

From: Sam Fischer, COO of Borromean
To: DBA Team
Subject: Movie Information

Hello DBA team!

I hope everyone is doing well. We wanted to get a better understanding of some of the data we have collected over the last few years regarding movies. If you could answer all of the following questions, it would be a big help. You can find all the information within the mojoMovies database.

1. What are the movie title, release year, and international gross for the top 10 highest internationally grossing films?

SOLUTION

```
SELECT title, releaseYear, internationalGross
FROM movie
ORDER BY internationalGross DESC
LIMIT 10;
```

	title	re...	internatio...
1	Avengers: Endgame	2019	1939427564
2	The Lion King	2019	1113305351
3	Frozen II	2019	972653355
4	Jurassic World: Fallen Kingdom	2018	890748184
5	Spider-Man: Far from Home	2019	741395911
6	Joker	2019	738800000
7	Captain Marvel	2019	701444955
8	Aladdin	2019	695134737
9	Bohemian Rhapsody	2018	687227217
10	Venom	2018	642569645

2. What is the average domestic gross for movies released in 2018?

SOLUTION

```
SELECT AVG(domesticGross)
FROM movie
WHERE releaseYear = 2018;
```

	`AVG(domesticGross)`
1	77920856.5773

3. How many movies were distributed by Yash Raj Films and what is the sum of their budgets?

SOLUTION

```
SELECT count(1), SUM(m.budget)
FROM movie m
```

```
JOIN distributor d ON m.distributorId = d.id
WHERE d.name = "Yash Raj Films";
```

	count(1)	SUM(m.budget)
1	2	23800000

4. What are the top 3 genres and how many films have been released for those 3 genres?

SOLUTION

```
SELECT g.genreType, count(1)
FROM genre g
JOIN movie m ON g.id = m.genreId
GROUP BY m.genreId
ORDER BY count(1) DESC
LIMIT 3;
```

	genreType	count(1)
1	Action	81
2	Comedy	38
3	Adventure	32

5. What are the movie titles, release years, genre types, and names of people for directors, writers, or producers who have 'steve' in their name?

SOLUTION

```
SELECT m.title, m.releaseYear, g.genreType, p.fullName
FROM movie m
JOIN person p ON m.directorId = p.id OR m.producerId = p.id OR m.writerId = p.id
JOIN genre g ON m.genreId = g.id
WHERE p.fullName LIKE "%steve%";
```

	title	releaseYear	genreType	fullName
1	Widows	2018	Crime	Steve McQueen
2	Ready Player One	2018	Action	Steven Spielberg
3	Pacific Rim: Uprising	2018	Action	Steven S. DeKnight
4	Sherlock Gnomes	2018	Adventure	John Stevenson
5	Creed II	2018	Drama	Steven Caple Jr.

6. What are the movie titles and distributors for movies with a rating of G or PG?

SOLUTION

```
SELECT m.title, d.name
FROM movie m
JOIN distributor d ON m.distributorId = d.id
JOIN rating r ON m.ratingId = r.id
WHERE ratingType = "G" OR ratingType = "PG"
```

ORDER BY d.name;

There are 46 - too many to include a screenshot of.

7. Which distributors released movies in 2018?

SOLUTION

```
DISTINCT(d.name)  
FROM distributor d  
JOIN movie m ON d.id = m.distributorId  
WHERE m.releaseYear = 2018;
```

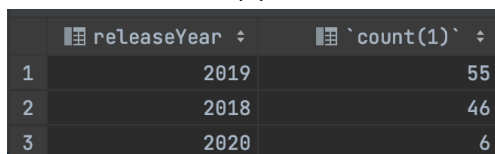


	name
1	Twentieth Century Fox
2	Metro-Goldwyn-Mayer MGM
3	Universal Pictures
4	Sony Pictures Releasing
5	STX Entertainment
6	Warner Bros.
7	Pantelion Films
8	Lionsgate
9	Paramount Pictures
10	Walt Disney Studios Motion Pictures
11	Roadside Attractions
12	Studio 8
13	BH Tilt
14	Entertainment Studios Motion Pictures
15	Screen Gems
16	Orion Pictures
17	Focus Features
18	Affirm Films
19	FUNimation Entertainment
20	Quality Flix

8. How many movies were released in 2018, 2019, and 2020 where the worldwideGross was over \$100,000,000?

SOLUTION

```
SELECT releaseYear, count(1)  
FROM movie  
WHERE worldwideGross > 100000000  
GROUP BY releaseYear  
ORDER BY count(1) DESC;
```



	releaseYear	`count(1)`
1	2019	55
2	2018	46
3	2020	6

9. What movies were the actors Jack Black, Jason Sudeikis, or Anne Hathaway each in and who had the highest worldwide grossing movie?

SOLUTION

```
SELECT m.title, p.fullName, m.worldwideGross
```

```
FROM movie m
```

```
JOIN person p ON m.actorId = p.id
```

```
WHERE p.fullName = "Jack Black" OR p.fullName = "Jason Sudeikis" OR p.fullName =  
"Anne Hathaway"
```

```
ORDER BY m.worldwideGross DESC;
```

	title	fullName	worldwideGross
1	The Angry Birds Movie 2	Jason Sudeikis	147792047
2	The House with a Clock in Its Walls	Jack Black	131457147
3	The Hustle	Anne Hathaway	95017038

Thank you for your help on this, it's much appreciated.

Sam Fischer
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