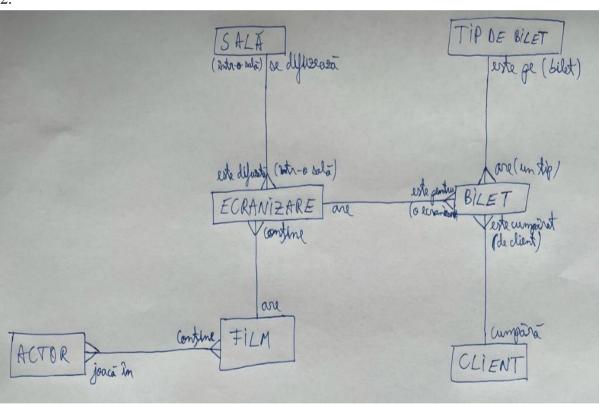
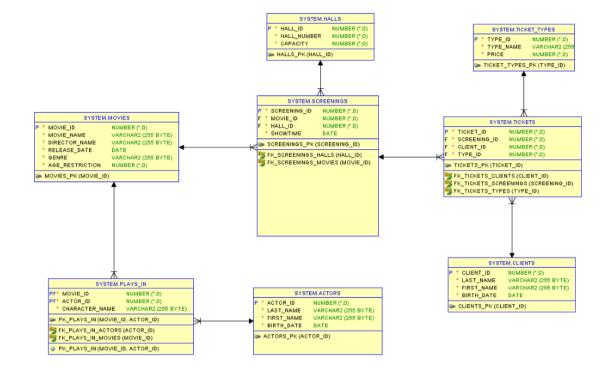
Proiect SGBD

-Cinema Database-

1. Baza de date este a unui cinema cu o singură locație (nu un lanț de cinematografe precum Cinema City), dar cu săli multiple. Cu ajutorul acestei baze de date clienții își pot cumpăra bilete la anumite ecranizări ale filmelor pe care vor să le vizioneze, biletele având diferite tipuri pentru a putea determina prețul acestora. De asemenea, în baza de date se află și actorii care joacă în filmele care sunt ecranizate pentru a putea fi afișați alături de filmul/filmele în care joacă.

2.





4.

```
CREATE TABLE ACTORS (
    actor id INT PRIMARY KEY,
    last_name varchar(255) NOT NULL,
    first name varchar(255) NOT NULL,
    birth date DATE NOT NULL
);
CREATE TABLE MOVIES (
    movie_id INT PRIMARY KEY,
    movie_name varchar(255) NOT NULL,
    director name varchar(255) NOT NULL,
    release_date DATE NOT NULL,
      genre varchar(255) NOT NULL,
    age_restriction int NOT NULL
);
CREATE TABLE PLAYS IN (
    movie_id INT NOT NULL,
    actor_id INT NOT NULL,
    character_name varchar(255) NOT NULL,
      CONSTRAINT FK_PLAYS_IN_MOVIES FOREIGN KEY (movie_id) REFERENCES
MOVIES(movie_id),
      CONSTRAINT FK_PLAYS_IN_ACTORS FOREIGN KEY (actor_id) REFERENCES
ACTORS(actor_id),
      CONSTRAINT PK_PLAYS_IN PRIMARY KEY (movie_id, actor_id)
);
CREATE TABLE CLIENTS (
```

```
client id INT PRIMARY KEY,
   last name varchar(255) NOT NULL,
   first name varchar(255) NOT NULL,
    birth date DATE NOT NULL
);
CREATE TABLE HALLS (
    hall id INT PRIMARY KEY,
    hall_number INT NOT NULL,
      capacity INT NOT NULL
);
CREATE TABLE SCREENINGS (
   screening id INT PRIMARY KEY,
   movie id INT NOT NULL,
    hall id INT NOT NULL,
      showtime DATE NOT NULL,
      CONSTRAINT FK_SCREENINGS_MOVIES FOREIGN KEY (movie_id) REFERENCES
MOVIES(movie id),
      CONSTRAINT FK SCREENINGS HALLS FOREIGN KEY (hall id) REFERENCES
HALLS(hall id)
);
CREATE TABLE TICKET TYPES (
   type id INT PRIMARY KEY,
   type_name VARCHAR(255) NOT NULL,
      price INT NOT NULL
);
CREATE TABLE TICKETS (
   ticket id INT PRIMARY KEY,
    screening_id INT NOT NULL,
    client_id INT NOT NULL,
   type_id INT NOT NULL,
      CONSTRAINT FK_TICKETS_SCREENINGS FOREIGN KEY (screening_id) REFERENCES
SCREENINGS(screening_id),
      CONSTRAINT FK_TICKETS_CLIENTS FOREIGN KEY (client_id) REFERENCES
CLIENTS(client_id),
      CONSTRAINT FK_TICKETS_TYPES FOREIGN KEY (type_id) REFERENCES
TICKET TYPES(type id)
);
```

