Gestionarea unui lant hotelier
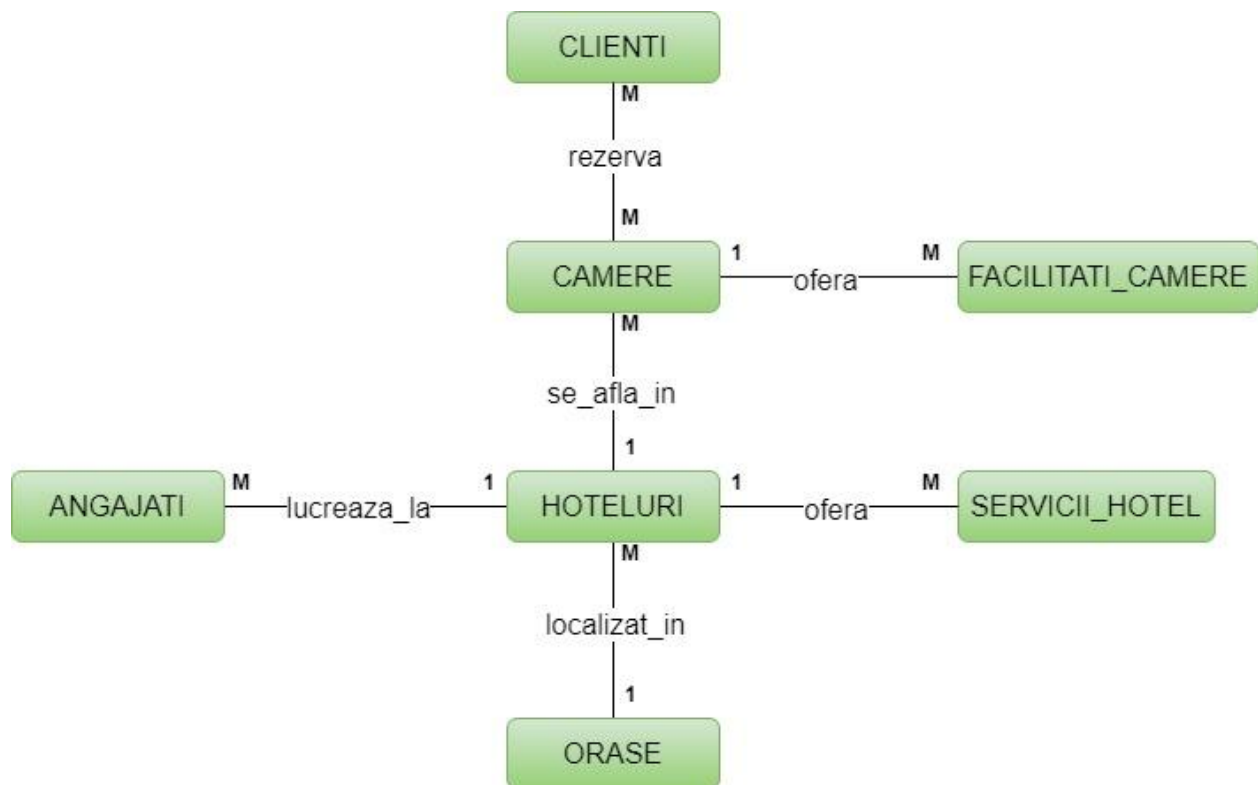# Realizat de: Flutur Angelica-Costela, grupa 241

1. Prezentarea bazei de date

Acest proiect prezinta proiectarea unei baze de date pentru un lant hotelier.
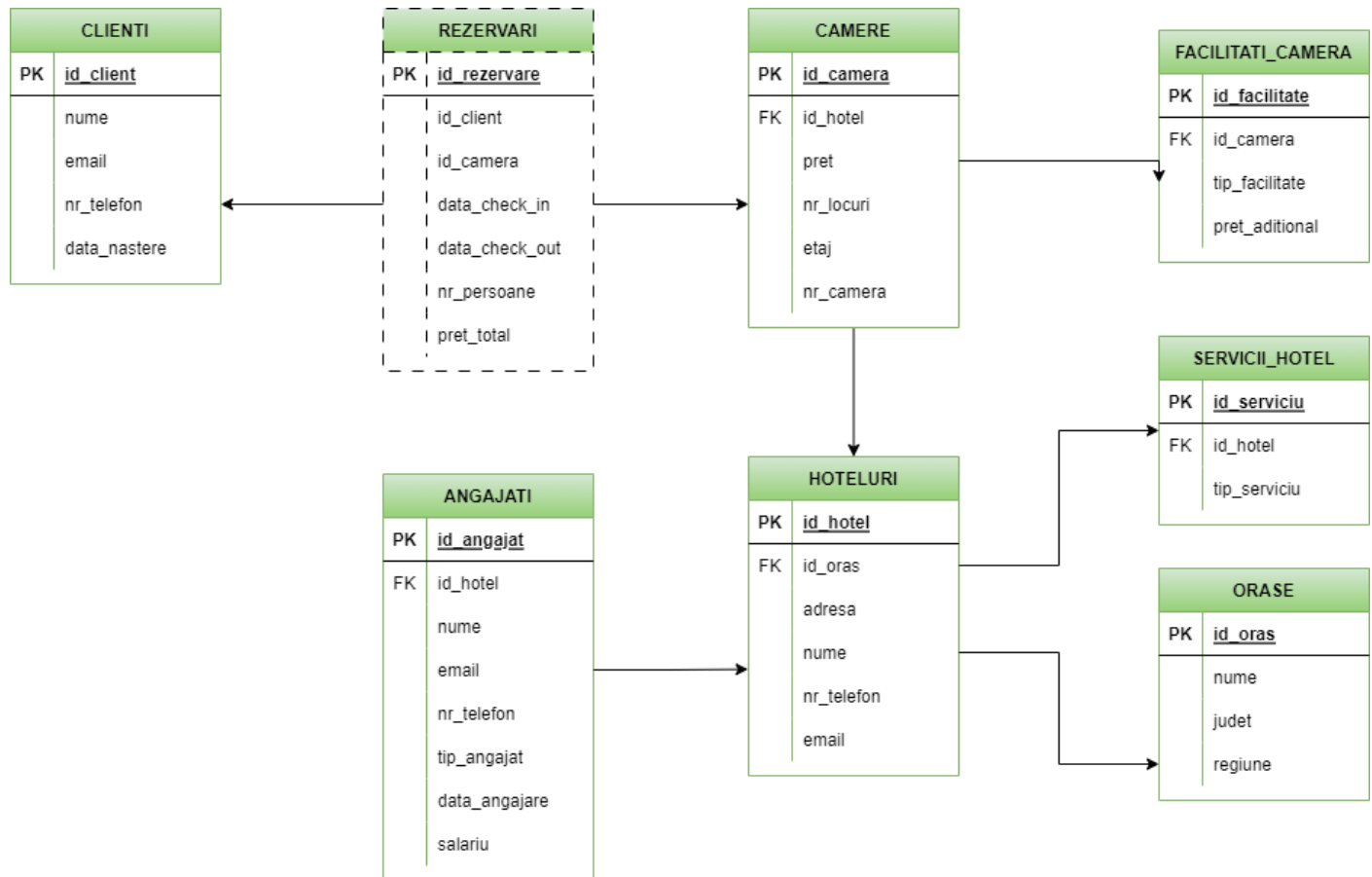
Aceasta baza de date contine informatii despre hotelurile inregistrate, cum ar fi numele, orasul si strada in care se afla, angajati, camere, serviciile oferite de hotel precum si facilitatile disponibile din fiecare camera care vin cu un pret aditional.

Aceasta baza de date ne ofera posibilitatea de a efectua rezervari pentru camerele dorite de client.

2. Diagrama entitate-relatie (ERD)

3. Diagrama conceptuala

4. Crearea tabelelor

```sql
CREATE TABLE orase (
    id_oras NUMBER PRIMARY KEY,
    nume         VARCHAR2(200),
    judet        VARCHAR2(200),
    regiune      VARCHAR2(200)
);

CREATE TABLE hoteluri (
    id_hotel      NUMBER PRIMARY KEY,
    id_oras NUMBER,
    adresa        VARCHAR2(200),
    nume          VARCHAR2(200),
    nr_telefon    VARCHAR2(11),
    email         VARCHAR2(200),
```

```sql
    FOREIGN KEY ( id_oras )
        REFERENCES orase ( id_oras )
            ON DELETE SET NULL
);

CREATE TABLE camere (
    id_camera       NUMBER PRIMARY KEY,
    id_hotel        NUMBER,
    pret            DECIMAL(10, 2),
    nr_locuri       NUMBER,
    etaj            NUMBER,
    nr_camera       NUMBER,
    FOREIGN KEY ( id_hotel )
        REFERENCES hoteluri ( id_hotel )
            ON DELETE SET NULL
);

CREATE TABLE angajati (
    id_angajat   NUMBER PRIMARY KEY,
    id_hotel     NUMBER,
    nume         VARCHAR2(200),
    email        VARCHAR2(200),
    nr_telefon   VARCHAR2(200),
    tip_angajat  VARCHAR2(200) CHECK (tip_angajat IN ('manager',
'receptioner')),
    data_angajare DATE,
    salariu NUMBER,
    FOREIGN KEY (id_hotel) REFERENCES hoteluri (id_hotel) ON DELETE SET
NULL
);

CREATE TABLE clienti (
    id_client    NUMBER PRIMARY KEY,
    nume         VARCHAR2(200),
    email        VARCHAR2(200),
    nr_telefon   VARCHAR2(200),
    data_nastere DATE
);

CREATE TABLE rezervari (
```

```sql
    id_rezervare   NUMBER PRIMARY KEY,
    id_client      NUMBER,
    id_camera      NUMBER,
    data_check_in  DATE,
    data_check_out DATE,
    nr_persoane NUMBER,
    pret_total     DECIMAL(10, 2),
    FOREIGN KEY ( id_client )
        REFERENCES clienti ( id_client )
            ON DELETE SET NULL,
    FOREIGN KEY ( id_camera )
        REFERENCES camere ( id_camera )
            ON DELETE SET NULL
);

CREATE TABLE facilitati_camera (
    id_facilitate  NUMBER PRIMARY KEY,
    id_camera      NUMBER,
    tip_facilitate  VARCHAR2(200) CHECK (tip_facilitate IN ('uscator de
par', 'fier de calcat', 'WI-FI', 'aer conditionat', 'TV')),
    pret_aditional DECIMAL(10, 2),
    FOREIGN KEY ( id_camera )
        REFERENCES camere ( id_camera )
            ON DELETE SET NULL
);

CREATE TABLE servicii_hotel (
    id_serviciu  NUMBER PRIMARY KEY,
    id_hotel     NUMBER,
    tip_serviciu  VARCHAR2(200) CHECK (tip_serviciu IN ('parcare',
'restaurant', 'room service', 'sala fitness', 'spa')),
    FOREIGN KEY ( id_hotel )
        REFERENCES hoteluri ( id_hotel )
            ON DELETE SET NULL
);
```

