**FROM: Bryce Forseth**

**Subject: Health Heart Experiment**

**PART ONE**

**Overview**

In this SQL database scenario, we were assigned to assess the health of different patients using different factors listed. Given the age, gender, BMI height and weight, I scored different patients and created metrics using different SQL techniques. The following information can be found below. The SQL code used can be found in the *Appendix* at the end of the document.

**Summary**

First, I made an average max heart rate table. This was used by multiplying the average max heart rate for different age groups, and multiplying it by .85, or 85%, to determine the maximum heart rate. Then, I created an age group section. This used the age of the patient, and put them into a category based off of their age. For example, if someone is 26, this would assign them to an age group *20s*.

Then, given a list of different patients, I assigned them to different BMI categories based on a BMI scale. Patients were either assigned to an Underweight, Normal, Overweight, or Obese score, given their relative height and weight.

After this, I was assigned to a treadmill test category. This uses the age of the patient and their max heart rate and assigned them to a different grouping on the treadmill test based on their heart rate treadmill score.

**Appendix**