5.

```
INSERT INTO ACTORS
VALUES (1, 'Leonardo', 'DiCaprio', TO_DATE('1974/11/11', 'yyyy/mm/dd'));

INSERT INTO ACTORS
VALUES (2, 'Jamie', 'Foxx', TO_DATE('1967/12/13', 'yyyyy/mm/dd'));

INSERT INTO ACTORS
VALUES (3, 'Gary', 'Oldman', TO_DATE('1958/03/21', 'yyyy/mm/dd'));

INSERT INTO ACTORS
VALUES (4, 'Robert', 'Pattinson', TO_DATE('1986/05/13', 'yyyyy/mm/dd'));

INSERT INTO ACTORS
VALUES (5, 'Matthew', 'McConaughey', TO_DATE('1969/11/04', 'yyyyy/mm/dd'));

INSERT INTO ACTORS
VALUES (6, 'Joseph', 'Gordon-Levitt', TO_DATE('1981/02/17', 'yyyyy/mm/dd'));

select * from actors;
```

```
Worksheet Query Builder
   ----ACTORS INSERTS----
   INSERT INTO ACTORS
   VALUES (1, 'Leonardo', 'DiCaprio', TO DATE('1974/11/11', 'yyyy/mm/dd'));
   INSERT INTO ACTORS
   VALUES (2, 'Jamie', 'Foxx', TO DATE('1967/12/13', 'yyyy/mm/dd'));
   INSERT INTO ACTORS
   VALUES (3. 'Gary'. 'Oldman'. TO DATE('1958/03/21'. 'vvvv/mm/dd'))
Script Output X Query Result X
📌 🥢 🔒 💂 | Task completed in 0.124 seconds
1 row inserted.
Script Output × Query Result ×
📌 🚇 🙌 💁 SQL | All Rows Fetched: 6 in 0.011 seconds

⊕ BIRTH_DATE

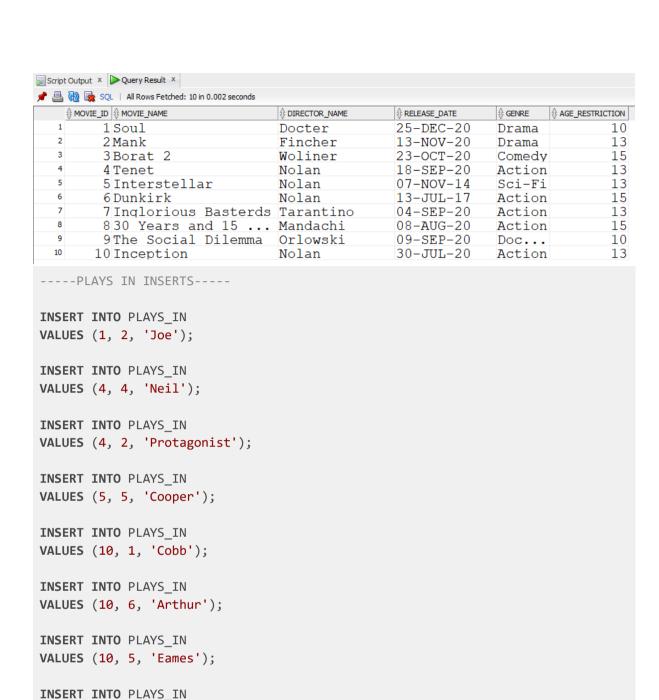
    1
             1 Leonardo DiCaprio
                                                 11-NOV-74
             2 Jamie Foxx
    2
                                                  13-DEC-67
                         Oldman
                                                 21-MAR-58
    3
             3 Garv
             4 Robert Pattinson
    4
                                                 13-MAY-86
    5
             5 Matthew McConaughev
                                                04-NOV-69
             6 Joseph Gordon-Levitt 17-FEB-81
    6
```

```
INSERT INTO MOVIES
VALUES (1, 'Soul', 'Docter', To_DATE('2020/12/25', 'yyyyy/mm/dd'), 'Drama', 10);

INSERT INTO MOVIES
VALUES (2, 'Mank', 'Fincher', To_DATE('2020/11/13', 'yyyy/mm/dd'), 'Drama', 13);

INSERT INTO MOVIES
VALUES (3, 'Borat 2', 'Woliner', To_DATE('2020/10/23', 'yyyy/mm/dd'), 'Comedy', 15);
```

```
INSERT INTO MOVIES
VALUES (4, 'Tenet', 'Nolan', TO DATE('2020/09/18', 'yyyy/mm/dd'), 'Action', 13);
INSERT INTO MOVIES
VALUES (5, 'Interstellar', 'Nolan', TO_DATE('2014/11/07', 'yyyy/mm/dd'), 'Sci-
 Fi', 13);
INSERT INTO MOVIES
VALUES (6, 'Dunkirk', 'Nolan', TO_DATE('2017/07/13', 'yyyy/mm/dd'), 'Action',
 15);
 INSERT INTO MOVIES
VALUES (7, 'Inglorious Basterds', 'Tarantino', TO_DATE('2020/09/04',
 'yyyy/mm/dd'), 'Action', 13);
 INSERT INTO MOVIES
 VALUES (8, '30 Years and 15 Minutes', 'Mandachi', TO_DATE('2020/08/08',
 'yyyy/mm/dd'), 'Action', 15);
 INSERT INTO MOVIES
 VALUES (9, 'The Social Dilemma', 'Orlowski', TO_DATE('2020/09/09',
 'yyyy/mm/dd'), 'Documentary', 10);
 INSERT INTO MOVIES
VALUES (10, 'Inception', 'Nolan', TO DATE('2020/07/30', 'yyyy/mm/dd'), 'Action',
13);
 select * from movies;
   VALUES (8, '30 Years and 15 Minutes', 'Mandachi', To_DATE('2020/08/08', 'yyyy/mm/dd'), 'Action', 15);
   INSERT INTO MOVIES
   VALUES (9, 'The Social Dilemma', 'Orlowski', TO_DATE('2020/09/09', 'yyyy/mm/dd'), 'Documentary', 10);
  INSERT INTO MOVIES
  VALUES (10, 'Inception', 'Nolan', TO DATE('2020/07/30', 'yyyy/mm/dd'), 'Action', 13);
  select * from movies;
  cript Output × Decry Result ×
📌 🧽 📑 🖺 📓 | Task completed in 0.116 seconds
1 row inserted.
```



VALUES (7, 1, 'Aldo Raine');

VALUES (7, 6, 'Hans Landa');

INSERT INTO PLAYS IN

INSERT INTO PLAYS_IN
VALUES (2, 5, 'Kane');

INSERT INTO PLAYS_IN
VALUES (2, 3, 'Mank');

INSERT INTO PLAYS_IN
VALUES (2, 4, 'Joe');

select * from plays_in;

```
VALUES (2, 5, 'Kane');

INSERT INTO PLAYS_IN
VALUES (2, 3, 'Mank');

INSERT INTO PLAYS_IN
VALUES (2, 4, 'Joe');

select * from plays_in;

Script Output * Query Result *

POPUR PROBLEM OF TASK completed in 0.133 seconds

1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.

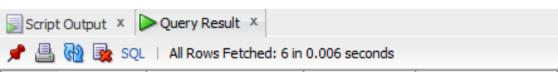
1 row inserted.
```

Script Output × Query Result ×								
📌 🖺 🙀 🔯 SQL All Rows Fetched: 12 in 0.006 seconds								
	∯ MOVIE_ID							
1	1	2	Joe					
2	4	4	Neil					
3	4	2	Protagonist					
4	5	5	5 Cooper					
5	10	1	Cobb					
6	10	6	Arthur					
7	10	5	Eames					
8	7	1	Aldo Raine					
9	7	6	Hans Landa					
10	2	5	Kane					
11	2	3	Mank					
12	2	4	4 Joe					

```
INSERT INTO CLIENTS
VALUES (1, 'Tudorache', 'Theodor', TO_DATE('2000/05/20', 'yyyyy/mm/dd'));
INSERT INTO CLIENTS
```

```
VALUES (2, 'Bugheciu', 'Eduard', TO DATE('2000/02/27', 'yyyy/mm/dd'));
INSERT INTO CLIENTS
VALUES (3, 'Constantin', 'Sorin', TO_DATE('1987/07/17', 'yyyy/mm/dd'));
 INSERT INTO CLIENTS
VALUES (4, 'Craciun', 'Andrei', TO_DATE('2008/09/07', 'yyyy/mm/dd'));
INSERT INTO CLIENTS
VALUES (5, 'Curtamet', 'Ixan', TO DATE('2006/08/02', 'yyyy/mm/dd'));
INSERT INTO CLIENTS
VALUES (6, 'Raduna', 'Daniel', TO_DATE('2005/10/08', 'yyyy/mm/dd'));
select * from clients;
 Worksheet Query Builder
```

```
INSERT INTO CLIENTS
    VALUES (4, 'Craciun', 'Andrei', TO DATE('2008/09/07', 'yyyy/mm/dd'));
    INSERT INTO CLIENTS
    VALUES (5, 'Curtamet', 'Ixan', TO DATE('2006/08/02', 'yyyy/mm/dd'));
    INSERT INTO CLIENTS
    VALUES (6, 'Raduna', 'Daniel', TO DATE('2005/10/08', 'yyyy/mm/dd'));
    select * from clients;
Script Output × Query Result ×
📌 🧼 🔡 볼 🔋 | Task completed in 0.136 seconds
1 row inserted.
```



