# DATA ANALYST: SQL PORTFOLIO



#### PREPARED BY



#### **Professional Background**

I have a bachelor's degree in geophysics and a post graduate diploma in Applied geophysics, I have processed and interpreted multiple geophysical data during my studies.

I worked as an intern at City Business of Computers (CBC) and presently an employee at Federal College of Fisheries and Marine Technology as an administrative officer.

I am well skilled in Microsoft word, Microsoft excel and tableau. I work effectively as a team member and also independently

I am always ready to learn and i am ready and looking forward to a new challenge and new opportunities,

#### **Portfolio Outline**

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#### Introduction

I was given a theoretical case being a data analyst for a charity organization "EDUCATION FOR ALL". The head of the fundraising team asked me to present the data on donor Insights and donation rates within the fundraising team. My objectives are to

- Increase the number of donors in your database
- Increase the donation frequency of your donors.
- Increase the value of donations in your database.

I was given a duration of 2 weeks to present insights from the donation data to my team and brief my fundraising master plan to increase donations the

I used the datasets EFO\_Donation data and EFO\_Donor data to answer the business problem

I analyzed my data using SQL Commands such as; JOIN, ORDER BY, WHERE, BETEEN, AND, OR SUM(), COUNT(), AVG(), GROUP BY, I applied the root mean cause analysis to acknowledge the problem and ask question.

From these, I detected the insight of the dataset provided

#### **Root Cause Analysis**

The business problem the organization is facing is; How can we bring in more donors and inspire them to donate frequently. The root cause analysis which involves an intense study of getting to the root of the problem was applied.

The root cause analysis can be in the form a 5 why approach which means asking asking questions with the word 'WHY' 5 times.

The questions asked using the root cause analysis are'

Q1: Why do we not have enough donors.

A1: There is a shortage amount of donors who can give frequently

Q2: Why do our donors lack the willingness to donate frequently

A2: There is a need to get our existing donors inspired well to give donations frequently.

Q3: Why do some of our existing donors stop giving donations anymore.

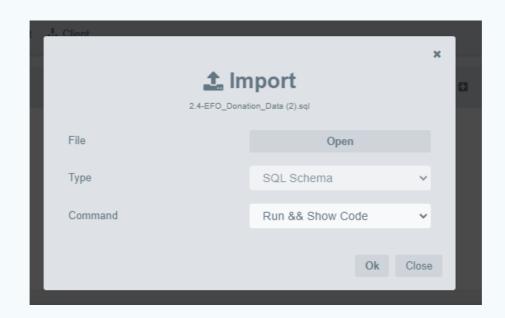
A3: The organization do not value and respect existing donors.

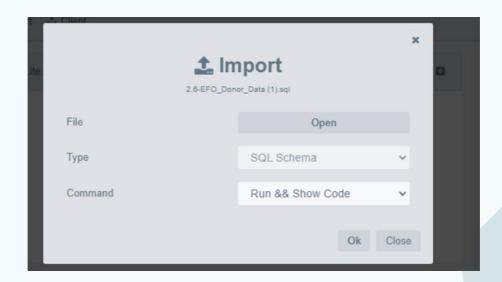
Q4 Why are some of our existing donor switching to other charity organizations

A4. They get better services and are well appreciated

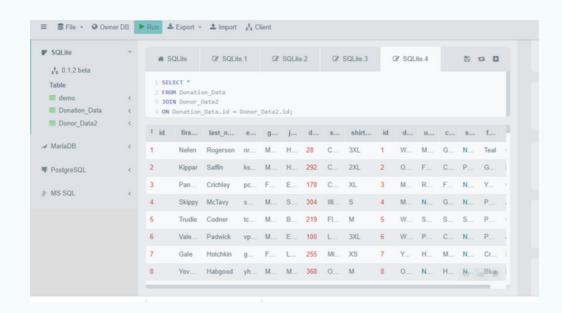
Q5 why are donors not finding our organization attractive A5 They are not satisfied with operation of the organization

Dataset used for this project were EFO\_Donation\_Data and EFO\_Donor\_Data, both data set were imported into an online data base management system called SQLiteonline.com

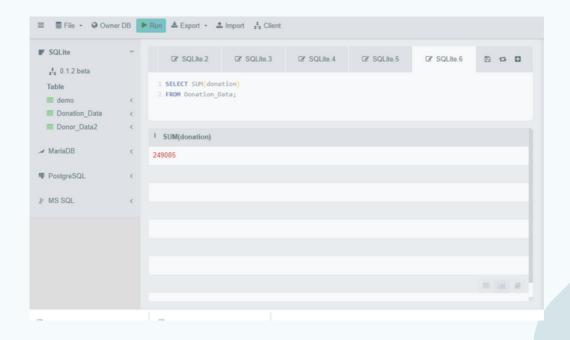




Tables extracted from the datasets were combined using the JOIN command.



