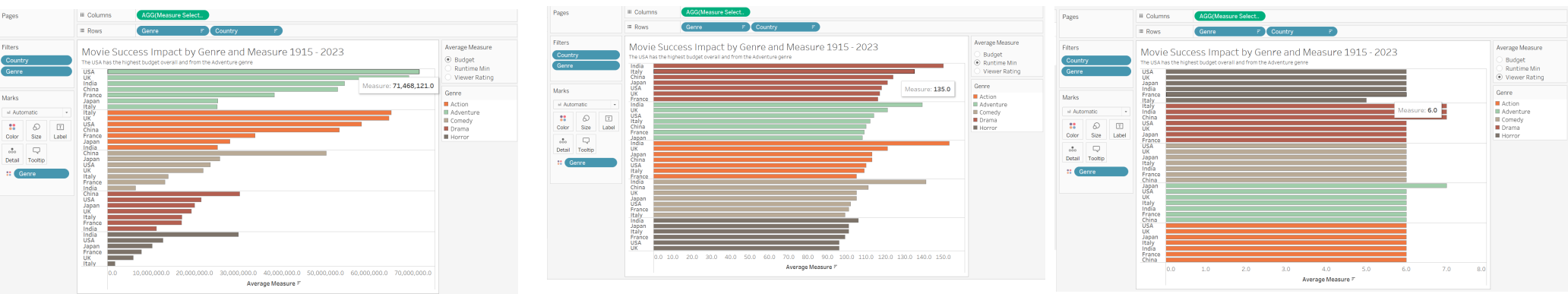
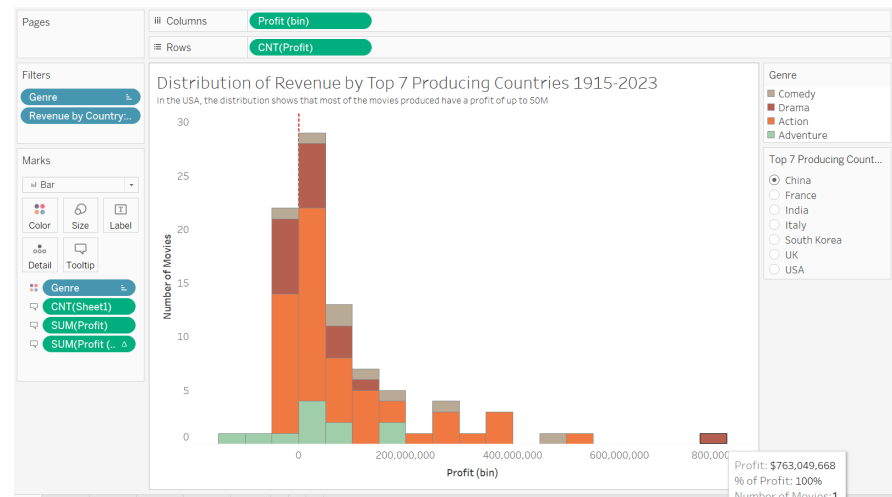
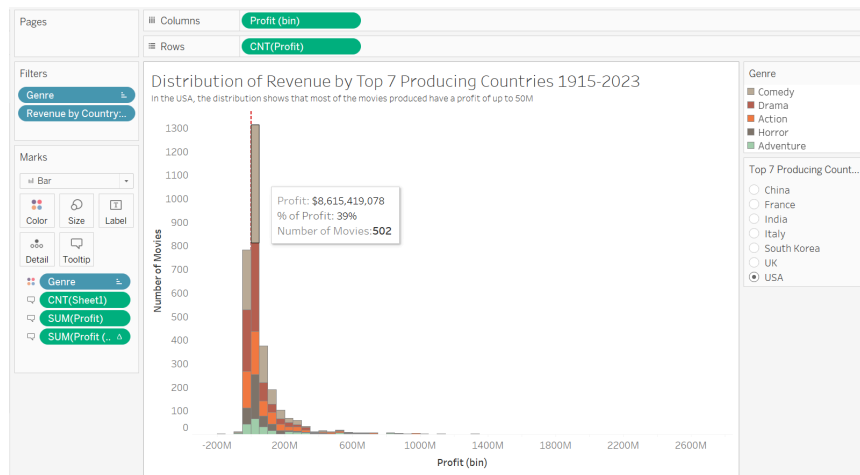


