

Information and communication technologies Industrial Automation

ICT Final Exam, Fall 2020 The information system of booking and buying tickets

Student: Amir Yakubov

Group: IA-2002

Checked by: Samat Kassymkhanov

1. Define the purpose of your system.

Short description: My database theme is booking and purchasing tickets. I chose to buy and book tickets in the cinema. Small database system. I have created bases for such as an employee, a customer, a cinema-organization, we can consider it as an administrator, tickets, places and films.

• What is the purpose of the database? Why is it needed? What should it do?

The purpose of this base. This is necessary to simplify the use of data: employees, customer list, information, as well as for data analysis. You can find certain information using personal criteria such as ID. Each profile, items have their own id, which are individual, and they do not repeat. You can find information by date or indicated price, it is very convenient.

Who are the users and what are their information needs?

We can consider this system from different points of view, for example, for the administrator, as I said, to get all the information, data about all employees and clients. From the point of view of the employee: he can also get information about the customer, the list is presented and the buying. From the point of view of the client, he can look at the list of films, also what and where are available seats, find the address, mail and phone number to buy or booking a ticket.

• What are the problems that the system should solve?

First of all - using this method, you can save a lot of time, and you don't need to exert great effort to achieve what you want.

• What input data is available to the database?

First name, last name, email, phone number, address.

• What kind of information should be stored in the database?

The database stores such data as names depending on the subject or personality, the names of people or the names of films, somewhere you need to enter both the surname and gender, there is an address, mail, phone numbers. Also the number of the hall, row, seat, prices for these seats. Time of the beginning and the end of the session, genres.

2. Create ERD using Crow's Foot notation (min.10 well-organized entities; their attributes, and types of relations);

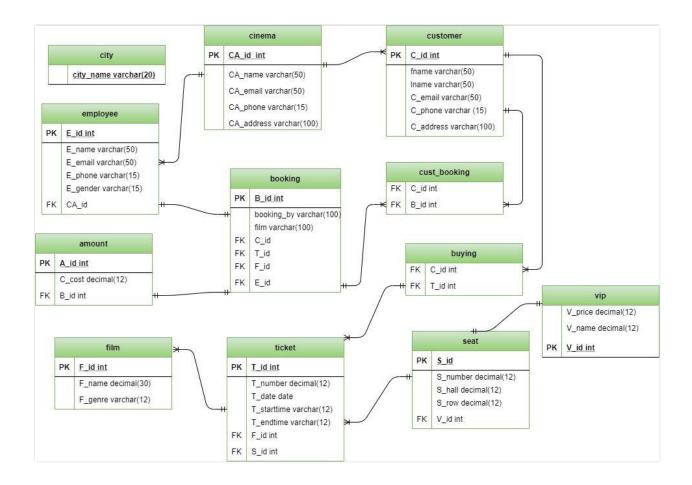


Figure 1 – The ERD diagram of my topic.

Figure 1 shows the tables I created.

Steps of creation.

- **Step 1.** You can see 12 tables here. First, I created a "Cinema" table, which has its own id, mail, name, organization number and address. Then 2 more tables emanate from the cinema, which means that the cinema has two users, so to speak. The first is a "Customer" who has an ID, first name, last name, mail, phone number, and address. And 2 is an "Employee", not much different from the client's data. He also has an ID, name, mail, telephone, and address and is connected to the cinema through the cinema ID.
- **Step 2.** The client can make a reservation. The customer order table links the table itself and the booking table. The "booking" table has data such as which movie was booked for, who booked by, ticket id and movie id.
- **Step 3.** Now the employee, he accepts the customer's order, and here we link to the following table. Which is called the "amount" that stores the total expense of the client.

Step 4. The second thing a client can do is buy a ticket right away, "buying" table links the client and ticket tables.

Step 5. Now the "ticket" table. It has its own id, ticket number, movie date, start and end times. Connects 2 tables - a movie and a seat.

Step 6. Let's start with the "film". The film also has an id, title and genre.

Step 7. Then the "seat". A seat has an id, hall number, row number and seat number. It has one table called "vip".

Step 8. "vip" has a price and a name.

Step 9. And the last table that I did not count is the "City" table, which stores only the name of the city. He is not connected with anything, we need him for the next task, let's move on to him.