	CLIENT_ID	LAST_NAME		BIRTH_DATE
1	1	Tudorache	Theodor	20-MAY-00
2	2	Buqheciu	Eduard	27-FEB-00
3	3	Constantin	Sorin	17-JUL-87
4	4	Craciun	Andrei	07-SEP-08
5	5	Curtamet	Ixan	02-AUG-06
6	6	Raduna	Daniel	08-OCT-05

```
INSERT INTO HALLS
VALUES (1, 1, 100);

INSERT INTO HALLS
VALUES (2, 2, 50);

INSERT INTO HALLS
VALUES (3, 3, 250);

INSERT INTO HALLS
VALUES (4, 4, 100);

INSERT INTO HALLS
VALUES (5, 5, 150);

INSERT INTO HALLS
VALUES (6, 6, 5);

select * from halls;
```

```
INSERT INTO HALLS
               VALUES (4, 4, 100);
               INSERT INTO HALLS
               VALUES (5, 5, 150);
               INSERT INTO HALLS
               VALUES (6, 6, 5);
               select * from halls;
            Script Output × Duery Result ×
            📌 🧽 🔡 遏 | Task completed in 0.107 seconds
            1 row inserted.
            1 row inserted.
            1 row inserted.
            1 row inserted.
            1 row inserted.
Script Output × Query Result ×
   All Rows Fetched: 6 in 0.007:
       100
     1
                                       50
     2
                                     250
     3
                                      100
     4
                                      150
     5
                                          5
     6
```

Worksheet Query Builder

```
INSERT INTO SCREENINGS
VALUES (1, 1, 6, TO_DATE('2020-12-25 13:00', 'YYYY-MM-DD HH24:MI'));
```

```
INSERT INTO SCREENINGS
VALUES (2, 3, 6, TO DATE('2020-12-25 17:00', 'YYYY-MM-DD HH24:MI'));
INSERT INTO SCREENINGS
VALUES (3, 1, 1, TO_DATE('2020-12-30 21:00', 'YYYY-MM-DD HH24:MI'));
INSERT INTO SCREENINGS
VALUES (4, 2, 2, TO DATE('2021-01-02 20:00', 'YYYY-MM-DD HH24:MI'));
INSERT INTO SCREENINGS
VALUES (5, 4, 3, TO_DATE('2020-01-03 17:00', 'YYYY-MM-DD HH24:MI'));
INSERT INTO SCREENINGS
VALUES (6, 4, 3, TO DATE('2021-01-03 17:00', 'YYYY-MM-DD HH24:MI'));
INSERT INTO SCREENINGS
VALUES (7, 5, 4, TO_DATE('2021-01-03 13:00', 'YYYY-MM-DD HH24:MI'));
INSERT INTO SCREENINGS
VALUES (8, 6, 5, TO DATE('2021-01-05 11:00', 'YYYY-MM-DD HH24:MI'));
INSERT INTO SCREENINGS
VALUES (9, 7, 6, TO DATE('2021-01-05 20:00', 'YYYY-MM-DD HH24:MI'));
INSERT INTO SCREENINGS
VALUES (10, 8, 6, TO_DATE('2021-01-01 21:00', 'YYYY-MM-DD HH24:MI'));
INSERT INTO SCREENINGS
VALUES (11, 9, 5, TO_DATE('2020-12-29 17:00', 'YYYY-MM-DD HH24:MI'));
INSERT INTO SCREENINGS
VALUES (12, 10, 4, TO_DATE('2020-12-31 10:00', 'YYYY-MM-DD HH24:MI'));
select * from screenings;
```

```
| INSERT INTO SCREENINGS | VALUES (10, 8, 6, TO_DATE('2021-01-01 21:00', 'YYYY-MM-DD HH24:MI')); | INSERT INTO SCREENINGS | VALUES (11, 9, 5, TO_DATE('2020-12-29 17:00', 'YYYY-MM-DD HH24:MI')); | INSERT INTO SCREENINGS | VALUES (12, 10, 4, TO_DATE('2020-12-31 10:00', 'YYYY-MM-DD HH24:MI')); | select * from screenings; | Script Output * | Query Result * | Query Result * | Query Result * | Task completed in 0.135 seconds | 1 row inserted. | 1
```

Script Output × Query Result ×									
📌 🖺 🙀 🔯 SQL All Rows Fetched: 12 in 0.006 seconds									
		MOVIE_ID	♦ HALL_ID						
1	1	1	6	25-DEC-20					
2	2	3	6	25-DEC-20					
3	3	1	1	30-DEC-20					
4	4	2	2	02-JAN-21					
5	5	4	3	03-JAN-20					
6	6	4	3	03-JAN-21					
7	7	5	4	03-JAN-21					
8	8	6	5	05-JAN-21					
9	9	7	6	05-JAN-21					
10	10	8	6	01-JAN-21					
11	11	9	5	29-DEC-20					
12	12	10	4	31-DEC-20					

```
INSERT INTO TICKET_TYPES
VALUES (1, 'Adult', 21);
INSERT INTO TICKET_TYPES
```

```
VALUES (2, 'Student', 14);
INSERT INTO TICKET TYPES
VALUES (3, 'Retired', 16);
select * from ticket_types;
Worksheet Query Builder
   ----TICKET TYPES INSERTS----
   INSERT INTO TICKET TYPES
   VALUES (1, 'Adult', 21);
   INSERT INTO TICKET TYPES
   VALUES (2, 'Student', 14);
   INSERT INTO TICKET TYPES
   VALUES (3, 'Retired', 16);
   select * from ticket types;
   ----TICKETS INSERTS----
   INSERT INTO TICKETS
Script Output X Query Result X
📌 🧼 🖪 🖺 🔋 | Task completed in 0.102 seconds
                                    Script Output × Query Result ×
1 row inserted.
                                    📌 📇 🙀 🗽 SQL | All Rows Fetched: 3 in 0.

↑ TYPE_ID | ↑ TYPE_NAME | ↑ PRICE |

1 row inserted.
                                                 1 Adult
                                         1
                                                 2 Student 14
1 row inserted.
                                                 3Retired 16
----TICKETS INSERTS----
```

```
INSERT INTO TICKETS
VALUES (1, 1, 1, 1);

INSERT INTO TICKETS
VALUES (2, 1, 2, 2);

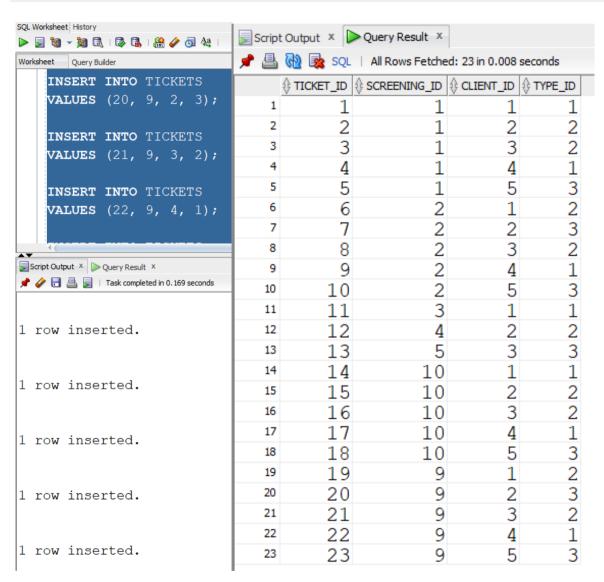
INSERT INTO TICKETS
VALUES (3, 1, 3, 2);

INSERT INTO TICKETS
VALUES (4, 1, 4, 1);
```

```
INSERT INTO TICKETS
VALUES (5, 1, 5, 3);
INSERT INTO TICKETS
VALUES (6, 2, 1, 2);
INSERT INTO TICKETS
VALUES (7, 2, 2, 3);
INSERT INTO TICKETS
VALUES (8, 2, 3, 2);
INSERT INTO TICKETS
VALUES (9, 2, 4, 1);
INSERT INTO TICKETS
VALUES (10, 2, 5, 3);
INSERT INTO TICKETS
VALUES (11, 3, 1, 1);
INSERT INTO TICKETS
VALUES (12, 4, 2, 2);
INSERT INTO TICKETS
VALUES (13, 5, 3, 3);
INSERT INTO TICKETS
VALUES (14, 10, 1, 1);
INSERT INTO TICKETS
VALUES (15, 10, 2, 2);
INSERT INTO TICKETS
VALUES (16, 10, 3, 2);
INSERT INTO TICKETS
VALUES (17, 10, 4, 1);
INSERT INTO TICKETS
VALUES (18, 10, 5, 3);
INSERT INTO TICKETS
VALUES (19, 9, 1, 2);
INSERT INTO TICKETS
VALUES (20, 9, 2, 3);
INSERT INTO TICKETS
VALUES (21, 9, 3, 2);
```

```
INSERT INTO TICKETS
VALUES (22, 9, 4, 1);

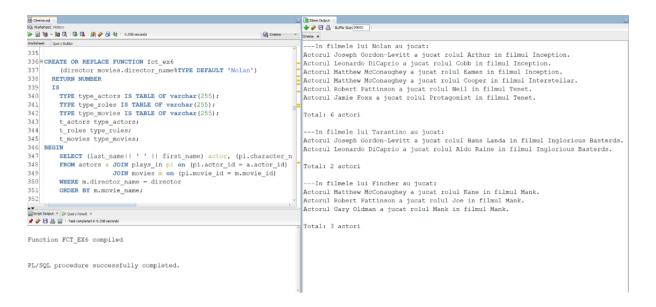
INSERT INTO TICKETS
VALUES (23, 9, 5, 3);
select * from tickets;
```



