# Нуритдинходжаева Алина С20-712

# Лабораторная работа №3

# Вариант №17

### Общая часть заданий

### --Задание 1

CREATE TABLE actions (

position VARCHAR2(64 CHAR) NOT NULL,

task VARCHAR2(128 CHAR),

films\_id INTEGER NOT NULL CHECK (films\_id >1),

people\_id INTEGER NOT NULL CHECK (people\_id >1));

ALTER TABLE actions ADD CONSTRAINT actions\_pk PRIMARY KEY (films\_id, people\_id);

ALTER TABLE actions ADD CONSTRAINT actions\_position\_un UNIQUE (position);

### CREATE TABLE cinemas (

cinema\_name VARCHAR2(64 CHAR),

address VARCHAR2(128 CHAR) NOT NULL);

ALTER TABLE cinemas ADD CONSTRAINT cinemas\_pk PRIMARY KEY (address);

### CREATE TABLE films (

movie\_title VARCHAR2(64 CHAR) NOT NULL,

genre VARCHAR2(32 CHAR),

time INTEGER NOT NULL,

country VARCHAR2(32 CHAR) NOT NULL,

film\_company VARCHAR2(128 CHAR),

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age INTEGER,
 id INTEGER NOT NULL CHECK (id > 0));
ALTER TABLE films ADD CONSTRAINT films_pk PRIMARY KEY (id);
ALTER TABLE films
  ADD CONSTRAINT fmttc UNIQUE (movie_title, time, country);
CREATE TABLE people (
 last_name VARCHAR2(64 CHAR) NOT NULL,
 first_name VARCHAR2(64 CHAR) NOT NULL,
 birthday DATE NOT NULL,
 id INTEGER NOT NULL);
ALTER TABLE people ADD CONSTRAINT people_pk PRIMARY KEY (id);
ALTER TABLE people
  ADD CONSTRAINT pln UNIQUE (last_name, birthday, first_name);
CREATE TABLE price (
 zone VARCHAR2(32 CHAR) NOT NULL,
 timetables_date_time DATE NOT NULL,
 timetables_film VARCHAR2(64 CHAR) NOT NULL,
 price INTEGER NOT NULL);
ALTER TABLE price ADD CONSTRAINT price_pk PRIMARY KEY (zone,
price);
```

CREATE TABLE timetables (

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date_time DATE NOT NULL,
film VARCHAR2(64 CHAR) NOT NULL,
hall INTEGER,
cinemas_address VARCHAR2(128 CHAR) NOT NULL,
films_id INTEGER NOT NULL);
```

ALTER TABLE timetables ADD CONSTRAINT timetables\_pk PRIMARY KEY (date\_time, film);

### **ALTER TABLE actions**

ADD CONSTRAINT actions\_films\_fk FOREIGN KEY ( films\_id )
REFERENCES films (id);

### **ALTER TABLE actions**

ADD CONSTRAINT actions\_people\_fk FOREIGN KEY ( people\_id )
REFERENCES people (id);

### ALTER TABLE price

ADD CONSTRAINT price\_timetables\_fk FOREIGN KEY (timetables\_date\_time, timetables\_film)

REFERENCES timetables (date\_time, film);

### **ALTER TABLE timetables**

ADD CONSTRAINT timetables\_cinemas\_fk FOREIGN KEY (cinemas\_address)

REFERENCES cinemas (address);

### **ALTER TABLE timetables**

ADD CONSTRAINT timetables\_films\_fk FOREIGN KEY (films\_id) REFERENCES films (id);

# --Задание 2

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# --Задание 3

-- заполнение таблицы cinemas

**INSERT INTO cinemas** 

VALUES ('Формула Кино Чертаново', 'м.Чертаново, ТЦ "Авентура"');

**INSERT INTO cinemas** 

VALUES ('Кронверк Синема Облака', 'м.Домодедово, ТРК "Облака"');

**INSERT INTO cinemas** 

VALUES ('Синема Парк Ривьера', 'м.Автозаводская, ТРЦ "Ревьера"');

