**Excel Challenge 1**

**Crowd Funding Report**

**Given the provided data, what are three conclusions that we can draw about crowdfunding campaigns?**

Form Pivot Table, Parent Category:

* It seems like that most of the campaigns successful are related to arts.
* So, the bars depict the high volume of success in theater with 199, film & video 102, and third music with 99.
* The data shows that journalism have all the least volume of projects with successful status.
* Rest of the fours categories including technology have average ratio with slight positive numbers for successful projects as compare to the failed ones.

From Pivot Table, Sub-Category:

* “Plays” has the prominent most high values from all the other categories for number of projects and the successful rate. Crowdfunding is 7 to 8 times larger than all others projects.
* The “rock” and “documentary” cross above 50 numbers for crowdfund with good successful projects.
* As rest of the categories are under 50 and doesn’t explicit any significant differences between them.

From Pivot Table, Date Conversion:

* It seems that there are a lot of people who are putting out campaign in the summer months that’s why there are number of successful attempts goes up in the summer months.
* It also seems like failed and cancelled campaign do not get effected by the month of the year.

From Outcome Based Goals:

* We do have an increase for successful attempts ranges from 15k to 35k.
* Most people do not bother funding for expensive projects more than 50k.
* Cancel attempts are consistent across the goal buckets.

**What are some limitations of this dataset?**

* I have no breakdown for backers counts for goals and pledges. So. There are no individual details to know more individuals people contribution to the projects.
* We have funds but with different currencies. A standardize format is required for making more accurate comparisons regarding the currency with respect to projects.

**What are some other possible tables and/or graphs that we could create, and what additional value would they provide?**

Two Pie Charts:

* Pie chart can create to analyze the number of projects and fundings with respect to countries.
* Another pie chart can be created to determine that how many pledge amounts are available for projects.
* Helps which country have the highest amount of funds.

Two Scattered Charts:

* We can plot scattered chart for X axis as goals and y-axis as pledge to know trends for funds for goals and pledges.
* Another scattered chart can be possible to know for country with currency wise.
* If as the pledge amount is higher than the goal for projects.
* Above scattered charts could use for visualizing the successful and failed projects.

**Statistical Analysis**

**Use your data to determine whether the mean or the median better summarizes the data.**

* According to summarized information, we can estimate that mean is higher than the median.
* We can see there are a lot of outliers in the box plots and there is right-skew distribution, then median would be the best measure to explain the data.
* Mean is pulled by the outliers, i.e., biased for distribution the data.

**Use your data to determine if there is more variability with successful or unsuccessful campaigns. Does this make sense? Why or why not?**

The deviations are right-skewed.

More variability is having more backers count in the successful campaigns rather than unsuccessful campaigns.

The distribution for successful campaigns according to standard deviation.

Our distribution is right-skewed, because we have more outliers.