6. Să se definească o funcție care să afișeze numele actorilor, dar și personajul lor, care au jucat în filmele regizate de un regizor cu nume dat că parametru(Parametrul default va fi 'Nolan'). Acest subprogram trebuie să returneze numărul acestor actori.

```
CREATE OR REPLACE FUNCTION fct_ex6
     (director movies.director_name%TYPE DEFAULT 'Nolan')
RETURN NUMBER
```

```
IS
     TYPE type_actors IS TABLE OF varchar(255);
     TYPE type roles IS TABLE OF varchar(255);
     TYPE type movies IS TABLE OF varchar(255);
    t actors type actors;
    t roles type roles;
   t movies type movies;
BEGIN
     SELECT (last name|| ' ' || first name) actor,
(pi.character_name) personaj, (m.movie_name) BULK COLLECT INTO
t actors, t roles, t movies
     FROM actors a JOIN plays in pi on (pi.actor id = a.actor id)
                JOIN movies m on (pi.movie_id = m.movie_id)
     WHERE m.director name = director
     ORDER BY m.movie name;
     DBMS_OUTPUT.PUT_LINE('---In filmele lui ' || director || ' au
jucat:');
     FOR I in t actors.first..t actors.last LOOP
     DBMS OUTPUT.PUT_LINE('Actorul ' || t_actors(i) || ' a jucat
rolul ' || t roles(i) || ' in filmul ' || t movies(i) || '.');
     END LOOP;
     DBMS OUTPUT.NEW LINE;
     RETURN t actors.count;
END fct ex6;
--APELARE:
BEGIN
     DBMS OUTPUT.PUT LINE('Total: ' || fct ex6() || ' actori');
     DBMS OUTPUT.NEW LINE;
     DBMS OUTPUT.PUT LINE('Total: ' || fct ex6('Tarantino') || '
actori');
     DBMS OUTPUT.NEW LINE;
     DBMS OUTPUT.PUT LINE('Total: ' || fct ex6('Fincher') || '
actori');
END;
```



7. Să se definească o procedură care să afișeze(o singură dată) numele și vârstă tuturor clienților care au cumpărat bilete de tipul dat ca parametru(Parametrul default va fi 'Adult').

```
CREATE OR REPLACE PROCEDURE proc ex7
     (tip ticket types.type name%TYPE DEFAULT 'Adult')
     IS
     CURSOR crs IS
     SELECT unique(last name), first_name, birth_date
     FROM clients c join tickets t on (t.client id = c.client id)
                      join ticket_types tt on (tt.type_id =
t.type_id)
     WHERE tt.type name = tip;
     TYPE ticket typess IS TABLE OF ticket types.type name%TYPE;
    all_types ticket_typess;
    varsta NUMBER;
    este tip BOOLEAN := FALSE;
BEGIN
     SELECT type_name bulk collect into all_types
     FROM ticket types;
     FOR i IN all types.first..all types.last LOOP
     IF (all types(i) = tip) THEN
            este tip := TRUE;
     END IF;
     END LOOP;
     IF (este tip = TRUE) THEN
     DBMS_OUTPUT.PUT_LINE('---Bilete de tipul ' || tip || ' au
fost cumparate de urmatorii clienti: ');
     ELSE
```

```
DBMS OUTPUT.PUT LINE ('Nu exista bilete de tipul ' || tip ||
  '.');
            END IF;
            FOR i in crs LOOP
                 varsta := TRUNC(MONTHS BETWEEN(sysdate, i.birth date) /
  12);
            IF (varsta >= 20) THEN
                      DBMS OUTPUT.PUT LINE('Clientul ' || i.last name || ' '
  || i.first name || ' cu varsta de ' ||
  TRUNC(MONTHS_BETWEEN(sysdate, i.birth_date) / 12) || ' de ani.');
            ELSE
                      DBMS OUTPUT.PUT LINE('Clientul ' || i.last name || ' '
  || i.first_name || ' cu varsta de ' ||
  TRUNC(MONTHS BETWEEN(sysdate, i.birth date) / 12) |  'ani.');
            END IF;
            END LOOP;
            DBMS OUTPUT.NEW LINE;
  END proc ex7;
  --APELARE:
  BEGIN
            proc ex7();
            proc ex7('Student');
            proc ex7('Retired');
            proc ex7('Dummy'); -- nu se va afisa nimic
  END;
> 📓 🐚 → 🚵 🖏 | 🞝 | 🖟 🖟 | 🚜 🏈 📵 👯 | 0.063 seconds
                                                         ---Bilete de tipul Adult au fost cumparate de urmatorii clienti:
Clientul Tudorache Theodor cu varsta de 20 de ani.
Clientul Craciun Andrei cu varsta de 12 ani.
374 --EX. 7
375
376 CREATE OR REPLACE PROCEDURE proc_ex7
     (tip ticket_types.type_name%TYPE DEFAULT 'Adult')
IS
                                                         ---Bilete de tipul Student au fost cumparate de urmatorii clienti:
Clientul Bugheciu Eduard cu varsta de 20 de ani.
     CURSOR crs IS
SELECT unique(last_name), first_name, birth_date
                                                         Clientul Tudorache Theodor cu varsta de 20 de ani.
                                                         Clientul Constantin Sorin cu varsta de 33 de ani
       FROM clients c join tickets t on (t.client_id = c.client_
join ticket_types tt on (tt.type_id = t.ty
                                                          ---Bilete de tipul Retired au fost cumparate de urmatorii clienti:
         WHERE tt.type_name =
                                                         Clientul Curtamet Ixan cu varsta de 14 ani.
Clientul Bugheciu Eduard cu varsta de 20 de ani.
Clientul Constantin Sorin cu varsta de 33 de ani.
                          tip;
     TYPE ticket_typess IS TABLE OF ticket_types.type_name%TYPE;
all_types ticket_typess;
varsta NUMBER;
384
      este tip BOOLEAN := FALSE;
                                                         Nu exista bilete de tipul Dummy.
388 BEGIN
389
390
      SELECT type_name bulk collect into all_types
      FROM ticket types;
391
Procedure PROC EX7 compiled
PL/SQL procedure successfully completed.
```