3. Create database: tables with entities (tables) and constraints (PK, FK, UK, and etc.);

Tables code:

```
Create table cinema (
CA_Id int primary key,
CA_name varchar(50),
CA_email varchar(50),
CA_phone varchar(15),
CA_address varchar(100));
Create table customer (
C_id int primary key,
fname varchar(50),
lname varchar(50),
C_email varchar(50),
C_phone varchar(15),
C_address varchar(100));
Create table employee (
E_id int primary key,
E_name varchar(50),
E_email varchar(50),
E_phone varchar(15),
```

E_gender varchar(10),

```
CA_id int,
Foreign key(CA_id) references cinema(CA_id));
Create table film (
F_id int primary key,
F_name varchar(30),
F_genre varchar(12));
Create table vip(
V_id int primary key,
V_price decimal(12),
V_name varchar(12));
Create table seat (
S_id int primary key,
S_number decimal(12),
S_hall decimal(12),
S_row decimal(12),
V_id int,
Foreign key (V_id) references vip(V_id));
Create table ticket (
T_id int primary key,
T_number decimal(12),
T_date date,
T_starttime varchar(12),
T_endtime varchar(12),
F_id int,
S_id int,
Foreign key (F_id) references film(F_id),
Foreign key (S_id) references seat(S_id));
Create table buying (
C_id int,
```

```
T_id int,
Foreign key (C_id) references customer(C_id),
Foreign key (T_id) references ticket(T_id));
Create table booking (
B_id int primary key,
booking_by varchar(100),
film varchar(100),
C_id int,
T_id int,
F_id int,
E_id int,
Foreign key (C_id) references customer(C_id),
Foreign key (T_id) references ticket(T_id),
Foreign key (F_id) references film(F_id),
Foreign key (E_id) references employee(E_id));
Create table cust_booking (
C_id int,
B_id int,
Foreign key(C_id) references customer(C_id),
Foreign key(B_id) references booking(B_id));
Create table amount (
A_id int primary key,
C_cost decimal(12),
B_id int,
Foreign key (B_id) references booking(B_id));
Create table city (
city_name varchar(20) primary key);
```

4. Write 5 different (add, drop and constraints) ALTER TABLE statements;

1) The administrator wants to enter a column with the population of the city in order to further calculate how many people visit this cinema.

ALTER TABLE city ADD COLUMN city_population int;

2) The administrator wants to enter that the column with the population of the city visited by this cinema is not null.

ALTER TABLE city ALTER city_population SET not null;

3) The administrator wants to enter that the column with the population of the city that visits this cinema can be null.

ALTER TABLE city alter city_population DROP not null;

4) The administrator wants to delete the city's population column.

ALTER TABLE city DROP COLUMN city_population;

5) The administrator wants to delete the city table itself.

DROP TABLE city;

5. Write SQL query for DML statements (insert, delete, update). Insert - for all tables at least 10 rows, Update – for each table with a condition, Delete – for each table with a condition;

Cinema

Code:

INSERT INTO cinema (ca id, ca name, ca email, ca phone, ca address)

VALUES (1, 'Star Cinema', 'astanacinema@mail,ru', '87001010101', 'Nur-Sultan'),

- (2, 'Lumiera Cinema', 'almatycin@mail,ru', '87072020202', 'Almaty'),
- (12, 'KinoplexX', 'aktaucin@mail,ru', '87001121212', 'Aktau'),
- (13, 'Love Cinema', 'shymkentcin@mail,ru', '87001131313', 'Shymkent'),
- (8, 'Astana Cinema', 'tarazcin@mail,ru', '87008080808', 'Taraz'),
- (14, 'Festival CINEMA', 'pavlodarcin@mail,ru', '87001141414', 'Pavlodar'),
- (11, 'Oiyn Sauyq Ortalygy', 'kzylordacin@mail,ru', '87001111111', 'Kzyl-Orda'),
- (4, 'Локомотив', 'aktobecin@mail,ru', '87004040404', 'Aktobe'),
- (16, 'Алем', 'semeycin@mail,ru', '87001161616', 'Semey'),
- (5, 'Атамекен', 'taldykorgancin@mail,ru', '87005050505', 'Taldykorgan');

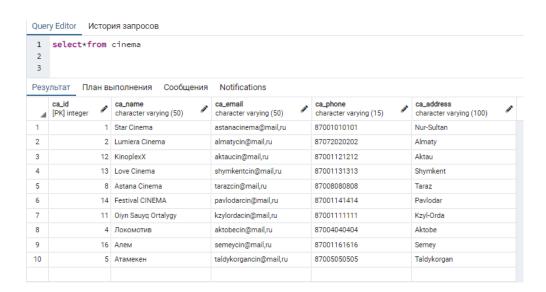


Figure 2 - cinema table data.

Figure 2 shows the values and data entered into it.