5. Inserarea datelor

```sql
-- - - - - ORASE - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - -
-- Muntenia
INSERT INTO orase (id_oras, nume, judet, regiune) VALUES
(seq_orase.nextval, 'Bucuresti', 'Bucuresti', 'Muntenia');
INSERT INTO orase (id_oras, nume, judet, regiune) VALUES
(seq_orase.nextval, 'Ploiesti', 'Prahova', 'Muntenia');
INSERT INTO orase (id_oras, nume, judet, regiune) VALUES
(seq_orase.nextval, 'Braila', 'Braila', 'Muntenia');
INSERT INTO orase (id_oras, nume, judet, regiune) VALUES
(seq_orase.nextval, 'Pitesti', 'Arges', 'Muntenia');
INSERT INTO orase (id_oras, nume, judet, regiune) VALUES
(seq_orase.nextval, 'Buzau', 'Buzau', 'Muntenia');


--Transilvania
INSERT INTO orase (id_oras, nume, judet, regiune) VALUES
(seq_orase.nextval, 'Cluj-Napoca', 'Cluj', 'Transilvania');
INSERT INTO orase (id_oras, nume, judet, regiune) VALUES
(seq_orase.nextval, 'Brasov', 'Brasov', 'Transilvania');
INSERT INTO orase (id_oras, nume, judet, regiune) VALUES
(seq_orase.nextval, 'Targu Mures', 'Mures', 'Transilvania');
INSERT INTO orase (id_oras, nume, judet, regiune) VALUES
(seq_orase.nextval, 'Sibiu', 'Sibiu', 'Transilvania');


--Moldova
INSERT INTO orase (id_oras, nume, judet, regiune) VALUES
(seq_orase.nextval, 'Iasi', 'Iasi', 'Moldova');
INSERT INTO orase (id_oras, nume, judet, regiune) VALUES
(seq_orase.nextval, 'Galati', 'Galati', 'Moldova');
INSERT INTO orase (id_oras, nume, judet, regiune) VALUES
(seq_orase.nextval, 'Bacau', 'Bacau', 'Moldova');
INSERT INTO orase (id_oras, nume, judet, regiune) VALUES
(seq_orase.nextval, 'Botosani', 'Botosani', 'Moldova');


SELECT * FROM orase;
```

	ID_ORAS	NUME	JUDET	REGIUNE
1	1	Bucuresti	Bucuresti	Muntenia
2	2	Ploiesti	Prahova	Muntenia
3	3	Braila	Braila	Muntenia
4	4	Pitesti	Arges	Muntenia
5	5	Buzau	Buzau	Muntenia
6	6	Cluj-Napoca	Cluj	Transilvania
7	7	Brasov	Brasov	Transilvania
8	8	Targu Mures	Mures	Transilvania
9	9	Sibiu	Sibiu	Transilvania
10	10	Iasi	Iasi	Moldova
11	11	Galati	Galati	Moldova
12	12	Bacau	Bacau	Moldova
13	13	Botosani	Botosani	Moldova

```sql
-- - - - - HOTELURI - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - -
INSERT INTO hoteluri (id_hotel, id_oras, adresa, nume, nr_telefon, email)
VALUES
(seq_hoteluri.nextval, 1, 'Str. Primaverii, Nr. 4', 'Hotel Ambiance',
'0789541124', 'hotelambiance@gmail.com');
INSERT INTO hoteluri (id_hotel, id_oras, adresa, nume, nr_telefon, email)
VALUES
(seq_hoteluri.nextval, 2, 'Str. Libertatii, Nr. 32', 'Hotel Aurora',
'0715487966', 'hotelaurora@gmail.com');
INSERT INTO hoteluri (id_hotel, id_oras, adresa, nume, nr_telefon, email)
VALUES
(seq_hoteluri.nextval, 3, 'Str. Aurora, Nr. 43', 'Hotel Dunarea',
'0723456789', 'hoteldunarea@gmail.com');
INSERT INTO hoteluri (id_hotel, id_oras, adresa, nume, nr_telefon, email)
VALUES
(seq_hoteluri.nextval, 4, 'Str. Mihai Eminescu, Nr. 7', 'Hotel Splendid',
'0734567890', 'hotelsplendid@gmail.com');
INSERT INTO hoteluri (id_hotel, id_oras, adresa, nume, nr_telefon, email)
VALUES
(seq_hoteluri.nextval, 5, 'Str. Florilor, Nr. 124', 'Hotel Paradis',
'0745678901', 'hotelparadis@gmail.com');
INSERT INTO hoteluri (id_hotel, id_oras, adresa, nume, nr_telefon, email)
VALUES
(seq_hoteluri.nextval, 6, 'Str. Revolutiei, Nr. 63', 'Hotel Elegance',
'0756789012', 'hotelelegance@gmail.com');
```

```sql
INSERT INTO hoteluri (id_hotel, id_oras, adresa, nume, nr_telefon, email)
VALUES
(seq_hoteluri.nextval, 7, 'Str. Victoriei, Nr. 11', 'Hotel Panorama',
'0767890123', 'hotelpanorama@gmail.com');
INSERT INTO hoteluri (id_hotel, id_oras, adresa, nume, nr_telefon, email)
VALUES
(seq_hoteluri.nextval, 8, 'Str. Trandafirilor, Nr. 55', 'Hotel Miralux',
'0778901234', 'hotelmiralux@gmail.com');
INSERT INTO hoteluri (id_hotel, id_oras, adresa, nume, nr_telefon, email)
VALUES
(seq_hoteluri.nextval, 9, 'Str. Crinilor, Nr. 72', 'Hotel Olimpia',
'0801234567', 'hotelolimpia@gmail.com');
INSERT INTO hoteluri (id_hotel, id_oras, adresa, nume, nr_telefon, email)
VALUES
(seq_hoteluri.nextval, 10, 'Str. Aleea Parcului, Nr. 23', 'Hotel Diamant',
'0790123456', 'hoteldiamant@gmail.com');

select * from hoteluri;
```

