**Analysis Report**

**Crowd funding Data Analysis**

1. Added few columns namely Percent Funded, Average Donation, Parent Category, Sub-Category, Date Created Conversion and Date Ended Conversion.
2. Created a pivot table and graph based on the Parent category and count of outcome for successful, failed, cancelled and live. The graph was useful to identify the Parent category “theatre” more successful outcomes compared to others.
3. Created a pivot table and graph based on the subcategory and count of outcome for successful, failed, cancelled and live. The graph helped in arriving at the conclusion that sub-category “Plays” under the Parent category “theatre”received more successful outcomes compared to other categories.
4. The line graph shows a positive increase in the successful outcome during the month of May, June, July and drops in the month of august and it continues till December. In an average successful outcome is high during the month of July.
5. Based on the goal analysis 100% success was achieved between the range “15000 to 24999” and ”30000 to 34999” and the graph showed a decline of 40% at “10000 to 14999”.

**Limitation and Suggestions**

1. To determine the future trend of successful outcome we require data for the years 2021 to 2023. Whereas the available data is from 2010 to 2020. The dataset is limited, the Insights can be better if it is possible to get the current data.
2. There are many outliers in the “backers\_count” for both successful and unsuccessful data. The outliers may prevent from identifying the hidden trends.
3. We can create pivot table and line chart to understand the trends along with the filter for the year column based on the following.
4. Percent funded and Outcome
5. Average donation and Outcome

**Statistical Analysis**

1. Calculated the mean, median, variance and standard deviation for both successful and Unsuccessful campaigns based on the backers count. The data shows the distribution is Right Skew.
2. **Median** better summarizes the data as it is the centre point, and all other data is above or below this number. Median is the centre of the dataset whereas Mean is the overall average. Mean gets affected by calculating the average along with the outlier.
3. There is more variability in the Successful campaigns compared to Unsuccessful campaigns as the success rate is more than failure rate. Also, there are many outliers in both the successful and unsuccessful outcomes which can be best described by the Box chart.