Customer

Code:

insert into customer (c_id, fname, lname, c_email, c_phone, c_address)

- (01, 'Karly', 'Gallaher', 'kgallaher0@elpais.com', '836-448-0755', '93 Weeping Birch Crossing'),
- (02, 'Hildagard', 'Lynam', 'hlynam1@bloomberg.com', '752-307-4672', '80 Merchant Park'),
- (03, 'Catharine', 'Holligan', 'cholligan2@trellian.com', '230-287-2593', '701 Prairieview Hill'),
- (04, 'Shari', 'Aizikovitz', 'saizikovitz3@biblegateway.com', '801-887-4561', '49436 Twin Pines Terrace'),
- (05, 'Archy', 'Paley', 'apaley4@disqus.com', '116-507-7409', '252 Stoughton Alley'),
- (06, 'Margareta', 'Arendsen', 'marendsen5@tumblr.com', '747-871-1762', '6 Victoria Point'),
- (07, 'Paddie', 'Burgiss', 'pburgiss6@bandcamp.com', '333-915-8139', '5560 Stephen Circle'),
- (08, 'Cassius', 'Kempton', 'ckempton7@gnu.org', '997-800-6302', '981 Upham Avenue'),
- (09, 'Fredrika', 'Trower', 'ftrower8@tmall.com', '200-273-4132', '44121 3rd Lane'),
- (10, 'Lockwood', 'Elsmor', 'lelsmor9@bandcamp.com', '265-778-5659', '72016 Service Junction');

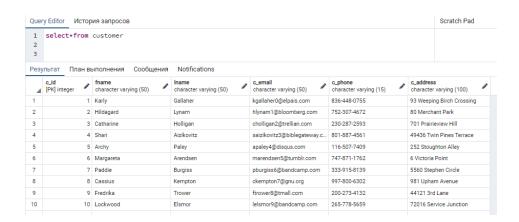


Figure 2.1 – customer table data.

Figure 2.1 shows the values and data entered into it.

Employee

Code:

insert into employee (e_id, e_name, e_email, e_phone, e_gender, ca_id) values

- (101, 'Moyra', 'mmaron1@dedecms.com', '760-722-9267', 'Female', 2),
- (102, 'Hilary', 'hskuce2@tiny.cc', '470-658-3672', 'Male', 8),
- (103, 'Petronilla', 'pmackim3@skyrock.com', '387-518-3005', 'Female', 12),

```
(104, 'Idalina', 'ieaston4@pinterest.com', '390-624-8643', 'Female', 13), (105, 'Cherie', 'ccredland5@1688.com', '357-622-4643', 'Female', 4), (106, 'Alic', 'abaylie6@mapquest.com', '644-422-4100', 'Male', 5), (107, 'Abner', 'amottinelli7@businessinsider.com', '595-779-8250', 'Male', 14), (108, 'Maridel', 'msaunt8@xing.com', '479-834-9002', 'Female', 11), (109, 'Mead', 'msansbury9@java.com', '439-399-7204', 'Male', 16), (110, 'Alicia', 'amatveiko0@hc360.com', '367-745-5519', 'Female', 1);
```

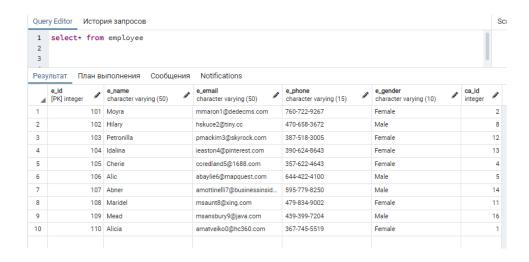


Figure 2.2 - employee table data.

Figure 2.2 shows the values and data entered into it.

Film

Code:

10

```
insert into film (f_id, f_name, f_genre)
values
(31, 'Betsy''s Wedding', 'Comedy'),
(32, 'Steam Experiment, The', 'Drama'),
(33, 'Over the Brooklyn Bridge', 'Comedy'),
(34, 'Haunted House', 'Comedy'),
(35, 'Eye See You', 'Horror'),
(36, 'Public Enemy, The', 'Action'),
(37, 'Man with the Gun', 'Western'),
(38, 'Errors of the Human Body ', '|Thriller'),
```

- (39, 'Kambakkht', 'Action'),
- (40, 'Defiant Ones', 'Adventure');

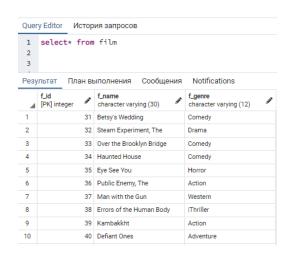


Figure 2.3 - film table data.

