Dataset Overview & Basic Statistics

- 1. How many unique movies are in the dataset?
- 2. What is the overall distribution of movie runtimes?
- 3. How many movies are marked as "Adult" (isAdult=1) vs. non-adult (isAdult=0)?
- 4. What are the top 10 most common movie genres?
- 5. What is the distribution of averageRating? Are ratings skewed toward high or low values?
- 6. How many movies have received over 100,000 votes (numVotes > 100,000)?

2 Budget & Gross Revenue Analysis

- 7. What is the distribution of movie budgets?
- 8. What is the distribution of gross revenue?
- 9. What is the average budget and gross revenue of movies?
- 10. Is there a significant correlation between budget and gross revenue?
- 11. Do high-budget movies tend to have higher ratings?
- 12. Which are the top 10 highest-grossing movies?
- 13. Which are the top 10 most profitable movies (profit = gross budget)?
- 14. Are movies with a higher number of votes (numVotes) more profitable?

■Genre-Based Analysis

- 15. Which genre has the highest number of movies?
- 16. What are the average budget and gross revenue per genre?
- 17. Which genre has the highest average rating?
- 18. Are there genres that tend to have longer runtimes?
- 19. Which genre has the most audience engagement (numVotes)?

☐Rating & Popularity Analysis

- 20. What is the correlation between numVotes and averageRating?
- 21. Do high-rated movies necessarily have a high number of votes?
- 22. What are the top 10 highest-rated movies?
- 23. What are the bottom 10 lowest-rated movies?
- 24. Do longer movies tend to have higher ratings?

5Director-Based Analysis

- 25. Which directors have directed the most movies?
- 26. Which directors have the highest-grossing movies?
- 27. Which directors have the highest-rated movies on average?
- 28. Are there directors known for making high-budget movies?
- 29. Are there any extreme outliers in budget, gross revenue, or rating?
- 30. Do outliers in budget affect movie performance?