	ID_HOTEL	ID_ORAS	ADRESA	NUME	NR_TELEFON	EMAIL
1	11	(null)	(null)	Hotel Dunarea	(null)	(null)
2	1	1	Str. Primaverii, Nr. 4	Hotel Ambiance	0789541124	hotelambiance@gmail.com
3	2	2	Str. Libertatii, Nr. 32	Hotel Aurora	0715487966	hotelaurora@gmail.com
4	3	3	Str. Aurora, Nr. 43	Hotel Dunarea	0723456789	hoteldunarea@gmail.com
5	4	4	Str. Mihai Eminescu, Nr. 7	Hotel Splendid	0734567890	hotelsplendid@gmail.com
6	5	5	Str. Florilor, Nr. 124	Hotel Paradis	0745678901	hotelparadis@gmail.com
7	6	6	Str. Revolutiei, Nr. 63	Hotel Elegance	0756789012	hotelelegance@gmail.com
8	7	7	Str. Victoriei, Nr. 11	Hotel Panorama	0767890123	hotelpanorama@gmail.com
9	8	8	Str. Trandafirilor, Nr. 55	Hotel Miralux	0778901234	hotelmiralux@gmail.com
10	9	9	Str. Crinilor, Nr. 72	Hotel Olimpia	0801234567	hotelolimpia@gmail.com
11	10	10	Str. Aleea Parcului, Nr. 23	Hotel Diamant	0790123456	hoteldiamant@gmail.com

```sql
-- - - - - Angajati - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - -
-- 1
INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 1, 'Ana Maria Popescu',
'ana.popescu@gmail.com', '1234', 'manager', TO_DATE('2015-05-01',
'YYYY-MM-DD'), 3500);

INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 1, 'Andrei Popa', 'andrei.popa@gmail.com',
'1234', 'receptioner', TO_DATE('2016-07-01', 'YYYY-MM-DD'), 2500);
```

```sql
-- 2
INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 2, 'Elena Ionescu',
'elena.ionescu@gmail.com', '1234', 'manager', TO_DATE('2021-08-01',
'YYYY-MM-DD'), 5000);

INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 2, 'Ion Munteanu', 'ion.munteanu@gmail.com',
'1234', 'receptioner', TO_DATE('2022-06-01', 'YYYY-MM-DD'), 4500);

-- 3
INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 3, 'Gabriela Stoica',
'gabriela.stoica@gmail.com', '1234', 'manager', TO_DATE('2019-02-01',
'YYYY-MM-DD'), 5000);

INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 3, 'Vlad Stanescu',
'vlad.stanescu@gmail.com', '1234', 'receptioner', TO_DATE('2016-04-01',
'YYYY-MM-DD'), 4500);

-- 4
INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 4, 'Adriana Dumitru',
'adriana.dumitru@gmail.com', '1234', 'manager', TO_DATE('2018-06-01',
'YYYY-MM-DD'), 4000);

INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 4, 'Alexandru Iancu',
'alexandru.iancu@gmail.com', '1234', 'receptioner', TO_DATE('2022-08-01',
'YYYY-MM-DD'), 3000);

-- 5
```

```sql
INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 5, 'Maria Radu', 'maria.radu@gmail.com',
'1234', 'manager', TO_DATE('2017-07-01', 'YYYY-MM-DD'), 4000);

INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 5, 'Florin Manea', 'florin.manea@gmail.com',
'1234', 'receptioner', TO_DATE('2019-11-01', 'YYYY-MM-DD'), 3800);

-- 6
INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 6, 'Ioana Tudor', 'ioana.tudor@gmail.com',
'1234', 'manager', TO_DATE('2020-09-01', 'YYYY-MM-DD'), 4000);

INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 6, 'Cristian Dumitrescu',
'cristian.dumitrescu@gmail.com', '1234', 'receptioner',
TO_DATE('2021-02-01', 'YYYY-MM-DD'), 4000);

-- 7
INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 7, 'Alina Mihai', 'alina.mihai@gmail.com',
'1234', 'manager', TO_DATE('2018-07-01', 'YYYY-MM-DD'), 3800);

INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 7, 'Gabriel Cojocaru',
'gabriel.cojocaru@gmail.com', '1234', 'receptioner', TO_DATE('2016-06-01',
'YYYY-MM-DD'), 3600);

-- 8
INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 8, 'Daniela Vasilescu',
'daniela.vasilescu@gmail.com', '1234', 'manager', TO_DATE('2019-09-01',
'YYYY-MM-DD'), 3200);
```

```sql
INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 8, 'Radu Gheorghe',
'radu.gheorghe@gmail.com', '1234', 'receptioner', TO_DATE('2021-06-01',
'YYYY-MM-DD'), 3500);

-- 9
INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 9, 'Ruxandra Andrei',
'ruxandra.andrei@gmail.com', '1234', 'manager', TO_DATE('2015-10-01',
'YYYY-MM-DD'), 3200);

INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 9, 'Marius Neagu', 'marius.neagu@gmail.com',
'1234', 'receptioner', TO_DATE('2017-12-01', 'YYYY-MM-DD'), 3500);

-- 10
INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 10, 'Andreea Ciobanu',
'andreea.ciobanu@gmail.com', '1234', 'manager', TO_DATE('2019-07-01',
'YYYY-MM-DD'), 5600);

INSERT INTO angajati (id_angajat, id_hotel, nume, email, nr_telefon,
tip_angajat, data_angajare, salariu)
VALUES (seq_angajati.nextval, 10, 'Adrian Preda',
'adrian.preda@gmail.com', '1234', 'receptioner', TO_DATE('2019-05-01',
'YYYY-MM-DD'), 5500);

select * from angajati;
```

	ID_ANGAJAT	ID_HOTEL	NUME	EMAIL	NR_TELEFON	TIP_ANGAJAT	DATA_ANGAJARE	SALARIU
1	21	1	Ana Maria Popescu	ana.popescu@gmail.com	1234	manager	01-MAY-15	3500
2	22	1	Andrei Popa	andrei.popa@gmail.com	1234	receptioner	01-JUL-16	2500
3	23	2	Elena Ionescu	elena.ionescu@gmail.com	1234	manager	01-AUG-21	5000
4	24	2	Ion Munteanu	ion.munteanu@gmail.com	1234	receptioner	01-JUN-22	4500
5	25	3	Gabriela Stoica	gabriela.stoica@gmail.com	1234	manager	01-FEB-19	5000
6	26	3	Vlad Stanescu	vlad.stanescu@gmail.com	1234	receptioner	01-APR-16	4500
7	27	4	Adriana Dumitru	adriana.dumitru@gmail.com	1234	manager	01-JUN-18	4000
8	28	4	Alexandru Iancu	alexandru.iancu@gmail.com	1234	receptioner	01-AUG-22	3000
9	29	5	Maria Radu	maria.radu@gmail.com	1234	manager	01-JUL-17	4000
10	30	5	Florin Manea	florin.manea@gmail.com	1234	receptioner	01-NOV-19	3800
11	31	6	Ioana Tudor	ioana.tudor@gmail.com	1234	manager	01-SEP-20	4000
12	32	6	Cristian Dumitrescu	cristian.dumitrescu@gmail.com	1234	receptioner	01-FEB-21	4000
13	33	7	Alina Mihai	alina.mihai@gmail.com	1234	manager	01-JUL-18	3800
14	34	7	Gabriel Cojocaru	gabriel.cojocaru@gmail.com	1234	receptioner	01-JUN-16	3600
15	35	8	Daniela Vasilescu	daniela.vasilescu@gmail.com	1234	manager	01-SEP-19	3200
16	36	8	Radu Gheorghe	radu.gheorghe@gmail.com	1234	receptioner	01-JUN-21	3500
17	37	9	Ruxandra Andrei	ruxandra.andrei@gmail.com	1234	manager	01-OCT-15	3200
18	38	9	Marius Neagu	marius.neagu@gmail.com	1234	receptioner	01-DEC-17	3500
19	39	10	Andreea Ciobanu	andreea.ciobanu@gmail.com	1234	manager	01-JUL-19	5600
20	40	10	Adrian Preda	adrian.preda@gmail.com	1234	receptioner	01-MAY-19	5500

```sql
-- - - - - CAMERE - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - -
-- 1
INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 1, 200.00, 2, 1, 100);


INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 1, 512.00, 2, 1, 101);


INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 1, 643.00, 3, 1, 102);


INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 1, 150.00, 1, 1, 103);

-- 2
INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 2, 1000.00, 3, 1, 100);


INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 2, 456.00, 2, 1, 101);
```

```sql
INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 2, 153.00, 1, 1, 102);

-- 3
INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 3, 500.00, 2, 1, 100);

INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 3, 878.00, 4, 1, 101);

-- 4
INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 4, 442.00, 1, 1, 100);

INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 4, 561.00, 2, 1, 1011);
INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 4, 1210.00, 3, 1, 102);

INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 4, 123.00, 1, 1, 103);

-- 5
INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 5, 894.00, 3, 1, 100);

INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 5, 154.00, 2, 1, 101);

-- 6
INSERT INTO camere
```

```sql
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 6, 200.00, 1, 1, 100);

INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 6, 250.00, 1, 1, 101);


-- 7
INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 7, 895.00, 2, 1, 100);

INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 7, 100.00, 1, 1, 101);
INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 7, 560.00, 2, 1, 102);

INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 7, 900.00, 3, 1, 103);
INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 7, 450.00, 2, 1, 104);

INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 7, 1000.00, 4, 1, 105);

-- 8
INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 8, 400.00, 2, 1, 100);

INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 8, 600.00, 3, 1, 101);
INSERT INTO camere
```

```sql
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 8, 200.00, 1, 1, 102);

-- 9
INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 9, 2500.00, 4, 1, 100);

INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 9, 1550.00, 3, 1, 101);

-- 10
INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 10, 350.00, 2, 1, 100);

INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 10, 350.00, 2, 1, 101);
INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 10, 350.00, 2, 1, 102);

INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 10, 350.00, 2, 1, 103);
INSERT INTO camere
(id_camera, id_hotel, pret, nr_locuri, etaj, nr_camera)
VALUES (seq_camere.nextval, 10, 450.00, 2, 1, 104);

SELECT * FROM camere;
```

	ID_CAMERA	ID_HOTEL	PRET	NR_LOCURI	ETAJ	NR_CAMERA
1	1	1	200	2	1	100
2	2	1	512	2	1	101
3	3	1	643	3	1	102
4	4	1	150	1	1	103
5	5	2	1000	3	1	100
6	6	2	456	2	1	101
7	7	2	153	1	1	102
8	8	3	500	2	1	100
9	9	3	878	4	1	101
10	10	4	442	1	1	100
11	11	4	561	2	1	101
12	12	4	1210	3	1	102
13	13	4	123	1	1	103
14	14	5	894	3	1	100
15	15	5	154	2	1	101
16	16	6	200	1	1	100
17	17	6	250	1	1	101
18	18	7	895	2	1	100
19	19	7	100	1	1	101
20	20	7	560	2	1	102
21	21	7	900	3	1	103
22	22	7	450	2	1	104
23	23	7	1000	4	1	105
24	24	8	400	2	1	100
25	25	8	600	3	1	101
26	26	8	200	1	1	102
27	27	9	2500	4	1	100
28	28	9	1550	3	1	101
29	29	10	350	2	1	100
30	30	10	350	2	1	101
31	31	10	350	2	1	102
32	32	10	350	2	1	103
33	33	10	450	2	1	104

```
-- - - - - SERVICII_HOTEL - - - - - - - - - - - - - - - - - - - - - - - -
- - -


INSERT INTO servicii_hotel(id_serviciu, id_hotel, tip_serviciu)
VALUES(seq_servicii_hotel.nextval, 1, 'parcare');

INSERT INTO servicii_hotel(id_serviciu, id_hotel, tip_serviciu)
```

```sql
VALUES(seq_servicii_hotel.nextval, 1, 'restaurant');

INSERT INTO servicii_hotel(id_serviciu, id_hotel, tip_serviciu)
VALUES(seq_servicii_hotel.nextval, 1, 'room service');

INSERT INTO servicii_hotel(id_serviciu, id_hotel, tip_serviciu)
VALUES(seq_servicii_hotel.nextval, 1, 'sala fitness');

INSERT INTO servicii_hotel(id_serviciu, id_hotel, tip_serviciu)
VALUES(seq_servicii_hotel.nextval, 1, 'spa');

INSERT INTO servicii_hotel(id_serviciu, id_hotel, tip_serviciu)
VALUES(seq_servicii_hotel.nextval, 2, 'parcare');

INSERT INTO servicii_hotel(id_serviciu, id_hotel, tip_serviciu)
VALUES(seq_servicii_hotel.nextval, 3, 'restaurant');

INSERT INTO servicii_hotel(id_serviciu, id_hotel, tip_serviciu)
VALUES(seq_servicii_hotel.nextval, 4, 'room service');

INSERT INTO servicii_hotel(id_serviciu, id_hotel, tip_serviciu)
VALUES(seq_servicii_hotel.nextval, 6, 'sala fitness');

INSERT INTO servicii_hotel(id_serviciu, id_hotel, tip_serviciu)
VALUES(seq_servicii_hotel.nextval, 9, 'spa');

INSERT INTO servicii_hotel(id_serviciu, id_hotel, tip_serviciu)
VALUES(seq_servicii_hotel.nextval, 10, 'parcare');

INSERT INTO servicii_hotel(id_serviciu, id_hotel, tip_serviciu)
VALUES(seq_servicii_hotel.nextval, 10, 'restaurant');

INSERT INTO servicii_hotel(id_serviciu, id_hotel, tip_serviciu)
VALUES(seq_servicii_hotel.nextval, 10, 'room service');

SELECT * FROM servicii_hotel;
```

