

--- General Questions

1. What is the total revenue generated by each movie?

```
SELECT m.title, f.revenue
FROM movies m
JOIN financials f ON m.movie_id = f.movie_id;
```

2. Which language has the most movies?

```
SELECT l.name AS language, COUNT(m.movie_id) AS movie_count
FROM movies m
JOIN languages l ON m.language_id = l.language_id
GROUP BY l.name
ORDER BY movie_count DESC
LIMIT 1;
```

3. What is the average IMDb rating per industry?

```
SELECT industry, AVG(imdb_rating) AS average_rating
FROM movies
GROUP BY industry;
```

4. Which movie has the highest budget, and what is its revenue?

```
SELECT m.title, f.budget, f.revenue
FROM movies m
JOIN financials f ON m.movie_id = f.movie_id
ORDER BY f.budget DESC
LIMIT 1;
```

5. What is the average budget and revenue for movies per release year?

```
SELECT release_year, AVG(f.budget) AS average_budget, AVG(f.revenue) AS
average_revenue
FROM movies m
JOIN financials f ON m.movie_id = f.movie_id
GROUP BY release_year;
```

--- Actor-related Questions

6. Which actors have worked on the most movies?

```
SELECT a.name, COUNT(ma.movie_id) AS movie_count
FROM actors a
JOIN movie_actor ma ON a.actor_id = ma.actor_id
GROUP BY a.name
ORDER BY movie_count DESC;
```

7. What is the average age of actors starring in movies released after 2010?

```
SELECT AVG(YEAR(CURDATE()) - a.birth_year) AS average_age
FROM actors a
JOIN movie_actor ma ON a.actor_id = ma.actor_id
JOIN movies m ON ma.movie_id = m.movie_id
WHERE m.release_year > 2010;
```

8. List the actors who have worked in the most financially successful movies (by revenue).

```
SELECT a.name, COUNT(ma.movie_id) AS successful_movie_count
FROM actors a
JOIN movie_actor ma ON a.actor_id = ma.actor_id
JOIN financials f ON ma.movie_id = f.movie_id
WHERE f.revenue > (SELECT AVG(revenue) FROM financials)
GROUP BY a.name
ORDER BY successful_movie_count DESC;
```

9. Which actor has appeared in the most movies for a specific studio?

```
SELECT a.name, COUNT(ma.movie_id) AS movie_count
FROM actors a
JOIN movie_actor ma ON a.actor_id = ma.actor_id
JOIN movies m ON ma.movie_id = m.movie_id
WHERE m.studio = "Marvel Studios"
GROUP BY a.name
ORDER BY movie_count DESC;
```

10. What are the most common genres (industries) that a specific actor works in?

```
SELECT m.industry, COUNT(ma.movie_id) AS industry_count
FROM actors a
JOIN movie_actor ma ON a.actor_id = ma.actor_id
JOIN movies m ON ma.movie_id = m.movie_id
WHERE a.name = "Aamir Khan"
GROUP BY m.industry
ORDER BY industry_count DESC;
```

--- Financial Questions

11. Which movie has the highest profit (revenue - budget)?

```
SELECT m.title, (f.revenue - f.budget) AS profit
FROM movies m
JOIN financials f ON m.movie_id = f.movie_id
ORDER BY profit DESC
LIMIT 1;
```

12. What is the total revenue and total budget for all movies in a specific language?

```
SELECT SUM(f.revenue) AS total_revenue, SUM(f.budget) AS total_budget
FROM financials f
JOIN movies m ON f.movie_id = m.movie_id
WHERE m.language_id = (SELECT language_id FROM languages WHERE name =
"Kannada");
```

13. What is the average profit (revenue - budget) for movies in each industry?

```
SELECT m.industry, AVG(f.revenue - f.budget) AS average_profit
FROM movies m
JOIN financials f ON m.movie_id = f.movie_id
GROUP BY m.industry;
```

--- Language-related Questions

14. What is the total number of movies made in each language?

```
SELECT l.name AS language, COUNT(m.movie_id) AS total_movies
FROM languages l
JOIN movies m ON l.language_id = m.language_id
GROUP BY l.name;
```

15. What is the average IMDb rating for movies in each language?

```
SELECT l.name AS language, AVG(m.imdb_rating) AS average_rating
FROM languages l
JOIN movies m ON l.language_id = m.language_id
GROUP BY l.name;
```