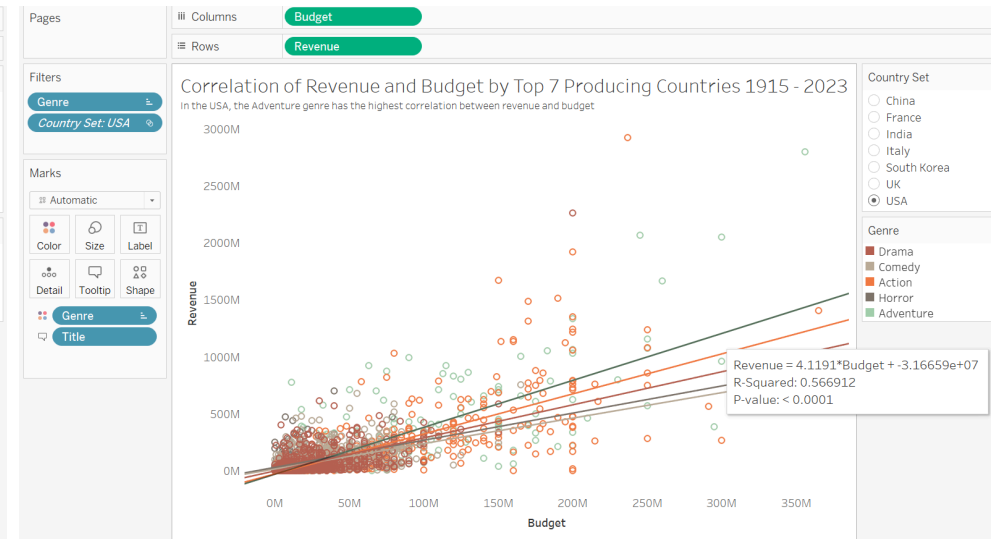
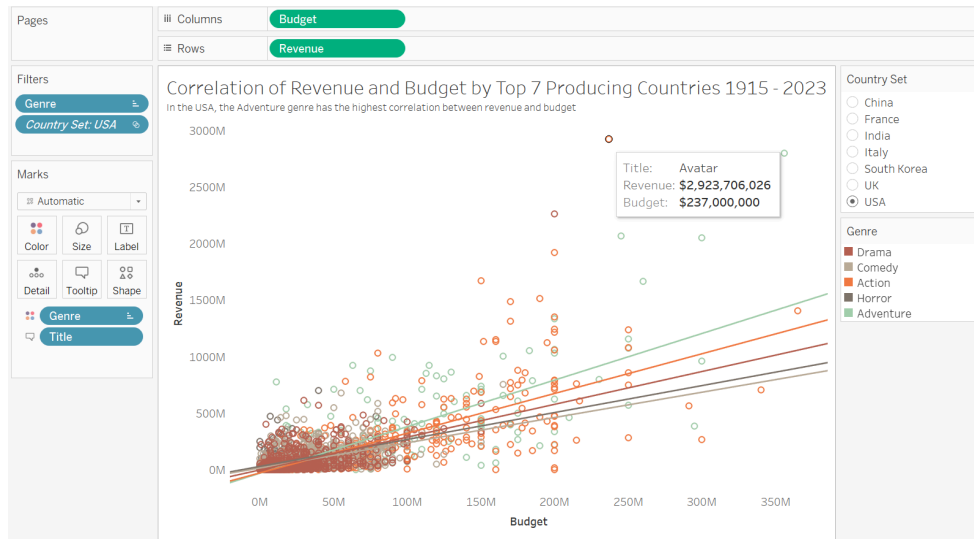
The Top Five Genres Impact to the Top Seven Producing Countries 1915 - 2023
Jaida