	ID_SERVICIU	ID_HOTEL	TIP_SERVICIU
1	1	1	parcare
2	2	1	restaurant
3	3	1	room service
4	4	1	sala fitness
5	5	1	spa
6	6	2	parcare
7	7	3	restaurant
8	8	4	room service
9	9	6	sala fitness
10	10	9	spa
11	11	10	parcare
12	12	10	restaurant
13	13	10	room service

```sql
-- - - - - FACILITATI_CAMERA - - - - - - - - - - - - - - - - - - - - - - - - - -
- - -

INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 1, 'uscator de par', 50);

INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 1, 'fier de calcat', 50);

INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 1, 'WI-FI', 50);

INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 1, 'aer conditionat', 50);

INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 5, 'TV', 50);

INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 5, 'uscator de par', 50);
-------
```

```sql
INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 7, 'uscator de par', 50);

INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 7, 'fier de calcat', 50);

INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 7, 'WI-FI', 50);

INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 8, 'aer conditionat', 50);

INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 8, 'TV', 50);

INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 9, 'uscator de par', 50);
-----
INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 9, 'uscator de par', 50);

INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 10, 'fier de calcat', 50);

INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 10, 'WI-FI', 50);

INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 10, 'aer conditionat', 50);
```

```sql
INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 2, 'TV', 50);

INSERT INTO facilitati_camera
(id_facilitate, id_camera, tip_facilitate, pret_aditional)
VALUES(seq_facilitati_camera.nextval, 2, 'uscator de par', 50);

SELECT * FROM facilitati_camera;
```

	ID_FACI...	ID_CAMERA	TIP_FACILITATE	PRET_A...
1	1	1	uscator de par	50
2	2	1	fier de calcat	50
3	3	1	WI-FI	50
4	4	1	aer conditionat	50
5	5	5	TV	50
6	6	5	uscator de par	50
7	7	7	uscator de par	50
8	8	7	fier de calcat	50
9	9	7	WI-FI	50
10	10	8	aer conditionat	50
11	11	8	TV	50
12	12	9	uscator de par	50
13	13	9	uscator de par	50
14	14	10	fier de calcat	50
15	15	10	WI-FI	50
16	16	10	fier de calcat	50
17	17	10	WI-FI	50
18	18	10	aer conditionat	50
19	19	2	TV	50
20	20	2	uscator de par	50

```sql
-- - - - - CLIENTI - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - -
INSERT INTO clienti (id_client, nume, email, nr_telefon, data_nastere)
VALUES (seq_clienti.nextval, 'Alexandra Popescu',
'alexandra.popescu@gmail.com', '0712345678', TO_DATE('1990-01-15',
'YYYY-MM-DD'));
```

```sql
INSERT INTO clienti (id_client, nume, email, nr_telefon, data_nastere)
VALUES (seq_clienti.nextval, 'Mihai Ionescu', 'mihai.ionescu@gmail.com',
'0723456789', TO_DATE('1988-11-22', 'YYYY-MM-DD'));

INSERT INTO clienti (id_client, nume, email, nr_telefon, data_nastere)
VALUES (seq_clienti.nextval, 'Elena Stoica', 'elena.stoica@gmail.com',
'0734567890', TO_DATE('1995-07-10', 'YYYY-MM-DD'));

INSERT INTO clienti (id_client, nume, email, nr_telefon, data_nastere)
VALUES (seq_clienti.nextval, 'Ion Radu', 'ion.radu@gmail.com',
'0745678901', TO_DATE('1993-03-01', 'YYYY-MM-DD'));

INSERT INTO clienti (id_client, nume, email, nr_telefon, data_nastere)
VALUES (seq_clienti.nextval, 'Andreea Mihai', 'andreea.mihai@gmail.com',
'0756789012', TO_DATE('1992-09-20', 'YYYY-MM-DD'));

INSERT INTO clienti (id_client, nume, email, nr_telefon, data_nastere)
VALUES (seq_clienti.nextval, 'Alexandru Popa', 'alexandru.popa@gmail.com',
'0767890123', TO_DATE('1991-06-17', 'YYYY-MM-DD'));

SELECT * FROM clienti;
```