16. Which language has generated the highest total revenue across all movies?

```
SELECT l.name AS language, SUM(f.revenue) AS total_revenue
FROM languages l
JOIN movies m ON l.language_id = m.language_id
JOIN financials f ON m.movie_id = f.movie_id
GROUP BY l.name
ORDER BY total_revenue DESC
LIMIT 1;
```

17. What is the most common language for high-budget movies (above a certain threshold)?

```
SELECT l.name AS language, COUNT(m.movie_id) AS high_budget_count
FROM languages l
JOIN movies m ON l.language_id = m.language_id
JOIN financials f ON m.movie_id = f.movie_id
WHERE f.budget > YourBudgetThreshold -- Replace with desired budget threshold
GROUP BY l.name
ORDER BY high_budget_count DESC;
```

18. Which language has the most actors working in its movies?

```
SELECT l.name AS language, COUNT(DISTINCT ma.actor_id) AS actor_count
FROM languages l
```

```

JOIN movies m ON l.language_id = m.language_id
JOIN movie_actor ma ON m.movie_id = ma.movie_id
GROUP BY l.name
ORDER BY actor_count DESC;

```

--- Actor-Movie Relationship Questions

19. Which actors have worked together on the most movies?

```

SELECT a1.name AS actor1, a2.name AS actor2, COUNT(ma1.movie_id) AS
collaboration_count
FROM movie_actor ma1
JOIN movie_actor ma2 ON ma1.movie_id = ma2.movie_id AND ma1.actor_id <>
ma2.actor_id
JOIN actors a1 ON ma1.actor_id = a1.actor_id
JOIN actors a2 ON ma2.actor_id = a2.actor_id
GROUP BY actor1, actor2
ORDER BY collaboration_count DESC;

```

20. What is the most common genre (industry) for movies that involve specific pairs of actors?

```

SELECT DISTINCT(a1.name), DISTINCT(a2.name), COUNT(m.industry) as genre_count
FROM movie_actor ma1
JOIN movie_actor ma2 ON ma1.movie_ID=ma2.Movie_ID AND ma1.Actor_ID <>ma2.Actor_ID
JOIN actors a1 on ma1.Actor_ID=a1.Actor_ID
JOIN actors a2 on ma2.Actor_ID=a2.Actor_ID
JOIN Movies M on M.Movie_ID=ma1.Movie_ID
GROUP BY DISTINCT(a1.Name), DISTINCT(a2.Name), M.industry
ORDER BY genre_count DESC;

```

21. Which actor has the highest number of movies with IMDb ratings above 8.0?

```

SELECT a.name, COUNT(ma.movie_ID) as highRated_movies
FROM actors a
JOIN movie_actor ma on a.actor_ID=ma.Actor_ID
JOIN Movies M on M.Movie_ID=ma.Movie_ID
WHERE M.IMDB_Rating>8.0
GROUP BY A.Name
ORDER BY highRated_movies DESC;

```

22. What is the average budget and revenue for movies that a specific actor starred in?

```
SELECT AVG(f.budget) as avg_budget , AVG(f.revenue ) as avg_revenue
FROM financials F
JOIN Movie_Actor MA on F.Movie_ID=MA.Movie_ID
WHERE MA.Actor_ID=(SELECT Actor_ID from Actors where Name='Specific Actor Name'); --
Replace with desired actor name
```

--- Year-based Analysis

23. What are the highest-grossing movies for each release year?

```
SELECT release_year , title , MAX(revenue ) as highest_grossing_movie
FROM Movies M
JOIN Financials F on M.Movie_ID=F.Movie_ID
GROUP by release_year ;
```

24. How has the average movie budget changed over the years?

```
SELECT release_year , AVG(budget ) as avg_budget
FROM Movies M
JOIN Financials F on M.Movie_ID=F.Movie_ID
GROUP by release_year ;
```

25. What is the total revenue and budget of all movies released in the last decade?

```
SELECT SUM(budget ) as total_budget , SUM(revenue ) as total_revenue
FROM Movies M
JOIN Financials F on M.Movie_ID=F.Movie_ID
WHERE release_year >= YEAR(CURDATE()) - 10 ;
```

26. Which years had the highest number of movies released?

```
SELECT release_year , COUNT(Movie_ID ) as count_of_movies
FROM Movies
GROUP by release_year
ORDER by count_of_movies DESC ;
```

27. What is the trend of IMDb ratings over time (yearly average)?

```
SELECT release_year , AVG(IMDB_Rating ) as avg_rating
FROM Movies
GROUP by release_year ;
```

