            data_angajare DATE CONSTRAINT data_angajare NOT NULL
            );
INSERT INTO ANGAJAT VALUES
(110,1,'Domen','Tsukiko',23,'barbat','+8199-159-0988','manager',TO_DATE('20211209', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(111,1,'Yogi','Toshio',42,'barbat','+8192-099-0119','curier',TO_DATE('20220103', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(112,1,'Arima','Yasuo',27,'femeie',' +8182-012-7888','casier',TO_DATE('20220112', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(113,1,'Higashihara','Kenwa',22,'barbat','+8165-156-5895','casier',TO_DATE('20220125', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(114,1,'Bando','Yun'A',18,'femeie','+8174-422-3781','femeie/om de serviciu',TO_DATE('20220421', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(115,1,'Kanai','Kuni',30,'barbat','+8147-649-1055','contabil',TO_DATE('20220501', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(120,2, 'Petre', 'Sorin', 34, 'barbat', '+40732-671-544', 'manager', TO_DATE('20211223', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(121,2,'Popescu','Andrei',52,'barbat','+40736-766-644','curier',TO_DATE('20220107', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(122,2,'Hirdea','Mihaela',33,'femeie','+40725-471-334','casier',TO_DATE('20220227', 'yyyymmdd'));
```

```
Sisteme de Gestiune a Bazelor de Date
ANUL II, SERIA 24
INSERT INTO ANGAJAT VALUES
(123,2,'Boboc','Mihai',36,'barbat','+40754-970-123','contabil',TO_DATE('20220201', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(124,2,'Duca','Bianca',23,'femeie','+40722-853-451','administrator',TO DATE('20220513', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(125,2,'Genes','Dana',19,'femeie','+40745-311-666','casier',TO_DATE('20220220', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(126,2,'Dumitrescu','Oana',21,'femeie','+40747-986-909','asistent manager',TO_DATE('20220617', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(127,2,'Opinca','Radu',27,'barbat','+40744-226-746','secretar/a',TO DATE('20220227', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(130,3,'Cristaldo','Marandola',29,'femeie','+390315 7479930','manager',TO DATE('20211209', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(131,3,'Sansone','Calise',39,'femeie','+390360 7042929','curier',TO_DATE('20220209', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(132,3,'Salvatore','Pietro',34,'barbat','+39 0334 7615289','casier',TO_DATE('20220118', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(133,3,'De luca','Rebecca',44,'femeie','+390387 6410034','curier',TO_DATE('20220316', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(134,3,'Battaglia ','Giulio',29,'barbat','+390332 4147151','administrator',TO_DATE('20220518', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(135,3,'Gambone','Simona',38,'femeie','+390386 8429767','contabil',TO_DATE('20220418', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(136,3,'Bocci','Lucia ',47,'femeie','+390321 7988774','secretar/a',TO_DATE('20220404', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(140,4,'Wendell','Astor',29,'barbat','+4904746 96 61 81','manager',TO_DATE('20211225', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(141,4,'Vieth','Reiner',38,'barbat','+4902682 33 18 59','curier',TO_DATE('20220208', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(142,4,'Schulze','Manni',26,'femeie','+4906581 62 50 44','contabil',TO_DATE('20220126', 'yyyymmdd'));
INSERT INTO ANGAJAT VALUES
(143,4,'Brandt','Fabian',28,'barbat','+4906581 62 50 44','curier',TO_DATE('20220208', 'yyyymmdd'));
```

INSERT INTO ANGAJAT VALUES

ANUL II, SERIA 24

(144,4,'Schröder','Julie',18,'femeie','+4904746 96 61 81','secretar/a',TO_DATE('20220525', 'yyyymmdd'));

INSERT INTO ANGAJAT VALUES

(145,4,'Busch','Valeria ',19,'femeie','+490911 43 31 23','administrator',TO_DATE('20220414', 'yyyymmdd'));

INSERT INTO ANGAJAT VALUES

(150,5,'Rhys','Lewis',39,'barbat','+44077 2082 4735','manager',TO_DATE('20211215', 'yyyymmdd'));

INSERT INTO ANGAJAT VALUES

(151,5,'Eli','Thomas',45,'barbat','+44078 3886 0633','curier',TO_DATE('20220222', 'yyyymmdd'));

INSERT INTO ANGAJAT VALUES

(152,5,'Bentley','George',24,'barbat','+44070 2301 5654','casier',TO_DATE('20220317', 'yyyymmdd'));

INSERT INTO ANGAJAT VALUES

(153,5,'Coleman','Katy',24,'femeie','+44070 2301 5654','casier',TO_DATE('20220225', 'yyyymmdd'));

INSERT INTO ANGAJAT VALUES

(154,5,'Wade','Edith',21,'femeie','+44070 2301 5654','administrator',TO_DATE('20220326', 'yyyymmdd'));

INSERT INTO ANGAJAT VALUES

(155,5,'Sheldon','Joe',34,'barbat','+44070 2301 5654','curier',TO_DATE('20220425', 'yyyymmdd'));

SELECT * FROM ANGAJAT;

	ID_ANGAJAT		♦ NUME_ANGAJAT	PRENUME_ANGAJAT	∀ VARSTA_ANGAJAT	SEX_ANG
1	110	1	Domen	Tsukiko	23	barbat
2	111	1	Yogi	Toshio	42	barbat
3	112	1	Arima	Yasuo	27	femeie
4	113	1	Higashihara	Kenwa	22	barbat
5	114	1	Bando	Yun'A	18	femeie
6	115	1	Kanai	Kuni	30	barbat
7	120	2	Petre	Sorin	34	barbat
8	121	2	Popescu	Andrei	52	barbat

-----TABEL SALARII 2022-----