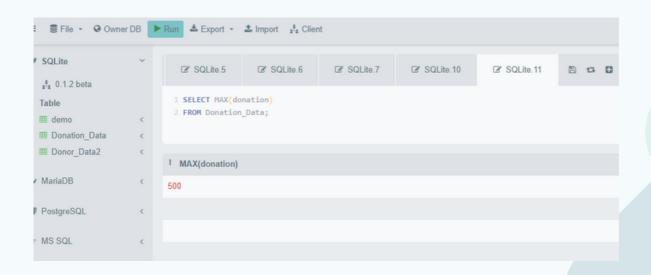
I used the command SUM() to get the total funds donated

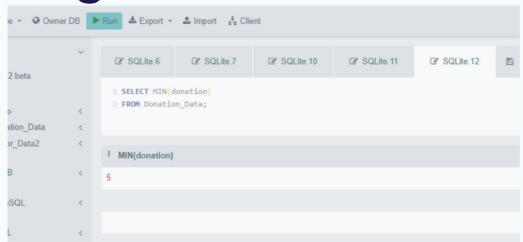


I used command COUNT() to find the number of donors we have

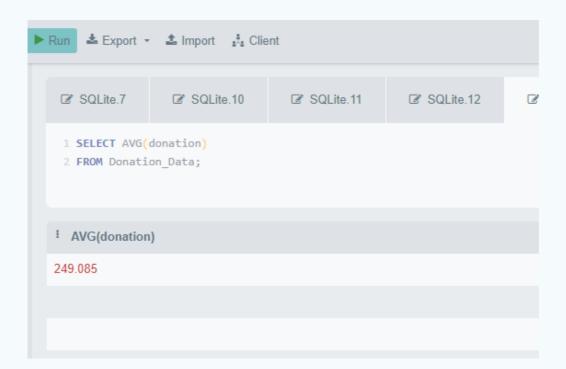


I applied the command MAX() and MIN() to the maximum and minimum donations in our organization

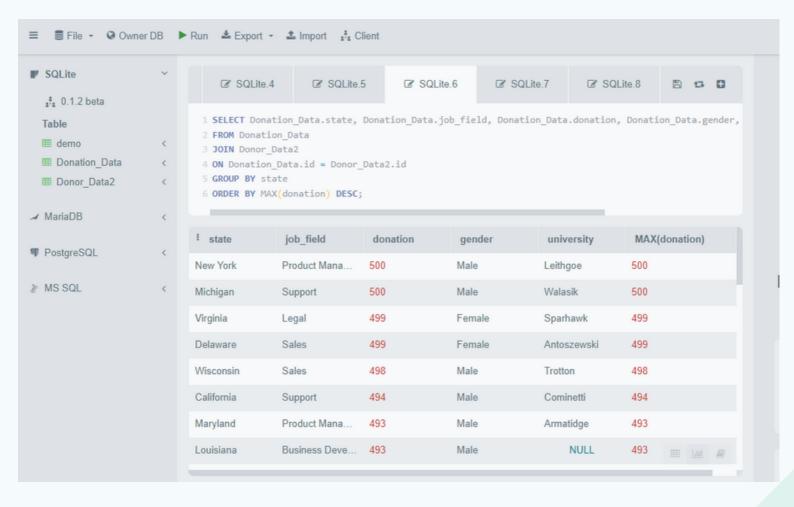




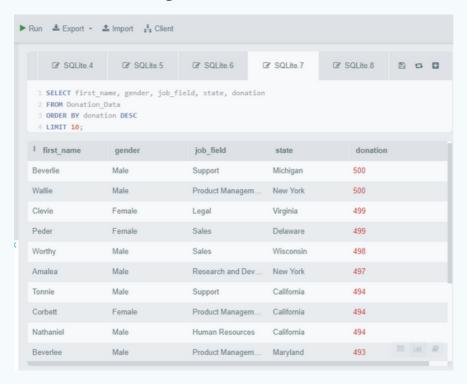
In order to determine the average donation i used the command AVG()



The GROUP BY () and ORDER () command was used to get the top donor in the organisation, these were arranged in a descending order using DESC command.

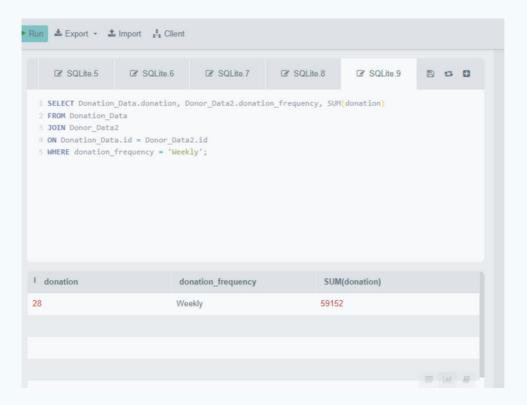


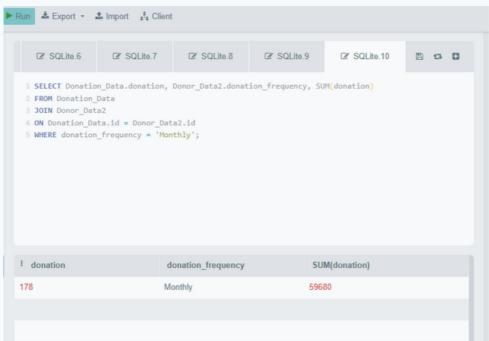
The LIMIT10 command was used to determine the top 10 donors of the organisation

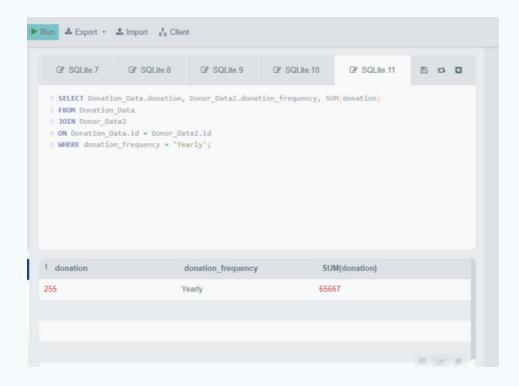


The sum total of donors who donated once, weekly, monthly, yearly was dtermined using the command below

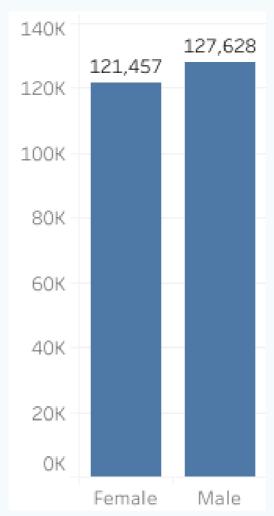


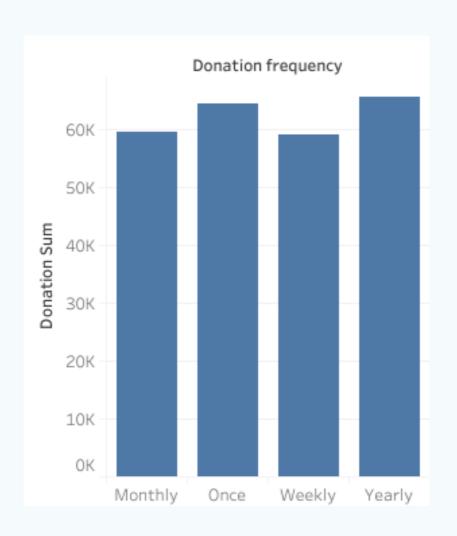


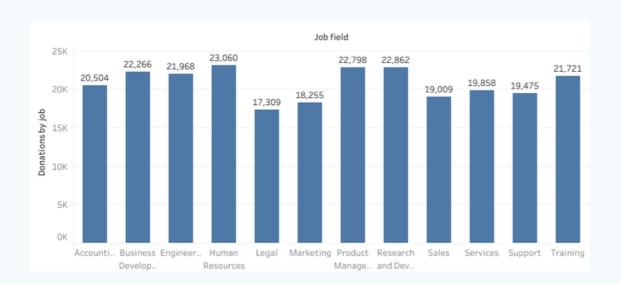


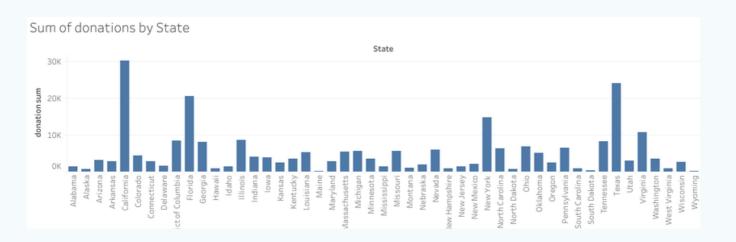


I went further by using tableau public to visualise the datasets









# Findings and Recommendations



Total sum of donations were;\$249,085 Highest amount donated;\$500 Least amount donated;\$5 The average donation from one donor; \$249.085

The following recommendations were made in order to boost the numbers of donors, their rate of donations and the amount donated;

- 1. The organization needs to create more awareness on social media to get more donors
- 2. Quarterly reports needs to prepared and be presented to donors via e-mails or conferences for accountability as these will enable donors to donate more
- 3. Due to busy schedules of most donors especially for those who donated frequently
- 4. Donors needs to be properly appreciated as these will make the organization attractive to other philanthropist.
- 5. Donors should have a seamless process when donating to reduce stress

#### **Conclusion**

There organization should more effort on creating publicity through social media to attract more donors and should pay more attention to donors who give weekly and monthly.

#### Skills

I learnt how to import and data SQL datasets. i learnt how use the JOIN, WHERE, AVG(), SUM(), LIMIT, DESC, COUNT() queries successfully.

I was able to visualize my dataset on tableau.

I learnt how to write a concise report on project given.