	ID_CLIENT	NUME	EMAIL	NR_TELEFON	DATA_NASTERE
1	1	Alexandra Popescu	alexandra.popescu@gmail.com	0712345678	15-JAN-90
2	2	Mihai Ionescu	mihai.ionescu@gmail.com	0723456789	22-NOV-88
3	3	Elena Stoica	elena.stoica@gmail.com	0734567890	10-JUL-95
4	4	Ion Radu	ion.radu@gmail.com	0745678901	01-MAR-93
5	5	Andreea Mihai	andreea.mihai@gmail.com	0756789012	20-SEP-92
6	6	Alexandru Popa	alexandru.popa@gmail.com	0767890123	17-JUN-91

```sql
-- - - - - REZERVARI - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - -
-- 1
INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in,
data_check_out, nr_persoane, pret_total)
VALUES (seq_rezervari.nextval, 1, 1,
TO_DATE('2023-11-23', 'YYYY-MM-DD'),
TO_DATE('2023-11-26', 'YYYY-MM-DD'), 3,
(SELECT pret FROM CAMERE WHERE id_camera = 1)
* (TO_DATE('2023-11-26', 'YYYY-MM-DD') - TO_DATE('2023-11-23',
'YYYY-MM-DD'))
```

```sql
+ (select nvl(sum(pret_aditional),0) from facilitati_camera where
id_camera = 1));

-- 2
INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in,
data_check_out, nr_persoane, pret_total)
VALUES (seq_rezervari.nextval, 1, 2,
TO_DATE('2023-11-11', 'YYYY-MM-DD'),
TO_DATE('2023-11-14', 'YYYY-MM-DD'), 3,
(SELECT pret FROM CAMERE WHERE id_camera = 2)
* (TO_DATE('2023-11-14', 'YYYY-MM-DD') - TO_DATE('2023-11-11',
'YYYY-MM-DD'))
+ (select nvl(sum(pret_aditional),0) from facilitati_camera where
id_camera = 2));

-- 3
INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in,
data_check_out, nr_persoane, pret_total)
VALUES (seq_rezervari.nextval, 2, 4,
TO_DATE('2023-12-25', 'YYYY-MM-DD'),
TO_DATE('2023-12-27', 'YYYY-MM-DD'), 2,
(SELECT pret FROM CAMERE WHERE id_camera = 4)
* (TO_DATE('2023-12-27', 'YYYY-MM-DD') - TO_DATE('2023-12-25',
'YYYY-MM-DD'))
+ (select nvl(sum(pret_aditional),0) from facilitati_camera where
id_camera = 4));

-- 4
INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in,
data_check_out, nr_persoane, pret_total)
VALUES (seq_rezervari.nextval, 3, 5,
TO_DATE('2023-10-01', 'YYYY-MM-DD'),
TO_DATE('2023-10-05', 'YYYY-MM-DD'), 2,
(SELECT pret FROM CAMERE WHERE id_camera = 5)
* (TO_DATE('2023-10-05', 'YYYY-MM-DD') - TO_DATE('2023-10-01',
'YYYY-MM-DD'))
+ (select nvl(sum(pret_aditional),0) from facilitati_camera where
id_camera = 5));

-- 5
```

```sql
INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in,
data_check_out, nr_persoane, pret_total)
VALUES (seq_rezervari.nextval, 4, 7,
TO_DATE('2023-11-19', 'YYYY-MM-DD'),
TO_DATE('2023-11-20', 'YYYY-MM-DD'), 1,
(SELECT pret FROM CAMERE WHERE id_camera = 7)
* (TO_DATE('2023-11-20', 'YYYY-MM-DD') - TO_DATE('2023-11-19',
'YYYY-MM-DD'))
+ (select nvl(sum(pret_aditional),0) from facilitati_camera where
id_camera = 7));

-- 6
INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in,
data_check_out, nr_persoane, pret_total)
VALUES (seq_rezervari.nextval, 5, 8,
TO_DATE('2024-01-05', 'YYYY-MM-DD'),
TO_DATE('2024-01-07', 'YYYY-MM-DD'), 2,
(SELECT pret FROM CAMERE WHERE id_camera = 8)
* (TO_DATE('2024-01-07', 'YYYY-MM-DD') - TO_DATE('2024-01-05',
'YYYY-MM-DD'))
+ (select nvl(sum(pret_aditional),0) from facilitati_camera where
id_camera = 8));

-- 7
INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in,
data_check_out, nr_persoane, pret_total)
VALUES (seq_rezervari.nextval, 6, 10,
TO_DATE('2024-01-11', 'YYYY-MM-DD'),
TO_DATE('2024-01-14', 'YYYY-MM-DD'), 1,
(SELECT pret FROM CAMERE WHERE id_camera = 10)
* (TO_DATE('2024-01-14', 'YYYY-MM-DD') - TO_DATE('2024-01-11',
'YYYY-MM-DD'))
+ (select nvl(sum(pret_aditional),0) from facilitati_camera where
id_camera = 10));

-- 8
INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in,
data_check_out, nr_persoane, pret_total)
VALUES (seq_rezervari.nextval, 5, 11,
TO_DATE('2024-02-21', 'YYYY-MM-DD'),
```

```sql
TO_DATE('2024-02-26', 'YYYY-MM-DD'), 2,
(SELECT pret FROM CAMERE WHERE id_camera = 11)
* (TO_DATE('2024-02-26', 'YYYY-MM-DD') - TO_DATE('2024-02-21',
'YYYY-MM-DD'))
+ (select nvl(sum(pret_aditional),0) from facilitati_camera where
id_camera = 11));

-- 9
INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in,
data_check_out, nr_persoane, pret_total)
VALUES (seq_rezervari.nextval, 3, 12,
TO_DATE('2024-03-01', 'YYYY-MM-DD'),
TO_DATE('2024-03-06', 'YYYY-MM-DD'), 2,
(SELECT pret FROM CAMERE WHERE id_camera = 12)
* (TO_DATE('2024-03-06', 'YYYY-MM-DD') - TO_DATE('2024-03-01',
'YYYY-MM-DD'))
+ (select nvl(sum(pret_aditional),0) from facilitati_camera where
id_camera = 12));

-- 10
INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in,
data_check_out, nr_persoane, pret_total)
VALUES (seq_rezervari.nextval, 4, 15,
TO_DATE('2024-03-08', 'YYYY-MM-DD'),
TO_DATE('2024-03-12', 'YYYY-MM-DD'), 1,
(SELECT pret FROM CAMERE WHERE id_camera = 15)
* (TO_DATE('2024-03-12', 'YYYY-MM-DD') - TO_DATE('2024-03-08',
'YYYY-MM-DD'))
+ (select nvl(sum(pret_aditional),0) from facilitati_camera where
id_camera = 15));


-- 11
INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in,
data_check_out, nr_persoane, pret_total)
VALUES (seq_rezervari.nextval, 6, 13,
TO_DATE('2023-11-23', 'YYYY-MM-DD'),
TO_DATE('2023-11-26', 'YYYY-MM-DD'), 2,
(SELECT pret FROM CAMERE WHERE id_camera = 13)
```

```sql
* (TO_DATE('2023-11-26', 'YYYY-MM-DD') - TO_DATE('2023-11-23',
'YYYY-MM-DD'))
+ (select nvl(sum(pret_aditional),0) from facilitati_camera where
id_camera = 13));

-- 12
INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in,
data_check_out, nr_persoane, pret_total)
VALUES (seq_rezervari.nextval, 6, 14,
TO_DATE('2023-11-11', 'YYYY-MM-DD'),
TO_DATE('2023-11-14', 'YYYY-MM-DD'), 2,
(SELECT pret FROM CAMERE WHERE id_camera = 15)
* (TO_DATE('2023-11-14', 'YYYY-MM-DD') - TO_DATE('2023-11-11',
'YYYY-MM-DD'))
+ (select nvl(sum(pret_aditional),0) from facilitati_camera where
id_camera = 14));

-- 13
INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in,
data_check_out, nr_persoane, pret_total)
VALUES (seq_rezervari.nextval, 4, 11,
TO_DATE('2023-12-25', 'YYYY-MM-DD'),
TO_DATE('2023-12-27', 'YYYY-MM-DD'), 1,
(SELECT pret FROM CAMERE WHERE id_camera = 11)
* (TO_DATE('2023-12-27', 'YYYY-MM-DD') - TO_DATE('2023-12-25',
'YYYY-MM-DD'))
+ (select nvl(sum(pret_aditional),0) from facilitati_camera where
id_camera = 11));

-- 14
INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in,
data_check_out, nr_persoane, pret_total)
VALUES (seq_rezervari.nextval, 2, 8,
TO_DATE('2023-10-01', 'YYYY-MM-DD'),
TO_DATE('2023-10-05', 'YYYY-MM-DD'), 2,
(SELECT pret FROM CAMERE WHERE id_camera = 8)
* (TO_DATE('2023-10-05', 'YYYY-MM-DD') - TO_DATE('2023-10-01',
'YYYY-MM-DD'))
+ (select nvl(sum(pret_aditional),0) from facilitati_camera where
id_camera = 8));
```

```sql
-- 15
INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in,
data_check_out, nr_persoane, pret_total)
VALUES (seq_rezervari.nextval, 1, 16,
TO_DATE('2023-11-19', 'YYYY-MM-DD'),
TO_DATE('2023-11-20', 'YYYY-MM-DD'), 1,
(SELECT pret FROM CAMERE WHERE id_camera = 16)
* (TO_DATE('2023-11-20', 'YYYY-MM-DD') - TO_DATE('2023-11-19',
'YYYY-MM-DD'))
+ (select nvl(sum(pret_aditional),0) from facilitati_camera where
id_camera = 16));

SELECT * FROM REZERVARI;
```

	ID_REZERVARE	ID_CLIENT	ID_CAMERA	DATA_CHECK_IN	DATA_CHECK_OUT	NR_PERSOANE	PRET_TOTAL
1	1	1	1	23-NOV-23	26-NOV-23	3	800
2	2	1	2	11-NOV-23	14-NOV-23	3	1636
3	3	2	4	25-DEC-23	27-DEC-23	2	300
4	4	3	5	01-OCT-23	05-OCT-23	2	4100
5	5	4	7	19-NOV-23	20-NOV-23	1	303
6	6	5	8	05-JAN-24	07-JAN-24	2	1100
7	7	6	10	11-JAN-24	14-JAN-24	1	1576
8	8	5	11	21-FEB-24	26-FEB-24	2	2805
9	9	3	12	01-MAR-24	06-MAR-24	2	6050
10	10	4	15	08-MAR-24	12-MAR-24	1	616
11	11	6	13	23-NOV-23	26-NOV-23	2	369
12	12	6	14	11-NOV-23	14-NOV-23	2	462
13	13	4	11	25-DEC-23	27-DEC-23	1	1122
14	14	2	8	01-OCT-23	05-OCT-23	2	2100
15	15	1	16	19-NOV-23	20-NOV-23	1	200

6. Subprogram stocat independent cu 2 tipuri de colectii

Creati o procedura care sa afiseze pentru fiecare hotel numele angajatilor, salariul si functia acestora.

```
CREATE OR REPLACE PROCEDURE exercitiul_6 AS
    -- tablou indexat numele hotelurilor
    TYPE tablou_indexat IS TABLE OF hoteluri.nume%TYPE INDEX BY
PLS_INTEGER;
    v_nume_hoteluri tablou_indexat := tablou_indexat();

    -- vector pentru numele angajatilor
    TYPE vector_nume_functie IS VARRAY(50) OF angajati.nume%TYPE;
    v_nume_angajati vector_nume_functie;
    v_functii vector_nume_functie;

    -- vector pentru salarii
    TYPE vector_salariu IS VARRAY(50) OF angajati.salariu%TYPE;
    v_salarii vector_salariu;

    v_id_hotel hoteluri.id_hotel%TYPE;
BEGIN
    -- populez tabloul indexat cu numele hotelurilor
    SELECT nume
    BULK COLLECT INTO v_nume_hoteluri
    FROM hoteluri;

    -- parcurg fiecare hotel in parte
    FOR i IN 1..v_nume_hoteluri.COUNT LOOP
        DBMS_OUTPUT.PUT_LINE('Hotel: ' || v_nume_hoteluri(i));

        -- setez v_id_hotel in functie de v_nume_hoteluri
        SELECT id_hotel INTO v_id_hotel
        FROM hoteluri
        WHERE nume = v_nume_hoteluri(i);

        -- populez vectorii cu numele angajatilor, salariul si functia
        -- pentru id-ul hotelului gasit mai sus
        SELECT nume, salariu, tip_angajat
```

```
        BULK COLLECT INTO v_nume_angajati, v_salarii, v_functii
        FROM angajati
        WHERE id_hotel = v_id_hotel;

        -- afisez angajatii, salariile si functiile pentru hotelul curent
        -- daca exista angajati la hotelul respectiv
        IF v_nume_angajati.COUNT = 0 THEN
            DBMS_OUTPUT.PUT_LINE('Hotelul nu are angajati inregistrati.');
        ELSE
            FOR j IN 1..v_nume_angajati.COUNT LOOP
                DBMS_OUTPUT.PUT_LINE(v_nume_angajati(j) || ' - Salariu: '
|| v_salarii(j) || ' - Functie: ' || v_functii(j));
            END LOOP;
        END IF;


DBMS_OUTPUT.PUT_LINE('--------------------------------------------------
--------');
    END LOOP;
END;
/
BEGIN
    exercitiul_6;
END;
/
```

