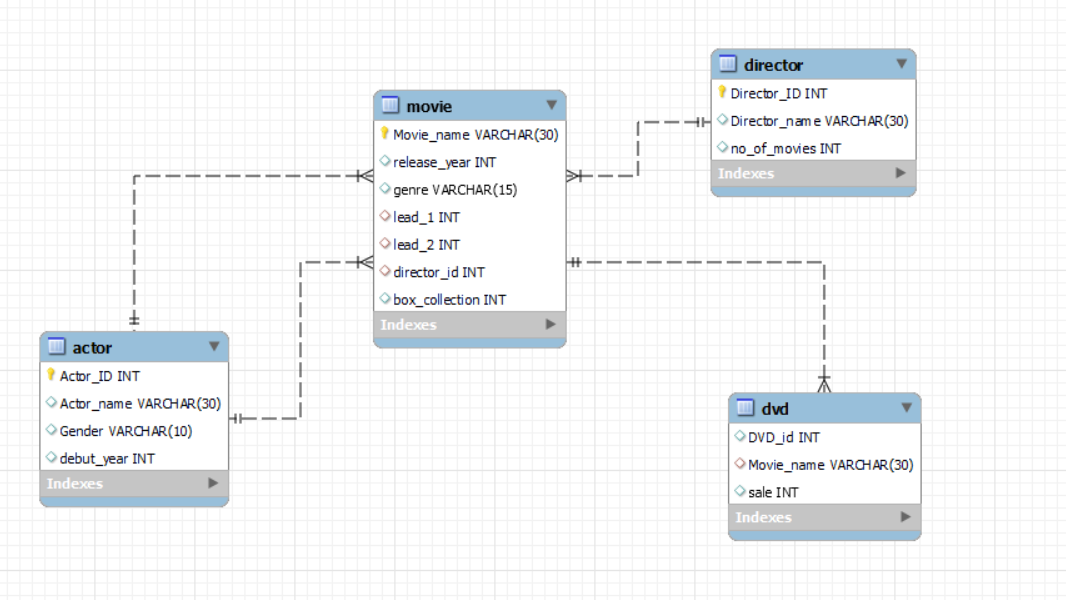
**SQL Group By assignment**

**Database Schema**



Initial queries for database, table creation and inserting values

Create and use database

create database grpby;

use grpby;

Create Tables

CREATE TABLE Actor(Actor\_ID int,Actor\_name varchar(30),Gender varchar(10),debut\_year int);

CREATE TABLE Director(Director\_ID int,Director\_name varchar(30),no\_of\_movies int);

CREATE TABLE Movie(Movie\_name varchar(30),release\_year int,genre varchar(15),lead\_1 int,lead\_2 int,director\_id int,box\_collection int );

CREATE TABLE DVD(DVD\_id int,Movie\_name varchar(30),sale int);

Inserting Values

insert into actor values(1,'Aamir Khan','male',1988);

insert into actor values(2,'Shahrukh Khan','male',1992);

insert into actor values(3,'Kareena Kapoor','female',2000);

insert into actor values(4,'Kajol','female',1992);

insert into actor values(5,'Anushka Sharma','female',2008);

insert into actor values(6,'Ranbir Kapoor','male',2007);

insert into actor values(7,'Alia Bhatt','female',2012);

insert into actor values(8,'Ranveer Singh','male',2010);

insert into actor values(9,'Deepika Padukone','female',2006);

insert into actor values(10,'Shahid Kapoor','male',2003);

insert into actor values(11,'Katrina Kaif','female',2003);

insert into actor values(12,'Varun Dhawan','male',2012);

insert into director values(1,'Rajkumar Hirani',10);

insert into director values(2,'Sanjay Leela Bhansali',8);

insert into director values(3,'Aditya Chopra',6);

insert into director values(4,'Zoya Akhtar',3);

insert into director values(5,'Imtiaz Ali',5);

insert into director values(6,'Ayan Mukerji',4);

insert into director values(7,'Santosh Sivan',9);

insert into director values(8,'Farah Khan',4);

insert into movie values('3 Idiots',2009,'comedy',1,3,1,989600000);

insert into movie values('PK',2014,'satire',1,5,1,789600000);

insert into movie values('Bajirao Mastani',2015,'historic',8,9,2,68960000);