Figure 2.3 shows the values and data entered into it.

Vip

```
INSERT INTO vip (v_id, v_price, v_name)

VALUES (1, 15000, 'first'),
(2, 10000, 'second'),
(3, 5000, 'third'),
(4, 15000, 'first'),
(5, 5000, 'third'),
(6, 10000, 'second'),
(7, 15000, 'first'),
(8, 5000, 'third'),
(9, 15000, 'first'),
(10, 10000, 'second');
```

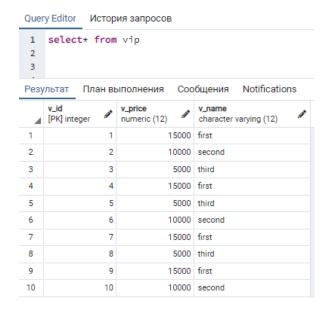


Figure 2.4 - vip table data.

Figure 2.4 shows the values and data entered into it.

Seat

```
INSERT INTO seat (s_id, s_number, s_hall, s_row, v_id)

VALUES (01, 1, 1, 1, 1),

(02, 2, 1, 2, 2),

(03, 3, 2, 3, 3),

(04, 4, 3, 4, 4),

(05, 5, 2, 5, 5),

(06, 6, 3, 6, 6),

(07, 7, 1, 7, 7),

(08, 8, 1, 8, 8),

(09, 9, 2, 9, 9),

(10, 10, 3, 10, 10);
```

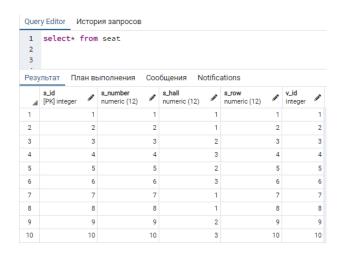


Figure 2.5 - seat table data.

Figure 2.5 shows the values and data entered into it.

Ticket

```
INSERT INTO ticket (t_id, t_number, t_date, t_starttime, t_endtime, f_id, s_id)

VALUES (1001, 2001, '2020-01-01' , '8:00', '9:30', 31, 01),

(1002, 2002, '2020-01-02' , '10:00', '11:30', 32, 02),

(1003, 2003, '2020-01-03' , '15:00', '16:30', 33, 03),

(1004, 2004, '2020-01-02' , '19:00', '21:00', 34, 04),

(1005, 2005, '2020-01-03' , '8:00', '9:30', 35, 05),

(1006, 2006, '2020-01-01' , '10:00', '12:30', 36, 06),

(1007, 2007, '2020-01-01' , '18:00', '19:00', 37, 07),

(1008, 2008, '2020-01-02' , '15:00', '22:30', 38, 08),

(1009, 2009, '2020-01-03' , '22:00', '00:00', 39, 09),

(1010, 2010, '2020-01-01' , '8:00', '9:30', 40, 10);
```

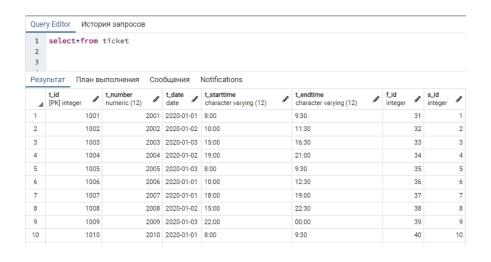


Figure 2.6 - ticket table data.

Figure 2.6 shows the values and data entered into it.

Buying

```
INSERT INTO buying (c_id, t_id)

VALUES (01, 1001),

(02, 1002),

(03, 1003),

(04, 1004),

(05, 1005),

(06, 1006),

(07, 1007),

(08, 1008),

(09, 1009),

(10, 1010);
```



Figure 2.7 - buying table data.

Figure 2.7 shows the values and data entered into it.

Booking

```
INSERT INTO booking (b_id, booking_by, film, c_id, t_id, f_id, e_id)

VALUES (90, 'Karly', 'Betsy"s Wedding', 01, 1001, 31, 101),

(91, 'Hildagard', 'Steam Experiment', 02, 1002, 32, 102),

(92, 'Catherine', 'Over the Brooklyn Bridge', 03, 1003, 33, 103),

(93, 'Shari', 'Hounred House', 04, 1004, 34, 104),

(94, 'Archy', 'Eye See You', 05, 1005, 35, 105),

(95, 'Margareta', 'Public Enemy', 06, 1006, 36, 106),

(96, 'Paddie', 'Man With The Gun', 07, 1007, 37, 107),

(97, 'Cassius', 'Errors of the Human Body', 08, 1008, 38, 108),

(98, 'Fredrika', 'Kambakht', 09, 1009, 39, 109),

(99, 'Lockwood', 'Defiant Ones', 10, 1010, 40, 110);
```

