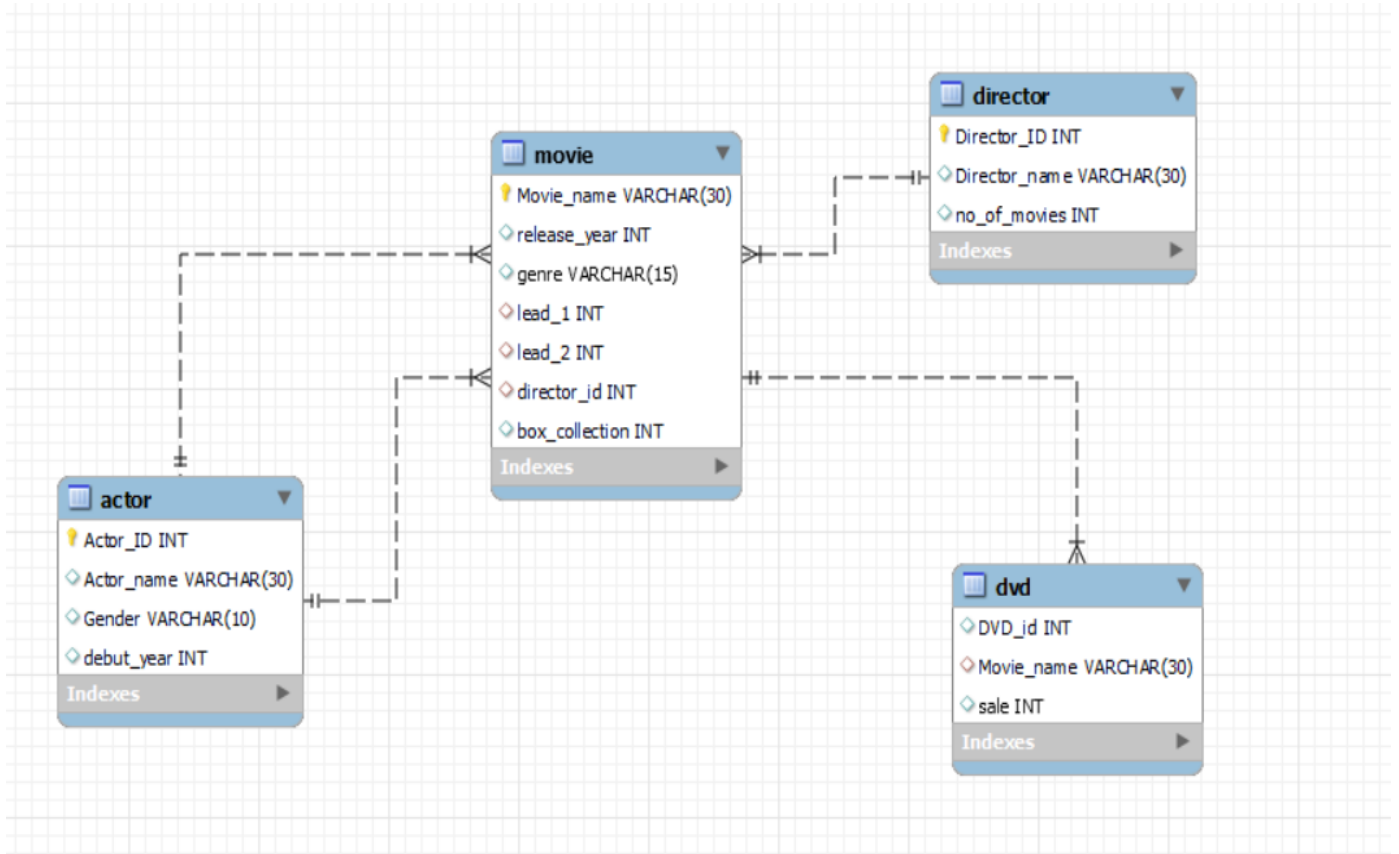


SQL Group By assignment

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, 689600000);
```

```
insert into movie values('Rab ne bana di
jodi', 2008, 'romance', 2, 5, 3, 489600000);
```

```
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.

Output: -

	gender	number
1	female	6
2	male	6

Q2. Display the count of movies of each genre.

Output: -

	genre	count
1	comedy	2
2	historic	3
3	Musical drama	1
4	romance	3
5	satire	1

Q3. Calculate the oldest released movie of each genre.

Output: -

	genre	oldest release
1	comedy	2009
2	historic	2001
3	Musical drama	2019
4	romance	2007
5	satire	2014

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

Output: -

	genre	total box office collection
1	comedy	1058560000
2	historic	116216000
3	Musical drama	28950000
4	romance	649540000
5	satire	789600000

Q5. Display the name of director, current count of movies and total count of movies directed by him/her.

Output: -

	director_name	current count	total count
1	Rajkumar Hirani	2	10
2	Sanjay Leela Bhansali	2	8
3	Aditya Chopra	1	6
4	Zoya Akhtar	1	3
5	Imtiaz Ali	1	5
6	Ayan Mukerji	1	4
7	Santosh Sivan	1	9
8	Farah Khan	1	4

Q6. Display the name of lead_1 actors, their count of movies and their total DVD sales.

Output: -

	lead_1	no. of movies	total sales
1	1	2	17680
2	2	3	10340
3	6	1	2890
4	8	3	8270
5	10	1	4792

Q7. Show the release year and number of movies released in each year only if more than 1 movie is released each year.

Output: -

	release_year	no. of movies
1	2014	2

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

Output: -

	director_name	total box collection
1	Rajkumar Hirani	1779200000
2	Ayan Mukerji	581600000

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

Output:-

	genre	count of movie
1	historic	3
2	romance	3
3	comedy	2
4	satire	1
5	Musical drama	1

Q10. Sort the movie names based on director names.

Output: -

	director_name	movie_name
1	Aditya Chopra	Rab ne bana di jodi
2	Ayan Mukerji	Yeh jawani hai deewani
3	Farah Khan	Happy new year
4	Imtiaz Ali	Jab we met
5	Rajkumar Hirani	3 Idiots
6	Rajkumar Hirani	PK
7	Sanjay Leela Bhansali	Bajirao Mastani
8	Sanjay Leela Bhansali	Padmavat
9	Santosh Sivan	Ashoka
10	Zoya Akhtar	Gully boy