**Title:** Project 2, Team 3

**Team:** Kimberly Childers, Joshua Hale, and Damarje Brown

**Project Description:** Project 2 required team members to work together and explore how to extract data utilizing Python and Pandas, transform and clean data, parse string data, place data in dictionaries, use lists to display readable code, and manipulate strings using regular expressions. Team 2 accomplished this by creating Category/Subcategory, Campaign, Contacts, and Crowdfunding data frames.

**Analysis:**

1) Category data frame was created. Reference category dataframe file "category.csv." The team created a “category\_id” and “category” column from the “crowdfunding.xlsx” data provided.

\*Add image 1 here\*

2) Subcategory data frame was created. Reference subcategory dataframe file "subcategory.csv." The team created a “subcategory\_id” and “subcategory” column.

\*Add image 2 here\*

3) Campaign data frame was created. Reference campaign dataframe file "campaign.csv." Columns were renamed from “launched\_at” and “deadline” to “launch\_date” and “end\_date.” Then both UTC times were converted to the datetime format.

\*Add image 3\*

4) Contact data frame was created. Reference contact dataframe file "contacts.csv." The team chose to use option one which used Python dictionaries as opposed to regular expressions. Each row of the provided data was converted into a dictionary and pandas was used to make a dataframe listing the contact\_id, name, and e-mail. The second image below shows the names column split into first and last name.

\*Add image 4\*

\*Add image 5\*

5) Crowdfunding database was created. Reference crowdfunding database file "crowdfunding\_db." QuickDBD was used to an ERD of tables.

\*Add image 6\*

The team finally made a Postgres file and verified that all tables were created.

**Future Implications:**

-Create db to see the percentage of successful campaigns grouped by category

-Make ERD more robust by accounting for floats (not all pledges will be whole numbers)

-Automate data storage annually to depict trends on successful companies.