```
CREATE TABLE SALARII2022 (id_angajat NUMBER(5) CONSTRAINT id_angajat REFERENCES ANGAJAT(id_angajat),
              data_incasare_salariu DATE CONSTRAINT data_incasare_salariu NOT NULL,
              CONSTRAINT PKEY_SALARII2022 PRIMARY KEY(id_angajat, data_incasare_salariu),
              plata_cu_ora FLOAT CONSTRAINT plata_cu_ora NOT NULL,
              ore_lucrate INT CONSTRAINT ore_lucrate NOT NULL,
              bonus_tip VARCHAR(50),
              bonus_val FLOAT,
              salariu_total FLOAT,
              moneda VARCHAR(50)
              );
INSERT INTO SALARII2022 VALUES
(110,TO_DATE('20220127', 'yyyymmdd'),16.00,300, 'bonus manager',134.78,3989.78, 'euro');
INSERT INTO SALARII2022 VALUES
(112,TO_DATE('20220127', 'yyyymmdd'),18.00,230,'',0.0,3002.93,'euro');
INSERT INTO SALARII2022 VALUES
(124,TO_DATE('20220127', 'yyyymmdd'),15.00,290,'',0.0,3009.12,'euro');
INSERT INTO SALARII2022 VALUES
(122,TO_DATE('20220127', 'yyyymmdd'),19.00,180,'',0.0,2897.65,'euro');
INSERT INTO SALARII2022 VALUES
(112,TO_DATE('20220127', 'yyyymmdd'),16.00,301,'',0.0,4002.99,'euro');
INSERT INTO SALARII_2022 VALUES
(121,TO_DATE('20220227', 'yyyymmdd'),18.00,381,'bonus curier',523.32,4552.93,'euro');
INSERT INTO SALARII2022 VALUES
(115,TO_DATE('20220227', 'yyyymmdd'),20.00,271,'',0.0,3452.09,'euro');
INSERT INTO SALARII2022 VALUES
(133,TO_DATE('20220227', 'yyyymmdd'),18.00,345,'bonus curier',457.87,4762.99,'euro');
INSERT INTO SALARII2022 VALUES
(126,TO_DATE('20220327', 'yyyymmdd'),19.00,341,'',0.0,4002.99,'euro');
INSERT INTO SALARII2022 VALUES
```

ANUL II, SERIA 24

(123,TO_DATE('20220327', 'yyyymmdd'),20.00,299,'',0.0,4902.29,'euro');

INSERT INTO SALARII2022 VALUES

(132,TO_DATE('20220427', 'yyyymmdd'),17.00,334,'',0.0,3062.99,'euro');

INSERT INTO SALARII2022 VALUES

(127,TO_DATE('20220427', 'yyyymmdd'),17.00,321,'',0.0,3023.49,'euro');

INSERT INTO SALARII2022 VALUES

(136,TO_DATE('20220427', 'yyyymmdd'),17.00,311,'',0.0,4012.11,'euro');

INSERT INTO SALARII2022 VALUES

(120,TO_DATE('20220427', 'yyyymmdd'),16.00,331,'bonus manager',523.99,4402.99,'euro');

INSERT INTO SALARII2022 VALUES

(154,TO_DATE('20220527', 'yyyymmdd'),17.00,309,'',0.0,3212.49,'euro');

INSERT INTO SALARII2022 VALUES

(153,TO_DATE('20220527', 'yyyymmdd'),17.00,315,'',0.0,4032.34,'euro');

SELECT * FROM SALARII2022;

ID_ANGAJAT	DATA_INCASARE_SALARIU	PLATA_CU_ORA	♦ ORE_LUCRATE	⊕ BONUS_TIP
110	27-JAN-22	16	300	bonus manag
112	27-JAN-22	18	230	(null)
124	27-JAN-22	15	290	(null)
122	27-JAN-22	19	180	(null)
115	27-FEB-22	20	271	(null)
133	27-FEB-22	18	345	bonus curie
126	27-MAR-22	19	341	(null)
123	27-MAR-22	20	299	(null)
122	27_100_22	17	221	/m1111

-----TABEL MASINA-----

CREATE TABLE MASINA (id_masina NUMBER(5) CONSTRAINT PKEY_MASINA PRIMARY KEY,

id_curier NUMBER(5),

CONSTRAINT fk_masina FOREIGN KEY (id_curier) REFERENCES ANGAJAT(id_angajat),

nr_matricol VARCHAR(50) CONSTRAINT nr_matricol UNIQUE NOT NULL,

marca_masina VARCHAR(50) CONSTRAINT marca_masina NOT NULL,

tip_masina VARCHAR(50) CONSTRAINT tip_masina NOT NULL);

ANUL II, SERIA 24

INSERT INTO MASINA VALUES

(1,111,'5CE9345','Toyota','mica');

INSERT INTO MASINA VALUES

(2,121,'P67HNU','Nissan','mare');

INSERT INTO MASINA VALUES

(3,131,'8ALB027','Nissan','mare');

INSERT INTO MASINA VALUES

(4,133,'CCDF24','Ford','mica');

INSERT INTO MASINA VALUES

(5,141,'6HQB483','Mitsubishi','mica');

INSERT INTO MASINA VALUES

(6,143,'SDDF483','Ford','mare');

INSERT INTO MASINA VALUES

(7,151,'2SS2D33','Toyota','mare');

INSERT INTO MASINA VALUES

(8,155,'SDSQB23DS','Nissan','mica');

SELECT * FROM MASINA;

MASINA	ID_CONTENT	V INCTINITIOOE	₩ MARCA_MASINA	A
1	111	5CE9345	Toyota	mica
2	121	P67HNU	Nissan	mare
3	131	8ALB027	Nissan	mare
4	133	CCDF24	Ford	mica
5	141	6HQB483	Mitsubishi	mica
6	143	SDDF483	Ford	mare
7	151	2552D33	Toyota	mare
8	155	SDSQB23DS	Nissan	mica

-----TABEL CLIENT-----

CREATE TABLE CLIENT (id_client NUMBER(5) CONSTRAINT PKEY_CLIENT PRIMARY KEY,

nume_client VARCHAR(50) CONSTRAINT nume_client NOT NULL,
prenume_client VARCHAR(50) CONSTRAINT prenume_client NOT NULL,
mail_client VARCHAR(50) CONSTRAINT mail_client UNIQUE NOT NULL,
telefon_client VARCHAR(50) CONSTRAINT telefon_client NOT NULL,
varsta_client INT CONSTRAINT varsta_client NOT NULL,
data_nastere_client DATE CONSTRAINT data_nastere_client NOT NULL,
adresa_client VARCHAR(100)
);

INSERT INTO CLIENT VALUES

(1,'Merealbe','Briana','bri.mere@yahoo.com','0756234111',20,TO_DATE('20020105', 'yyyymmdd'),");

ANUL II, SERIA 24

INSERT INTO CLIENT VALUES

(2,'Buturuga','Patricia','patri_b@gmail.com','0733908002',21,TO_DATE('20010909', 'yyyymmdd'),'');

INSERT INTO CLIENT VALUES

(3,'Mihaila','Robert','mRobertt@yahoo,com','0754333123',15,TO_DATE('20071219', 'yyyymmdd'),'');

INSERT INTO CLIENT VALUES

(4,'Dobrescu','Diana','diaDobre@yahoo.com','0732654986',20,TO_DATE('20020424', 'yyyymmdd'),'');

INSERT INTO CLIENT VALUES

(5, 'Furdui', 'Andrei', 'furduiandrei@gmail.com', '0756123222', 19, TO_DATE('20030404', 'yyyymmdd'), '');

SELECT * FROM CLIENT;

ID_CLIENT	NUME_CLIENT	PRENUME_CLIENT	MAIL_CLIENT	♦ TELEFON
1	Merealbe	Briana	bri.mere@yahoo.com	07562341
2	Buturuga	Patricia	patri_b@gmail.com	07339080
3	Mihaila	Robert	mRobertt@yahoo,com	07543331
4	Dobrescu	Diana	diaDobre@yahoo.com	07326549
5	Furdui	Andrei	furduiandrei@gmail.com	07561232

-----TABEL PRODUS-----

CREATE TABLE PRODUS (id_produs NUMBER(5) CONSTRAINT PKEY_PRODUS PRIMARY KEY,