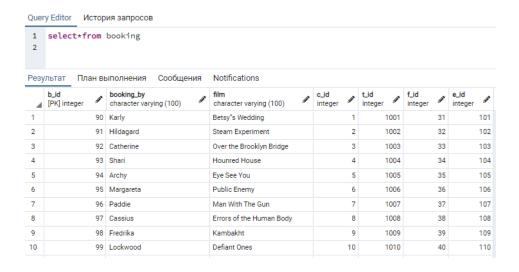


Figure 2.8 - booking table data.

Figure 2.8 shows the values and data entered into it.

Cust_booking

```
INSERT INTO cust_booking(c_id, b_id)

VALUES (01, 91),
(02, 92),
(03, 93),
(04, 94),
(05, 95),
(06, 96),
(07, 97),
(08, 98),
(09, 99),
(10, 90);
```

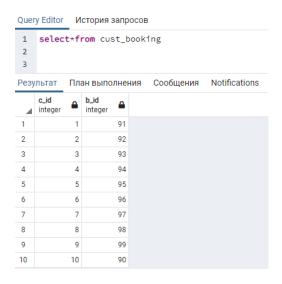


Figure 2.9 – cust_buying table data.

Figure 2.9 shows the values and data entered into it.

Amount

```
INSERT INTO amount (a_id, c_cost, b_id)

VALUES (301, 5675, 91),

(302, 6500, 90),

(303, 10000, 92),

(304, 12365, 93),

(305, 15000, 94),

(306, 8700, 95),

(307, 4505, 96),

(308, 7854, 97),

(309, 9000, 98),

(310, 12375, 99);
```



Figure 2.10 - amount table data.

Figure 2.10 shows the values and data entered into it.

Updates.

1) <u>I give the command: set the amount 14505</u>, where the id amount is 307. <u>update amount</u>

 $\underline{\text{set c}_\text{cost} = 14505}$

where $a_id = 307$;

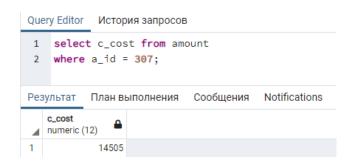


Figure 3 – update table

Figure 3 shows table change

2) I give the command: set the film Avatar, where the b_id is 98.

update booking

set film = 'Avatar'

where $b_id = 98$;

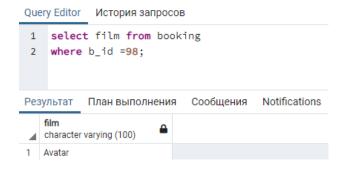


Figure 3.1 – update table

Figure 3.1 shows table change

3) <u>I give the command: set t_id 1010</u>, where the c_id_more than 9. <u>update buying</u>

 $\underline{\text{set t_id}} = 1010$

where $c_{id} > 9$

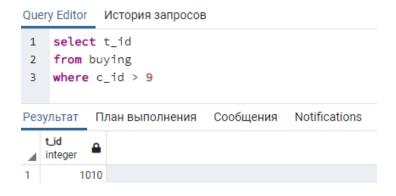


Figure 3.2 – update table

Figure 3.2 shows table change

4) <u>I give the command: set cinema name Kinoplex, where the cinema address is Aktau.</u>
<u>update cinema</u>

set ca_name = 'Kinoplex'

where ca_address = 'Aktau'

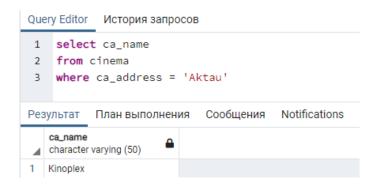


Figure 3.3 – update table

Figure 3.3 shows table change

5) <u>I give the command: set b id 91, where the c id less than 2.</u> <u>update cust booking</u>

