**ASSIGNMENT 2&3**

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Create a movie database as follows:

Movie (m-id, title, release-date, rank)

Director (d-id, fname, lname, gender)

Direct (m-id, d-id)

Actor (a-id, f\_name, l\_name)

Cast (m-id, a-id, role)

create database assign\_2;

use assign\_2;

create table movie(

m\_id int primary key,

title varchar(50),

release\_date date,

rating char(1)

);

create table director(

d\_id int primary key,

f\_name varchar(20),

l\_name varchar(20),

gender char(1)

);

create table direct(

m\_id int,

d\_id int,

foreign key(m\_id) references movie(m\_id),

foreign key(d\_id) references director(d\_id)

);

create table actor(

a\_id int primary key,

f\_name varchar(20),

l\_name varchar(20)

);

create table casting(

m\_id int,

a\_id int,

role varchar(10),

foreign key(m\_id) references movie(m\_id),

foreign key(a\_id) references actor(a\_id)

);

1. Insert values into above created tables

insert into movie values(1,"Sholay", "1975-08-15", "A");

insert into movie values(2, "Ram-Lakhan", "1989-01-27", "A");

insert into movie values(3,"Kabir Singh", "2019-06-21", "A");

insert into movie values(4,"Khamoshiyan", "2015-01-30", "C");

insert into movie values(5,"Dangal", "2016-12-23", "A");

insert into movie values(6,"War", "2019-10-02", "B");

insert into movie values(7,"PK", "2014-12-19", "A");

insert into movie values(8,"Lagaan","2001-06-15", "A");

insert into movie values(9, "Airlift", "2016-01-22", "A");

insert into movie values(10,"Jab Tak Hai Jaan", "2012-03-19", "B");

insert into movie values(11, "Deewaar", "1975-08-3", "A");

insert into movie values(14,'Pathaan','2022-09-17','B');

insert into movie values(14,'Jawaan','2023-09-07','A');

insert into director values(50, "Yash", "Chopra", "M");

insert into director values(51, "Ramesh", "Sippy", "M");

insert into director values(52, "Shubhas", "Ghai", "M");

insert into director values(53, "Sandeep", "Bhanga", "M");

insert into director values(54, "Sapna", "Pabbi", "F");

insert into director values(55, "Mukesh", "Chabbra", "M");

insert into director values(56,"Shanoo", "Sharma", "F");

insert into director values(57,'xyz', 'abc', 'M');

insert into direct values(1,51);

insert into direct values(2,52);

insert into direct values(3,53);

insert into direct values(4,54);

insert into direct values(5,55);

insert into direct values(6,56);

insert into direct values(7,55);

insert into direct values(10,50);

insert into direct values(11,50);

insert into direct values

(13,57),

(14,57);

insert into actor values

(100, "Amitabh", "Bachan"),

(101, "Anil", "Kapoor"),

(102, "Kiara", "Advani"),

(103, "Amir", "Khan"),

(104, "Hrithik", "Roshan"),

(105, "Akshay", "Kumar"),

(106, "Sharukh", "Khan");

insert into cast values

(1,100,"Hero"),

(2,102,"Heroine"),

(3,102,"Hero"),

(5,103,"Hero"),

(6,104,"Hero"),

(7,103,"Hero"),

(8,103,"Hero"),

(9,105,"Hero"),

(10,106,"Hero"),

(11,100,"Hero");

2. Create a view for listing all movies directed by ‘XYZ’ director. Alter this view for listing all movies of ‘XYZ’ director having rank ‘A’. Rename the view. Perform DML (insert, delete and update) operations on views.

create view view1(mov) as

select title

from movie

where m\_id in(

select m\_id

from direct

where d\_id=57);

|  |
| --- |
| Pathaan |
| Jawaan |

alter view view1(mov) as

select title

from movie

where m\_id in(

select m\_id

from direct

where d\_id=57) and rating='A';

Jawaan

rename table view1 to view4;

2. Insert values into only selected columns (e.g. in Movie table insert values for only title and release-date)

insert into movie(m\_id,title,release\_date) values (12,"Bahubali", "2015-07-10");

3. Select all values from Movie and Actor tables.

select \* from movie;

select \* from actor;

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | Sholay | 1975-08-15 | A |
| 2 | Ram-Lakhan | 1989-01-27 | A |
| 3 | Kabir Singh | 2019-06-21 | A |
| 4 | Khamoshiyan | 2015-01-30 | C |
| 5 | Dangal | 2016-12-23 | A |
| 6 | War | 2019-10-02 | B |
| 7 | PK | 2014-12-19 | A |
| 8 | Lagaan | 2001-06-15 | A |
| 9 | Airlift | 2016-01-22 | A |
| 10 | Jab Tak Hai Jaan | 2012-03-19 | B |
| 11 | Deewaar | 1975-08-03 | A |
| 12 | Bahubali | 2015-07-10 |  |

|  |  |  |
| --- | --- | --- |
| 100 | Amitabh | Bachan |
| 101 | Anil | Kapoor |
| 102 | Kiara | Advani |
| 103 | Amir | Khan |
| 104 | Hrithik | Roshan |
| 105 | Akshay | Kumar |
| 106 | Sharukh | Khan |

4. Select m-ID and title from Movie table.

select m\_id,title from movie;

|  |  |
| --- | --- |
| 1 | Sholay |
| 2 | Ram-Lakhan |
| 3 | Kabir Singh |
| 4 | Khamoshiyan |
| 5 | Dangal |
| 6 | War |
| 7 | PK |
| 8 | Lagaan |
| 9 | Airlift |
| 10 | Jab Tak Hai Jaan |
| 11 | Deewaar |
| 12 | Bahubali |

