

Midterm

Please write SQL queries for following tasks.

1. Create tables following tables «movies» and «theaters»:

id (serial, PK)	title (varchar(255), not null, unique)	rating (integer)	genre (varchar(50), not null)
1	Citizen Kane	5	Drama
2	Singin' in the Rain	8	Comedy
3	The Wizard of Oz	2	Fantasy
4	The Quiet Man	null	Comedy
5	North by Northwest	null	Thriller
6	The Last Tango in Paris	9	Drama
7	Some Like it Hot	4	Comedy
8	A Night at the Opera	null	Comedy

id (serial, PK)	name (varchar(255), not null, unique)	size (integer, minimum 3, not null)	city (varchar(50), not null)
1	Kinopark Esentai	15	Almaty
2	Star Cinema Mega	7	Almaty
3	Kinopark 8	9	Shymkent
4	Star Cinema 15	11	Astana
5	Cinemax	4	Aktau

2. Select the names of only one theater from each city.
3. Select the top 3 theaters by size.
4. Select the third highest movie by rating (rating can be null).
5. Select all rated movies.
6. Select movies from Comedy and Fantasy genre with existing rating.
7. Show all movies in the following format with aliases:

- 1) Low rating (0-3); 2) Medium rating (4-7); 3) High rating (8-10)
- 4) No rating (Null)

Movie ID	MovieInfo
1	The rating of Citizen Kane is Medium
2	The rating of Singin' in the Rain is High
3	The rating of The Wizard of Oz is Low
4	The Quiet Man has no rating

8. Create table named «movietheaters» with pair primary key (theater_id and movie_id):

theater_id (FK from theaters)	movie_id (FK from movies)	rating
1	5	5
3	1	7
1	3	9
4	6	6
2	3	5
4	4	7

9. Select all movies that are not currently showing in theaters.

10. Select the following data from each movie:

- title in upper case;
- title by removing first three letters;
- number of characters in title;

11. Set the rating of all unrated movies to 1.

12. Remove all movies not currently showing in theaters.

13. Select all movies which has name with following pattern:

First letter is 'S' and penultimate letter is 'o'.

14. Select average size of theaters in each city.

15. Select movies which currently showing in more than 2 theaters.