Midterm Variant #1

Multiple Choice

1.	Which one of the following is used to define the structure of the relation, deleting elations and relating schemas ?			
	a) DML(Data Manipul c) Query	ation Language)	b) DDL(Data D d) Relational S	efinition Language) chema
2.	An attribute A of datatype char(20) has value "Reed spaces.	• •		
	a) 3, 20 b) 20, 4	c) 20 , 20	d) 3, 4	
3.	Select depdisplays the unique value		.nstructor; Here w	hich of the following
	a) All b) From	c) Distinct	d) Name	
4.	SELECT * FROM emple above there is an error.		ot_name="Comp Sci	; In the SQL given
	a) Dept_name	b) Employee	c) "Comp Sci"	d) From
5.	'' matches any strin at three characte	_	characters. '%' m	natches any string of
	a) At least, Exactly	b) Exactly, At least	c) At least, All	d) All , Exactly

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	7	Comedy
3	The Wizard of Oz	7	Fantasy
4	The Quiet Man	null	Comedy
5	North by Northwest	null	Thriller
6	The Last Tango in Paris	9	Drama

id (serial, PK)	name (varchar(255), not null, unique)	size (integer, 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

- 2. Select the names of only one movie from each genre.
- 3. Select the top 3 movies by rating.
- 4. Select the third biggest theater by size.
- 5. Select all unrated movies.
- 6. Select theaters from Almaty and Shymkent with size greater than 7.
- 7. Show all movies in the following format with aliases:

ModielD	Movielnfo	
1	The genre of Citizen Kane is Drama	
2	The genre of Singin' in the Rain is Comedy	
3	The genre of The Wizard of Oz is Fantasy	

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 count

- 9. Select all theaters that are not currently showing a movie.
- 10. Select all movies by dividing to three categories (if NULL print «No rating»):
 - 1) Low rating (0-3); 2) Medium rating (4-7); 3) High rating (8-10)
- 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 'T', third letter is 'e' and end with letter 'n'.
- 14. Select average rating of each genre.
- 15. Select theaters which currently showing more than 1 movie.