PRSQ - 02 - IMDB Movies



Team ID: PTID-CDA-DEC-24-283

Project ID: PRSQ-02

Project Name: IMDB Movies

By

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Perform the Problem Queries:

- a) Can you get all data about movies?
- b) How do you get all data about directors?
- c) Check how many movies are present in IMDB.
- d) Find these 3 directors: James Cameron; Luc Besson; John Woo.
- e) Find all directors with name starting with S.
- f) Count female directors.
- g) Find the name of the 10th first women directors?
- h) What are the 3 most popular movies?
- i) What are the 3 most bankable movies?
- j) What is the most awarded average vote since the January 1st, 2000?
- k) Which movie(s) were directed by Brenda Chapman?
- 1) Which director made the most movies?
- m) Which director is the most bankable?

Attribute Information:

Table Directors:

Name: Name of the Director

ID: Unique ID of the Directors

Gender: Gender of the Director→ 0/2=Male, 1=Female

Department: Department of the Directors.

Table Movies:

ID: Unique Id for Movies

Original title: Movie name

Budget: Budget of the movie

Popularity: Popularity of the Movie

Release Date: Release date for the movies

Revenue: Revenue collected movie

Title: Initial title of the movie

Vote Average: Average IMDB rating

Vote Count: Number of Vote the movie got

Overview: Description of the movie

Tagline: Tagline of the Movie

UID: Unique ID for Movie

Director ID: Director ID

QUERIES WITH ANSWERS

PERFORM THE PROBLEM QUERIES

a) How do you get all the data about movies?

SELECT * FROM project_movie_database.movies;

b) How do you get all the data about directors?

SELECT * FROM project_movie_database.directors;

c) Check how many movies are present in IMDB

SELECT COUNT(*) AS movie_count FROM project_movie_database.movies;

d) Find these 3 directors: James Cameron; Luc Besson; John Woo

SELECT * FROM project_movie_database.directors

WHERE `name` IN ('James Cameron', 'Luc Besson', 'John Woo');

e) Find all the directors with name starting with S

SELECT `name` FROM project_movie_database.directors

WHERE `name` LIKE 'S%';

f) Count Female Directors

SELECT count(*) AS Count_of_female_directors

FROM project_movie_database.directors

WHERE gender=1;

g) Find the name of 10th First women director?

SELECT `name` AS female_director

FROM project_movie_database.directors

WHERE gender=1 ORDER BY gender

DESC LIMIT 1 OFFSET 9;

h) What are the 3 most popular movies?

SELECT original_title, popularity

FROM project_movie_database.movies

ORDER BY popularity DESC LIMIT 3;

i) What are the 3 most bankable movies?

SELECT original_title, revenue

FROM project_movie_database.movies

ORDER BY revenue DESC LIMIT 3;

j) What is the most awarded average vote since the January 1st, 2000?

SELECT title, vote_average, release_date

FROM project_movie_database.movies

WHERE release_date>=2000-01-01

ORDER BY vote_average DESC LIMIT 1;

k) Which movie(s) were directed by Brenda Chapman?

SELECT m.original_title, d.`name`

FROM movies m JOIN directors d

ON m.director id=d.id

WHERE d.`name` = "Brenda Chapman";

l) Which director made the most movies

SELECT d.`name`, count(m.id) AS most_movie_count

FROM movies m JOIN directors d

ON m.director_id=d.id GROUP BY d.`name`

ORDER BY most_movie_count DESC LIMIT 1;

m) Which director is the most bankable?