```
tip_produs VARCHAR(50),
genre_produs VARCHAR(50),
nume_produs VARCHAR(50) CONSTRAINT nume_produs NOT NULL,
pret_unit FLOAT CONSTRAINT pret_unit NOT NULL,
moneda_produs VARCHAR(50) CONSTRAINT moneda_produs NOT NULL,
descriere_produs VARCHAR(300)
);
```

INSERT INTO PRODUS VALUES

(1111, 'manga', 'action', 'MY HERO ACADEMIA VOL.28', 23.00, 'euro', '');

INSERT INTO PRODUS VALUES

(1112, 'manga', 'action', 'TOKYO GHOUL VOL.12', 20.99, 'euro', '');

INSERT INTO PRODUS VALUES

(1113, 'manga', 'action', 'ATTACK ON TITAN VOL.4', 25.00, 'euro', '');

ANUL II, SERIA 24

INSERT INTO PRODUS VALUES

(1114, 'manga', 'action', 'ATTACK ON TITAN VOL.32', 20.5, 'euro', '');

INSERT INTO PRODUS VALUES

(1115, 'manga', 'action', 'DEMON SLAYER VOL.18', 19.99, 'euro', '');

INSERT INTO PRODUS VALUES

(1116, 'manga', 'action', 'JUJUTSU KAISEN VOL.23', 21.00, 'euro', '');

INSERT INTO PRODUS VALUES

(1117, 'manga', 'slice-of-life', 'BLUE PERIOD VOL.15', 22.8, 'euro', '');

INSERT INTO PRODUS VALUES

(1118, 'manga', 'sport', 'HAIKYUU VOL.45', 20.5, 'euro', '');

SELECT * FROM PRODUS;

ID_PRODUS	# TIP_PRODUS		NUME_PRODUS	PRET_UNIT
1111	manga	action	MY HERO ACADEMIA VOL.28	23 6
1112	manga	action	TOKYO GHOUL VOL.12	20.99
1113	manga	action	ATTACK ON TITAN VOL.4	25
1114	manga	action	ATTACK ON TITAN VOL.32	20.5
1115	manga	action	DEMON SLAYER VOL.18	19.99
1116	manga	action	JUJUTSU KAISEN VOL.23	21
1117	manga	slice-of-life	BLUE PERIOD VOL.15	22.8
1118	manga	sport	HAIKYUU VOL.45	20.5

-----TABEL VANZARE-----

CREATE TABLE VANZARE (id_magazin NUMBER(5),

CONSTRAINT fk_vanzare FOREIGN KEY (id_magazin) REFERENCES MAGAZIN(id_magazin), data_incasare DATE CONSTRAINT data_incasare NOT NULL,

CONSTRAINT PKEY_VANZARE PRIMARY KEY(id_magazin, data_incasare),

suma_incasata FLOAT CONSTRAINT suma_incasata NOT NULL

);

INSERT INTO VANZARE VALUES

(1,TO_DATE('20220103', 'yyyymmdd'),523.03);

INSERT INTO VANZARE VALUES

```
Sisteme de Gestiune a Bazelor de Date ANUL II, SERIA 24 (4,TO_DATE('20220412', 'yyyymmdd'),249.77); INSERT INTO VANZARE VALUES (4,TO_DATE('20220531', 'yyyymmdd'),400.78); INSERT INTO VANZARE VALUES (3,TO_DATE('20220228', 'yyyymmdd'),333.23); INSERT INTO VANZARE VALUES (2,TO_DATE('20220223', 'yyyymmdd'),232.45); INSERT INTO VANZARE VALUES (5,TO_DATE('20220312', 'yyyymmdd'),509.01); INSERT INTO VANZARE VALUES (1,TO_DATE('20220413', 'yyyymmdd'),322.03); INSERT INTO VANZARE VALUES (3,TO_DATE('20220321', 'yyyymmdd'),322.03); INSERT INTO VANZARE VALUES (3,TO_DATE('20220321', 'yyyymmdd'),432.7);
```

ID_MAGAZIN	DATA_INCASARE	\$ SUMA_INCASATA
1	03-JAN-22	523.03
4	12-APR-22	249.77
4	31-MAY-22	400.78
3	28-FEB-22	333.23
2	23-FEB-22	232.45
5	12-MAR-22	509.01
1	13-APR-22	322.03
3	21-MAR-22	432.7

SELECT * FROM VANZARE;

-----TABEL REDUCERE-----

```
CREATE TABLE REDUCERE (cod_reducere NUMBER(5) CONSTRAINT PKEY_REDUCERE PRIMARY KEY,
```

```
reducere_tip VARCHAR(50) CONSTRAINT reducere_tip NOT NULL,
reducere_val INT CONSTRAINT reducere_val NOT NULL,
detalii_reducere VARCHAR(100)
);
```

INSERT INTO REDUCERE VALUES

(12345, 'reducere la orice horror manga', 15,");

INSERT INTO REDUCERE VALUES

(23456, 'reducere de vara', 30, '');

INSERT INTO REDUCERE VALUES

(34567, 'reducere de Craciun', 50, '');

INSERT INTO REDUCERE VALUES

(45678, 'reducere de Black Friday', 75,'');

INSERT INTO REDUCERE VALUES

```
ANUL II, SERIA 24 (56789, 'reducere de angajat', 20, '');

INSERT INTO REDUCERE VALUES

(67890, 'reducere la orice action manga', 15, ");
```

SELECT * FROM REDUCERE;

OD_REDUCERE & REDUCERE_TIP		DETALII_REDUCE
12345 reducere la orice horror manga	15	(null)
23456 reducere de vara	30	(null)
34567 reducere de Craciun	50	(null)
45678 reducere de Black Friday	75	(null)
56789 reducere de angajat	20	(null)
67890 reducere la orice action manga	15	(null)

-----TABEL SALE-----

CREATE TABLE SALE (id_sale NUMBER(5) CONSTRAINT PKEY_SALE PRIMARY KEY,

```
id_reducere NUMBER(5),

CONSTRAINT fk_reducere_sale FOREIGN KEY (id_reducere) REFERENCES REDUCERE(cod_reducere),
id_magazin NUMBER(5),

CONSTRAINT fk_magazin_sale FOREIGN KEY (id_magazin) REFERENCES MAGAZIN(id_magazin),
data_inceput DATE CONSTRAINT data_inceput NOT NULL,
data_sfarsit DATE CONSTRAINT data_sfarsit NOT NULL
);
```

INSERT INTO SALE VALUES

(10000,12345,1,TO_DATE('20220303', 'yyyymmdd'),TO_DATE('20220312', 'yyyymmdd'));

INSERT INTO SALE VALUES

(10123,12345,2,TO_DATE('20220109', 'yyyymmdd'),TO_DATE('20220117', 'yyyymmdd'));

INSERT INTO SALE VALUES

(10369,23456,2,TO_DATE('20220412', 'yyyymmdd'),TO_DATE('20220423', 'yyyymmdd'));

INSERT INTO SALE VALUES

(10615,67890,3,TO_DATE('20220511', 'yyyymmdd'),TO_DATE('20220530', 'yyyymmdd'));

INSERT INTO SALE VALUES

(10123,45678,5,TO_DATE('20220226', 'yyyymmdd'),TO_DATE('20220227', 'yyyymmdd'));

ANUL II, SERIA 24

SELECT * FROM SALE;

ID_SALE			DATA_INCEPUT	DATA_SFARSI
10000	12345	1	03-MAR-22	12-MAR-22
10123	12345	2	09-JAN-22	17-JAN-22
10369	23456	2	12-APR-22	23-APR-22
10615	67890	3	11-MAY-22	30-MAY-22

----TABEL STOC-----

CREATE TABLE STOC (id_stoc NUMBER(5) CONSTRAINT PKEY_STOC PRIMARY KEY,

id_magazin NUMBER(5),
CONSTRAINT fk_stoc FOREIGN KEY (id_magazin) REFERENCES MAGAZIN(id_magazin),
data_livrare DATE CONSTRAINT data_livrare NOT NULL
);

INSERT INTO STOC VALUES

(0001,1,TO_DATE('20220101', 'yyyymmdd'));

INSERT INTO STOC VALUES

(0002,2,TO_DATE('20220101', 'yyyymmdd'));

INSERT INTO STOC VALUES

(0003,2,TO_DATE('20220212', 'yyyymmdd'));

INSERT INTO STOC VALUES

(0004,3,TO_DATE('20220101', 'yyyymmdd'));

INSERT INTO STOC VALUES

(0005,5,TO_DATE('20220531', 'yyyymmdd'));

INSERT INTO STOC VALUES

(0006,4,TO_DATE('20220516', 'yyyymmdd'));

SELECT * FROM STOC;

ID_STOC		♦ DATA_LIVRARE
1	1	01-JAN-22
2	2	01-JAN-22
3	2	12-FEB-22
4	3	01-JAN-22
5	5	31-MAY-22
6	4	16-MAY-22

-----TABEL DETALII STOC-----

```
INSERT INTO DETALII_STOC VALUES
(88888,1,1118,23,'HAIKYUU VOL.45');
INSERT INTO DETALII_STOC VALUES
(99999,1,1112,31,'TOKYO GHOUL VOL.12');
INSERT INTO DETALII_STOC VALUES
(44444,2,1118,34,'HAIKYUU VOL.45');
INSERT INTO DETALII_STOC VALUES
(11111,2,1117,22,'BLUE PERIOD VOL.15');
INSERT INTO DETALII_STOC VALUES
(55555,3,1112,43,'TOKYO GHOUL VOL.12');
INSERT INTO DETALII_STOC VALUES
(77777,4,1115,12,'DEMON SLAYER VOL.18');
```

SELECT * FROM DETALII_STOC;

			E_PRODUS_STOC NUME_PRODUS_STOC
88888	1	1118	23 HAIKYUU VOL.45
99999	1	1112	31 TOKYO GHOUL VOL.12
44444	2	1118	34 HAIKYUU VOL.45
11111	2	1117	22 BLUE PERIOD VOL.15
55555	3	1112	43 TOKYO GHOUL VOL.12
77777	4	1115	12 DEMON SLAYER VOL.1

-----TABEL COMANDA-----

CREATE TABLE COMANDA (id_comanda NUMBER(5) CONSTRAINT PKEY_COMANDA PRIMARY KEY,

id_client NUMBER(5), CONSTRAINT fk_client_comanda FOREIGN KEY (id_client) REFERENCES CLIENT(id_client),

id_magazin NUMBER(5), CONSTRAINT fk_magazin_comanda FOREIGN KEY (id_magazin) REFERENCES MAGAZIN(id_magazin),

id_curier NUMBER(5), CONSTRAINT fk_curier_comanda FOREIGN KEY (id_curier) REFERENCES ANGAJAT(id_angajat),

id_masina NUMBER(5), CONSTRAINT fk_masina_comanda FOREIGN KEY (id_masina) REFERENCES MASINA(id_masina),

data_plasare DATE CONSTRAINT data_plasare NOT NULL,

data_sosire DATE,

nr_produse INT CONSTRAINT nr_produse NOT NULL,

suma_initiala FLOAT CONSTRAINT suma_initiala NOT NULL,

cod_reducere NUMBER(5), CONSTRAINT fk_reducere_comanda FOREIGN KEY (cod_reducere) REFERENCES REDUCERE(cod_reducere),

suma_finala FLOAT CONSTRAINT suma_finala NOT NULL,

moneda_comanda VARCHAR(50) CONSTRAINT moneda_comanda NOT NULL,

status_comanda VARCHAR(50) CONSTRAINT status_comanda NOT NULL,

adresa VARCHAR(100) CONSTRAINT adresa NOT NULL

);

INSERT INTO COMANDA VALUES

(1122,1,2,151,7,TO_DATE('20220109', 'yyyymmdd'),TO_DATE('20220115', 'yyyymmdd'),2,45.55,12345,32.34,'euro','livrata','Std Stefan cel Mare nr 45, Bacau');

INSERT INTO COMANDA VALUES

(1133,3,2,111,1,TO_DATE('20220302', 'yyyymmdd'),TO_DATE('20220314', 'yyyymmdd'),3,76.09,56789,54,'euro','livrata','Std Stefan cel Mare nr 45, Bacau');

INSERT INTO COMANDA VALUES

(1144,3,3,131,3,TO_DATE('20220423', 'yyyymmdd'),TO_DATE('20220514', 'yyyymmdd'),5,130.98,23456,121.43,'euro','livrata','Std Danescu Negru nr 2, Buzau');

INSERT INTO COMANDA VALUES

(1155,4,4,141,5,TO_DATE('20220619', 'yyyymmdd'),TO_DATE('20220620', 'yyyymmdd'),3,65.3,34567,56.99,'euro','livrata','Std Floriilor nr 5, Iasi');

INSERT INTO COMANDA VALUES

(1166,2,1,151,7,TO_DATE('20220530', 'yyyymmdd'),TO_DATE(", 'yyyymmdd'),2,43.99,12345,38.17,'euro','in curs de livrare','Std Stefan cel Mare nr 23, Bacau');

ANUL II, SERIA 24

SELECT * FROM COMANDA;

COMANDA	D_CLIENT	ID_MAGAZIN	ID_CURIER	⊕ ID_MASINA	DATA_PLASARE	⊕ DATA_SOSIRE ⊕ NR_F
1166	2	1	151	7	30-MAY-22	(null)
1122	1	2	151	7	09-JAN-22	15-JAN-22
1133	3	2	111	1	02-MAR-22	14-MAR-22
1144	3	3	131	3	23-APR-22	14-MAY-22
1155	4	4	141	5	19-JUN-22	20-JUN-22
1177	3	2	111	1	02-MAR-22	14-MAR-22

----TABEL DETALII COMANDA-----

CREATE TABLE DETALII_COMANDA (id_comandaltem NUMBER(5) CONSTRAINT PKEY_comandaITEM PRIMARY KEY,

id_comanda NUMBER(5), CONSTRAINT fk_comanda_comandaITEM FOREIGN KEY (id_comanda) REFERENCES COMANDA(id_comanda),

id_produs NUMBER(5), CONSTRAINT fk_produs_comandaITEM FOREIGN KEY (id_produs) REFERENCES PRODUS(id_produs),

cantitate INT CONSTRAINT cantitate NOT NULL

);

INSERT INTO DETALII_COMANDA VALUES

(987,1166,1111,1);

INSERT INTO DETALII_COMANDA VALUES

(876,1155,1113,2);

INSERT INTO DETALII_COMANDA VALUES

(765,1122,1116,1);

INSERT INTO DETALII_COMANDA VALUES

(654,1122,11104,1);

INSERT INTO DETALII_COMANDA VALUES

(543,1144,1118,1);

ID_COMANDAITEM			CANTITATE
987	1166	1111	1
876	1155	1113	2
765	1122	1116	1
543	1144	1118	1

SELECT * FROM DETALII_COMANDA;

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.

-----EX6-----

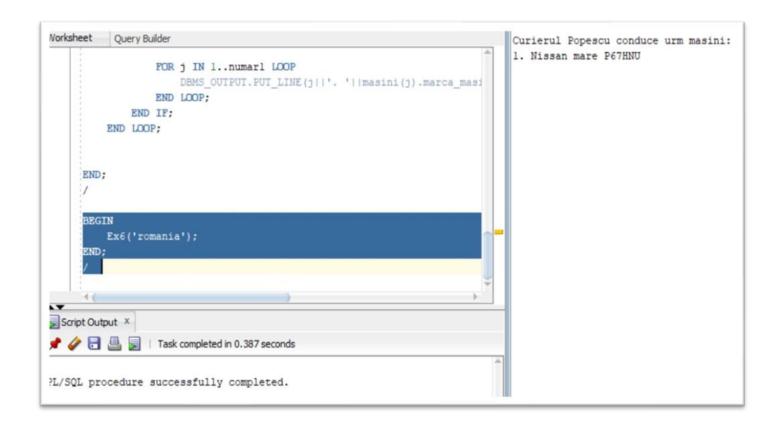
afisam pentru fiecare curier

pentru un magazin al carei tara este data vrem sa
ce masini conduc:
CREATE OR REPLACE PROCEDURE Ex6 (tara MAGAZIN.tara_magazin%TYPE)
AS
TYPE tabel_idx IS TABLE OF masina%rowtype INDEX BY PLS_INTEGER;
masini tabel_idx;
TYPE angajat_rec is RECORD(
id_angajat angajat.id_angajat%TYPE,
id_magazin angajat.id_magazin%TYPE,
nume angajat.nume_angajat%TYPE,
prenume angajat.prenume_angajat%TYPE,
functie angajat.functie%TYPE);
TYPE my_nested_table IS TABLE OF angajat_rec;
angajati my_nested_table := my_nested_table();
numar NUMBER(6);
numar1 NUMBER(6);
BEGIN
SELECT COUNT(*)
INTO numar