 $\underline{set \ b_id} = \underline{91}$

where $c_{id} < 2$

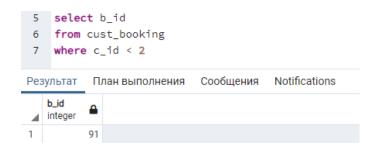


Figure 3.4 – update table

Figure 3.4 shows table change

6) <u>I give the command: set first name Karl, where the c_id is 1.</u>

update customer

set fname = 'Karl'

where $c_{id} = 1$

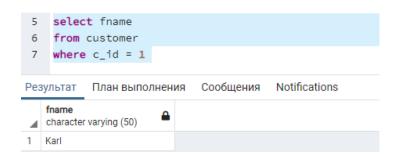


Figure 3.5 – update table

Figure 3.5 shows table change

7) <u>I give the command: set employee name Alisa, where the c_id is 5.</u> <u>update employee</u>

set e_name = 'Alisa'

where $ca_id = 5$

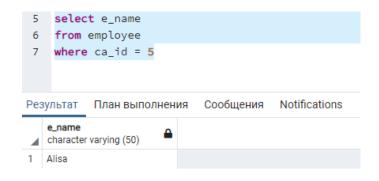


Figure 3.6 – update table

Figure 3.6 shows table change

8) I give the command: set film name Avatar, where the f_id 39.

update film

 $\underline{set \ f_name = 'Avatar'}$

where $f_{id} = 39$

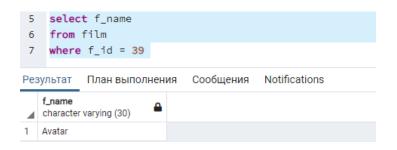


Figure 3.7 – update table

Figure 3.7 shows table change

9) <u>I give the command: set hall 1, where the s_id 2.</u>

update seat

 $\underline{set \ s_hall = 1}$

where $s_id = 2$

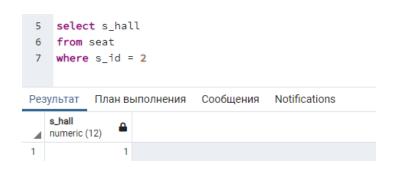


Figure 3.8 – update table

Figure 3.8 shows table change

10) I give the command: set end time 10:00, where the t_id is 1005.

update ticket

 $\underline{\text{set t_endtime}} = '10:00'$

where $t_id = 1005$

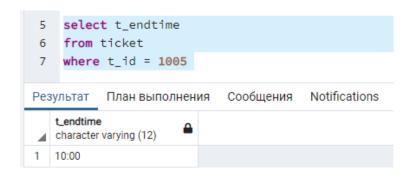


Figure 3.9 – update table

Figure 3.9 shows table change

11) I give the command: set vip price 15005, where the v_id is first.

update vip

 $\underline{\text{set v_price}} = 15005$

where v_name = 'first'

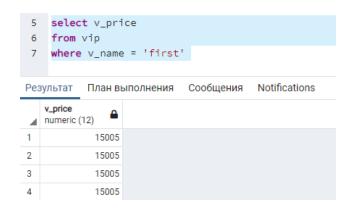


Figure 3.10 – update table

Figure 3.10 shows table change

Delete. Delete data fulfilling the specified conditions.

Codes:

delete from amount

where $a_id = 301$

delete from booking

where $b_id = 1$

23

```
delete from cust_booking
where b_id = 98

delete from amount
where c_cost = 9000

delete from booking
where film = 'Avatar'

delete from employee
where ca_id = 16

delete from cinema
where ca_address = 'Semey'
```

6. Write at least 10 queries: using DISTINCT, conditions (<, >, =), OR, AND, BETWEEN, IN, LIKE, LENGHT, COUNT, MAX, MIN, SUM, AVG, INNER JOIN, LEFT JOIN, RIGHT JOIN, FULL JOIN and etc. The queries should be coherent and complex.

1) Select employee name where name start with letter A.

Code:

Select e_name from employee

Where e_name like 'A%';

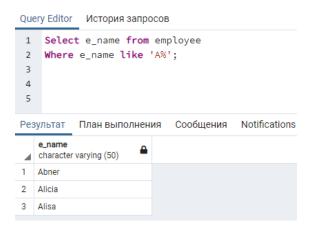


Figure 4 shows what we want to choose

2) Select total cost of customers

Code:

Select sum(C_cost)

From amount;

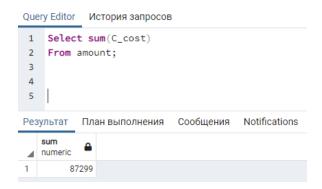


Figure 4.1 - select data

Figure 4.1 shows what we want to choose

3) Select film name Avatar

Code:

Select * from film

Where F_name = 'Avatar';

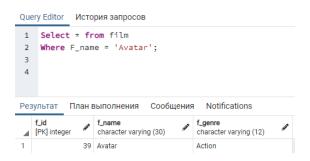


Figure 4.2 - select data

Figure 4.2 shows what we want to choose

4) Select film name where time bettwen 15 and 19

Code:

Select F_name

From film

inner join ticket

on ticket.F_id = film.F_id

Where ticket.t_starttime > '15:00' and ticket.t_endtime < '19:00';