7. Subprogram stocat independent cu 2 tipuri de cursoare

Mariti cu 15% salariul angajatilor dupa anul 2020 de la hotelurile dintr-o regiune data de la tastatura. Sa se afiseze salariul vechi si cel nou.

```sql
CREATE OR REPLACE PROCEDURE exercitiul_7(v_nume_regiune IN
orase.regiune%TYPE) IS
    -- cursor pentru id-ul si numele hotelurilor
    CURSOR c_hotel IS
        SELECT h.id_hotel, h.nume
        FROM hoteluri h JOIN orase o ON h.id_oras = o.id_oras
        WHERE o.regiune = v_nume_regiune;

    -- cursor pentru angajati
    CURSOR c_angajati(v_id_hotel hoteluri.id_hotel%TYPE) IS
        SELECT id_angajat, id_hotel, nume, salariu
        FROM angajati
        WHERE id_hotel = v_id_hotel AND EXTRACT(YEAR FROM data_angajare)
>= 2020;
```

```
    -- variabile pentru salariul vechi si nou
    v_vechi_salariu angajati.salariu%TYPE;
    v_nou_salariu angajati.salariu%TYPE;

    -- variabila pentru a verifica daca hotelul are angajati dupa 2020
    v_are_angajati BOOLEAN := FALSE;
BEGIN

    FOR j IN c_hotel LOOP
        DBMS_OUTPUT.PUT_LINE('--------------------------------');
        DBMS_OUTPUT.PUT_LINE('Hotel: ' || j.nume);
        DBMS_OUTPUT.PUT_LINE('');

        v_are_angajati := FALSE;

        FOR a IN c_angajati(j.id_hotel) LOOP
            DBMS_OUTPUT.PUT_LINE('Angajat: ' || a.nume);
            v_are_angajati := TRUE;

            -- salvam salariul actual in v_vechi_salariu
            v_vechi_salariu := a.salariu;

            -- marim salariului angajatului cu 15%
            v_nou_salariu := a.salariu * 1.15;
            UPDATE angajati
            SET salariu = v_nou_salariu
            WHERE id_angajat = a.id_angajat;

            -- afisarea vechiului si noului salariu
            DBMS_OUTPUT.PUT_LINE('Vechiul salariu: ' || v_vechi_salariu);
            DBMS_OUTPUT.PUT_LINE('Noul salariu: ' || v_nou_salariu);
            DBMS_OUTPUT.PUT_LINE('');
        END LOOP;
        IF NOT v_are_angajati THEN
            DBMS_OUTPUT.PUT_LINE('Hotelul nu are angajati dupa 2020.');
        END IF;
    END LOOP;
END exercitiul_7;
/
BEGIN
```

```
    exercitiul_7('Transilvania');
END;
/
-- Muntenia
rollback;
```


8. Subprogram stocat independent tip functie cu 3 tabele intr-o comanda

Calculati pentru numele unui hotel dat de la tastatura numarul de rezervari efectuate in luna noiembrie 2023.

```
CREATE OR REPLACE FUNCTION exercitiul_8(v_nume_hotel hoteluri.nume%TYPE)
RETURN NUMBER IS
    nr_rezervari NUMBER;
    nr_hoteluri NUMBER;
BEGIN
    -- verificam cate hoteluri sunt in baza de date cu numele dat de noi
    SELECT COUNT(*)
    INTO nr_hoteluri
    FROM hoteluri
```

```plsql
    WHERE nume = v_nume_hotel;

    IF nr_hoteluri = 0 THEN
        RAISE_APPLICATION_ERROR(-20000, 'Hotelul cu numele respectiv nu
exista');
    ELSIF nr_hoteluri > 1 THEN
        RAISE_APPLICATION_ERROR(-20001, 'Exista mai multe hoteluri cu
numele respectiv.');
    END IF;

    -- calculam numarul de rezervari din noiembrie 2023
    SELECT COUNT(*)
    INTO nr_rezervari
    FROM rezervari r JOIN camere c ON c.id_camera = r.id_camera
    JOIN hoteluri h ON c.id_hotel = h.id_hotel
    WHERE h.nume = v_nume_hotel AND EXTRACT(MONTH FROM r.data_check_in) =
11
                                AND EXTRACT(YEAR FROM r.data_check_in) =
2023;

    RETURN nr_rezervari;
END exercitiul_8;
/
DECLARE
        exceptie1 EXCEPTION;
        exceptie2 EXCEPTION;
        PRAGMA EXCEPTION_INIT(exceptie1,-20000);
        PRAGMA EXCEPTION_INIT(exceptie2,-20001);
    BEGIN
        DBMS_OUTPUT.PUT_LINE('Hotelul "test" are nr de rezervari =');
        DBMS_OUTPUT.PUT_LINE('');
        DBMS_OUTPUT.PUT_LINE(exercitiul_8('test'));

    EXCEPTION
        WHEN exceptie1 THEN
            DBMS_OUTPUT.PUT_LINE('Mesaj exceptie: '||SQLERRM);
        WHEN exceptie2 THEN
            DBMS_OUTPUT.PUT_LINE('Mesaj exceptie: '||SQLERRM);
END;
/
```

```
DECLARE
        exceptie1 EXCEPTION;
        exceptie2 EXCEPTION;
        PRAGMA EXCEPTION_INIT(exceptie1,-20000);
        PRAGMA EXCEPTION_INIT(exceptie2,-20001);
    BEGIN
        DBMS_OUTPUT.PUT_LINE('Hotelul "Hotel Ambiance" are nr de rezervari
=');
        DBMS_OUTPUT.PUT_LINE('');
        DBMS_OUTPUT.PUT_LINE(exercitiul_8('Hotel Ambiance'));

    EXCEPTION
        WHEN exceptie1 THEN
            DBMS_OUTPUT.PUT_LINE('Mesaj exceptie: '||SQLERRM);
        WHEN exceptie2 THEN
            DBMS_OUTPUT.PUT_LINE('Mesaj exceptie: '||SQLERRM);
END;
/
DECLARE
        exceptie1 EXCEPTION;
        exceptie2 EXCEPTION;
        PRAGMA EXCEPTION_INIT(exceptie1,-20000);
        PRAGMA EXCEPTION_INIT(exceptie2,-20001);
    BEGIN
        DBMS_OUTPUT.PUT_LINE('Hotelul "Hotel Dunarea" are nr de rezervari
=');
        DBMS_OUTPUT.PUT_LINE('');
        DBMS_OUTPUT.PUT_LINE(exercitiul_8('Hotel Dunarea'));

    EXCEPTION
        WHEN exceptie1 THEN
            DBMS_OUTPUT.PUT_LINE('Mesaj exceptie: '||SQLERRM);
        WHEN exceptie2 THEN
            DBMS_OUTPUT.PUT_LINE('Mesaj exceptie: '||SQLERRM);
END;
/
insert into hoteluri(id_hotel, nume) values(11, 'Hotel Dunarea');
```
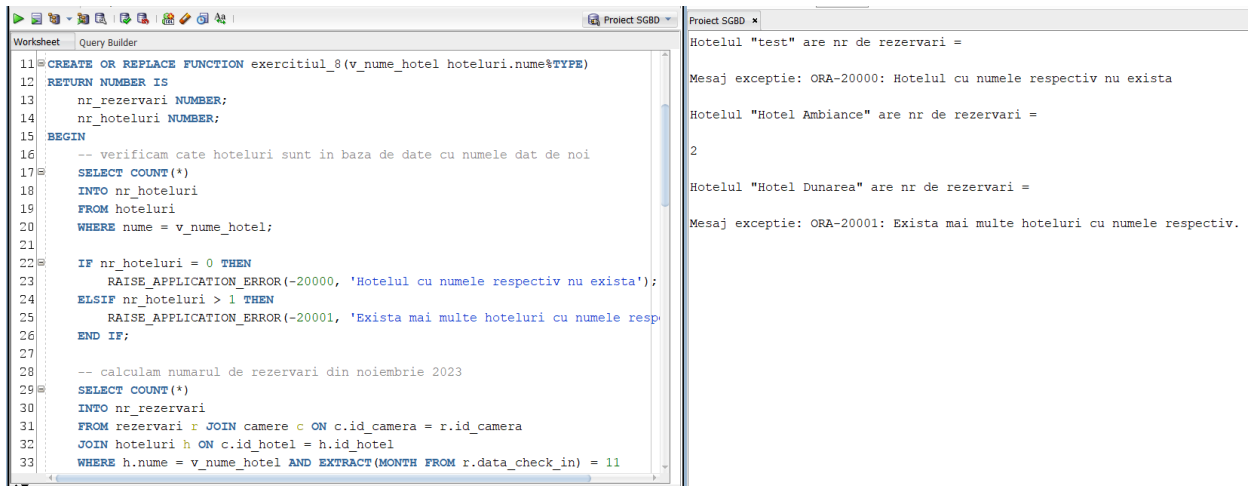
```
11 CREATE OR REPLACE FUNCTION exercitiul_8(v_nume_hotel hoteluri.nume%TYPE)
12 RETURN NUMBER IS
13     nr_rezervari NUMBER;
14     nr_hoteluri NUMBER;
15 BEGIN
16     -- verificam cate hoteluri sunt in baza de date cu numele dat de noi
17     SELECT COUNT(*)
18     INTO nr_hoteluri
19     FROM hoteluri
20     WHERE nume = v_nume_hotel;
21
22     IF nr_hoteluri = 0 THEN
23         RAISE_APPLICATION_ERROR(-20000, 'Hotelul cu numele respectiv nu exista');
24     ELSIF nr_hoteluri > 1 THEN
25         RAISE_APPLICATION_ERROR(-20001, 'Exista mai multe hoteluri cu numele resp
26     END IF;
27
28     -- calculam numarul de rezervari din noiembrie 2023
29     SELECT COUNT(*)
30     INTO nr_rezervari
31     FROM rezervari r JOIN camere c ON c.id_camera = r.id_camera
32     JOIN hoteluri h ON c.id_hotel = h.id_hotel
33     WHERE h.nume = v_nume_hotel AND EXTRACT(MONTH FROM r.data_check_in) = 11
```

```
Hotelul "test" are nr de rezervari =

Mesaj exceptie: ORA-20000: Hotelul cu numele respectiv nu exista

Hotelul "Hotel Ambiance" are nr de rezervari =

2

Hotelul "Hotel Dunarea" are nr de rezervari =

Mesaj exceptie: ORA-20001: Exista mai multe hoteluri cu numele respectiv.
```