```
ANUL II, SERIA 24
  FROM angajat
  WHERE functie = 'curier';
  angajati.extend(numar + 1);
  SELECT a.id_angajat,a.id_magazin, a.nume_angajat, a.prenume_angajat, a.functie
  BULK COLLECT INTO angajati
  FROM angajat a, magazin s
  WHERE a.functie = 'curier' and a.id_magazin=s.id_magazin AND UPPER(s.tara_magazin) LIKE UPPER(tara);
  FOR i IN angajati.first..angajati.last LOOP
    DBMS_OUTPUT.PUT_LINE('Curierul'||angajati(i).nume||' conduce urm masini:');
    SELECT COUNT(*)
    INTO numar1
    FROM masina m
    WHERE m.id_curier = angajati(i).id_angajat;
    IF numar1 = 0 THEN
      DBMS_OUTPUT.PUT_LINE('nu are inca masina');
    END IF;
    IF numar1 > 0 THEN
      SELECT *
      BULK COLLECT INTO masini
      FROM masina m
      WHERE m.id_curier = angajati(i).id_angajat;
      FOR j IN 1..numar1 LOOP
        DBMS_OUTPUT.PUT_LINE(j||'.'||masini(j).marca_masina||''||masini(j).tip_masina||''||masini(j).nr_matricol);
      END LOOP;
    END IF;
  END LOOP;
```

```
ANUL II, SERIA 24
END;

/
BEGIN
Ex6('romania');
END;
/
```



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.

-----EX7---------sa se afiseze pentru fiecare magazin angajatii care au peste varsta data
----daca nu exista angajati care sa aibe peste varsta respectiva se afiseaza un mesaj

CREATE OR REPLACE PROCEDURE Ex7 (age angajat.varsta_angajat%TYPE) AS **CURSOR** magazine IS SELECT tara_magazin, id_magazin FROM MAGAZIN; m magazine%ROWTYPE; CURSOR angajati(id_m MAGAZIN.ID_MAGAZIN%TYPE) IS SELECT nume_angajat, prenume_angajat, functie FROM ANGAJAT a WHERE a.varsta_angajat >= age AND a.id_magazin = id_m; a angajati%ROWTYPE; numar NUMBER(6); **BEGIN** FOR m in magazine LOOP DBMS_OUTPUT.PUT_LINE('Magazinul din ' | | m.tara_magazin); DBMS_OUTPUT.PUT_LINE('-----'); **UPDATE** angajat SET varsta_angajat = varsta_angajat + 0 WHERE angajat.varsta_angajat >= age and angajat.id_magazin = m.id_magazin; if SQL%FOUND THEN FOR a in angajati(m.id_magazin) LOOP

```
ANUL II, SERIA 24

DBMS_OUTPUT_LINE( a.nume_angajat | | ' ' | | a.prenume_angajat | | ' ' | | a.functie);

END LOOP;

ELSE DBMS_OUTPUT.PUT_LINE('Nu s-a gasit niciun angajat.');

END IF;

DBMS_OUTPUT.NEW_LINE;

DBMS_OUTPUT.NEW_LINE;

END LOOP;

END;

