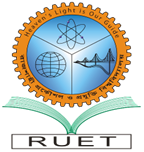
***“Heaven’s Light is Our Guide”***



**Department of Computer Science & Engineering**

**RAJSHAHI UNIVERSITY OF ENGINEERING & TECHNOLOG**

**Lab Report**

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| **Submitted By:**  **Name: Khandoker Sefayet Alam**  **Roll:2003121**  **Department: Computer Science & Engineering**  **Section-C**    **Course code: CSE 3102**  **Course name: Database Management System** |

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| **Submitted To:**  **Barshon Sen** |

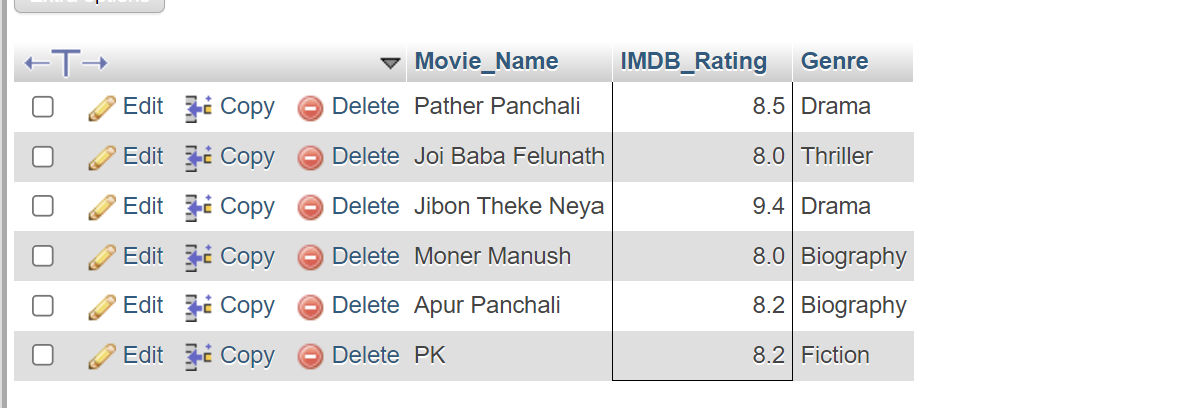
❖Query 1.1:

Display the name, IMDb rating and genre of all the movies with an IMDB rating greater than or equal to 8.0.

code:

SELECT Movie\_Name,IMDB\_Rating,Genre FROM movie WHERE IMDB\_Rating>=8;

table:



Query 1.2:

Find how many movies are there in each genre with an IMDB rating greater than or equal to 8.0.

code:

SELECT COUNT(Movie\_Name) cnt,Genre FROM movie WHERE IMDB\_Rating>=8 GROUP BY Genre;

table:



Query 1.3:

Find the name and the average IMDb rating of those genres whose average IMDb rating is greater than or equal to 8.0.

code:

SELECT Genre\_AVG,Genre FROM (SELECT AVG(IMDB\_Rating) As Genre\_AVG,Genre FROM movie GROUP BY Genre) as GENRE\_TABLE WHERE Genre\_AVG>=8.0 ;

table:



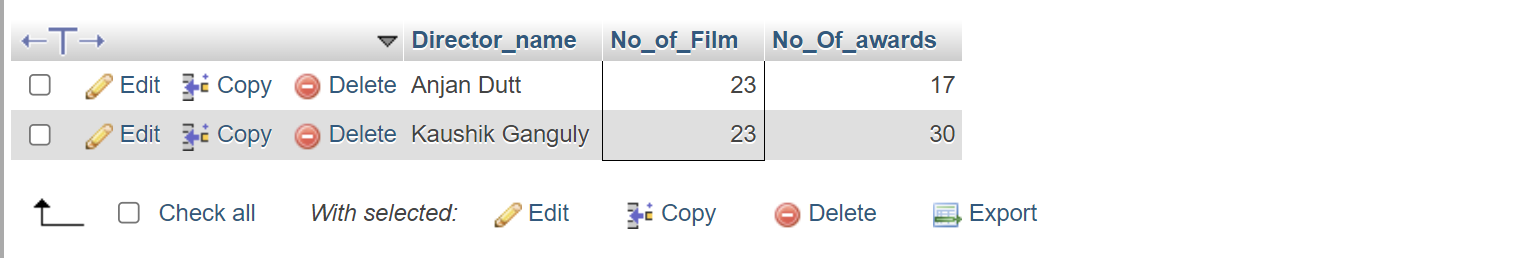
Query 1.4:

Find the name, number of films and number of awards of the director who directed the most number of movies.

code:

SELECT Director\_name,No\_of\_Film,No\_Of\_awards from director WHERE No\_of\_Film=(SELECT max(No\_of\_Film) from director);

table:



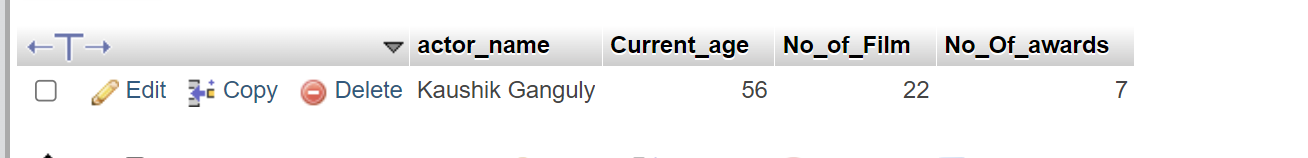
Query 1.5:

Find the name, current age, number of films and number of awards of the youngest actor.

code:

SELECT actor\_name,Year(Now())-Birth\_year as Current\_age,No\_of\_Film,No\_Of\_awards from actor WHERE Birth\_year=(SELECT max(Birth\_year) FROM actor);

table:



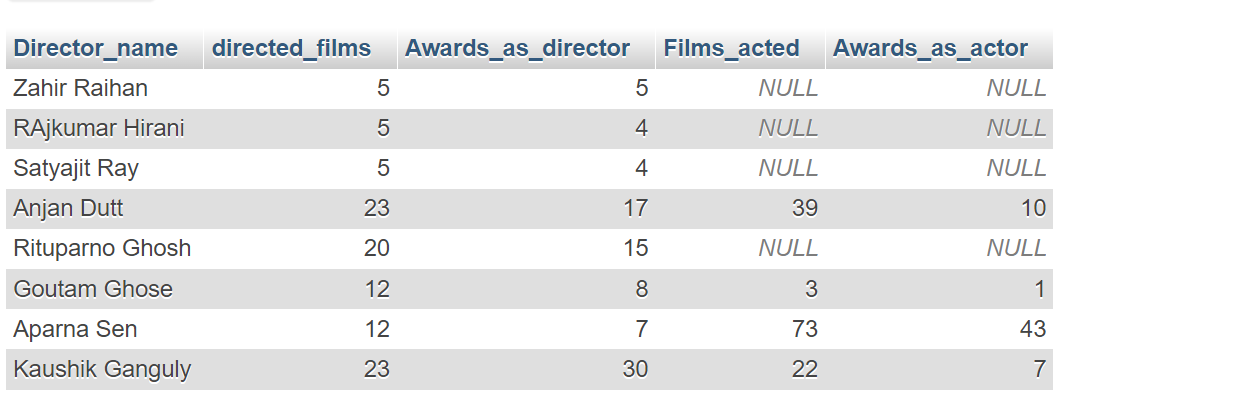
Query 2.1:

Find the name, number of films as a director, number of films as an actor, number of awards as a director and number of awards as an actor of all the directors. (If a director never acted in any film then number of films and number of awards as an actor will be ***null***)

code:

SELECT director.Director\_name, director.No\_of\_Film as directed\_films, director.No\_Of\_awards as Awards\_as\_director, actor.No\_Of\_Film as Films\_acted, actor.No\_Of\_Awards as Awards\_as\_actor FROM director LEFT JOIN actor ON director.Person\_Id=actor.Person\_ID;

table:



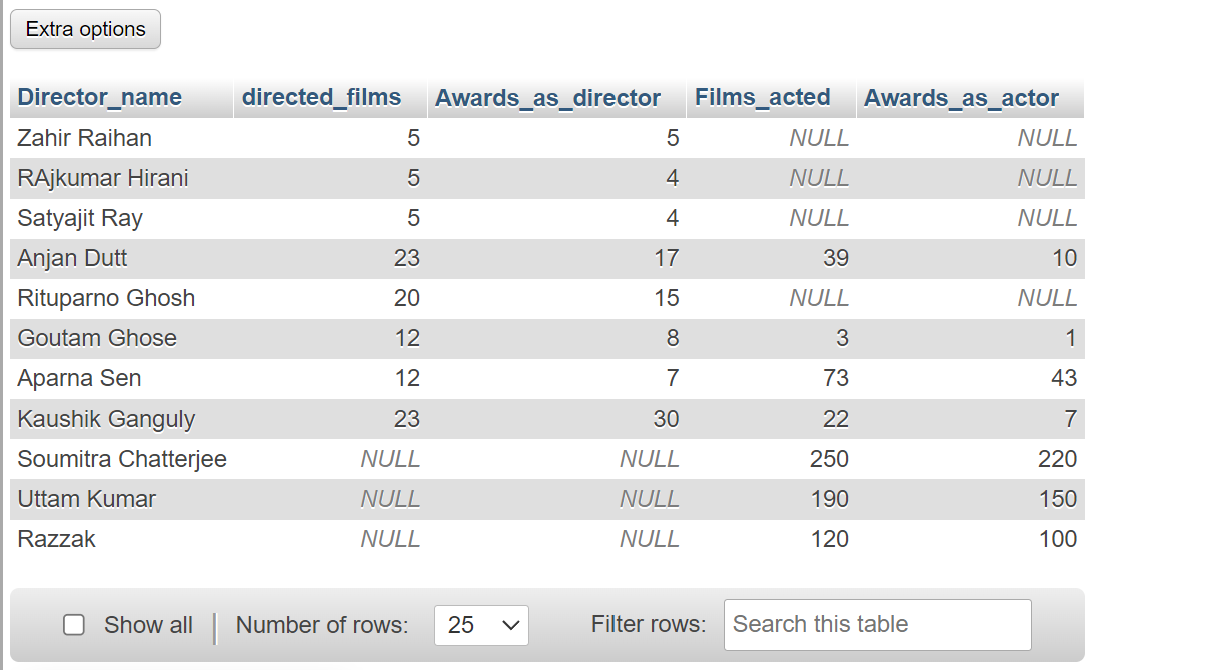
❖ Query 2.2: Find the name, number of films as a director, number of films as an actor, number of awards as a director and number of awards as an actor of all the actors and directors.

Code:

SELECT director.Director\_name, director.No\_of\_Film as directed\_films, director.No\_Of\_awards as Awards\_as\_director, actor.No\_Of\_Film as Films\_acted, actor.No\_Of\_Awards as Awards\_as\_actor FROM director LEFT JOIN actor ON director.Person\_Id=actor.Person\_ID UNION

SELECT actor.Actor\_Name, director.No\_of\_Film as directed\_films, director.No\_Of\_awards as Awards\_as\_director, actor.No\_Of\_Film as Films\_acted, actor.No\_Of\_Awards as Awards\_as\_actor FROM actor LEFT JOIN director ON director.Person\_Id=actor.Person\_ID

Table:

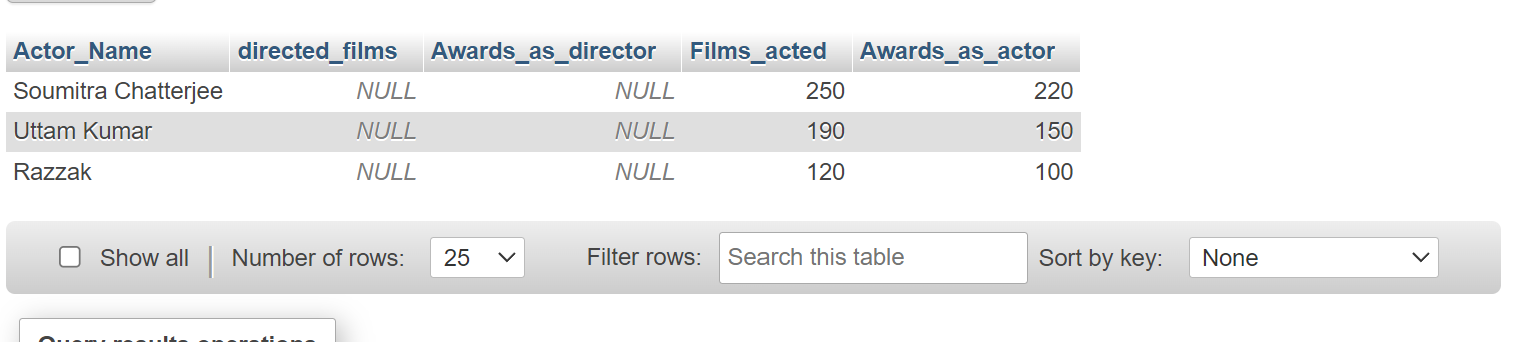


❖ Query 2.3: Find the name, number of films and number of awards of those actors who never directed any film.

Code:

SELECT actor.Actor\_Name, director.No\_of\_Film as directed\_films, director.No\_Of\_awards as Awards\_as\_director, actor.No\_Of\_Film as Films\_acted, actor.No\_Of\_Awards as Awards\_as\_actor FROM actor LEFT JOIN director ON director.Person\_Id=actor.Person\_ID WHERE director.No\_of\_Film is NULL;

Table:

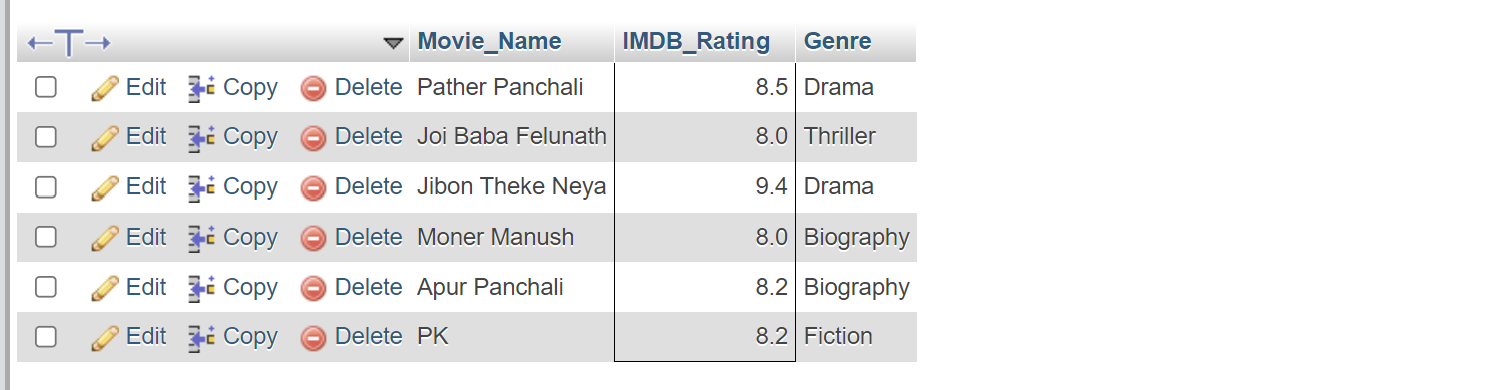


❖ Query 2.4: Find the name, IMDb rating and genre of those movies whose IMDb Rating is above average.

Code:

SELECT Movie\_Name,IMDB\_Rating,Genre FROM movie WHERE IMDB\_Rating>(SELECT AVG(IMDB\_Rating) FROM movie);

Table:



❖ Query 2.5: Among the average IMDb ratings of all the movie genres, find

the highest average IMDb rating.

Code:

SELECT MAX(IMDB\_MAX\_AVG),Genre FROM (SELECT AVG(IMDB\_Rating) as IMDB\_MAX\_AVG,Genre FROM movie GROUP BY Genre) as derived;

Table:

