README

Introduction

The UFO project is based on the UFO Sightings dataset uploaded on Kaggle by the National UFO Reporting Center (NUFORC)/ We will be using Microsoft Excel and PostgreSQL for data cleanup. We will also be using PostgreSQL and RStudio for manipulating the Data. We will then use Tableau Public for Data Visualization.

ASK

The questions that will guide our analysis are:

1. How does the number of UFO observations vary by year?

2. How do UFO observations vary by time of day?

3. How can we map the observation data?

PREPARE

We will first need to download the data. The data is sourced from the following link:

Link to Data source: <https://www.kaggle.com/datasets/NUFORC/ufo-sightings>

PROCESS

To process our data, we will be using Excel and SQL for data cleanup. We will also use RStudio and Tableau for Visualization

The first step is to clean up the data in Excel. We can see the cleanup process in the **Excel\_Cleanup\_Process document.**

In the second step in our analysis create our table in SQL. Refer to the **Create\_Table.txt in the SQL folder**

The third step is importing the data into our newly created table. We do this using the **Import CSV file into a table using pgAdmin** section of the following link:

<https://www.postgresqltutorial.com/postgresql-tutorial/import-csv-file-into-posgresql-table/>

We now have our data ready for cleanup and analysis

ANALYZE

With our data imported into SQL we are ready for analysis. Our Analysis will be based on the guide questions in the ASK section of this document.

Open the **Calculation document on the Query folder** for the code used for our analysis.

For our analysis in RStudio we will open the **UFO\_R\_Markdown file.**

SHARE

We mapped the location of each UFO sighting using Tableau Public. The visualization can be accessed using the following link:

<https://public.tableau.com/views/DraftUFO_Locations/Sheet1?:language=en-US&:display_count=n&:origin=viz_share_link>

ACT

Based on our findings we can see that..