Dear Project Manager,

I hope this email finds you well. I wanted to provide you with an update on the analysis conducted for the client membership data you provided.

I used Python and SQLite to aggregate and standardize the five member rosters and generate summary statistics to gain insights into the client's membership. Here are the steps I took and the findings I retrieved:

- First, I combined the member rosters into a single table called 'std_member_info'. I only included members who were eligible during April 2022, resulting in a table with one row per member. I standardized the columns to include member ID, first and last name, date of birth, main address, city, state, zip code, and payer information.

- I found that there were 105,680 distinct members who were eligible in April 2022. I identified that the data did not had any Null values however, I also identified that there were 23,485 members included more than once in the data. i.e., the 5 rosters had duplicate entries in them, which were found after combining the data of rosters. Thus, I updated the 'std_member_info' table by removing these duplicate values for accurate analysis further.

- The members were primarily covered by two payers: 'Madv' and 'Mdcd'. 'Madv' covered 39,539 members, while 'Mdcd' covered 66,141 members.

- I also found that 8,127 members were living in a zip code with a food access score lower than 2.

- The average social isolation score for the members was 3.07.

- On analyzing, it was found that there are 49 members are living in the zip code i.e., 95950 where the 'algorex_sdoh_composite_score' is the highest (the CSV file containing information of these members is attached. PFA).

Overall, the analysis provided valuable insights into the client's membership and will help inform further analysis and decision-making. However, I did encounter some data quality issues during the analysis as mentioned, such as duplicate information in rosters. I was able to resolve these issues through careful data cleaning and manipulation.

I would be more than happy to address any questions or concerns you may have regarding the analysis or any other aspect of the project. It was a pleasure to have had the opportunity to work on this project and I look forward to potentially collaborating on future projects as well.

Best regards,
Shubham Bhagwat