8. Să se definească o funcție care să afișeze următoarele detalii: (numele filmului; dată și ora la care a fost ecranizat) despre filmul care a rulat la o capacitate de peste 90% din sala în care au fost ecranizate, având genul dat ca parametru. Subprogramul trebuie să returneze id-ul ecranizării respective.

```
CREATE OR REPLACE FUNCTION fct ex8
     (gen movies.genre%TYPE DEFAULT 'Comedy')
 RETURN NUMBER
 IS
     aux NUMBER := 0;
     screening screenings.screening id%TYPE;
    show time screenings.showtime%TYPE;
     movie movies.movie name%TYPE;
    sold tickets NUMBER;
     cap halls.capacity%TYPE;
BEGIN
     SELECT s.screening id, m.movie name, s.showtime,
count(t.ticket id) , h.capacity INTO screening, movie,
show time, sold tickets, cap
     FROM screenings s join halls h on (h.hall id = s.hall id)
                      join tickets t on (t.screening id =
s.screening id)
                      join movies m on (m.movie id = s.movie id)
     WHERE genre = gen
     GROUP BY s.screening id, m.movie name, s.showtime ,h.capacity
     HAVING COUNT(t.ticket id) >= h.capacity * (9/10);
     DBMS OUTPUT.PUT LINE('Filmul' || movie || ' a rulat la ' ||
TO CHAR(show time, 'dd/mm/yyyy HH24:MI') || ' cu capacitatea ' ||
sold_tickets || '/' || cap || '.');
     DBMS_OUTPUT.NEW_LINE;
     RETURN screening;
     EXCEPTION
     WHEN NO DATA FOUND THEN
           DBMS OUTPUT.PUT LINE('Nu exista filme care au rulat la
capacitate de peste 90% avand genul ' || gen || '.');
           DBMS OUTPUT.NEW LINE;
           return -1;
     WHEN TOO MANY ROWS THEN
           DBMS OUTPUT.PUT LINE('Exista mai multe filme care au
rulat la capacitate de peste 90% avand genul ' || gen || '.');
           DBMS OUTPUT.NEW LINE;
           return -2;
```

```
WHEN OTHERS THEN
                  DBMS OUTPUT.PUT LINE('Alta eroare!');
                  return -3;
 END fct ex8;
 --APELARE:
 BEGIN
          DBMS OUTPUT.PUT LINE('Id-ul ecranizarii: ' ||
 fct ex8('Drama'));
          DBMS OUTPUT.NEW LINE;
          DBMS_OUTPUT.PUT_LINE('Id-ul ecranizarii: ' ||
 fct ex8('Comedy'));
          DBMS OUTPUT.NEW LINE;
          DBMS OUTPUT.PUT LINE('Eroare: ' | fct ex8('Action')); -- mai
 mult de 1 film
          DBMS OUTPUT.NEW LINE;
          DBMS_OUTPUT.PUT_LINE('Eroare: ' || fct_ex8('Documentary')); -
 - niciun film
          DBMS_OUTPUT.NEW_LINE;
 END;
▶ 🗐 🐿 - 🚵 🖏 | 😘 | 🚱 🌽 / 🔞 🍇 | 0.055 seconds
                                                 Filmul Soul a rulat la 25/12/2020 13:00 cu capacitatea 5/5.
426 CREATE OR REPLACE FUNCTION fct ex8
     (gen movies.genre%TYPE DEFAULT 'Comedy')
                                                 Filmul Borat 2 a rulat la 25/12/2020 17:00 cu capacitatea 5/5.
    aux NUMBER := 0;
    screening screenings.screening_id%TYPE;
show_time screenings.showtime%TYPE;
                                                 Exista mai multe filme care au rulat la capacitate de peste 90% avand genul Action.
433
    movie movies.movie name%TYPE;
    sold_tickets NUMBER;
435
     cap halls.capacity%TYPE;
                                                 Nu exista filme care au rulat la capacitate de peste 90% avand genul Documentary.
436 BEGIN
    437
441
     WHERE genre = gen
🖈 🧳 🖥 📇 📓 | Task completed in 0.055 second
Function FCT EX8 compiled
PL/SQL procedure successfully completed.
```

9. Să se definească o procedură care să afișeze numele filmelor(o singură dată) și numele actorilor care au jucat în ele, care au rulat în sala cu capacitate dată ca parametru.

```
CREATE OR REPLACE PROCEDURE proc ex9
     (cap halls.capacity%TYPE)
     IS
     hall halls.hall id%TYPE;
    last movie movies.movie name%TYPE := '0'; -- nu exista niciun
film in baza de date cu numele '0'
     aux NUMBER := 0;
     CURSOR c IS
     SELECT unique(m.movie name), (a.last name | ' ' | |
a.first name) nume
     FROM screenings s join movies m on (m.movie id = s.movie id)
                            join plays in pi on (pi.movie id =
m.movie id)
                            join actors a on (a.actor id =
pi.actor_id)
     WHERE hall id = hall
     ORDER BY m.movie name;
BEGIN
     SELECT hall id into hall
     FROM halls
     WHERE capacity = cap;
     FOR i in c LOOP
     IF (i.movie name != last movie) THEN
           DBMS_OUTPUT.PUT_LINE ('---Filmul ' || i.movie_name || '
avand actorii: ');
     END IF;
     DBMS OUTPUT.PUT LINE (i.nume);
        last movie := i.movie name;
        aux := aux + 1;
     END LOOP;
     IF (aux = 0) THEN
     DBMS OUTPUT.PUT LINE('Nu exista filme care sa fi rulat in
sala cu capacitatea ' || cap);
     END IF;
     EXCEPTION
     WHEN TOO MANY ROWS THEN
           DBMS OUTPUT.PUT LINE('Exista mai multe sali cu
capacitatea ' || cap);
     WHEN NO DATA FOUND THEN
           DBMS OUTPUT.PUT LINE('Nu exista nicio sala care sa aiba
capacitatea ' || cap);
```

```
WHEN OTHERS THEN
                 DBMS OUTPUT.PUT LINE('Alta eroare');
 END proc ex9;
 --APELARE:
 BEGTN
         DBMS OUTPUT.PUT LINE('===Capacitate 5===');
         proc ex9(5); -- mai multe filme
         DBMS OUTPUT.NEW LINE;
         DBMS OUTPUT.PUT LINE('===Capacitate 250===');
         proc_ex9(250); -- un singur film
         DBMS OUTPUT.NEW LINE;
         DBMS OUTPUT.PUT LINE('===Capacitate 150===');
         proc ex9(150); -- niciun film
         DBMS OUTPUT.NEW LINE;
         DBMS OUTPUT.PUT LINE('===Capacitate 500===');
         proc ex9(500); -- nu exista capacitatea
         DBMS OUTPUT.NEW LINE;
         DBMS OUTPUT.PUT LINE('===Capacitate 100===');
         proc ex9(100); -- mai multe sali cu capacitatea respectiva
 END;
 /
                                                      💠 🥢 🖯 🔠 I Buffer
===Capacitate 5===
                                                       ---Filmul Inglorious Basterds avand actorii:
476 CREATE OR REPLACE PROCEDURE proc_ex9
                                                      Joseph Gordon-Levitt
     (cap halls.capacity%TYPE)
                                                      Leonardo DiCaprio
478
     hall halls.hall_id%TYPE;
                                                       ---Filmul Soul avand actorii:
                                                     Jamie Foxx
     last_movie movies.movie_name%TYPE := '0'; -- nu exista niciun
481
     aux NUMBER := 0:
                                                       ===Capacitate 250===
     CURSOR c IS
                                                       ---Filmul Tenet avand actorii:
        SELECT unique(m.movie_name), (a.last_name || ' ' || a.fir
                                                      Jamie Foxx
484
        FROM screenings s join movies m on (m.movie_id = s.movie_
                                                      Robert Pattinson
                      join plays in pi on (pi.movie id = m.mo
485
                      join actors a on (a.actor_id = pi.actor
                                                        -Capacitate 150-
487
         WHERE hall_id = hall
                                                      Nu exista filme care sa fi rulat in sala cu capacitatea 150
488
         ORDER BY m.movie name;
489 BEGIN
     SELECT hall_id into hall
                                                        --Capacitate 500--
                                                      Nu exista nicio sala care sa aiba capacitatea 500
491
      FROM halls
     WHERE capacity = cap;
                                                       --Capacitate 100---
                                                      Exista mai multe sali cu capacitatea 100
Script Output X Duery Result X
Procedure PROC_EX9 compiled
PL/SQL procedure successfully completed.
```