/

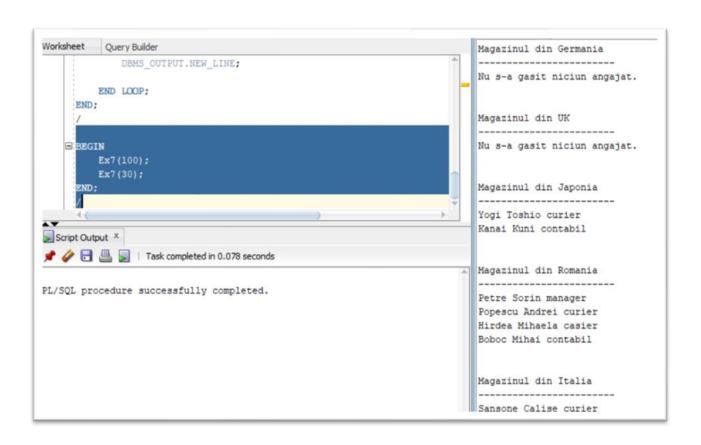
BEGIN

Ex7(100);

Ex7(30);

END;

/
```



ANUL II, SERIA 24

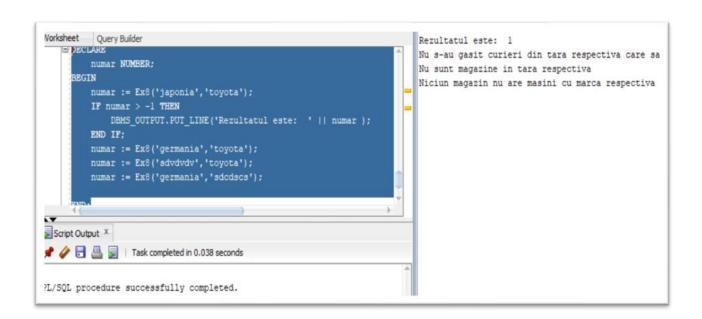
END IF;

8. Formulați în limbaj natural o problemă pe care să o rezolvați folosind un subprogram stocat independent de tip functie care să utilizeze într-o singură comandă SQL3 dintre tabelele definite. Definiți minim 2 excepții. Apelați subprogramul astfel încât să evidențiați toate cazurile tratate.

	EX8
	pentru o tara si o marca data sa se afiseze cati curieri care lucreaza
	pt magazinul din tara data conduc o masina de marca respectiva
2	REATE OR REPLACE FUNCTION Ex8(tara magazin.tara_magazin%TYPE, marca masina.marca_masina%TYPE) RETURN NUMBER
S	
	nr_curieri NUMBER;
	TYPE tab1 is table of magazin%ROWTYPE INDEX BY PLS_INTEGER;
	t tab1;
	TYPE tab2 is table of masina%ROWTYPE INDEX BY PLS_INTEGER;
	m tab2;
	exceptii
	TARA_DOESNT_EXIST EXCEPTION;
	MARCA_DOESNT_EXIST EXCEPTION;
	NO_DATA_FOUND EXCEPTION;
3	EGIN
	SELECT *
	BULK COLLECT INTO t
	FROM magazin m
	WHERE upper(m.tara_magazin) like upper(tara);
	IF SQL%NOTFOUND THEN
	RAISE TARA_DOESNT_EXIST;

```
Sisteme de Gestiune a Bazelor de Date
ANUL II, SERIA 24
  SELECT *
  BULK COLLECT INTO m
  FROM masina m
  WHERE upper(m.marca_masina) like upper(marca);
  IF SQL%NOTFOUND THEN
    RAISE MARCA_DOESNT_EXIST;
  END IF;
  select count(nume_angajat)
  into nr_curieri
  from angajat a
  join magazin m on a.id_magazin = m.id_magazin
  join masina n on n.id_curier = a.id_angajat
  where upper(m.tara_magazin) like upper(tara) and upper(n.marca_masina) like upper(marca);
  IF nr_curieri = 0 THEN
    RAISE NO_DATA_FOUND;
  ELSE RETURN nr_curieri;
  END IF;
  EXCEPTION
    WHEN TARA_DOESNT_EXIST THEN
      DBMS_OUTPUT.PUT_LINE('Nu sunt magazine in tara respectiva');
      RETURN -1;
    WHEN MARCA_DOESNT_EXIST THEN
      DBMS_OUTPUT.PUT_LINE('Niciun magazin nu are masini cu marca respectiva');
      RETURN -1;
    WHEN NO_DATA_FOUND THEN
      DBMS_OUTPUT.PUT_LINE('Nu s-au gasit curieri din tara respectiva care sa conduca masini de marca respectiva');
      RETURN -1;
    WHEN OTHERS THEN
      DBMS_OUTPUT.PUT_LINE('Codul de eroare: ' | | SQLCODE);
```

```
ANUL II, SERIA 24
      DBMS_OUTPUT.PUT_LINE('Mesajul erorii: ' || SQLERRM);
      RETURN -1;
END;
DECLARE
  numar NUMBER;
BEGIN
  numar := Ex8('japonia','toyota');
  IF numar > -1 THEN
    DBMS_OUTPUT.PUT_LINE('Rezultatul este: ' || numar );
  END IF;
  numar := Ex8('germania','toyota');
  numar := Ex8('sdvdvdv','toyota');
  numar := Ex8('germania','sdcdscs');
END;
/
```

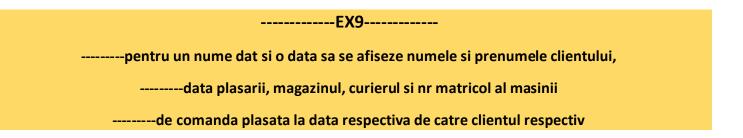


ANUL II, SERIA 24

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.

INSERT INTO COMANDA VALUES

(1177,3,2,111,1,TO_DATE('20220302', 'yyyymmdd'),TO_DATE('20220314', 'yyyymmdd'),3,76.09,56789,54,'euro','livrata','Std Stefan cel Mare nr 45, Bacau');
select * from client;
select * from comanda;



CREATE OR REPLACE PROCEDURE Ex9(nume client.nume_client%type, prenume client.prenume_client%type, data comanda.data_plasare%type)

AS

```
TYPE table1 IS TABLE OF client%rowtype INDEX BY PLS_INTEGER;
tab1 table1;

TYPE table2 IS TABLE OF comanda%rowtype INDEX BY PLS_INTEGER;
tab2 table2;

TYPE table3 IS TABLE OF comanda.id_comanda%type INDEX BY PLS_INTEGER;
tab3 table3;

CURSOR comanda_detalii is

select nume_client, prenume_client, data_plasare, tara_magazin, nume_angajat, prenume_angajat, nr_matricol from comanda co
join client cl on (co.id_client = cl.id_client)
```

join magazin m on (co.id_magazin = m.id_magazin)