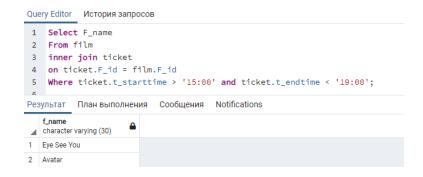


Figure 4.3 - select data

Figure 4.3 shows what we want to choose

5) Select count of first

Code:

select count(distinct 'first') as "the most expensive"

from vip;

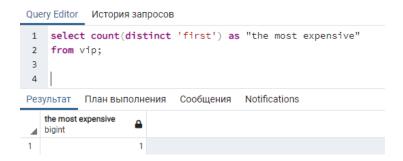


Figure 4.4 - select data

Figure 4.4 shows what we want to choose

6) Select employee name, email and cinema name, email

Code:

select E_name, E_email, CA_name, CA_email from employee inner join cinema on cinema.CA_id=employee.CA_id

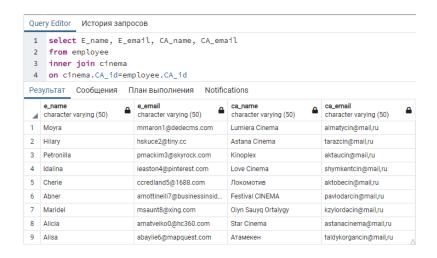


Figure 4.5 - select data

Figure 4.5 shows what we want to choose

7) <u>Select vip id, price, name where name = third</u>

Code:

Select V_id, V_price, V_name

From vip

Where V_name IN ('third');

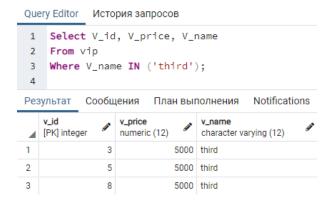


Figure 4.6 - select data

Figure 4.6 shows what we want to choose

8) Select hall, row numbers order by hall descending

Code:

Select s_hall, s_row

From seat

Order by s_hall desc;



Figure 4.7 - select data

Figure 4.7 shows what we want to choose

9) Select average of vip price

Code:

Select round(avg(V_price))

From vip;

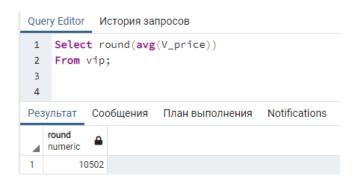


Figure 4.8 - select data

Figure 4.8 shows what we want to choose

10) Select cinema id, name, email, phone, address where id more than 3

Code:

Having (ca_id> 3);

Select ca_id, ca_name, ca_email, ca_phone, ca_address
From cinema

Group by ca_name, ca_email, ca_phone, ca_address, ca_id

Query Editor История запросов Scr 1 Select ca_id, ca_name, ca_email, ca_phone, ca_address 2 From cinema 3 Group by ca_name, ca_email, ca_phone, ca_address, ca_id 4 Having (ca_id> 3); Результат Сообщения План выполнения Notifications ca_id ca_id ca_name ca_representation ca_name character varying (50) ca_email character varying (50) ca_representation character varying (50) ca_address character varying (100) 4 Локомотив aktobecin@mail,ru 87004040404 12 Kinoplex aktaucin@mail,ru 87001121212 Aktau 87001141414 14 Festival CINEMA pavlodarcin@mail.ru Pavlodar 13 Love Cinema shymkentcin@mail,ru 87001131313 Shymkent 87005050505 5 Атамекен taldykorgancin@mail,ru Taldykorgan

kzylordacin@mail,ru

tarazcin@mail,ru

Figure 4.9 - select data

87001111111

87008080808

Kzyl-Orda

Figure 4.9 shows what we want to choose

11 Oiyn Sauyq Ortalygy

8 Astana Cinema

7. Write at least 5 subqueries: single-row, multiple-row and multiple-column subqueries, and etc.;

1) Single column

Code:

Select ca_address

From cinema

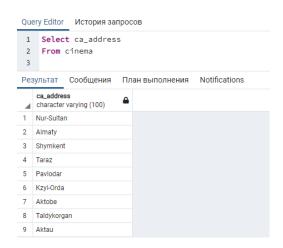


Figure 5 – single column

Figure 5 shows single column

2) Single row

Code:

Select * from customer

where $c_{id} = 1$;



Figure 5.1 - single row

Figure 5.1 shows single row

3) Multiple column

Code:

Select e_name, e_email, e_gender from employee

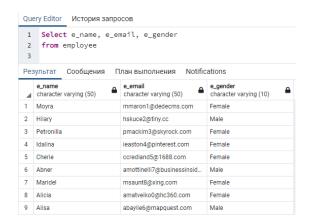


Figure 5.2 – multiple column

Figure 5.1 shows multiple column

4) Multiple row

Code:

Select f_name, f_genre

from film

where $f_{id} = 33$ or $f_{id} = 37$ or $f_{id} = 39$

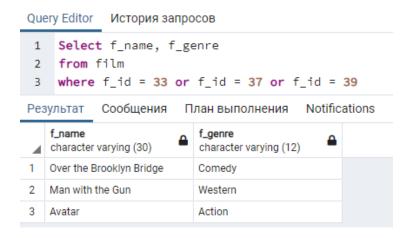


Figure 5.1 shows multiple row

5) All columns and rows

Code:

select*from ticket

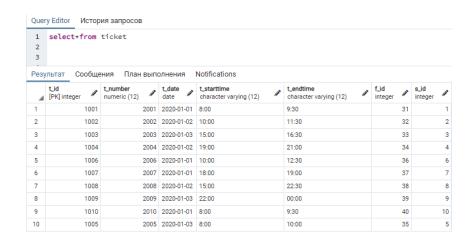


Figure 5.4 – all columns and rows

Figure 5.4 shows all columns and rows

Appendix

Cinema

Primary key: CA_Id

CA_name varchar(50) - must not exceed 50 characters, else error

CA_email varchar(50) - must not exceed 50 characters, else error

CA_phone varchar(15) - must not exceed 15 characters, else error

CA_address varchar(100)) - must not exceed 100 characters, else error

Customer

Primary key: C_id

fname varchar(50) - must not exceed 50 characters, else error

lname varchar(50) - must not exceed 50 characters, else error

C email varchar(50) - must not exceed 50 characters, else error

C_phone varchar(15) - must not exceed 15 characters, else error

C_address varchar(100) - must not exceed 100 characters, else error

Employee

Primary key: E_id

E_name varchar(50) - must not exceed 50 characters, else error

E_email varchar(50) - must not exceed 50 characters, else error

E_phone varchar(15) - must not exceed 15 characters, else error

E_gender varchar(10) - must not exceed 10 characters, else error

Foreign key: CA_id int

Film

Primary key: F_id

F_name varchar(30) - must not exceed 30 characters, else error

F_genre varchar(12) - must not exceed 12 characters, else error

Vip

Primary key: V_id

V_price decimal(12) - must not exceed 12 numbers, else error

V_name varchar(12) - must not exceed 12 characters, else error

Seat

Primary key: S_id

S_number decimal(12) - must not exceed 12 numbers, else error

S_hall decimal(12) - must not exceed 12 numbers, else error

S_row decimal(12) - must not exceed 12 numbers, else error

Foreign key: V_id

Ticket

Primary key: T_id

T_number decimal(12) - must not exceed 12 numbers, else error

T_date date – format "year-month-day"

T_starttime varchar(12) - must not exceed 12 characters, else error

T_endtime varchar(12) - - must not exceed 12 characters, else error

Foreign key: F_id

Foreign key: S id

Buying

Foreign key: C_id

Foreign key: T_id

Booking

Primary key: B_id

booking_by varchar(100) - must not exceed 100 characters, else error

film varchar(100) - must not exceed 100 characters, else error

Foreign key: C_id

Foreign key: T_id

Foreign key: F_id

Foreign key: E_id

Cust_booking

Foreign key: C_id

Foreign key: B_id

Amount

Primary key: A_id

C_cost decimal(12) - must not exceed 12 numbers, else error

Foreign key: B_id

Conclusion

In conclusion, I want to say that during the time I did this project, I repeated and maybe even learned a lot of things. I repeated the languages DDL and DML. Found some info about the cinema system and other stuff. Came up with some data. I worked on this project completely alone. So I spent a lot of my time doing this assignment. I think in a group of at least 2 people it would be much faster and even easier. So, this is what I did.

Reference List

- [1] Aitmukhanbetova.E, SQL DEVELOPMENT, DDL STATEMENTS from http://moodle.astanait.edu.kz/mod/resource/view.php?id=8226
- [2] Aitmukhanbetova.E, SQL DEVELOPMENT, DML STATEMENTS from http://moodle.astanait.edu.kz/mod/resource/view.php?id=8469
- [3] Aitmukhanbetova.E, JOIN OPERATORS from http://moodle.astanait.edu.kz/mod/resource/view.php?id=8798
- [4] INSERT from https://www.mockaroo.com/