10. Să se definească un declanșator care să nu permită nimănui să lucreze în ziua de Crăciun cu comenzile UPDATE, INSERT, DELETE pe tabela filmelor. (Declanșatorul se va testa cu ziua în care ne aflăm, în loc de 25/12.)

```
CREATE OR REPLACE TRIGGER trig ex10
     BEFORE INSERT OR UPDATE OR DELETE ON movies
BEGIN
     IF (TO CHAR(SYSDATE, 'DD/MM') = '25/12') THEN
     RAISE APPLICATION ERROR(-20001, 'Ia o pauza! E Craciunul.');
     END IF;
END;
/
--TESTARE:
INSERT INTO MOVIES
VALUES (15, 'Soul', 'Docter', TO_DATE('2020/12/25', 'yyyy/mm/dd'),
'Drama', 10);
DELETE FROM MOVIES
WHERE movie id = 11;
UPDATE MOVIES
SET movie name = 'Film'
WHERE movie id = 11;
```

```
Trigger TRIG EX10 compiled
Error starting at line : 546 in command -
INSERT INTO MOVIES
VALUES (15, 'Soul', 'Docter', TO DATE('2020/12/25', 'yyyy/mm/dd'), 'Drama', 10)
Error report -
ORA-20001: Ia o pauza! E Craciunul.
ORA-06512: at "SYSTEM.TRIG_EX10", line 3
ORA-04088: error during execution of trigger 'SYSTEM.TRIG EX10'
Error starting at line : 549 in command -
DELETE FROM MOVIES
WHERE movie id = 11
Error report -
ORA-20001: Ia o pauza! E Craciunul.
ORA-06512: at "SYSTEM.TRIG EX10", line 3
ORA-04088: error during execution of trigger 'SYSTEM.TRIG EX10'
Error starting at line : 552 in command -
UPDATE MOVIES
SET movie name = 'Film'
WHERE movie id = 11
Error report -
ORA-20001: Ia o pauza! E Craciunul.
ORA-06512: at "SYSTEM.TRIG EX10", line 3
ORA-04088: error during execution of trigger 'SYSTEM.TRIG EX10'
```

- 11. Să se definească un declanșator care să nu permită(să afișeze o eroare) inserarea în tabela biletelor a unor valori corespunzătoare unui client care nu are vârsta necesară pentru a putea vedea o anumită ecranizare a unui film.
- --functie auxiliara pentru declansator

```
CREATE OR REPLACE FUNCTION are_voie_ex11
    (screening tickets.screening_id%TYPE, id_client
clients.client_id%TYPE)
    RETURN BOOLEAN
    IS
    CURSOR crs IS
    SELECT m.age_restriction
    FROM screenings s join movies m on (m.movie_id = s.movie_id)
    WHERE s.screening_id = screening;
```

```
CURSOR crs2 IS
     SELECT TRUNC(MONTHS BETWEEN(sysdate, birth date) / 12)
     FROM clients
     WHERE client id = id client;
     age number;
    age r movies.age_restriction%TYPE;
BEGIN
     OPEN crs;
     FETCH crs INTO age_r;
     CLOSE crs;
     OPEN crs2;
     FETCH crs2 INTO age;
     CLOSE crs2;
     IF (age r <= age) THEN</pre>
     RETURN TRUE;
     ELSE
     RETURN FALSE;
     END IF;
END are voie ex11;
CREATE OR REPLACE TRIGGER trig ex11
     BEFORE INSERT ON tickets
     FOR EACH ROW
BEGIN
     IF (are voie ex11(:NEW.screening id, :NEW.client id) = FALSE)
THEN
     RAISE APPLICATION ERROR(-20001, 'ATENTIE! Clientul nu are
varsta necesara pentru a vedea acest film!');
     END IF;
END;
/
--TESTARE:
INSERT INTO TICKETS
VALUES (28, 2, 4, 2); -- nu are voie
INSERT INTO TICKETS
VALUES (28, 2, 1, 2); -- are voie
```

```
Cinema.sql
SQL Worksheet History
Worksheet Query Builder
615 /
616
617 -- TESTARE:
618
619 INSERT INTO TICKETS
620 VALUES (28, 2, 4, 2); --nu are voie
621
622 INSERT INTO TICKETS
623 VALUES (28, 2, 1, 2); -- are voie
624
625 --EX. 12
626
Script Output × Query Result ×
📌 🤌 🔡 💂 📗 | Task completed in 0.045 seconds
Trigger TRIG EX11 compiled
Error starting at line : 619 in command -
INSERT INTO TICKETS
VALUES (28, 2, 4, 2)
Error report -
ORA-20001: ATENTIE! Clientul nu are varsta necesara pentru a vedea acest film!
ORA-06512: at "SYSTEM.TRIG EX11", line 3
ORA-04088: error during execution of trigger 'SYSTEM.TRIG_EX11'
1 row inserted.
```