```
Sisteme de Gestiune a Bazelor de Date
ANUL II, SERIA 24
   join angajat a on (co.id_curier = a.id_angajat)
   join masina ms on (co.id_masina = ms.id_masina);
  temp comanda_detalii%rowtype;
  NO_DATA_FOUND1 EXCEPTION;
  NO_DATA_FOUND2 EXCEPTION;
  NO_DATA_FOUND3 EXCEPTION;
  TOO_MANY_ROWS1 EXCEPTION;
  TOO_MANY_ROWS2 EXCEPTION;
BEGIN
  SELECT *
  BULK COLLECT INTO tab1
  FROM client c
  WHERE UPPER(c.nume_client) = UPPER(nume) AND UPPER(c.prenume_client) = UPPER(prenume)
  IF SQL%NOTFOUND THEN
   RAISE NO_DATA_FOUND1;
  END IF;
  IF tab1.count >= 2 THEN
   RAISE TOO_MANY_ROWS1;
  END IF;
  SELECT *
  BULK COLLECT INTO tab2
  FROM comanda c
  WHERE c.data_plasare = data;
 IF SQL%NOTFOUND THEN
   RAISE NO_DATA_FOUND2;
  END IF;
  SELECT id_comanda
  BULK COLLECT INTO tab3
```

FROM comanda c

```
Sisteme de Gestiune a Bazelor de Date
ANUL II, SERIA 24
  JOIN client cl ON (c.id_client = cl.id_client)
  WHERE c.data_plasare = data AND UPPER(cl.nume_client) = UPPER(nume) AND UPPER(cl.prenume_client) = UPPER(prenume);
  IF SQL%NOTFOUND THEN
   RAISE NO DATA FOUND3;
  END IF;
  IF tab3.count >= 2 THEN
   RAISE TOO_MANY_ROWS2;
  END IF;
  select nume_client, prenume_client, data_plasare, tara_magazin, nume_angajat, prenume_angajat, nr_matricol
  into temp
  from comanda co
  join client cl on (co.id client = cl.id client)
  join magazin m on (co.id_magazin = m.id_magazin)
  join angajat a on (co.id_curier = a.id_angajat)
  join masina ms on (co.id_masina = ms.id_masina)
  where upper(cl.nume_client) like upper(nume) and upper(cl.prenume_client) like upper(prenume) and co.data_plasare = data;
  IF SQL%NOTFOUND THEN
   RAISE NO_DATA_FOUND3;
  END IF;
  DBMS_OUTPUT.PUT_LINE(temp.nume_client||''|| temp.prenume_client||''|| temp.data_plasare||''||
temp.tara_magazin | | ' ' | | temp.nume_angajat | | ' ' | | temp.prenume_angajat | | ' ' | | temp.nr_matricol);
  EXCEPTION
   WHEN NO_DATA_FOUND1 THEN
      DBMS_OUTPUT.PUT_LINE('Nu exista clienti care sa aiba acest nume!');
   WHEN NO_DATA_FOUND2 THEN
      DBMS_OUTPUT.PUT_LINE('Nu s-a plasat nicio comanda la aceasta data!');
   WHEN NO_DATA_FOUND3 THEN
      DBMS_OUTPUT.PUT_LINE('Clientul acesta nu a plasat nicio comanda la data data!');
   WHEN TOO_MANY_ROWS1 THEN
      DBMS_OUTPUT.PUT_LINE('Exista mai multi clienti cu acest nume!');
   WHEN TOO_MANY_ROWS2 THEN
      DBMS_OUTPUT_LINE('Clientul acesta a plasat mai multe comenzi la data respectiva!');
```

WHEN OTHERS THEN

```
ANUL II, SERIA 24
DBMS_OUTPUT.PUT_LINE('Codul de eroare: ' || SQLCODE);
DBMS_OUTPUT.PUT_LINE('Mesajul erorii: ' || SQLERRM);

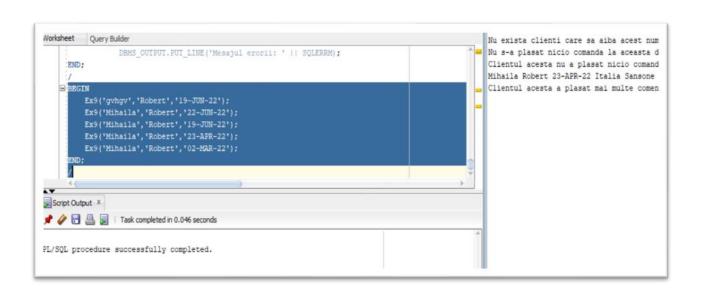
END;

/

BEGIN

Ex9('gvhgv','Robert','19-JUN-22');
Ex9('Mihaila','Robert','22-JUN-22');
Ex9('Mihaila','Robert','19-JUN-22');
Ex9('Mihaila','Robert','23-APR-22');
Ex9('Mihaila','Robert','02-MAR-22');
END;

/
```



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

```
------EX10-----

-----Trigger care nu permite actualizarea tabelului REDUCERE

------decat de la 8:00 pana la 21:00, de luni pana sambata

CREATE OR REPLACE TRIGGER Ex10

BEFORE INSERT OR UPDATE OR DELETE ON reducere
```

BEGIN

IF (TO_CHAR(SYSDATE,'D') = 1) OR (TO_CHAR(SYSDATE,'HH24') NOT BETWEEN 8 AND 20)

THEN

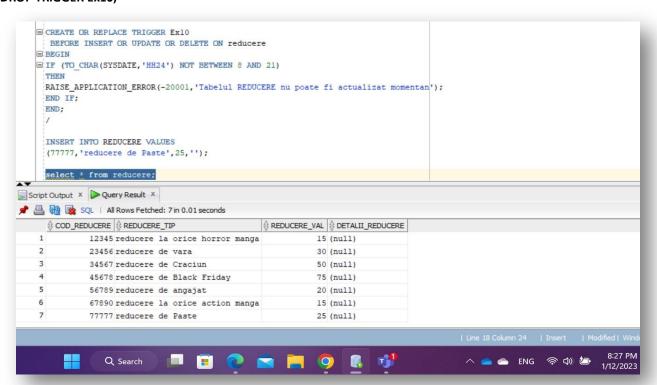
RAISE_APPLICATION_ERROR(-20001, 'Tabelul REDUCERE nu poate fi actualizat momentan');

END IF;

END;

/

DROP TRIGGER Ex10;