5. Select details of movie directed by “Yash Chopra”.

select \* from movie

where m\_id in(

select m\_id from direct

where d\_id=50);

|  |  |  |  |
| --- | --- | --- | --- |
| 10 | Jab Tak Hai Jaan | 2012-03-19 | B |
| 11 | Deewaar | 1975-08-03 | A |

6. Assume different actors with same first and last name and accordingly have entries into respective table. Now select list of all distinct f\_name and l\_name from Actor table.

select distinct f\_name, l\_name from actor;

|  |  |
| --- | --- |
| Amitabh | Bachan |
| Anil | Kapoor |
| Kiara | Advani |
| Amir | Khan |
| Hrithik | Roshan |
| Akshay | Kumar |
| Sharukh | Khan |

7. Update the release date of movie “Sholay” and add Pay (money offered for his work) column in Actor table.

update movie

set release\_date="1975-08-16"

where m\_id=1;

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | Sholay | 1975-08-16 | A |

alter table actor

add pay int;

8. Update (increase) the pay of actor working in “Ram-Lakhan” by 6000 Rs.

update actor

set pay=pay + 6000

where a\_id = (

select a\_id from casting

where m\_id=2);

|  |  |  |  |
| --- | --- | --- | --- |
| 100 | Amitabh | Bachan | null |
| 101 | Anil | Kapoor | 6000 |
| 102 | Kiara | Advani | null |
| 103 | Amir | Khan | null |
| 104 | Hrithik | Roshan | null |
| 105 | Akshay | Kumar | null |
| 106 | Sharukh | Khan | null |

|  |
| --- |
|  |
|  |
|  |
|  |
|  |
| 10. Select all movie names where title starts with ‘K’.  select title from movie where title like 'K%';   |  | | --- | | Kabir Singh | | Khamoshiyan |   11. List all actors from (“Dangal”, “War”, “PK”) movies.(IN operator)  select \* from actor  where a\_id in(  select a\_id from cast  where m\_id in (5,6,7) );   |  |  |  |  | | --- | --- | --- | --- | | 103 | Amir | Khan | 70000 | | 104 | Hrithik | Roshan | 75000 |   12. What is the average pay of actors casted in “Airlift”.  select avg(pay)  from actor  where a\_id in(  select a\_id from cast  where m\_id=9);  80000.0000 |

13. Find total number of actors working in “Lagaan”.

select count(a\_id)

from cast

where m\_id=8;

1

14. Find Maximum and Minimum pay of actor in “PK”.

select max(pay), min(pay)

from actor

where a\_id in (select a\_id from cast where m\_id=7);

|  |  |
| --- | --- |
| 70000 | 70000 |

15. Find total amount spent on salaries of actors of “War”.

select sum(pay)

from actor

where a\_id in (select a\_id from casting where m\_id=6);

75000

16. List all details of movie, sorted ascending by title and descending by release date.

select \*

from movie

order by title asc;

|  |  |  |  |
| --- | --- | --- | --- |
| 9 | Airlift | 2016-01-22 | A |
| 12 | Bahubali | 2015-07-10 |  |
| 5 | Dangal | 2016-12-23 | A |
| 11 | Deewaar | 1975-08-03 | A |
| 10 | Jab Tak Hai Jaan | 2012-03-19 | B |
| 3 | Kabir Singh | 2019-06-21 | A |
| 4 | Khamoshiyan | 2015-01-30 | C |
| 8 | Lagaan | 2001-06-15 | A |
| 7 | PK | 2014-12-19 | A |
| 2 | Ram-Lakhan | 1989-01-27 | A |
| 1 | Sholay | 1975-08-16 | A |
| 6 | War | 2019-10-02 | B |

select \*

from movie

order by release\_date desc;

|  |  |  |  |
| --- | --- | --- | --- |
| 6 | War | 2019-10-02 | B |
| 3 | Kabir Singh | 2019-06-21 | A |
| 5 | Dangal | 2016-12-23 | A |
| 9 | Airlift | 2016-01-22 | A |
| 12 | Bahubali | 2015-07-10 |  |
| 4 | Khamoshiyan | 2015-01-30 | C |
| 7 | PK | 2014-12-19 | A |
| 10 | Jab Tak Hai Jaan | 2012-03-19 | B |
| 8 | Lagaan | 2001-06-15 | A |
| 2 | Ram-Lakhan | 1989-01-27 | A |
| 1 | Sholay | 1975-08-16 | A |
| 11 | Deewaar | 1975-08-03 | A |

17. List all actor names from “Lagaan” and “Sholay” using union.

select f\_name

from actor

where a\_id in (select a\_id from cast where m\_id=8)

union

select f\_name

from actor

where a\_id in (select a\_id from cast where m\_id=1);

|  |
| --- |
| Amir |
| Amitabh |

18. List all employee names (allow duplicate values for names) from “PK” and “War” using union all

select f\_name

from actor

where a\_id in (select a\_id from cast where m\_id=6)

union all

select f\_name

from actor

where a\_id in (select a\_id from cast where m\_id=7);

|  |
| --- |
| Hrithik |
| Amir |

19. List all actor ids casted in “Lagaan” and “PK”. (Emulate intersect)

select distinct a\_id

from cast

where m\_id in (7,8);

|  |
| --- |
| 103 |
|  |

20. List all actor ids casted in “Dangal” but not in “War” (emulate minus)

select a\_id

from cast

where m\_id=7 and m\_id!=6;

103