12. Să se definească un declanșator care să introducă date într-un tabel de tip audit după ce utilizatorul a folosit o comandă LDD.

```
SYS.SYSEVENT,
SYS.DICTIONARY_OBJ_NAME,
SYSDATE);

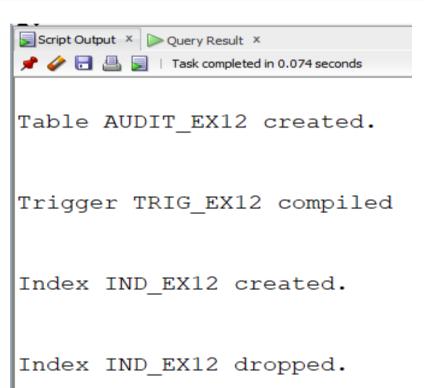
END;

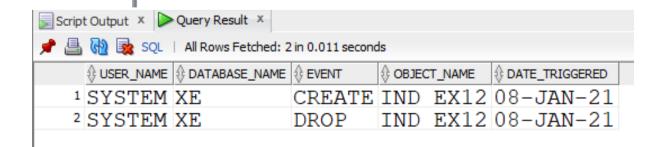
--TESTARE:

CREATE INDEX ind_ex12
ON movies(movie_name);

DROP INDEX ind_ex12;

SELECT * FROM audit_ex12;
```





```
CREATE OR REPLACE PACKAGE package ex13 AS
     FUNCTION pack fct ex6(director movies.director name%TYPE
DEFAULT 'Nolan')
     RETURN NUMBER;
     PROCEDURE pack proc ex7(tip ticket types.type name%TYPE
DEFAULT 'Adult');
     FUNCTION pack fct ex8(gen movies.genre%TYPE DEFAULT 'Comedy')
     RETURN NUMBER;
     PROCEDURE pack proc ex9(cap halls.capacity%TYPE);
     FUNCTION pack are voie ex11(screening
tickets.screening id%TYPE, id client clients.client id%TYPE)
     RETURN BOOLEAN;
END package ex13;
CREATE OR REPLACE PACKAGE BODY package ex13 AS
     FUNCTION pack_fct_ex6
     (director movies.director name%TYPE DEFAULT 'Nolan')
     RETURN NUMBER
     TS
     TYPE type_actors IS TABLE OF varchar(255);
     TYPE type roles IS TABLE OF varchar(255);
     TYPE type movies IS TABLE OF varchar(255);
       t actors type actors;
       t roles type roles;
       t movies type movies;
     BEGIN
     SELECT (last name|| ' ' || first name) actor,
(pi.character name) personaj, (m.movie name) BULK COLLECT INTO
t actors, t roles, t movies
     FROM actors a JOIN plays in pi on (pi.actor id = a.actor id)
                      JOIN movies m on (pi.movie id = m.movie id)
     WHERE m.director name = director
     ORDER BY m.movie_name;
     DBMS OUTPUT.PUT LINE('---In filmele lui ' || director || ' au
jucat:');
     FOR I in t actors.first..t actors.last LOOP
           DBMS OUTPUT.PUT LINE('Actorul ' || t_actors(i) || ' a
```

```
jucat rolul ' || t_roles(i) || ' in filmul ' || t_movies(i) ||
'.');
     END LOOP;
     DBMS OUTPUT.NEW LINE;
     RETURN t actors.count;
     END pack fct ex6;
     PROCEDURE pack proc ex7
     (tip ticket types.type name%TYPE DEFAULT 'Adult')
     IS
     CURSOR crs IS
           SELECT unique(last_name), first_name, birth_date
           FROM clients c join tickets t on (t.client id =
c.client id)
                           join ticket_types tt on (tt.type_id =
t.type_id)
           WHERE tt.type name = tip;
     TYPE ticket typess IS TABLE OF ticket types.type name%TYPE;
        all types ticket typess;
        varsta NUMBER;
        este tip BOOLEAN := FALSE;
     SELECT type name bulk collect into all types
     FROM ticket types;
     FOR i IN all types.first..all types.last LOOP
           IF (all types(i) = tip) THEN
                este tip := TRUE;
           END IF;
     END LOOP;
     IF (este tip = TRUE) THEN
           DBMS OUTPUT.PUT LINE('---Bilete de tipul ' | tip | '
au fost cumparate de urmatorii clienti: ');
     ELSE
          DBMS OUTPUT.PUT LINE ('Nu exista bilete de tipul ' ||
tip || '.');
     END IF;
     FOR i in crs LOOP
            varsta := TRUNC(MONTHS_BETWEEN(sysdate, i.birth_date)
/ 12);
           IF (varsta >= 20) THEN
```

```
DBMS OUTPUT.PUT LINE('Clientul ' || i.last name ||
' ' || i.first name || ' cu varsta de ' ||
TRUNC(MONTHS BETWEEN(sysdate, i.birth date) / 12) | ' de ani.');
           ELSE
                DBMS OUTPUT.PUT LINE('Clientul' || i.last name ||
' ' || i.first name || ' cu varsta de ' ||
TRUNC(MONTHS BETWEEN(sysdate, i.birth date) / 12) | ' ani.');
           END IF;
     END LOOP;
     DBMS OUTPUT.NEW LINE;
     END pack proc ex7;
     FUNCTION pack fct ex8
     (gen movies.genre%TYPE DEFAULT 'Comedy')
     RETURN NUMBER
     IS
     aux NUMBER := 0;
     screening screenings.screening id%TYPE;
        show time screenings.showtime%TYPE;
     movie movies.movie name%TYPE;
        sold tickets NUMBER;
     cap halls.capacity%TYPE;
     BEGIN
     SELECT s.screening id, m.movie name, s.showtime,
count(t.ticket id) , h.capacity INTO screening, movie,
show time, sold tickets, cap
     FROM screenings s join halls h on (h.hall id = s.hall id)
                           join tickets t on (t.screening id =
s.screening id)
                           join movies m on (m.movie id =
s.movie id)
     WHERE genre = gen
     GROUP BY s.screening id, m.movie name, s.showtime ,h.capacity
     HAVING COUNT(t.ticket id) >= h.capacity * (9/10);
     DBMS OUTPUT.PUT_LINE('Filmul ' || movie || ' a rulat la ' ||
TO CHAR(show time, 'dd/mm/yyyy HH24:MI') || ' cu capacitatea ' ||
sold tickets || '/' || cap || '.');
     DBMS OUTPUT.NEW LINE;
     RETURN screening;
     EXCEPTION
           WHEN NO DATA FOUND THEN
```

```
DBMS OUTPUT.PUT LINE('Nu exista filme care au
rulat la capacitate de peste 90% avand genul ' | gen);
                DBMS OUTPUT.NEW LINE;
                return -1;
           WHEN TOO MANY ROWS THEN
                DBMS OUTPUT.PUT LINE('Exista mai multe filme care
au rulat la capacitate de peste 90% avand genul ' | gen);
                DBMS OUTPUT.NEW LINE;
                return -2;
           WHEN OTHERS THEN
                DBMS OUTPUT.PUT LINE('Alta eroare!');
                return -3;
     END pack_fct_ex8;
     PROCEDURE pack proc ex9
     (cap halls.capacity%TYPE)
     IS
     hall halls.hall id%TYPE;
        last_movie movies.movie_name%TYPE := '0'; -- nu exista
niciun film in baza de date cu numele '0'
     aux NUMBER := 0;
     CURSOR c IS
           SELECT unique(m.movie name), (a.last name | ' ' |
a.first name) nume
           FROM screenings s join movies m on (m.movie id =
s.movie id)
                           join plays in pi on (pi.movie id =
m.movie id)
                           join actors a on (a.actor id =
pi.actor_id)
           WHERE hall id = hall
           ORDER BY m.movie name;
     BEGIN
     SELECT hall id into hall
     FROM halls
     WHERE capacity = cap;
     FOR i in c LOOP
           IF (i.movie name != last movie) THEN
                DBMS OUTPUT.PUT LINE ('---Filmul ' || i.movie name
| ' avand actorii: ');
           END IF;
```

```
DBMS OUTPUT.PUT LINE (i.nume);
            last movie := i.movie name;
            aux := aux + 1;
     END LOOP;
     IF (aux = 0) THEN
           DBMS OUTPUT.PUT LINE('Nu exista filme care sa fi rulat
in sala cu capacitatea ' || cap);
     END IF;
     EXCEPTION
           WHEN TOO MANY ROWS THEN
                DBMS OUTPUT.PUT LINE('Exista mai multe sali cu
capacitatea ' || cap);
           WHEN NO DATA FOUND THEN
                DBMS OUTPUT.PUT LINE('Nu exista nicio sala care sa
aiba capacitatea ' || cap);
           WHEN OTHERS THEN
                DBMS_OUTPUT.PUT_LINE('Alta eroare');
     END pack proc ex9;
     FUNCTION pack_are_voie_ex11
     (screening tickets.screening id%TYPE, id client
clients.client id%TYPE)
     RETURN BOOLEAN
     IS
     CURSOR crs IS
           SELECT m.age_restriction
           FROM screenings s join movies m on (m.movie id =
s.movie id)
           WHERE s.screening id = screening;
     CURSOR crs2 IS
           SELECT TRUNC(MONTHS BETWEEN(sysdate, birth date) / 12)
           FROM clients
           WHERE client id = id client;
     age number;
        age r movies.age restriction%TYPE;
     BEGIN
     OPEN crs;
           FETCH crs INTO age r;
     CLOSE crs;
     OPEN crs2;
           FETCH crs2 INTO age;
```

```
CLOSE crs2;
     IF (age_r <= age) THEN</pre>
           RETURN TRUE;
     ELSE
           RETURN FALSE;
     END IF;
     END pack are voie ex11;
END package ex13;
--APELARE:
BEGIN
     DBMS OUTPUT.PUT LINE('===6===');
     DBMS OUTPUT.NEW LINE;
     DBMS OUTPUT.PUT LINE('Total: ' | package ex13.pack fct ex6()
|| ' actori');
     DBMS OUTPUT.NEW LINE;
     DBMS_OUTPUT.PUT_LINE('Total: ' | |
package ex13.pack fct ex6('Tarantino') || ' actori');
     DBMS OUTPUT.NEW LINE;
     DBMS OUTPUT.PUT LINE('Total: ' ||
package ex13.pack fct ex6('Fincher') || ' actori');
     DBMS OUTPUT.NEW LINE;
     DBMS OUTPUT.PUT LINE('===7===');
     DBMS OUTPUT.NEW LINE;
     package ex13.pack proc ex7();
     package ex13.pack proc ex7('Student');
     package ex13.pack proc ex7('Retired');
     package ex13.pack proc ex7('Dummy');
     DBMS OUTPUT.PUT LINE('===8===');
     DBMS OUTPUT.NEW LINE;
     DBMS OUTPUT.PUT LINE(package ex13.pack fct ex8('Drama'));
     DBMS OUTPUT.NEW LINE;
     DBMS OUTPUT.PUT LINE(package ex13.pack fct ex8('Comedy'));
     DBMS OUTPUT.NEW LINE;
     DBMS OUTPUT.PUT LINE(package ex13.pack fct ex8('Action')); --
mai mult de 1 film
     DBMS OUTPUT.NEW LINE;
     DBMS_OUTPUT.PUT_LINE(package_ex13.pack_fct_ex8('Documentary')
```

```
); -- niciun film
     DBMS OUTPUT.NEW LINE;
     DBMS OUTPUT.PUT LINE('===9===');
     DBMS OUTPUT.NEW LINE;
     package_ex13.pack_proc_ex9(5); -- mai multe filme
     DBMS OUTPUT.NEW LINE;
     package ex13.pack proc ex9(250); -- un singur film
     DBMS OUTPUT.NEW LINE;
     package ex13.pack proc ex9(150); -- niciun film
     DBMS OUTPUT.NEW LINE;
     package ex13.pack proc ex9(500); -- nu exista capacitatea
     DBMS OUTPUT.NEW LINE;
     package ex13.pack proc ex9(100); -- mai multe sali cu
capacitatea respectiva
     DBMS OUTPUT.NEW LINE;
     DBMS OUTPUT.PUT LINE('===11===');
     DBMS OUTPUT.NEW LINE;
     IF (package ex13.pack are voie ex11(2, 4) = TRUE) THEN --
client cu varsta 12 vrea sa mearga la film cu restrictie de 15
     DBMS OUTPUT.PUT LINE('Allowed');
     ELSE
     DBMS OUTPUT.PUT LINE('Not allowed');
     END IF;
     IF (package ex13.pack are voie ex11(2, 1) = TRUE) THEN --
client cu varsta 20 vrea sa mearga la film cu restrictie de 15
     DBMS OUTPUT.PUT LINE('Allowed');
     DBMS OUTPUT.PUT LINE('Not allowed');
     END IF;
END;
```