**INSERT INTO cinemas** 

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VALUES ('Синема Парк Европейский', 'м.Киевская, "Европейский"');
INSERT INTO cinemas
VALUES ('КИНО ОККО', 'м.Выставочная, ТЦ "Афимолл-сити"');
--заполнение таблицы films
INSERT INTO films
VALUES ('Первый оскар', 'драма', 114, 'Россия', 'СТВ', 12, 1);
INSERT INTO films
VALUES ('Казнь', 'триллер', 130, 'Канада', 'A24', 18, 2);
INSERT INTO films
VALUES ('Стикер', 'детектив', 117, 'Россия', 'ТаББак', 16, 3);
INSERT INTO films
VALUES ('Белый снег', 'драма', 133, 'Россия', 'СТВ', 6, 4);
INSERT INTO films
VALUES ('Брат', 'боевик', 100, 'Россия', 'ТаББак', 12, 5);
INSERT INTO films
VALUES ('Терминатор', 'фантастика', 107, 'США', 'Cinema 84', 16, 6);
-- заполнение таблицы actions
INSERT INTO actions (position, films id, people id)
VALUES ('режисер', 5, 10);
INSERT INTO actions (position, films id, people id)
VALUES ('cyфлер', 4, 11);
INSERT INTO actions (position, films_id, people_id)
VALUES ('гример', 2, 9);
INSERT INTO actions (position, films_id, people_id)
VALUES ('актер', 2, 13);
INSERT INTO actions (position, films id, people id)
VALUES ('сценарист', 5, 12);
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INSERT INTO actions (position, films_id, people_id)
VALUES ('дублер', 4, 10);
-- заполнение таблицы people
INSERT INTO people
VALUES ('Балабанов', 'Алексей', '12.12.1985', 12);
INSERT INTO people
VALUES ('Хомерики', 'Николай', '25.02.1976', 11);
INSERT INTO people
VALUES ('Баран', 'Дмитрий', '06.05.1990', 13);
INSERT INTO people
VALUES ('Кваталия', 'Ладо', '21.08.1969', 10);
INSERT INTO people
VALUES ('Лернер', 'Майкл', '30.06.1981', 9);
INSERT INTO people
VALUES ('Кошмал', 'Анна', '26.09.2000', 14);
-- заполнение таблицы timetables
INSERT INTO timetables
VALUES ('01.05.2022', 'Первый оскар', 1, 'м.Выставочная, ТЦ "Афимолл-
сити", 1);
INSERT INTO timetables
VALUES ('01.05.2022', 'Казнь', 2, 'м.Выставочная, ТЦ "Афимолл-сити"', 2);
INSERT INTO timetables
VALUES ('01.05.2022', 'Брат', 1, 'м.Автозаводская, ТРЦ "Ревьера"', 5);
INSERT INTO timetables
VALUES ('01.05.2022', 'Стикер', 2, 'м.Киевская, "Европейский", 3);
INSERT INTO timetables
VALUES ('30.04.2022', 'Белый снег', 3, 'м.Киевская, "Европейский", 4);
```

```
INSERT INTO timetables
```

VALUES ('29.04.2022', 'Терминатор', 1, 'м.Киевская, "Европейский", 6);

# -- заполнение таблицы price

**INSERT INTO price** 

VALUES ('красная', '30.04.2022', 'Белый снег', 400);

**INSERT INTO price** 

VALUES ('желтая', '30.04.2022', 'Белый снег', 350);

**INSERT INTO price** 

VALUES ('синяя', '30.04.2022', 'Белый снег', 300);

**INSERT INTO price** 

VALUES ('красная', '01.05.2022', 'Брат', 500);

**INSERT INTO price** 

VALUES ('желтая', '01.05.2022', 'Брат', 450);

**INSERT INTO price** 

VALUES ('синяя', '01.05.2022', 'Брат', 400);

### Задания по вариантам

### --Задание 0

SELECT last\_name FROM (

SELECT last\_name, COUNT(people\_id) AS que

FROM actions INNER JOIN people ON people\_id=id

GROUP BY last\_name)

WHERE que = (SELECT MAX(que) FROM (SELECT last\_name, COUNT(people\_id) AS que FROM actions INNER JOIN people ON people\_id=id GROUP BY last\_name));

### --Задание 1

SELECT film\_company, COUNT(movie\_title) FROM films GROUP BY film\_company;

### --Задание 2

SELECT cinema\_name

FROM cinemas INNER JOIN timetables ON address=cinemas\_address

WHERE REGEXP\_LIKE(date\_time, '\d\d\.04\.22') AND REGEXP\_LIKE(film, 'Терминатор');

### --Задание 3

DELETE FROM people

WHERE last\_name = (SELECT last\_name

FROM people LEFT JOIN actions ON people\_id=id WHERE position IS NULL);

### --Задание 4

UPDATE price SET price = 2 \* price

WHERE ((SELECT date\_time

FROM (cinemas INNER JOIN timetables ON address = cinemas\_address)

WHERE date\_time >= sysdate

AND cinema\_name = 'Синема Парк Европейский') = timetables\_date\_time);

SELECT \* FROM price;

### --Задание 5

ALTER TABLE cinemas ADD net VARCHAR2 (64 CHAR);

### --Задание 6

ALTER TABLE price ADD CHECK (price > 50);