HW – Due – 12-19-2021

**### Before You Begin**

~~1. Create a new space for this project called `excel-challenge` in either DropBox or Google Drive.~~ **~~\*\*Do not add this homework to an existing space\*\*~~**~~.~~

~~2. Store your excel workbooks in here and create a sharable link for submission.~~

**## Instructions**

![Kickstarter Table](Images/FullTable.png)

~~Using the Excel table provided, modify, and analyze the data of 4,000 past Kickstarter projects as you attempt to uncover some market trends.~~

~~\* Use conditional formatting to fill each cell in the `state` column with a different color, depending on whether the associated campaign was successful, failed, or canceled, or is currently live.~~

~~\* Create a new column O called `Percent Funded` that uses a formula to uncover how much money a campaign made to reach its initial goal.~~

~~\* Use conditional formatting to fill each cell in the `Percent Funded` column using a three-color scale. The scale should start at 0 and be a dark shade of red, transitioning to green at 100, and blue at 200.~~

~~\* Create a new column P called `Average Donation` that uses a formula to uncover how much each backer for the project paid on average.~~

~~\* Create two new columns, one called `Category` at Q and another called `Sub-Category` at R, which use formulas to split the `Category and Sub-Category` column into two parts.~~

  ![Category Stats](Images/CategoryStats.png)

~~\* Create a new sheet with a pivot table that will analyze your initial worksheet to count how many campaigns were successful, failed, canceled, or are currently live per~~ **~~\*\*category\*\*~~**~~.~~

~~\* Create a stacked column pivot chart that can be filtered by country based on the table you have created.~~

  ![Subcategory Stats](Images/SubcategoryStats.png)

  \* ~~Create a new sheet with a pivot table that will analyze your initial sheet to count how many campaigns were successful, failed, or canceled, or are currently live per~~ **~~\*\*sub-category\*\*~~**~~.~~

~~\* Create a stacked column pivot chart that can be filtered by country and parent-category based on the table you have created.~~

~~\* The dates stored within the `deadline` and `launched\_at` columns use Unix timestamps. Fortunately for us, [there is a formula](https://www.extendoffice.com/documents/excel/2473-excel-timestamp-to-date.html) that can be used to convert these timestamps to a normal date.~~

~~\* Create a new column named `Date Created Conversion` that will use [this formula](https://www.extendoffice.com/documents/excel/2473-excel-timestamp-to-date.html) to convert the data contained within `launched\_at` into Excel's date format.~~

~~\* Create a new column named `Date Ended Conversion` that will use [this formula](https://www.extendoffice.com/documents/excel/2473-excel-timestamp-to-date.html) to convert the data contained within `deadline` into Excel's date format.~~

  ![Outcomes Based on Launch Date](Images/LaunchDateOutcomes.png)

~~\* Create a new sheet with a pivot table with a column of `state`, rows of `Date Created Conversion`, values based on the count of `state`, and filters based on `parent category` and `Years`.~~

~~\* Now create a pivot chart line graph that visualizes this new table.~~

~~\* Create a report in Microsoft Word and answer the following questions.~~

~~1. Given the provided data, what are three conclusions we can draw about Kickstarter campaigns? Explain the reasoning behind your answers.~~

~~2. What are some limitations of this dataset?~~

~~3. What are some other possible tables and/or graphs that we could create, and what additional value would they provide?~~

**## Bonus**

\* Create a new sheet with 8 columns:

  \* `Goal`

  \* `Number Successful`

  \* `Number Failed`

  \* `Number Canceled`

  \* `Total Projects`

  \* `Percentage Successful`

  \* `Percentage Failed`

  \* `Percentage Canceled`

\* In the `Goal` column, create 12 rows with the following headers:

  \* Less than 1000

  \* 1000 to 4999

  \* 5000 to 9999

  \* 10000 to 14999

  \* 15000 to 19999

  \* 20000 to 24999

  \* 25000 to 29999

  \* 30000 to 34999

  \* 35000 to 39999

  \* 40000 to 44999

  \* 45000 to 49999

  \* Greater than or equal to 50000

  ![Goal Outcomes](Images/GoalOutcomes.png)

~~\* Using the `COUNTIFS()` formula, count how many successful, failed, and canceled projects were created with goals within the ranges listed above. Populate the `Number Successful`, `Number Failed`, and `Number Canceled` columns with this data.~~

~~\* Add up each of the values in the `Number Successful`, `Number Failed`, and `Number Canceled` columns to populate the `Total Projects` column. Then, using a mathematical formula, find the percentage of projects that were successful, failed, or canceled per goal range.~~

~~\* Create a line chart that graphs the relationship between a goal's amount and its chances at success, failure, or cancellation.~~

**## Bonus Statistical Analysis**

~~If one were to describe a successful crowd funding campaign, most people would use the number of campaign backers as a metric of success. One of the most efficient ways that data scientists characterize a quantitative metric, such as the number of campaign backers, is by creating a summary statistics table.~~

~~For those looking for an additional challenge, you will evaluate the number of backers of successful and unsuccessful campaigns by creating~~ **~~\*\*your own\*\*~~** ~~summary statistics table.~~

~~\* Create a new worksheet in your workbook, and create a column each for the number of backers of successful campaigns and unsuccessful campaigns.~~

  ![Images/backers01.png](Images/backers01.png)

\* Use Excel to evaluate the following for successful campaigns, and then for unsuccessful campaigns:

~~\* The mean number of backers.~~

~~\* The median number of backers.~~

~~\* The minimum number of backers.~~

~~\* The maximum number of backers.~~

~~\* The variance of the number of backers.~~

~~\* The standard deviation of the number of backers.~~

\* Use your data to determine whether the mean or the median summarizes the data more meaningfully.

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

**## Submission**

\* To submit your homework, upload the solution and files to a GitHub repo, Dropbox, or Google Drive and submit the link to <https://bootcampspot.com/>.

**## Rubric**

[Unit 1 Rubric - Excel Homework: Kickstart My Chart](https://docs.google.com/document/d/1RucBXrHMoOa8E4lta5bfaAfUxvRBvMjPELh3uHJL0tY/edit?usp=sharing)

**## Employer-Ready Criteria**

Students who are marked as employer-ready gain access to our employer referral program, additional workshops, and other resources. Work with your Career Director to become employer-ready. At a minimum, you must have:

- A clear, concise, and compelling resume. Submit via your learning platform for review.

- A polished GitHub profile:

  - 3 - 6 pinned repositories ([instructions here](https://docs.github.com/en/enterprise/2.13/user/articles/pinning-items-to-your-profile))

  - professional titles, i.e. not "Homework #1"

  - thorough README.md files for each repository

  - clean code