SELECT d.`name`, SUM(m.revenue) AS most_revenue

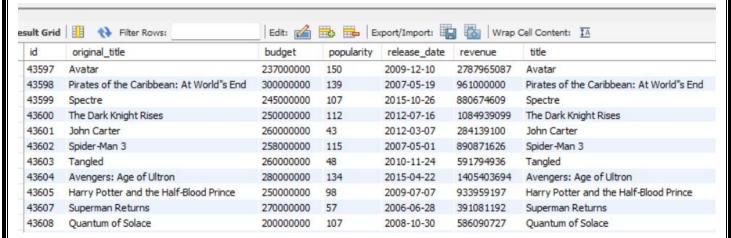
FROM movies m JOIN directors d

ON m.director id=d.id GROUP BY d.`name`

ORDER BY most_revenue DESC LIMIT 1;

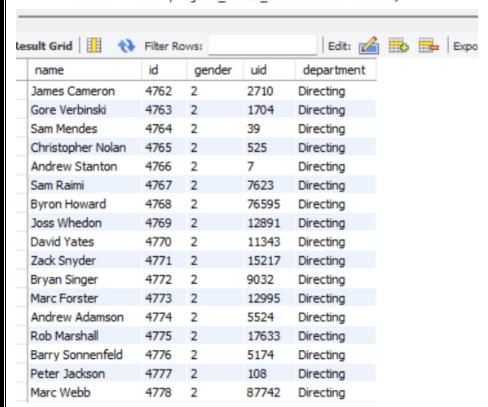
MySQL Execution with Explanation:

- 3 ## a) How do you get all the data about movies?
- 4 SELECT * FROM project_movie_database.movies;

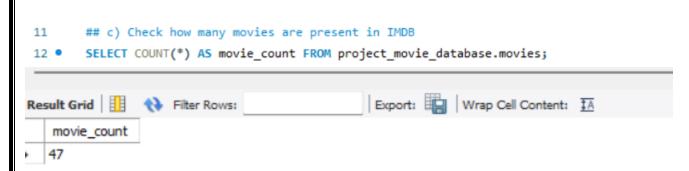


Statement Explanation: The above SELECT Statement retrieves all columns and rows from the movies table, providing detailed information about every movie in the dataset as shown in the result.

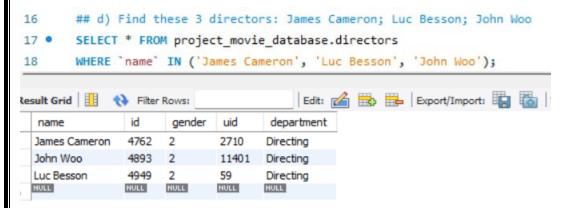
- 6 ## b) How do you get all the data about directors?
- 7 SELECT * FROM project_movie_database.directors;



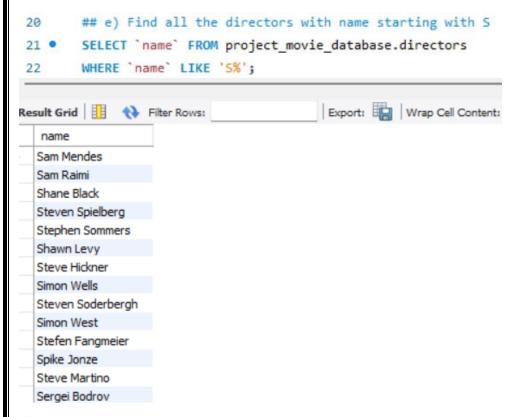
Statement Explanation: The above SELECT Statement retrieves all columns and rows from the directors table, providing detailed information about every director in the dataset as shown in the result.



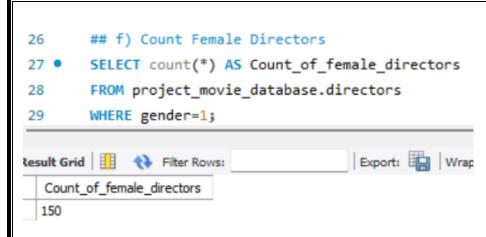
Statement Explanation: The above SELECT Statement uses the count function to count all rows in the movies table, returning the total number of movies listed as shown in the result.



Statement Explanation: The above SELECT Statement filters the directors table using the WHERE clause with the IN operator to match any of the three specified names as shown in the result.



