**ASSIGNMENT-3**

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**ROLL NO. : 3323**

Create a movie database as follows:

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

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

Direct (m-id, d-id)

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

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

**SUB-QUERY:**

1. Find all actors from “Sholay” and “RAM-LAKHAN”.

select \* from actor

where a\_id in (

select a\_id from cast

where m\_id in (1,2) );

|  |  |  |  |
| --- | --- | --- | --- |
| 100 | Amitabh | Bachan | 100000 |
| 101 | Anil | Kapoor | 90000 |

2. Find movie title and director name of top 5 movie arranged in descending order in 2019.

select title

from movie

where m\_id in(

select m\_id

from movie

where release\_date between "2019-01-01" and "2019-12-31")

order by title desc

limit 5;

|  |
| --- |
| War |
| Pathaan |
| Kabir Singh |
|  |
|  |

select f\_name from director

where d\_id in(

select d\_id from direct

where m\_id in(

select m\_id from movie

where release\_date between "2019-01-01" and "2019-12-31" ));

|  |
| --- |
| Sandeep |
| Shanoo |
| xyz |

3. Find total number of actors casted in each movie.

select title, count(m\_id)

from movie

where m\_id in(

select m\_id from cast)

group by title;

|  |  |
| --- | --- |
| Sholay | 1 |
| Ram-Lakhan | 1 |
| Kabir Singh | 1 |
| Dangal | 1 |
| War | 1 |
| PK | 1 |
| Lagaan | 1 |
| Airlift | 1 |
| Jab Tak Hai Jaan | 1 |
| Deewaar | 1 |

4. List role of actor having salary greater than 80000.

select role from cast

where a\_id in(

select a\_id from actor

where pay >=80000);

|  |
| --- |
| Hero |
| Hero |
| Heroine |
| Hero |

5. List movie details directed by female director.

select \* from movie

where m\_id in (

select m\_id from direct

where d\_id in(

select d\_id from director

where gender="F"));

|  |  |  |  |
| --- | --- | --- | --- |
| 4 | Khamoshiyan | 2015-01-30 | C |
| 6 | War | 2019-10-02 | B |

**JOINS**

6. List all movie details directed by “Yash Chopra”

select \*

from movie

inner join direct

on movie.m\_id= direct.m\_id

where direct.d\_id=50;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 10 | Jab Tak Hai Jaan | 2012-03-19 | B | 10 | 50 |
| 11 | Deewaar | 1975-08-03 | A | 11 | 50 |

7. Find all possible combination of roles can be assigned to each actor (cross join)

select cast.role, actor.f\_name

from cast

cross join actor;

|  |  |
| --- | --- |
| Hero | Akshay |
| Hero | Hrithik |
| Hero | Amir |
| Hero | Kiara |
| Hero | Anil |
| Hero | Amitabh |
| Hero | Sharukh |
| Hero | Akshay |
| Hero | Hrithik |
| Hero | Amir |
| Hero | Kiara |
| Hero | Anil |
| Hero | Amitabh |
| Hero | Sharukh |
| Hero | Akshay |
| Hero | Hrithik |
| Hero | Amir |
| Hero | Kiara |
| Hero | Anil |
| Hero | Amitabh |
| Hero | Sharukh |
| Hero | Akshay |
| Hero | Hrithik |
| Hero | Amir |
| Hero | Kiara |
| Hero | Anil |
| Hero | Amitabh |

8. Show all movie details and director details of the movies released in year 2018-19

select \*

from movie

left join direct

on movie.m\_id= direct.m\_id

where release\_date between "2018-01-01" and "2019-12-31";

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 3 | Kabir Singh | 2019-06-21 | A | 3 | 53 |
| 6 | War | 2019-10-02 | B | 6 | 56 |

9. Give all actors details not casted in “Dangal” (right outer join)

select \*

from cast

right join actor

on cast.a\_id=actor.a\_id

where cast.a\_id not in (select a\_id from cast where m\_id=5);

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | 100 | Hero | 100 | Amitabh | Bachan | 100000 |
| 11 | 100 | Hero | 100 | Amitabh | Bachan | 100000 |
| 2 | 101 | Heroine | 101 | Anil | Kapoor | 80000 |
| 3 | 102 | Hero | 102 | Kiara | Advani | 60000 |
| 6 | 104 | Hero | 104 | Hrithik | Roshan | 75000 |
| 9 | 105 | Hero | 105 | Akshay | Kumar | 70000 |
| 10 | 106 | Hero | 106 | Sharukh | Khan | 40000 |

10. List details of movies not staring by “Amitabh Bachchan” and actor details not casted in “PK” (emulate full outer join using union)

select \*

from movie

left join cast

on movie.m\_id=cast.m\_id

where cast.a\_id!=100

union

select \*

from movie

right join cast

on movie.m\_id=cast.m\_id

where cast.m\_id!=7;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 2 | Ram-Lakhan | 1989-01-27 | A | 2 | 101 | Heroine |
| 3 | Kabir Singh | 2019-06-21 | A | 3 | 102 | Hero |
| 5 | Dangal | 2016-12-23 | A | 5 | 103 | Hero |
| 6 | War | 2019-10-02 | B | 6 | 104 | Hero |
| 7 | PK | 2014-12-19 | A | 7 | 103 | Hero |
| 8 | Lagaan | 2001-06-15 | A | 8 | 103 | Hero |
| 9 | Airlift | 2016-01-22 | A | 9 | 105 | Hero |
| 10 | Jab Tak Hai Jaan | 2012-03-19 | B | 10 | 106 | Hero |
| 1 | Sholay | 1975-08-16 | A | 1 | 100 | Hero |
| 11 | Deewaar | 1975-08-03 | A | 11 | 100 | Hero |