```
CREATE OR REPLACE TRIGGER Ex10
      BEFORE INSERT OR UPDATE OR DELETE ON reducere
    □ IF (TO CHAR(SYSDATE, 'D') = 1) OR (TO CHAR(SYSDATE, 'HH24') NOT BETWEEN 8 AND 20)
     RAISE APPLICATION ERROR (-20001, 'Tabelul REDUCERE nu poate fi actualizat momentan');
     END IF:
     END;
      INSERT INTO REDUCERE VALUES
      (55555, 'reducere de Paste', 25, '');
      select * from reducere;
Script Output X Query Result X
🎤 🥒 🔚 💂 📗 | Task completed in 0.073 seconds
Error starting at line : 15 in command -
INSERT INTO REDUCERE VALUES
(55555, 'reducere de Paste', 25, '')
Error report -
ORA-20001: Tabelul REDUCERE nu poate fi actualizat momentan
ORA-06512: at "C##BRIANAUSER.EX10", line 4
ORA-04088: error during execution of trigger 'C##BRIANAUSER.EX10'
```

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

INSERT INTO COMANDA VALUES

(9999,3,2,111,1,TO_DATE('20220302', 'yyyymmdd'),TO_DATE('20220314', 'yyyymmdd'),3,76.09,56789,54,'euro','livrata','Std Stefan cel Mare nr 45, Bacau');

select * from comanda;

INSERT INTO DETALII_COMANDA VALUES

(999,9999,1118,1);

select * from detalii_comanda;

-----EX11-----

-----Trigger care sterge automat toate randurile din tabelul detalii_comanda

-----care au legatura cu o comanda stearsa din bd

CREATE OR REPLACE TRIGGER Ex11

AFTER DELETE ON comanda FOR EACH ROW

declare

id_temp number;

begin

id_temp := :OLD.id_comanda;

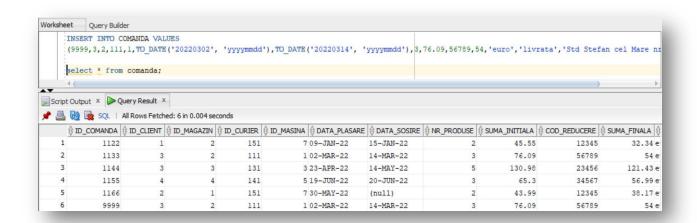
delete from detalii_comanda where id_comanda = id_temp;

END;

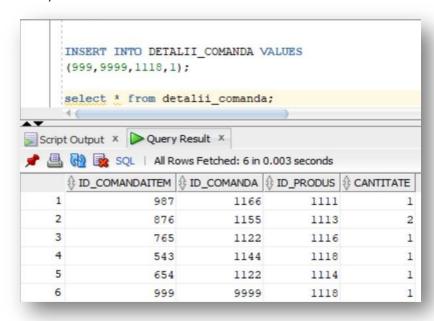
DELETE FROM comanda WHERE id_comanda = 9999;

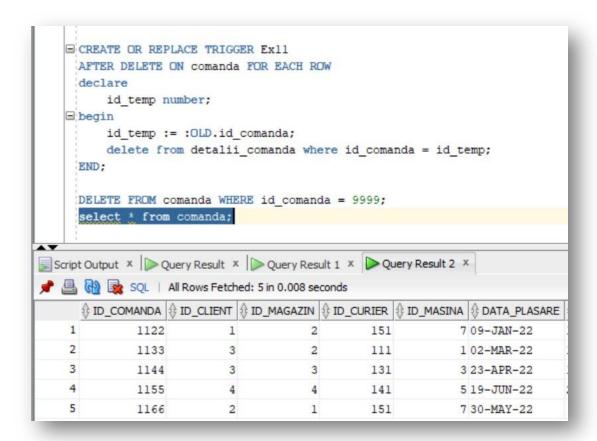
select * from comanda;

select * from detalii_comanda;

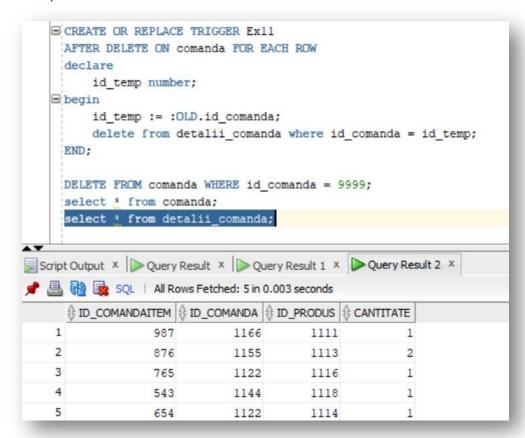


ANUL II, SERIA 24





ANUL II, SERIA 24



12. Definiți un trigger de tip LDD. Declanșați trigger-ul.

```
------EX12-----
-----Trigger de tip LDD care se declanseaza de fiecare data cand se executa operatii
------ALTER, DROP SAU CREATE
------pentru a testa daca merge vom stoca informatiile intr-un tabel separat

CREATE TABLE LDD_info( utilizator VARCHAR2(50),
baza_de_date VARCHAR2(50),
eveniment VARCHAR2(50),
nume_obj VARCHAR2(50),
tip_obj VARCHAR2(50),
data_realizare DATE
};

SELECT * FROM LDD_info;
```

ANUL II, SERIA 24

CREATE OR REPLACE TRIGGER Ex12

AFTER CREATE OR ALTER OR DROP ON SCHEMA

BEGIN

INSERT INTO LDD_info

VALUES(SYS.LOGIN_USER, SYS.DATABASE_NAME, SYS.SYSEVENT, SYS.DICTIONARY_OBJ_NAME, SYS.DICTIONARY_OBJ_TYPE, SYSDATE);

END;

/

CREATE TABLE LOCUINTE (id_locuinta NUMBER(6) CONSTRAINT id_locuinta_pk PRIMARY KEY,

nume_proprietar VARCHAR2(100),

oras VARCHAR2(100));

select * from LOCUINTE;

ALTER TABLE LOCUINTE

ADD (prenume proprietar VARCHAR2(100));

ALTER TABLE LOCUINTE

DROP COLUMN prenume_proprietar;

DROP TABLE LOCUINTE;

SELECT * FROM LDD_info;

```
CREATE TABLE LDD_info( utilizator VARCHAR2(50),
                       baza_de_date VARCHAR2(50),
                       eveniment VARCHAR2(50),
                       nume_obj VARCHAR2(50),
                       tip_obj VARCHAR2(50),
                        data_realizare DATE
                     );
    SELECT * FROM LDD_info;
   CREATE OR REPLACE TRIGGER Ex12
       AFTER CREATE OR ALTER OR DROP ON SCHEMA
       INSERT INTO LDD_info
       VALUES (SYS.LOGIN USER, SYS.DATABASE NAME, SYS.SYSEVENT, SYS.DICTIONARY_OBJ_NAME, SYS.DICTIONARY_OBJ_TYPE, SYSDATE);
    END:
Script Output X Query Result X Query Result 1 X
📌 🖺 🙀 🗽 SQL | All Rows Fetched: 5 in 0.003 seconds
   1 C##BRIANAUSER XE CREATE ID_LOCUINTA_PK INDEX 12-JAN-23
   2 C##BRIANAUSER XE CREATE LOCUINTE TABLE 12-JAN-23
   3 C##BRIANAUSER XE ALTER LOCUINTE TABLE 12-JAN-23
   4 C##BRIANAUSER XE
                       ALTER LOCUINTE TABLE 12-JAN-23
   5 C##BRIANAUSER XE
                          DROP
                                   LOCUINTE
                                               TABLE 12-JAN-23
```