Statement Explanation: The above SELECT Statement uses the LIKE operator with the wildcard % to find directors whose names start with the letter "S" as shown in the result.



Statement Explanation: The above SELECT Statement filters the directors table where the gender column equals 1 (assuming 1 represents females) and counts the matching rows as shown in the result.

```
## g) Find the name of 10th First women director?

SELECT `name` AS female_director

FROM project_movie_database.directors

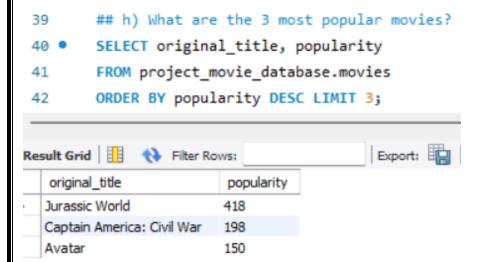
WHERE gender=1 ORDER BY gender

DESC LIMIT 1 OFFSET 9;

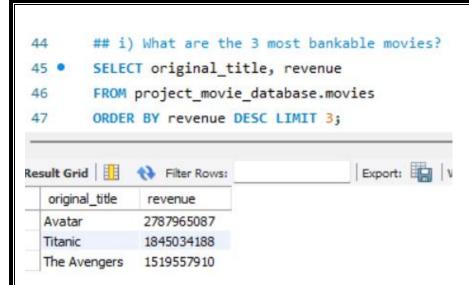
Result Grid Filter Rows: Export: Wrap Cell Cont female_director

Angelina Jolie
```

Statement Explanation: The above SELECT Statement filters for female directors (gender = 1), orders them by id in ascending order, skips the first 9 rows (OFFSET 9), and retrieves the 10th row (LIMIT 1) as shown in the result.



Statement Explanation: The above SELECT Statement orders movies by their popularity in descending order and retrieves the top 3 as shown in the result.

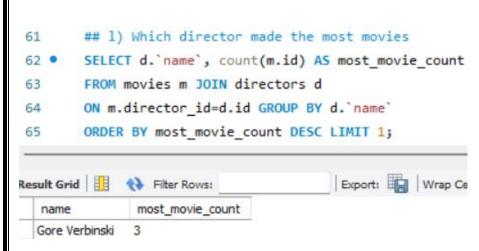


Statement Explanation: The above SELECT Statement orders movies by their revenue in descending order and retrieves the top 3 as shown in the result.

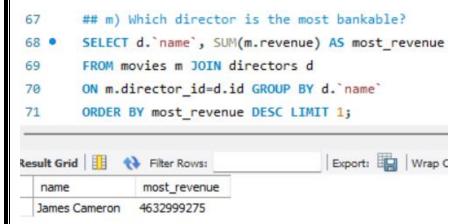
```
## j) What is the most awarded average vote since the January 1st, 2000?
49
        SELECT title, vote_average, release_date
50 •
        FROM project movie database.movies
51
        WHERE release_date>=2000-01-01
52
        ORDER BY vote average DESC LIMIT 1;
                                        Export: Wrap Cell Content: IA Fetch rows:
vote_average
                                release_date
 The Dark Knight Rises
                   7.6
                                2012-07-16
```

Statement Explanation: The above SELECT Statement filters for movies released on or after 2000-01-01, orders them by vote_average in descending order, and retrieves the top movie as shown in the result.

Statement Explanation: The above SELECT Statement performs an INNER JOIN between movies and directors tables on director_id and id. Filters the result for Brenda Chapman as shown in the result.



Statement Explanation: The above SELECT Statement joins movies and directors, groups result by director name, counts movies for each director, and retrieves the one with the highest count as shown in the result.



Statement Explanation: The above SELECT Statement joins movies and directors, groups result by director name, sums up the revenues for each director, and retrieves the one with the highest revenue as shown in the result.