Package PACKAGE_EX13 compiled

Package Body PACKAGE_EX13 compiled

PL/SQL procedure successfully completed.

```
===6===
---In filmele lui Nolan au jucat:
Actorul Joseph Gordon-Levitt a jucat rolul Arthur in filmul Inception.
Actorul Leonardo DiCaprio a jucat rolul Cobb in filmul Inception.
Actorul Matthew McConaughey a jucat rolul Eames in filmul Inception.
Actorul Matthew McConaughey a jucat rolul Cooper in filmul Interstellar.
Actorul Robert Pattinson a jucat rolul Neil in filmul Tenet.
Actorul Jamie Foxx a jucat rolul Protagonist in filmul Tenet.
Total: 6 actori
---In filmele lui Tarantino au jucat:
Actorul Joseph Gordon-Levitt a jucat rolul Hans Landa in filmul Inglorious Basterds.
Actorul Leonardo DiCaprio a jucat rolul Aldo Raine in filmul Inglorious Basterds.
Total: 2 actori
---In filmele lui Fincher au jucat:
Actorul Matthew McConaughey a jucat rolul Kane in filmul Mank.
Actorul Robert Pattinson a jucat rolul Joe in filmul Mank.
Actorul Gary Oldman a jucat rolul Mank in filmul Mank.
Total: 3 actori
===7===
---Bilete de tipul Adult au fost cumparate de urmatorii clienti:
Clientul Tudorache Theodor cu varsta de 20 de ani.
```

```
===7===
---Bilete de tipul Adult au fost cumparate de urmatorii clienti:
Clientul Tudorache Theodor cu varsta de 20 de ani.
Clientul Craciun Andrei cu varsta de 12 ani.
---Bilete de tipul Student au fost cumparate de urmatorii clienti:
Clientul Bugheciu Eduard cu varsta de 20 de ani.
Clientul Tudorache Theodor cu varsta de 20 de ani.
Clientul Constantin Sorin cu varsta de 33 de ani.
---Bilete de tipul Retired au fost cumparate de urmatorii clienti:
Clientul Curtamet Ixan cu varsta de 14 ani.
Clientul Bugheciu Eduard cu varsta de 20 de ani.
Clientul Constantin Sorin cu varsta de 33 de ani.
Nu exista bilete de tipul Dummy.
===8===
Filmul Soul a rulat la 25/12/2020 13:00 cu capacitatea 5/5.
Filmul Borat 2 a rulat la 25/12/2020 17:00 cu capacitatea 6/5.
Exista mai multe filme care au rulat la capacitate de peste 90% avand genul Action
```

```
Cinema ×
-2
Nu exista filme care au rulat la capacitate de peste 90% avand genul Documentary
-1
===9===
---Filmul Inglorious Basterds avand actorii:
Joseph Gordon-Levitt
Leonardo DiCaprio
---Filmul Soul avand actorii:
Jamie Foxx
---Filmul Tenet avand actorii:
Jamie Foxx
Robert Pattinson
Nu exista filme care sa fi rulat in sala cu capacitatea 150
Nu exista nicio sala care sa aiba capacitatea 500
Exista mai multe sali cu capacitatea 100
===11===
Not allowed
Allowed
```