9. Subprogram stocat independent tip procedura cu 5 tabele intr-o comanda

Scrieti un program stocat independent care, pentru numele unui hotel dat de la tastatura, sa se afiseze informatii despre camera (facilitati), numele clientului, data check-in si check-out.

```
CREATE OR REPLACE PROCEDURE exercitul_9 (hotel_nume IN VARCHAR2) IS
    v_hotel_id hoteluri.id_hotel%TYPE;
BEGIN
    -- cautam id-ul hotelului in functie de numele dat de la tastatura
    SELECT id_hotel INTO v_hotel_id
    FROM hoteluri
    WHERE nume = hotel_nume;


    -- obtinem informatiile despre rezervare
    FOR rec_camera IN (SELECT h.nume AS nume_hotel, c.nr_camera,
            (CASE WHEN COUNT(distinct fc.tip_facilitate) > 0 THEN
LISTAGG(distinct fc.tip_facilitate, ', ')
                                        WITHIN GROUP (ORDER BY
fc.tip_facilitate)
             ELSE 'Nu există facilități' END) AS facilitati,
            cl.nume as client,
            r.data_check_in as check_in,
            r.data_check_out as check_out
        FROM camere c
        JOIN hoteluri h ON c.id_hotel = h.id_hotel
        LEFT JOIN facilitati_camera fc ON c.id_camera = fc.id_camera
        LEFT JOIN rezervari r on c.id_camera = r.id_camera
```

```
        LEFT JOIN clienti cl on cl.id_client = r.id_client
    WHERE h.nume = hotel_nume
    AND r.id_camera IS NOT NULL
    GROUP BY h.nume, c.nr_camera, cl.nume, r.data_check_in,
r.data_check_out
    )
   LOOP
     --afisam
       DBMS_OUTPUT.PUT_LINE('------------------------------------');
       DBMS_OUTPUT.PUT_LINE('');
       DBMS_OUTPUT.PUT_LINE('Hotel: ' || rec_camera.nume_hotel);
       DBMS_OUTPUT.PUT_LINE('');
       DBMS_OUTPUT.PUT_LINE('Nr. camera: ' || rec_camera.nr_camera);
       DBMS_OUTPUT.PUT_LINE('Facilitati: ' || rec_camera.facilitati);
       DBMS_OUTPUT.PUT_LINE('Client: ' || rec_camera.client);
       DBMS_OUTPUT.PUT_LINE('Check-in: ' || rec_camera.check_in);
       DBMS_OUTPUT.PUT_LINE('Check-out: ' || rec_camera.check_out);
   END LOOP;
EXCEPTION
   WHEN NO_DATA_FOUND THEN
      DBMS_OUTPUT.PUT_LINE('Hotelul "' || hotel_nume || '" nu a fost
găsit.');
    WHEN TOO_MANY_ROWS THEN
       DBMS_OUTPUT.PUT_LINE('Exista mai multe hoteluri cu numele dat.');
   WHEN OTHERS THEN
      DBMS_OUTPUT.PUT_LINE('A apărut o eroare: ' || SQLERRM);
END;
/
BEGIN
   exercitul_9('Hotel Splendid');
END;
/
BEGIN
   exercitul_9('Hotel Dunarea');
END;
/
```

```
9  CREATE OR REPLACE PROCEDURE exercitul_9 (hotel_nume IN VARCHAR2) IS
0      v_hotel_id hoteluri.id_hotel%TYPE;
1  BEGIN
2      -- cautam id-ul hotelului in functie de numele dat de la tastatura
3      SELECT id_hotel INTO v_hotel_id
4      FROM hoteluri
5      WHERE nume = hotel_nume;
6
7      -- obtinem informatiile despre rezervare
8      FOR rec_camera IN (SELECT h.nume AS nume_hotel, c.nr_camera,
9              (CASE WHEN COUNT(distinct fc.tip_facilitate) > 0 THEN LISTAGG(distinct
0                                              WITHIN GROUP (ORDER BY fc.tip_f.
1                ELSE 'Nu există facilități' END) AS facilitati,
2              cl.nume as client,
3              r.data_check_in as check_in,
4              r.data_check_out as check_out
5      FROM camere c
6          JOIN hoteluri h ON c.id_hotel = h.id_hotel
7          LEFT JOIN facilitati_camera fc ON c.id_camera = fc.id_camera
8          LEFT JOIN rezervari r on c.id_camera = r.id_camera
9          LEFT JOIN clienti cl on cl.id_client = r.id_client
0      WHERE h.nume = hotel_nume
1      AND r.id_camera IS NOT NULL
2      GROUP BY h.nume, c.nr_camera, cl.nume, r.data_check_in, r.data_check_out
3      )
4      LOOP
5          DBMS_OUTPUT.PUT_LINE('-----------------------------------');
6          DBMS_OUTPUT.PUT_LINE('');
7          DBMS_OUTPUT.PUT_LINE('Hotel: ' || rec_camera.nume_hotel);
```

```
Hotel: Hotel Splendid

Nr. camera: 100
Facilitati: WI-FI, aer conditionat, fier de ca
Client: Alexandru Popa
Check-in: 11-JAN-24
Check-out: 14-JAN-24
-----------------------------------

Hotel: Hotel Splendid

Nr. camera: 101
Facilitati: Nu există facilități
Client: Ion Radu
Check-in: 25-DEC-23
Check-out: 27-DEC-23
-----------------------------------

Hotel: Hotel Splendid

Nr. camera: 101
Facilitati: Nu există facilități
Client: Andreea Mihai
Check-in: 21-FEB-24
Check-out: 26-FEB-24
-----------------------------------

Hotel: Hotel Splendid

Nr. camera: 102
Facilitati: Nu există facilități
Client: Elena Stoica
```

Script Output × | Query Result ×
Task completed in 0.049 seconds

```
51          DBMS_OUTPUT.PUT_LINE('Client: ' || rec_camera.client);
52          DBMS_OUTPUT.PUT_LINE('Check-in: ' || rec_camera.check_in);
53          DBMS_OUTPUT.PUT_LINE('Check-out: ' || rec_camera.check_out);
54      END LOOP;
55  EXCEPTION
56      WHEN NO_DATA_FOUND THEN
57          DBMS_OUTPUT.PUT_LINE('Hotelul "' || hotel_nume || '" nu a fost găsit.');
58       WHEN TOO_MANY_ROWS THEN
59          DBMS_OUTPUT.PUT_LINE('Exista mai multe hoteluri cu numele dat.');
60      WHEN OTHERS THEN
61          DBMS_OUTPUT.PUT_LINE('A apărut o eroare: ' || SQLERRM);
62  END;
63  /
64  BEGIN
65      exercitul_9('Hotel Splendid');
66  END;
67  /
68  BEGIN
69      exercitul_9('Hotel Dunarea');
70  END;
71  /
72  select * from hoteluri;
```

```
Exista mai multe hoteluri cu numele dat.
```

Script Output × | Query Result ×
Task completed in 0.035 seconds

10. Trigger LMD la nivel de comanda

Creati un trigger care sa se declanseze atunci cand inseram, stergem sau modificam o rezervare in afara programului (08:00 - 21:00).

```
CREATE OR REPLACE TRIGGER exercitiul_10
BEFORE INSERT OR UPDATE OR DELETE ON rezervari
BEGIN
```

```
    IF TO_CHAR(SYSDATE, 'hh24') BETWEEN 0 AND 8 OR
        TO_CHAR(SYSDATE, 'hh24') BETWEEN 21 AND 24
    THEN
        IF INSERTING THEN
            RAISE_APPLICATION_ERROR(-20010, 'In afara programului de
lucru.
                Inserati date in tabel intre orele 08:00-21:00.');
        ELSIF DELETING THEN
            RAISE_APPLICATION_ERROR(-20010, 'In afara programului de
lucru.
                Stergeti date din tabel intre orele 08:00-21:00.');
        ELSE
            RAISE_APPLICATION_ERROR(-20010, 'In afara programului de
lucru.
                Actualizati datele din tabel intre orele 08:00-21:00.');
        END IF;
    END IF;
END;
/

INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in,
data_check_out, nr_persoane, pret_total)
VALUES(seq_rezervari.nextval, 1, 1, TO_DATE('2023-12-01', 'YYYY-MM-DD'),
      TO_DATE('2023-12-02', 'YYYY-MM-DD'), 1, 1000);

DELETE FROM rezervari
WHERE id_rezervare = 1;

UPDATE rezervari
SET pret_total = 999
WHERE id_rezervare = 1;
```

INSERT

```
16              Inserati date in tabel intre orele 08:00-21:00.');
17          ELSIF DELETING THEN
18              RAISE_APPLICATION_ERROR(-20010, 'In afara programului de lucru.
19                  Stergeti date din tabel intre orele 08:00-21:00.');
20          ELSE
21              RAISE_APPLICATION_ERROR(-20010, 'In afara programului de lucru.
22                  Actualizati datele din tabel intre orele 08:00-21:00.');
23          END IF;
24      END IF;
25  END;
26  /
27
28  INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in, data_check_out, nr_persoa
29  VALUES(seq_rezervari.nextval, 1, 1, TO_DATE('2023-12-01', 'YYYY-MM-DD'),
30      TO_DATE('2023-12-02', 'YYYY-MM-DD'), 1, 1000);
```

Script Output × ▷ Query Result ×

Task completed in 0.056 seconds

```
Trigger EXERCITIUL_10 compiled


Error starting at line : 28 in command -
INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_in, data_check_out, nr_persoane, p
VALUES(seq_rezervari.nextval, 1, 1, TO_DATE('2023-12-01', 'YYYY-MM-DD'),
       TO_DATE('2023-12-02', 'YYYY-MM-DD'), 1, 1000)
Error report -
ORA-20010: In afara programului de lucru.
                Inserati date in tabel intre orele 08:00-21:00.
ORA-06512: at "ANGIFLUTUR.EXERCITIUL_10", line 6
ORA-04088: error during execution of trigger 'ANGIFLUTUR.EXERCITIUL_10'
```