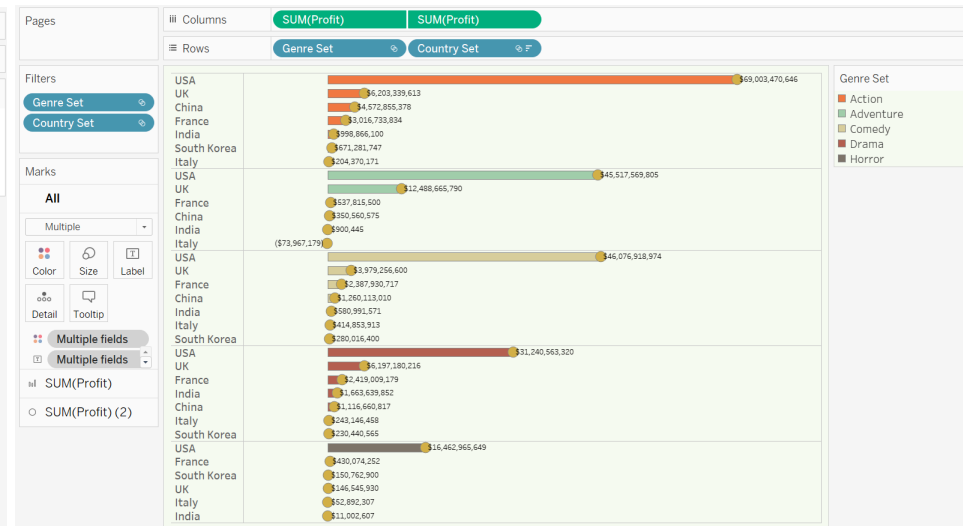
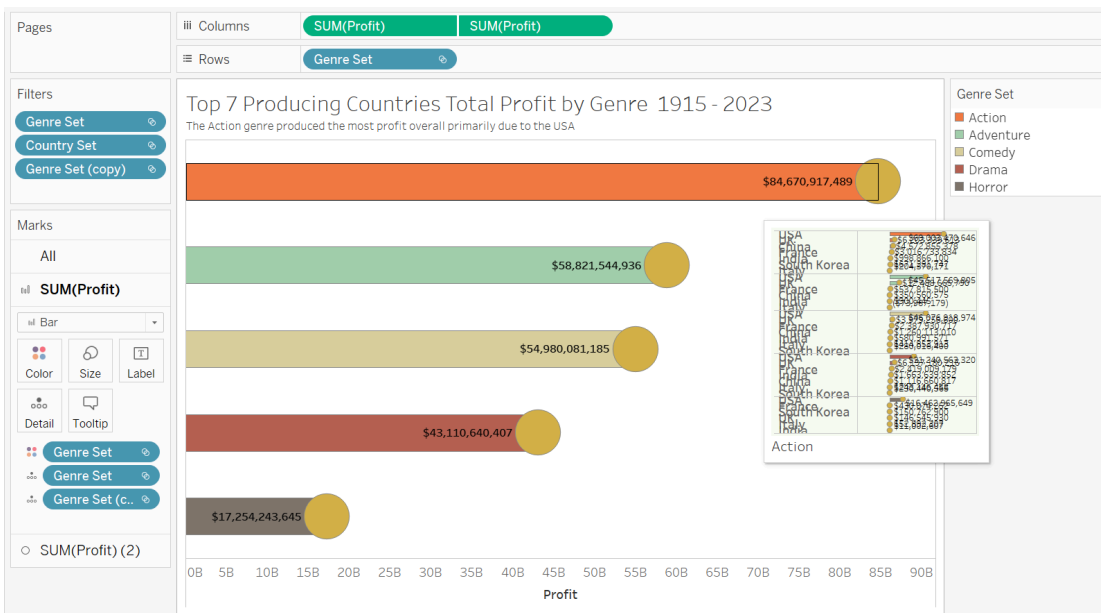
- The parameter allows for determining the average measure (for Budget, Runtime Minutes, and Viewer Rating) for each country and their respective genres
- Even though the Adventure genre has the overall highest average Budget, it is not utilized to make a relatively long Runtime movie on average as the Drama genre (1st and 2nd charts)
- If a writer wanted to sell their Horror movie script to a production company, it is better for them to sell the script to an Indian-based company out of the other six countries, due to having a higher average Budget (1st chart)
- The Viewer Rating parameter (3rd chart) shows that all the top five genres have relatively the same ratings, therefore, this chart is more beneficial to production companies than it is for a viewer to decide what genre to watch
- Under the Budget parameter, China shows to have the highest average budget in the Comedy genre; this could be an indicator of previous profit success compared to other countries that may have lowered their budget over time (1st chart)
- A production company can assume that because the Viewer Rating parameter shows that viewers are indifferent towards one genre over another, they can produce a movie in a genre that does not need a high budget (in order to lower costs)(1st and 3rd charts)



- The parameter allows for the distribution of each of the top seven producing countries
- Each bin is set by \$50,000,000 and each chart (country) skews right, suggesting that most of the profit gained by all their movies across all genres make more than the median, where 50% of the profit is either lower or higher
- For the USA, they make the most profit in the Comedy genre and the least in Adventure (1st chart)
- The USA has lost the most profit in the Drama genre (1st chart)
- From this dataset, China has made no production of a horror movie, therefore it would be risky to produce one rather than the other genres that they have produced (2nd chart)
- Chin's outlier is from the Drama genre and has made the most in profit (2nd chart)



- On the 2nd chart, the regression lines show the correlation between Budget and Revenue; the R-squared indicates the percentage of Budget variables that do correlate to its Revenue variable; the P-value determines if this statistical measure is suitable to explain the correlation and of how true it could be, with the threshold being <0.05
- For the USA, the Adventure genre has the highest positive correlation despite all the genres having positive correlations (1st chart)
- Outliers such as the Avatar variable have affected the regression line for its genre; in this case, the large spread from the Action genre variables could have less accurately predicted the Budget's Revenue (1st chart)
- If a production company in the USA wanted to produce a movie, it is most beneficial to produce one from the Adventure genre rather than from the Drama genre (1st chart)
- If a company in the USA gave a Budget to an Action movie of around 300M, they can expect a Revenue between 250M - 500M
- Some countries, such as Italy had negative correlations for some genres, indicating that there are interfering variables at play that determine Revenue better than Budget



- The tooltip chart shows the breakdown of how much each country contributed to the overall profit of the genre
- The Action genre has made the most in profit, and according to the tooltip chart, it is significantly due to the USA's profit
- The Horror genre has made the least in profit, and the tooltip chart shows that all seven of the top-producing countries made the least profit in this genre
- Despite the Adventure genre making the second highest profit, of these seven countries it is better to avoid Italy when producing a movie
- The USA has consistently made the most profit from each genre