insert into movie values('Rab ne bana di jodi',2008,'romance',2,5,3,48960000);

insert into movie values('Gully boy',2019,'Musical drama',8,7,4,28950000);

insert into movie values('Jab we met',2007,'romance',10,3,5,18980000);

insert into movie values('Padmavat',2018,'historic',8,9,2,38460000);

insert into movie values('Yeh jawani hai deewani',2013,'romance',6,9,6,581600000);

insert into movie values('Ashoka',2001,'historic',2,3,7,8796000);

insert into movie values('Happy new year',2014,'comedy',2,9,8,68960000);

insert into DVD values(1,'3 Idiots',8890);

insert into DVD values(2,'PK',8790);

insert into DVD values(3,'Bajirao Mastani',6810);

insert into DVD values(4,'Rab ne bana di jodi',7920);

insert into DVD values(5,'Gully boy',870);

insert into DVD values(6,'Jab we met',4792);

insert into DVD values(7,'Padmavat',590);

insert into DVD values(8,'Yeh jawani hai deewani',2890);

insert into DVD values(9,'Ashoka',730);

insert into DVD values(10,'Happy new year',1690);

Assignment Questions

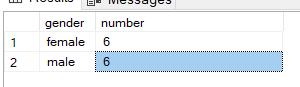
Q1. Display the count of actors and actresses.

select Gender,count(Actor\_id) as 'number'

from actor

group by gender

Output:-



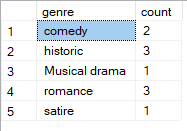
Q2. Display the count of movies of each genre.

Select genre,count(movie\_name)as 'count'

from Movie

group by genre;

Output:-



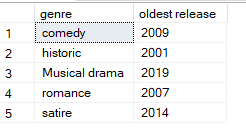
Q3. Calculate the oldest released movie of each genre.

Select genre,min(release\_year)as 'oldest release'

from Movie

group by genre;

Output:-



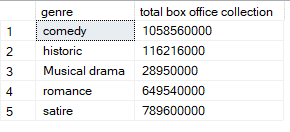
Q4. Calculate the total box office collection for movies of each genre.

Select genre,sum(box\_collection)as 'total box office collection'

from Movie

group by genre;

Output:-



Q5. Display the name of director, current count of movies and total count of

movies directed by him/her.

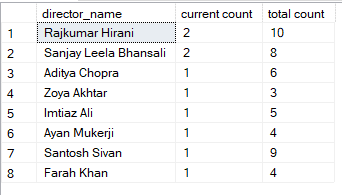
select director\_name,count(movie\_name)as 'current count',no\_of\_movies as 'total count'

from movie,Director

where movie.director\_id=Director.Director\_ID

group by movie.director\_id,Director\_name,no\_of\_movies;

Output:-



Q6. Display the name of lead\_1 actors, their count of movies and their total DVD sales.

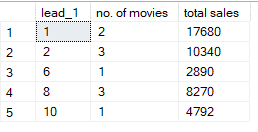
select lead\_1,count(dvd.Movie\_name) as 'no of movies', sum(sale) as'total DVD sale'

from DVD,Movie

where DVD.movie\_name=movie.movie\_name

group by lead\_1;

Output:-



Q7. Show the release year and number of movies released in each year only if

more than 1 movie is released each year.

select release\_year,count(Movie\_name) as'more movies released in this year'

from movie

group by release\_year

having count(Movie\_name)>1;

Output:-



Q8. Display the director name and their total box office collection which should be greater than 50 crores.

select director\_name,sum(box\_collection) as 'box office collection'

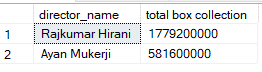
from Movie,director

where movie.director\_id=director.director\_id

group by movie.director\_id,director\_name

Having sum(box\_collection)>500000000;

Output:-



Q9. Give the count of movies of each genre in decreasing order of count.

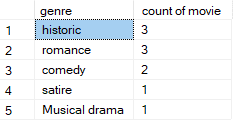
select genre,count(movie\_name) as 'Count of movie'

from Movie

group by genre

order by count(movie\_name) desc;

Output:-



Q10. Sort the movie names based on director names.

select movie\_name,director\_name

from Movie,Director

where movie.director\_id=director.director\_id

order by director\_name;

Output:-