DELETE

```
Worksheet    Query Builder
22                     Actualizati datele din tabel intre orele 08:00-21:00.');
23              END IF;
24          END IF;
25     END;
26     /
27
28     INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check_ir
29     VALUES(seq_rezervari.nextval, 1, 1, TO_DATE('2023-12-01', 'YYYY-MM-DD'),
30             TO_DATE('2023-12-02', 'YYYY-MM-DD'), 1, 1000);
31
32     DELETE FROM rezervari
33     WHERE id_rezervare = 1;
34
35     UPDATE rezervari
36     SET pret_total = 999
```

Script Output ×   Query Result ×

📌 🖊 💾 🖨 📄 | Task completed in 0.038 seconds

```
                 Inserati date in tabel intre orele 08:00-21:00.
ORA-06512: at "ANGIFLUTUR.EXERCITIUL_10", line 6
ORA-04088: error during execution of trigger 'ANGIFLUTUR.EXERCITIUL_10'



Error starting at line : 32 in command -
DELETE FROM rezervari
WHERE id_rezervare = 1
Error report -
ORA-20010: In afara programului de lucru.
                 Stergeti date din tabel intre orele 08:00-21:00.
ORA-06512: at "ANGIFLUTUR.EXERCITIUL_10", line 9
ORA-04088: error during execution of trigger 'ANGIFLUTUR.EXERCITIUL_10'
```

UPDATE

```
24        END IF;
25    END;
26    /
27
28    INSERT INTO rezervari (id_rezervare, id_client, id_camera, data_check
29    VALUES(seq_rezervari.nextval, 1, 1, TO_DATE('2023-12-01', 'YYYY-MM-DD
30            TO_DATE('2023-12-02', 'YYYY-MM-DD'), 1, 1000);
31
32    DELETE FROM rezervari
33    WHERE id_rezervare = 1;
34
35    UPDATE rezervari
36    SET pret_total = 999
37    WHERE id_rezervare = 1;
38
```

Script Output × | Query Result ×

Task completed in 0.037 seconds

```
ORA-06512: at "ANGIFLUTUR.EXERCITIUL_10", line 9
ORA-04088: error during execution of trigger 'ANGIFLUTUR.EXERCITIUL_10'


Error starting at line : 35 in command -
UPDATE rezervari
SET pret_total = 999
WHERE id_rezervare = 1
Error report -
ORA-20010: In afara programului de lucru.
            Actualizati datele din tabel intre orele 08:00-21:00.
ORA-06512: at "ANGIFLUTUR.EXERCITIUL_10", line 12
ORA-04088: error during execution of trigger 'ANGIFLUTUR.EXERCITIUL_10'
```

11. Trigger LMD la nivel de linie

Creati un trigger care sa se declanseze atunci cand incercam sa modificam data_check_in din tabelul rezervari cu o data din trecut.

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


-- creati un trigger care sa se declanseze atunci cand
-- incercam sa modificam data check-in
```

```
-- cu o data din trecut.

CREATE OR REPLACE TRIGGER exercitiul_11
BEFORE UPDATE OF data_check_in ON rezervari
FOR EACH ROW
BEGIN
    IF(:NEW.data_check_in < SYSDATE)
        THEN RAISE_APPLICATION_ERROR(-20000, 'Data check-out trebuie sa
fie mai mare
        decat data check-in.');
    END IF;
END;
/
alter trigger exercitiul_12 disable;

update rezervari
set data_check_in = to_date('26/08/2023', 'DD/MM/YYYY')
where id_rezervare = 1;
```

```
Worksheet | Query Builder
 5  -- incercam sa modificam data check-in
 6  -- cu o data din trecut.
 7
 8  CREATE OR REPLACE TRIGGER exercitiul_11
 9  BEFORE UPDATE OF data_check_in ON rezervari
10  FOR EACH ROW
11  BEGIN
12      IF(:NEW.data_check_in < SYSDATE)
13          THEN RAISE_APPLICATION_ERROR(-20000, 'Data check-out trebui
14          decat data check-in.');
15      END IF;
16  END;
17  /
18  alter trigger exercitiul_10 disable;
19
20  update rezervari
21  set data_check_in = to_date('26/08/2023', 'DD/MM/YYYY')
22  where id_rezervare = 1;
```

```
Query Result ×    Script Output ×
📌 ✏ 💾 🖨 📋  | Task completed in 0.053 seconds

Error starting at line : 20 in command -
update rezervari
set data_check_in = to_date('26/08/2023', 'DD/MM/YYYY')
where id_rezervare = 1
Error report -
ORA-20000: Data check-out trebuie sa fie mai mare
        decat data check-in.
ORA-06512: at "ANGIFLUTUR.EXERCITIUL_11", line 3
ORA-04088: error during execution of trigger 'ANGIFLUTUR.EXERCITIUL_11'
```

12. Trigger LDD

Creati un trigger care nu permite stergerea, crearea sau alterarea tabelelor din schema in afara intervalului de lucru (08:00 - 21:00).

```
CREATE OR REPLACE TRIGGER exercitiul_12
AFTER CREATE OR DROP OR ALTER ON SCHEMA
BEGIN
IF TO_CHAR(SYSDATE, 'hh24') BETWEEN 0 AND 8 OR
```

```
TO_CHAR(SYSDATE, 'hh24') BETWEEN 21 AND 24
THEN
RAISE_APPLICATION_ERROR(-20010, 'In afara programului de lucru.
Incercati sa faceti modificari intre orele 08:00-21:00.');
END IF;
END;


/
alter table angajati drop column salariu;
/
drop table angajati;
/
create table test(id_test NUMBER);
```

ALTER

```sql
 8  CREATE OR REPLACE TRIGGER exercitiul_12
 9    AFTER CREATE OR DROP OR ALTER ON SCHEMA
10
11  BEGIN
12      IF TO_CHAR(SYSDATE, 'hh24') BETWEEN 0 AND 8 OR
13          TO_CHAR(SYSDATE, 'hh24') BETWEEN 21 AND 24
14      THEN
15          RAISE_APPLICATION_ERROR(-20010, 'In afara programului de lucr
16              Incercati sa faceti modificari intre orele 08:00-21:00.')
17      END IF;
18  END;
19  /
20  rollback;
21
22  alter table angajati drop column salariu;
23  /
24  drop table angajati;
25  /
```

Script Output × ▷ Query Result ×

📌 🧹 💾 🖨 📋 | Task completed in 0.051 seconds

```
alter table angajati drop column salariu
Error report -
ORA-04088: error during execution of trigger 'ANGIFLUTUR.EXERCITIUL_12'
ORA-00604: error occurred at recursive SQL level 1
ORA-20010: In afara programului de lucru.
          Incercati sa faceti modificari intre orele 08:00-21:00.
ORA-06512: at line 5
04088. 00000 -  "error during execution of trigger '%s.%s'"
*Cause:    A runtime error occurred during execution of a trigger.
*Action:   Check the triggers which were involved in the operation.
DROP
```

```
  8 CREATE OR REPLACE TRIGGER exercitiul_12
  9   AFTER CREATE OR DROP OR ALTER ON SCHEMA
 10
 11 BEGIN
 12     IF TO_CHAR(SYSDATE, 'hh24') BETWEEN 0 AND 8 OR
 13         TO_CHAR(SYSDATE, 'hh24') BETWEEN 21 AND 24
 14     THEN
 15         RAISE_APPLICATION_ERROR(-20010, 'In afara programului de lucru.
 16             Incercati sa faceti modificari intre orele 08:00-21:00.');
 17     END IF;
 18 END;
 19 /
 20 rollback;
 21
 22 alter table angajati drop column salariu;
 23 /
 24 drop table angajati;
 25 /
 26 create table test(id_test NUMBER);
```

Script Output × ▷ Query Result ×

📌 🖉 💾 🖨 🗐 | Task completed in 0.061 seconds

```
drop table angajati
Error report -
ORA-04088: error during execution of trigger 'ANGIFLUTUR.EXERCITIUL_12'
ORA-00604: error occurred at recursive SQL level 1
ORA-20010: In afara programului de lucru.
            Incercati sa faceti modificari intre orele 08:00-21:00.
ORA-06512: at line 5
04088. 00000 -  "error during execution of trigger '%s.%s'"
*Cause:    A runtime error occurred during execution of a trigger.
*Action:   Check the triggers which were involved in the operation.
```

CREATE

```
 8 ⊟ CREATE OR REPLACE TRIGGER exercitiul_12
 9   AFTER CREATE OR DROP OR ALTER ON SCHEMA
10
11 ⊟ BEGIN
12 ⊟     IF TO_CHAR(SYSDATE, 'hh24') BETWEEN 0 AND 8 OR
13          TO_CHAR(SYSDATE, 'hh24') BETWEEN 21 AND 24
14      THEN
15          RAISE_APPLICATION_ERROR(-20010, 'In afara programului de lucru.
16              Incercati sa faceti modificari intre orele 08:00-21:00.');
17      END IF;
18   END;
19   /
20   rollback;
21
22   alter table angajati drop column salariu;
23   /
24   drop table angajati;
25   /
26   create table test(id_test NUMBER);
```

Script Output × ▷ Query Result ×

📌 ✐ 🖫 🖨 🗐 | Task completed in 0.035 seconds

```
create table test(id_test NUMBER)
Error report -
ORA-04088: error during execution of trigger 'ANGIFLUTUR.EXERCITIUL_12'
ORA-00604: error occurred at recursive SQL level 1
ORA-20010: In afara programului de lucru.
           Incercati sa faceti modificari intre orele 08:00-21:00.
ORA-06512: at line 5
04088. 00000 -  "error during execution of trigger '%s.%s'"
*Cause:    A runtime error occurred during execution of a trigger.
*Action:   Check the triggers which were involved in the operation.
```